

Schlumberger

AMOCO AUSTRALIA PETROLEUM COMPANY  
VSP/GEOGRAM PROCESSING REPORT

YOLLA #1

FIELD : WILDCAT  
COUNTRY : AUSTRALIA  
COORDINATES : 39 50' 18.96"S  
145 48' 21.2"E  
PERMIT : T 14  
LOCATION : BASS STRAIT OFFSHORE TASMANIA  
DATE OF SURVEY : 10-SEPT-1985  
REFERENCE NO. : VSP 540391  
GEOGRAM 540388

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## 1.0 INTRODUCTION

A Vertical Seismic Profile was shot in the YOLLA #1 well on 10-September-1985. One hundred and forty one levels from 500metres to 3314metres below KB were shot using an airgun source and WST tool. One hundred and twenty five levels have been used in processing the Vertical Seismic Profile. A Geogram was computed using the VSP levels to calibrate the sonic log. One hundred and thirteen levels were used for the Geogram processing.

All shot times and the calibrated sonic have been corrected to a nominal Mean Sea Level Datum.

### VSP Objectives:

- to obtain a high resolution time-depth curve. As the levels are separated by between 5 to 10milliseconds, accurate velocity analysis can be made.
- to obtain a better tie between the VSP and Seismic. The lateral depth of investigation of a VSP is intermediate between surface seismic and logs (radius 20metres).
- to determine the multiple content of the area by analysis of the downgoing wavetrains.

In addition to the above the VSP has other applications:

- Further analysis of the downgoing wavetrain provides information on the earth filtering of the seismic wave versus depth.
- The VSP has the properties of being Vertical, therefore minimising the effects of moveout. This simplifies greatly the analysis of highly dipping reflectors, and also the interpretation of data recorded in faulted areas.
- One of the most important applications of VSP's is the analysis of reflected signals below the sensor.

## 2.0 DATA ACQUISITION

**Table 1 : Field Equipment and Survey Parameters**

|                   |                                   |
|-------------------|-----------------------------------|
| Elevation SRD     | Mean Sea Level                    |
| Elevation KB      | 10.9metres AMSL                   |
| Elevation DF      | 10.3metres AMSL                   |
| Elevation GL      | -79.5metres AMSL                  |
| No. of Levels     | 141                               |
| Well Deviation    | Nil                               |
| Total Depth       | 3351metres below KB               |
| Energy Source     | Bolt airgun,120cu.in.             |
| Source Offset     | 37metres                          |
| Source Depth      | 3.35metres below MSL              |
| Source Azimuth    | 315°                              |
| Reference Sensor  | Accelerometer                     |
| Sensor Offset     | 37metres                          |
| Sensor Depth      | 3.35metres below MSL              |
| Sensor Azimuth    | 315°                              |
| Downhole Geophone | Geospace HS-1                     |
|                   | High Temp. (350°F)                |
|                   | Coil Resist. $225\Omega \pm 10\%$ |
|                   | Natural Freq. 8 - 12Hz            |
|                   | Sensitivity 0.45V/in/sec          |
|                   | Maximum tilt angle 60°            |

Recording was made on the Schlumberger Computerized Service Unit (CSU) using LIS format.

### 3.0 CHECK SHOT DATA

A total of 141 levels from 500 – 3314metres were shot at a level separation of 20metres. The top levels to 940metres are corrupted by casing arrivals. No levels above 670metres were used in the seismic processing. The general data quality is good above 2700metres, however 120hertz noise is apparent below this depth and the signal to noise ratio is approximately 1.

Table 2

| Level Depth<br>(m below KB) | Transit<br>Time | Stacked<br>Shots | Rejected<br>Shots | Quality      | Comments               |
|-----------------------------|-----------------|------------------|-------------------|--------------|------------------------|
| 79.5                        | 50.0            | -                | -                 | Imposed shot | Sea Floor              |
| 415.0                       | 191.0           | -                | -                 | Imposed shot | Top of sonic           |
| 500.0                       | -               | 6                | 3                 | Poor         | * - see comments below |
| 580.0                       | -               | 5                | 2                 | Poor         | *                      |
| 600.0                       | -               | 6                | 0                 | Poor         | *                      |
| 610.0                       | -               | 5                | 0                 | Poor         | *                      |
| 640.0                       | -               | 3                | 0                 | Poor         | *                      |
| 670.0                       | 296             | 9                | 1                 | Fair         | *                      |
| 700.0                       | 302             | 5                | 0                 | Fair         | *                      |
| 730.0                       | 307             | 4                | 0                 | Fair         | *                      |
| 760.0                       | 323             | 3                | 0                 | Fair         | *                      |
| 790.0                       | 345             | 6                | 0                 | Fair         | *                      |
| 800.0                       | 347             | 5                | 0                 | Fair         | *                      |
| 820.0                       | 355             | 5                | 0                 | Fair         | *                      |
| 850.0                       | 374             | 3                | 0                 | Fair         | *                      |
| 880.0                       | 386             | 3                | 0                 | Fair         | *                      |
| 910.0                       | 397             | 3                | 0                 | Fair         | *                      |
| 940.0                       | 403.0           | 3                | 0                 | Fair         | *                      |
| 970.0                       | 424             | 5                | 0                 | Fair         |                        |
| 1000.0                      | 433.0           | 10               | 0                 | Fair         |                        |
| 1030.0                      | 457             | 7                | 1                 | Fair         |                        |
| 1060.0                      | 464.0           | 5                | 0                 | Good         |                        |
| 1080.0                      | 471.0           | 5                | 0                 | Good         |                        |
| 1100.0                      | 484.0           | 4                | 1                 | Good         |                        |
| 1120.0                      | 489.0           | 5                | 0                 | Good         |                        |
| 1140.0                      | 497.0           | 5                | 0                 | Good         |                        |
| 1160.0                      | 509.0           | 5                | 0                 | Good         |                        |
| 1180.0                      | 514             | 5                | 5                 | Good         |                        |
| 1200.0                      | 526.0           | 10               | 2                 | Good         |                        |
| 1220.0                      | 534             | 5                | 0                 | Good         |                        |
| 1240.0                      | 542             | 5                | 1                 | Good         |                        |
| 1260.0                      | 552.0           | 5                | 7                 | Good         |                        |

\* - Casing arrival was predominant on levels from 500 to 790metres. The top level used in the VSP processing was 670metres. First breaks could only be accurately picked below 970metres. No levels above 970metres were used in the sonic calibration.

Table 2(continued)

| Level Depth<br>(m below KB) | Transit<br>Time | Stacked<br>Shots | Rejected<br>Shots | Quality | Comments |
|-----------------------------|-----------------|------------------|-------------------|---------|----------|
| 1280.0                      | 560.0           | 5                | 0                 | Good    |          |
| 1304.0                      | 569.0           | 5                | 0                 | Good    |          |
| 1320.0                      | 575.0           | 4                | 1                 | Good    |          |
| 1340.0                      | 581.0           | 5                | 0                 | Good    |          |
| 1360.0                      | 587.0           | 4                | 1                 | Good    |          |
| 1380.0                      | 594.0           | 3                | 2                 | Good    |          |
| 1400.0                      | 600.0           | 5                | 5                 | Good    |          |
| 1420.0                      | 607.0           | 5                | 3                 | Good    |          |
| 1440.0                      | 614.0           | 5                | 0                 | Good    |          |
| 1460.0                      | 620.0           | 5                | 5                 | Good    |          |
| 1480.0                      | 627.0           | 5                | 0                 | Good    |          |
| 1500.0                      | 633.0           | 5                | 0                 | Good    |          |
| 1520.0                      | 640.0           | 5                | 0                 | Good    |          |
| 1540.0                      | 646.0           | 5                | 0                 | Good    |          |
| 1560.0                      | 651.0           | 5                | 0                 | Good    |          |
| 1570.0                      | 654.0           | 3                | 0                 | Good    |          |
| 1580.0                      | 659.0           | 5                | 0                 | Good    |          |
| 1600.0                      | 665.0           | 9                | 1                 | Good    |          |
| 1620.0                      | 672.0           | 5                | 0                 | Good    |          |
| 1640.0                      | 678.0           | 5                | 0                 | Good    |          |
| 1660.0                      | 683.0           | 5                | 0                 | Good    |          |
| 1670.0                      | 687.0           | 3                | 1                 | Good    |          |
| 1680.0                      | 691.0           | 5                | 0                 | Good    |          |
| 1700.0                      | 697.0           | 5                | 0                 | Good    |          |
| 1720.0                      | 705.0           | 5                | 0                 | Good    |          |
| 1740.0                      | 712.0           | 5                | 0                 | Good    |          |
| 1760.0                      | 720.0           | 9                | 15                | Good    |          |
| 1780.0                      | 726.0           | 5                | 0                 | Good    |          |
| 1800.0                      | 733.0           | 5                | 0                 | Good    |          |
| 1820.0                      | 739.0           | 7                | 1                 | Good    |          |
| 1840.0                      | 746.0           | 4                | 1                 | Good    |          |
| 1860.0                      | 753.0           | 5                | 0                 | Good    |          |
| 1880.0                      | 759.0           | 5                | 0                 | Good    |          |
| 1900.0                      | 766.0           | 5                | 0                 | Good    |          |
| 1920.0                      | 771.0           | 5                | 0                 | Good    |          |
| 1940.0                      | 778.0           | 4                | 3                 | Good    |          |
| 1960.0                      | 783.0           | 5                | 0                 | Good    |          |
| 1980.0                      | 790.0           | 4                | 1                 | Good    |          |
| 2000.0                      | 797.0           | 4                | 1                 | Good    |          |
| 2020.0                      | 803.0           | 5                | 0                 | Good    |          |
| 2040.0                      | 808.0           | 4                | 1                 | Good    |          |

Table 2(continued)

| Level Depth<br>(m below KB) | Transit<br>Time | Stacked<br>Shots | Rejected<br>Shots | Quality | Comments |
|-----------------------------|-----------------|------------------|-------------------|---------|----------|
| 2060.0                      | 813.0           | 5                | 2                 | Good    |          |
| 2080.0                      | 821.0           | 5                | 0                 | Good    |          |
| 2100.0                      | 827.0           | 7                | 0                 | Good    |          |
| 2120.0                      | 833.0           | 5                | 0                 | Good    |          |
| 2140.0                      | 840.0           | 5                | 0                 | Good    |          |
| 2160.0                      | 847.0           | 5                | 0                 | Good    |          |
| 2180.0                      | 855.0           | 4                | 1                 | Good    |          |
| 2200.0                      | 862.0           | 5                | 0                 | Good    |          |
| 2220.0                      | 867.0           | 5                | 0                 | Good    |          |
| 2240.0                      | 875.0           | 4                | 2                 | Good    |          |
| 2260.0                      | 880.0           | 5                | 0                 | Good    |          |
| 2280.0                      | 886.0           | 5                | 0                 | Good    |          |
| 2290.0                      | 890.0           | 5                | 0                 | Good    |          |
| 2310.0                      | 895.0           | 4                | 1                 | Good    |          |
| 2330.0                      | 902.0           | 5                | 0                 | Good    |          |
| 2350.0                      | 907.0           | 9                | 4                 | Good    |          |
| 2370.0                      | 917.0           | 4                | 1                 | Good    |          |
| 2390.0                      | 922.0           | 4                | 1                 | Good    |          |
| 2410.0                      | 928.0           | 8                | 2                 | Good    |          |
| 2430.0                      | 933.0           | 9                | 2                 | Good    |          |
| 2450.0                      | 938.0           | 5                | 0                 | Good    |          |
| 2470.0                      | 943.0           | 5                | 0                 | Good    |          |
| 2490.0                      | 949.0           | 5                | 0                 | Good    |          |
| 2510.0                      | 953.0           | 5                | 0                 | Good    |          |
| 2530.0                      | 956.0           | 4                | 1                 | Good    |          |
| 2550.0                      | 966.0           | 5                | 0                 | Good    |          |
| 2570.0                      | 969.0           | 5                | 0                 | Good    |          |
| 2590.0                      | 974.0           | 9                | 2                 | Good    |          |
| 2600.0                      | 979.0           | 5                | 0                 | Good    |          |
| 2620.0                      | 982.0           | 5                | 0                 | Good    |          |
| 2640.0                      | 985.0           | 4                | 1                 | Good    |          |
| 2660.0                      | 989.0           | 5                | 0                 | Good    |          |
| 2680.0                      | 994.0           | 5                | 0                 | Good    |          |
| 2700.0                      | 998.0           | 5                | 0                 | Good    |          |
| 2720.0                      | 1005.0          | 5                | 0                 | Good    |          |
| 2740.0                      | 1009.0          | 5                | 0                 | Fair    | **       |
| 2760.0                      | 1014.0          | 5                | 0                 | Fair    |          |
| 2780.0                      | 1017.0          | 5                | 0                 | Fair    |          |

\*\* - The last thirty levels (from approx 2700metres to TD) are of low signal to noise ratio and are corrupted by 120hertz noise.

Table 2(continued)

| Level Depth<br>(m below KB) | Transit<br>Time | Stacked<br>Shots | Rejected<br>Shots | Quality | Comments       |
|-----------------------------|-----------------|------------------|-------------------|---------|----------------|
| 2800.0                      | 1022.0          | 4                | 1                 | Fair    |                |
| 2820.0                      | 1026.0          | 9                | 1                 | Fair    |                |
| 2840.0                      | 1034.0          | 4                | 1                 | Fair    |                |
| 2860.0                      | 1042.0          | 5                | 0                 | Fair    |                |
| 2880.0                      | 1046.0          | 5                | 0                 | Fair    |                |
| 2900.0                      | 1051.0          | 5                | 0                 | Fair    |                |
| 2925.0                      | 1057.0          | 4                | 1                 | Fair    |                |
| 2965.0                      | 1066.0          | 5                | 1                 | Fair    |                |
| 3000.0                      | 1074.0          | 5                | 0                 | Fair    |                |
| 3025.0                      | 1079.0          | 5                | 2                 | Fair    |                |
| 3060.0                      | 1089.0          | 5                | 1                 | Fair    |                |
| 3080.0                      | 1094.0          | 7                | 1                 | Fair    |                |
| 3100.0                      | 1099.0          | 5                | 1                 | Fair    |                |
| 3120.0                      | 1104.0          | 5                | 1                 | Fair    |                |
| 3140.0                      | 1110.0          | 8                | 2                 | Fair    |                |
| 3160.0                      | 1115.0          | 8                | 0                 | Fair    |                |
| 3180.0                      | 1120.0          | 17               | 0                 | Fair    |                |
| 3200.0                      | 1128.0          | 7                | 0                 | Fair    |                |
| 3220.0                      | 1129.0          | 7                | 0                 | Fair    |                |
| 3240.0                      | 1138.0          | 7                | 0                 | Fair    |                |
| 3280.0                      | 1141.0          | 9                | 0                 | Fair    |                |
| 3280.0                      | 1146.0          | 4                | 1                 | Fair    |                |
| 3300.0                      | 1151.0          | 4                | 1                 | Fair    |                |
| 3312.5                      | 1154.0          | 4                | 2                 | Fair    |                |
| 3314.0                      | -               | 8                | 4                 | Poor    | Level rejected |

## 4.0 VSP PROCESSING

The VSP processing has been completed using zero phase and minimum waveshaping deconvolution. These are included on separate plots summarizing the VSP chain and are described below.

### 4.1 PLOT 1 - STACKED DATA

Each shot is corrected for the hydrophone first break time and the source offset from the well. All the shots at each level, excluding those with a high level of noise are stacked. Levels not included in VSP processing have been excluded from this display.

The first break times have been picked after application of a 10 - 100hertz BPF. This was necessary because of the high level of 120hertz present in the lower levels.

### 4.2 PLOT 2 - BPF and TAR

All data from this stage is corrected in time to the vertical and to SRD. Plot 2 data is displayed in One Way Time.

A Band Pass Filter is applied to eliminate high and low frequency noise. The filter is a third order recursive Butterworth filter which is applied twice, the second time on the filtered data reversed in time, resulting in a sixth order zero phase filter.

True Amplitude Recovery is a time variant gain function to compensate for spherical spreading and attenuation losses. The amplitude at time T is multiplied by  $(\frac{T}{T_0})^\alpha$  where  $T_0$  is the first break time and  $\alpha$  is the TAR factor.

Band Pass Filter : 14 - 50Hertz  
TAR Factor : 1.1

### 4.3 PLOT 3 - VELOCITY FILTER

A 9 level median velocity filter is used to separate the upgoing and downgoing components of the total wavefield. Data from this stage is displayed in Two Way Time.



## 5.0 SONIC CALIBRATION

A 'drift' curve is obtained using the sonic log and the vertical check level times. The term 'drift' is defined as the seismic time (from check shots) minus the sonic time (from integration of edited sonic). Commonly the word 'drift' is used to identify the above difference, or to identify the gradient of drift verses increasing depth, or to identify a difference of drift between two levels.

The gradient of drift, that is the slope of the drift curve, can be negative or positive.

For a negative drift  $\frac{\Delta \text{drift}}{\Delta \text{depth}} < 0$ , the sonic time is greater than the seismic time over a certain section of the log.

For a positive drift  $\frac{\Delta \text{drift}}{\Delta \text{depth}} > 0$ , the sonic time is less than the seismic time over a certain section of the log.

The drift curve, between two levels, is then an indication of the error on the integrated sonic or an indication of the amount of correction required on the sonic to have the TTI of the corrected sonic match the check shot times.

Two methods of correction to the sonic log are used.

1. **Uniform or block shift** This method applies a uniform correction to all the sonic values over the interval. This uniform correction is applied in the case of positive drift and is the average correction represented by the drift curve gradient expressed in  $\mu\text{sec}/\text{ft}$ .
2.  **$\Delta t$  Minimum** In the case of negative drift a second method is used, called  $\Delta t$  minimum. This applies a differential correction to the sonic log, where it is assumed that the greatest amount of transit time error is caused by the lower velocity sections of the log. Over a given interval the method will correct only  $\Delta t$  values which are higher than a threshold, the  $\Delta t_{\text{min}}$ . Values of  $\Delta t$  which are lower than the threshold are not corrected. The correction is a reduction of the excess of  $\Delta t$  over  $\Delta t_{\text{min}}$ ,  $\Delta t - \Delta t_{\text{min}}$ .

$\Delta t - \Delta t_{\text{min}}$  is reduced through multiplication by a reduction coefficient which remains constant over the interval. This reduction coefficient, named  $G$ , can be defined as:

$$G = 1 + \frac{\text{drift}}{\int (\Delta t - \Delta t_{\text{min}}) dZ}$$

Where drift is the drift over the interval to be corrected and the value  $\int (\Delta t - \Delta t_{\text{min}}) dZ$  is the time difference between the integrals of the two curves  $\Delta t$  and  $\Delta t_{\text{min}}$ , only over the intervals where  $\Delta t > \Delta t_{\text{min}}$ .

Hence the corrected sonic:  $\Delta t = G(\Delta t - \Delta t_{\text{min}}) + \Delta t_{\text{min}}$ .

## 6.0 SONIC CALIBRATION PROCESSING

### 6.1 Open Hole Logs

Density log interval : 1760 to 3351metres below KB  
 Sonic log interval : 415 to 3351metres below KB

The density log has been patched from 1760metres to the surface at a constant density of 2.2gm/cc.

The  $\Delta t$  has been recomputed in the computing centre using only three of the four transit time channels from 1760 to 3351metres (sonic run #2). The TT3 channel is corrupted by bad data for about 20% of the logged interval and the following formula was used to recompute the  $\Delta t$ .

$$\Delta t = \frac{(TT1 - TT2) + (TT1 - TT4)}{2}$$

where TT1= transit time between transmitter 1 and receiver 4  
 TT2= transit time between transmitter 1 and receiver 2  
 TT3= transit time between transmitter 2 and receiver 1  
 TT4= transit time between transmitter 2 and receiver 3

see Fig. 2 for BHC transducer diagram

A plot of the recomputed sonic (DT), the sonic computed with all four transit times (DT1) and the sonic recomputed by the CSU using only TT1 and TT2 (DT2) is enclosed with this report. Following the recomputation, two further steps were considered necessary to improve the sonic log quality.

1. The TT1 channel is also corrupted by bad data, but to a lesser extent than the TT3 channel. This has occurred in zones of high sonic transit time (such as in coal seams) and has resulted in the recomputed  $\Delta t$  being too low. A good example of this effect occurs from 2175 - 2172metres (see Fig. 3). These zones have been patched across at constant  $\Delta t$ .
2. Minor zones of poor sonic quality caused by bad hole condition have been patched.

No changes have been made to the  $\Delta t$  from 415 to 1760metres (sonic run #1). The sonic recomputed using three transit times and edited as described above is considered to be the best result available and is used in computing the Geogram.

### 6.2 Correction to Datum

Seismic Reference Datum (SRD) is at Mean Sea Level (10.9metres below KB). The airgun was positioned 3.35metres below MSL. Using a water velocity of 1500metres/sec a correction of 2.23millisecs has been applied to all transit times.

### 6.3 Source Offset

All transit times have been corrected for the source offset. The final corrected transit times are the true vertical transit times from SRD to the downhole geophone.

### 6.4 Imposed Shots and Velocity Modelling

Two imposed shots were used in addition to the checkshot data to calibrate the sonic log. An imposed shot was placed at the sea floor using a water velocity of 1500metres/sec. An interval velocity of 2287metres/sec has been calculated between the sea floor and the top of the sonic log at 415metres. Interval velocities between the top of sonic log and the top check shot were calculated by assuming no sonic drift between these two levels.

The calculated interval velocities from SRD to the top check shot are displayed below. Depths stated are referenced to the Kelly Bushing and SRD respectively.

|                             |                |                   |
|-----------------------------|----------------|-------------------|
| SRD                         | _____          | 10.9 / 0metres    |
|                             | 1500metres/sec |                   |
| Sea floor (imposed shot)    | _____          | 79.5 / 68.6metres |
|                             | 2287metres/sec |                   |
| Top of sonic (imposed shot) | _____          | 415 / 404.1metres |

### 6.5 Sonic Calibration Results

No levels above 970metres have been included in the sonic calibration. These levels are contaminated with casing arrival and suggested an extremely erratic sonic drift when included in the processing. Imposed shots have been placed on the sea floor and at the top of the sonic log at 415metres. The top checkshot used in the sonic calibration was at 970metres and this level has been chosen as the origin for the sonic drift curve. Velocities above this level were calculated by assuming no sonic drift from 970metres to 415metres and a water velocity of 1500metres/sec.

The drift curve indicates a number of corrections to be made to the sonic log. Some scatter of the check level points is noticeable on the drift curve. It would not be valid to apply the drift curve indicated by each individual check level so a general trend of drift has been followed. A list of shifts used on the sonic data is given below.

Table 3

| Depth Interval<br>(m below KB) | Block Shift<br>$\mu\text{sec}/\text{ft}$ | $\Delta t_{min}$<br>$\mu\text{sec}/\text{ft}$ | Equiv Block Shift<br>$\mu\text{sec}/\text{ft}$ |
|--------------------------------|--|---|--|
| 0-940                          | 0.0                                      | -   | 0.0  |
| 940-1282                       | -  | 132.83  | -3.17  |
| 1282-2082                      | 2.58                                     | -   | 2.58   |
| 2082-2421                      | 8.36                                     | -   | 8.36   |
| 2421-2734                      | -  | 67.78   | -1.95  |
| 2734-3351                      | 1.63                                     | -   | 1.63   |

The adjusted sonic curve is considered to be the best result using the available data.

## 7.0 GEOGRAM PROCESSING

Geograms were generated using zero phase and minimum phase ricker wavelets with convolution frequencies of 20, 30 and 40hertz. The presentations are in normal and reverse polarity at a time scale of 3.75in/sec. Two separate plots of zero phase and minimum phase processing are included in the package.

Geogram processing produces synthetic seismic traces based on reflection coefficients generated from sonic and density measurements in the well-bore. The steps in the processing chain are the following:

- Time to depth conversion
- Generate reflection coefficients
- Generate attenuation coefficients
- Choose a suitable wavelet
- Convolution
- Output.

### 7.1 Time to Depth Conversion

Open hole logs are recorded from the bottom to top with a depth index. This data is converted to a two-way time index and flipped to read from the top to bottom in order to match the seismic section.

### 7.2 Primary Reflection Coefficients

Sonic and density data are averaged over chosen time intervals (normally 2 or 4 *millisecs*). Reflection coefficients are then computed using:

$$R = \frac{\rho_2 \cdot \nu_2 - \rho_1 \cdot \nu_1}{\rho_2 \cdot \nu_2 + \rho_1 \cdot \nu_1}$$

where

- $\rho_1$  = density of the layer above the reflection interface
- $\rho_2$  = density of the layer below the reflection interface
- $\nu_1$  = compressional wave velocity of the layer above the reflection interface
- $\nu_2$  = compressional wave velocity of the layer below the reflection interface

This computation is done for each time interval to generate a set of primary reflection coefficients without transmission losses.

### 7.3 Primaries with Transmission Loss

Transmission loss on two-way attenuation coefficients are computed using:

$$A_n = (1 - R_1^2)(1 - R_2^2)(1 - R_3^2)\dots(1 - R_n^2)$$

A set of primary reflection coefficients with transmission loss is generated using:

$$Primary_n = R_n \cdot A_{n-1}$$

### 7.4 Primaries plus Multiples

Multiples are computed from these input reflection coefficients using the transform technique from the top of the well to obtain the impulse response of the earth. The transform outputs primaries plus multiples.

### 7.5 Multiples Only

By subtracting previously calculated primaries from the above result we obtain multiples only.

### 7.6 Wavelet

A theoretical wavelet is chosen to use for convolution with the reflection coefficients previously generated. Choices available include:

- Klauder wavelet
- Ricker zero phase wavelet
- Ricker minimum phase wavelet
- User defined wavelet.

All wavelets can be chosen with or without butterworth filtering and with user defined centre frequencies. Polarity conventions are shown in Figure 2. These Geograms were generated using zero phase and minimum phase wavelets .

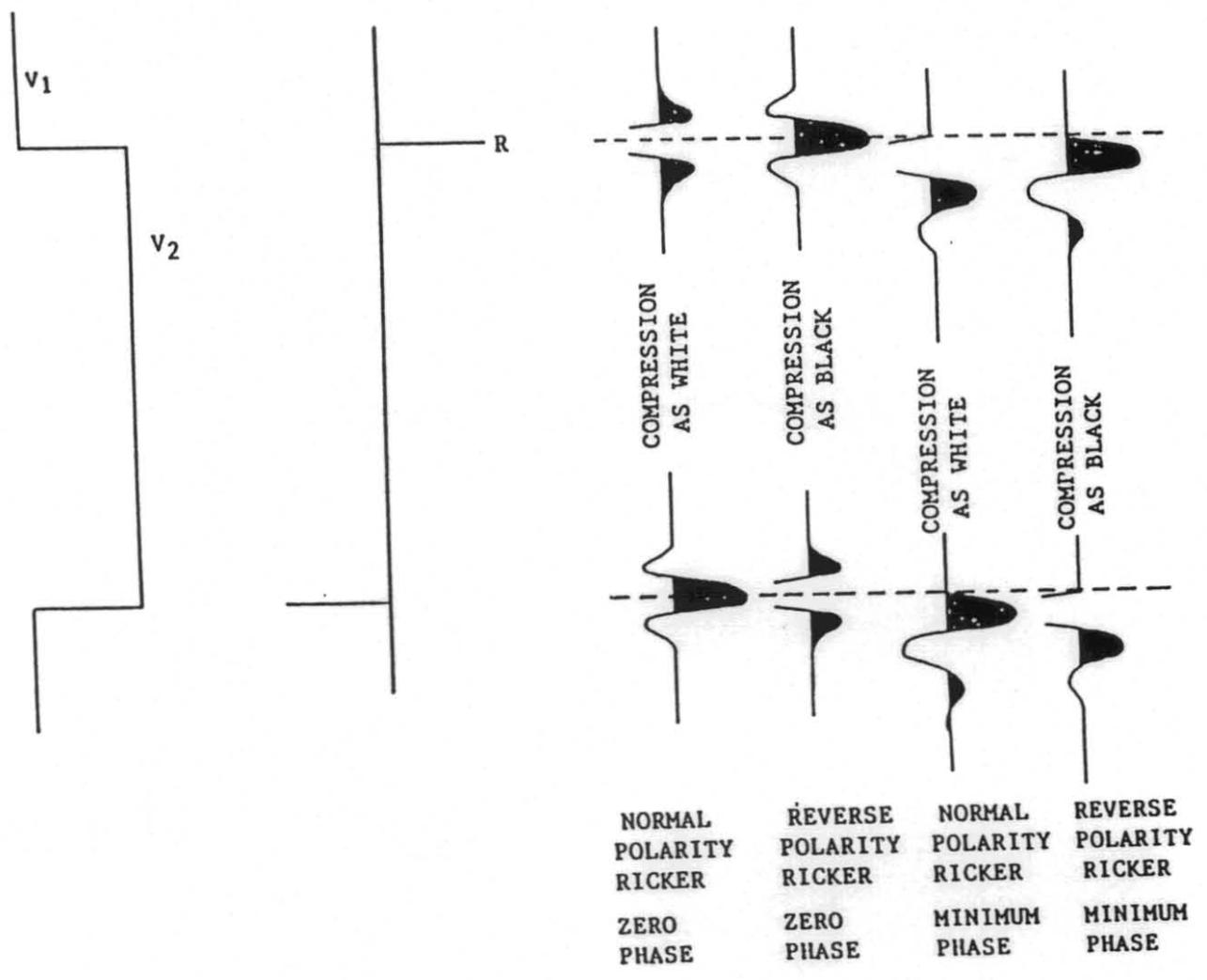
### 7.7 Convolution

Standard procedure of convolution of wavelet with reflection coefficients. The output is the synthetic seismogram.

SCHILUMBERGER WAVELET POLARITY CONVENTION

VELOCITY INCREASE →

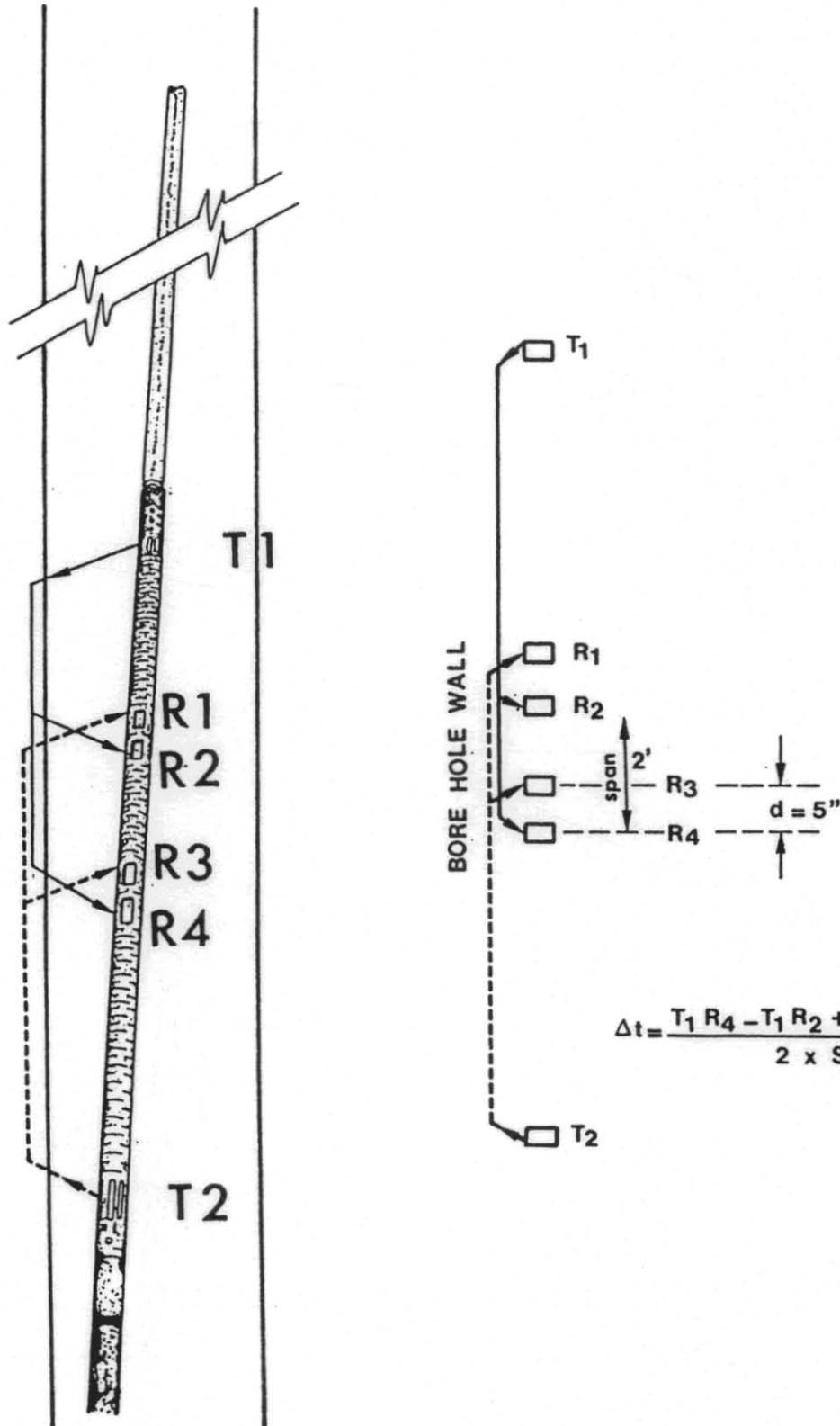
REFLECTION  
- COEFFICIENT +



NOTE: WAVELET DISPLAYED UNDER GEOGRAMS ARE FOR A REFLECTION COEFFICIENT OF -0.5

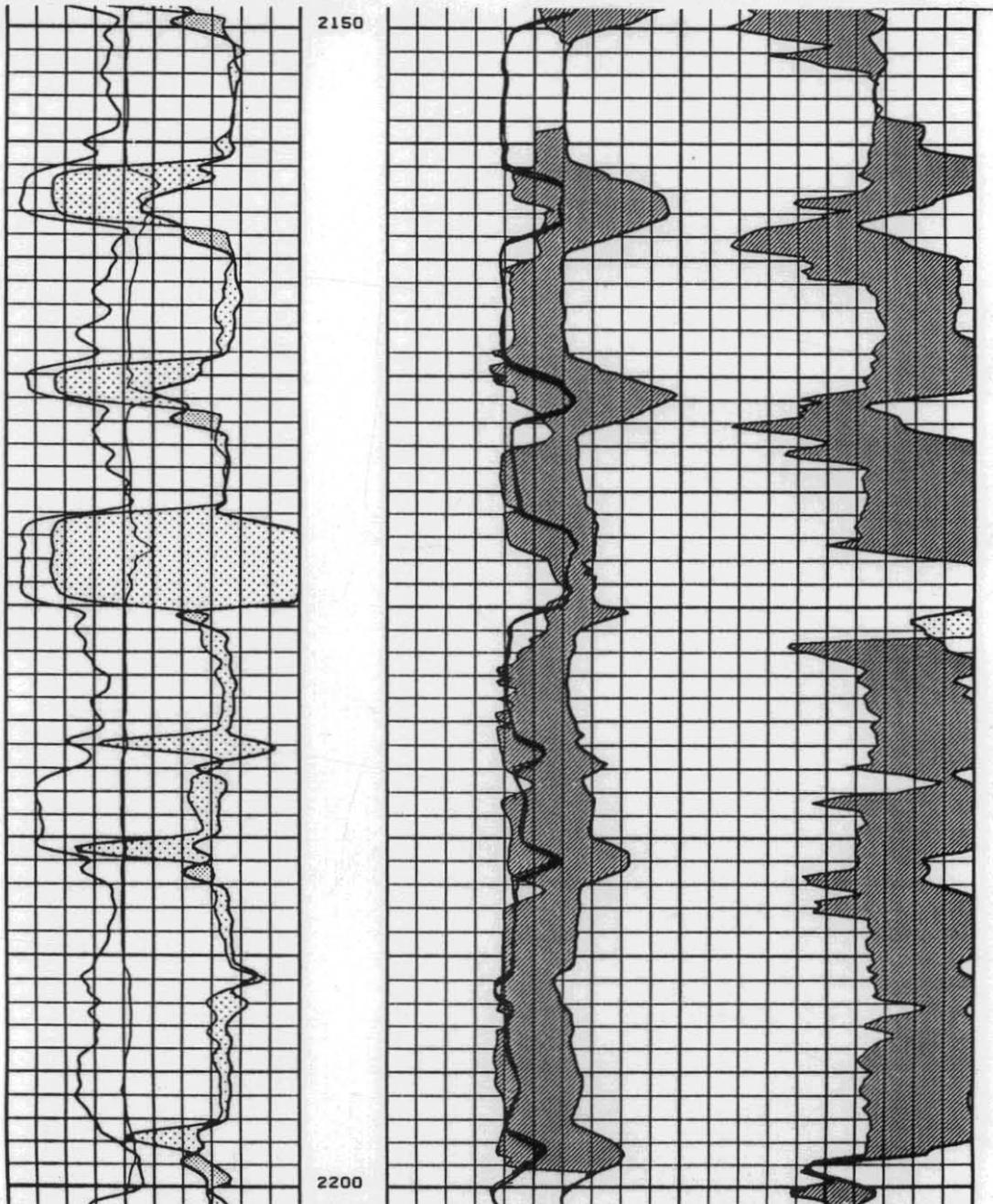
FIGURE 1

FIGURE 2



BHC SYSTEM - ARRAY OF TRANSDUCERS

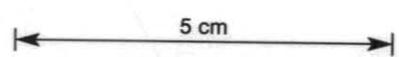
316019

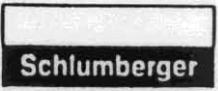


|  |                                  |  |  |
|--|----------------------------------|--|--|
| <p><b>Gamma Ray</b><br/>opi unit</p> <p>0 250</p>                  | <p>Depth<br/>1/200<br/>meter</p> | <p><b>Transit Time 1</b><br/>micro second</p> <p>100 900</p> | <p><b>Transit Time</b><br/>micro sec. / meter</p> <p>140 DT 2 40</p> |
| <p><b>Calliper (hole diameter)</b><br/>Inch</p> <p>0 30</p>        |                                  | <p><b>Transit Time 2</b><br/>micro second</p> <p>100 900</p> | <p><b>Transit Time</b><br/>micro sec. / meter</p> <p>140 DT 1 40</p> |
| <p><b>Bulk Density</b><br/>gram / cc</p> <p>0.95 2.95</p>          |                                  | <p><b>Transit Time 3</b><br/>micro second</p> <p>100 900</p> |  |
| <p><b>Transit Time</b><br/>micro sec. / meter</p> <p>240 DT 40</p> |                                  | <p><b>Transit Time 4</b><br/>micro second</p> <p>100 900</p> |  |

FIGURE 3

CROSS HATCHING BETWEEN DT2 & DT1  
TT3 & TT1  
DOTTING BETWEEN RHOB & DT





# GUN GEOMETRY SKETCH

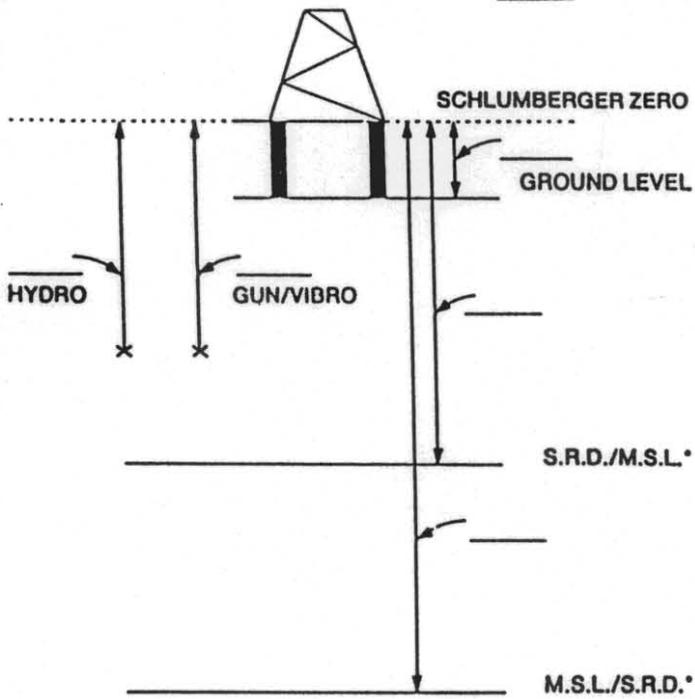
FIGURE 4  
316020

CLIENT: AMOCO

WELL: YOLLA #1

DATE: 9.9.85

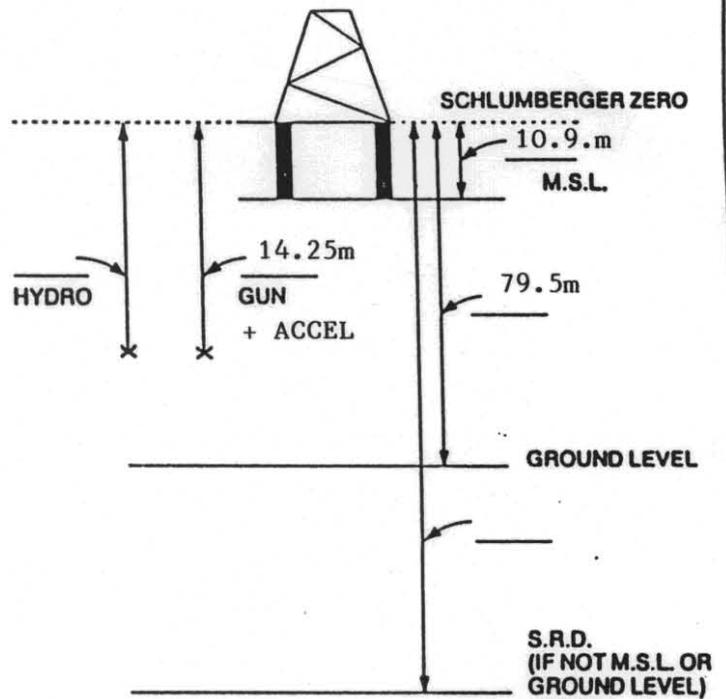
LAND



INDICATE ALL DISTANCES RELATIVE TO SCHLUMBERGER ZERO

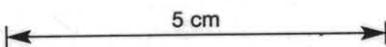
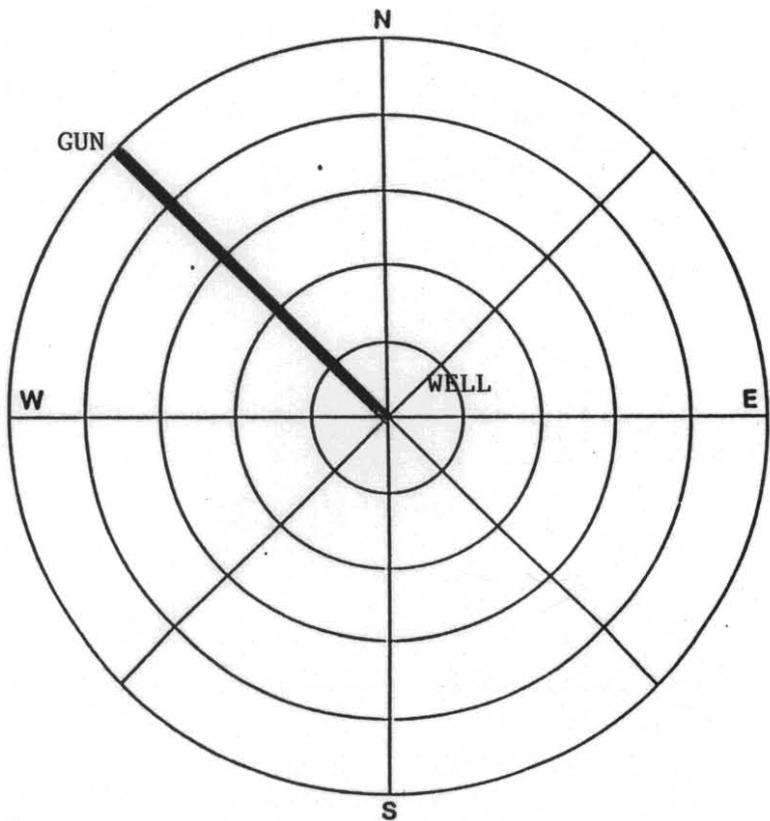
\* DELETE AS APPLICABLE

OFFSHORE



INDICATE ALL DISTANCES RELATIVE TO SCHLUMBERGER ZERO

| SHOT POS'N | GUN OFFSET | ACCEL OFFSET | GUN DEPTH | ACCEL DEPTH |
|------------|------------|--------------|-----------|-------------|
| 1          | 37m        | 37m          | 3.35m     | 3.35m       |
| 2          |            |              |           |             |
| 3          |            |              |           |             |
| 4          |            |              |           |             |
| 5          |            |              |           |             |
| 6          |            |              |           |             |
| 7          |            |              |           |             |



INDICATE GUN/VIBRO AND HYDROPHONE OFFSET AND AZIMUTH RELATIVE TO NORTH

ANALYST: M. SANDERS

25-SEP-85 18:58:12 PROGRAM: GSHOT 007.E07

```
*****  
*                                     *  
*                                     *  
*                                     *  
*****  
*                                     *  
*   SCHLUMBERGER   *  
*                                     *  
*****
```

GEOPHYSICAL AIRGUN REPORT

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 1

## LONG DEFINITIONS

## GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL  
 SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL  
 EKB - Elevation of Kelly Bushing  
 GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD  
 VELHYD - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE HYDROPHONE  
 VELSUR - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE SRD

## MATRIX

GUNELZ - SOURCE ELEVATION ABOVE SRD (ONE FOR THE WHOLE JOB; OR ONE PER SHOT)  
 GUNEWZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN EW DIRECTION (CF. GUNELZ)  
 GUNNSZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN NS DIRECTION (CF. GUNELZ)  
 HYDELZ - HYDROPHONE ELEVATION ABOVE SRD (CF. GUNELZ)  
 HYDEWZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN EW DIRECTION (CF GUNELZ)  
 HYDNSZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN NS DIRECTION (CF GUNELZ)  
 TRTHYD - TRAVEL TIME FROM THE HYDROPHONE TO THE SOURCE  
 TRTSRD - TRAVEL TIME FROM THE SOURCE TO THE SRD  
 DEVVWEL - DEVIATED WELL DATA PER SHOT : MEAS. DEPTH, VERT. DEPTH, EW, NS

## SAMPLED

SHOT.GSH - Shot number  
 DKB.GSH - MEASURED DEPTH FROM KELLY-BUSHING  
 DSRD.GSH - Depth from SRD  
 DGL.GSH - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)  
 TIMO.GSH - MEASURED TRAVEL TIME FROM HYDROPHONE TO GEOPHONE  
 TIMV.GSH - VERTICAL TRAVEL TIME FROM THE SOURCE TO THE GEOPHONE  
 SHTM.GSH - Shot time (WST)  
 AVGV.GSH - Average seismic velocity  
 DELZ.GSH - DEPTH INTERVAL BETWEEN SUCCESSIVE SHOTS  
 DELT.GSH - TRAVEL TIME INTERVAL BETWEEN SUCCESSIVE SHOTS  
 INTV.GSH - Internal velocity, average

## (GLOBAL PARAMETERS)

## (VALUE)

|                          |        |   |          |     |
|--------------------------|--------|---|----------|-----|
| ELEV OF KB AB. MSL (WST) | KB     | : | 10.9000  | M   |
| ELEV OF SRD AB. MSL(WST) | SRD    | : | 0        | M   |
| Elevation of Kelly Bushi | EKB    | : | 10.9000  | M   |
| ELEV OF GL AB. SRD(WST)  | GL     | : | -68.6000 | M   |
| VEL SOURCE-HYDRO(WST)    | VELHYD | : | 1500.00  | M/S |
| VEL SOURCE-SRD (WST)     | VELSUR | : | 1500.00  | M/S |

## (MATRIX PARAMETERS)

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 2

|   | SOURCE ELV<br>M | SOURCE EW<br>M | SOURCE NS<br>M | HYDRO ELEV<br>M | HYDRO EW<br>M | HYDRO NS<br>M |
|---|-----------------|----------------|----------------|-----------------|---------------|---------------|
| 1 | -3.35           | 0              | 37.00          | -3.35           | 0             | 37.00         |

|   | TRT HYD-SC<br>MS | TRT SC-SRD<br>MS |
|---|------------------|------------------|
| 1 | 0                | 2.23             |

|    | MD @ KB<br>M | VD @ KB<br>M | VD @ SRD<br>M | E-W COORD<br>M | N-S COORD<br>M |
|----|--------------|--------------|---------------|----------------|----------------|
| 1  | 79.50        | 79.50        | 68.60         | 0              | 0              |
| 2  | 415.00       | 415.00       | 404.10        | 0              | 0              |
| 3  | 940.00       | 940.00       | 929.10        | 0              | 0              |
| 4  | 1000.00      | 1000.00      | 989.10        | 0              | 0              |
| 5  | 1060.00      | 1060.00      | 1049.10       | 0              | 0              |
| 6  | 1080.00      | 1080.00      | 1069.10       | 0              | 0              |
| 7  | 1100.00      | 1100.00      | 1089.10       | 0              | 0              |
| 8  | 1120.00      | 1120.00      | 1109.10       | 0              | 0              |
| 9  | 1140.00      | 1140.00      | 1129.10       | 0              | 0              |
| 10 | 1160.00      | 1160.00      | 1149.10       | 0              | 0              |
| 11 | 1200.00      | 1200.00      | 1189.10       | 0              | 0              |
| 12 | 1260.00      | 1260.00      | 1249.10       | 0              | 0              |
| 13 | 1280.00      | 1280.00      | 1269.10       | 0              | 0              |
| 14 | 1304.00      | 1304.00      | 1293.10       | 0              | 0              |
| 15 | 1320.00      | 1320.00      | 1309.10       | 0              | 0              |
| 16 | 1340.00      | 1340.00      | 1329.10       | 0              | 0              |
| 17 | 1360.00      | 1360.00      | 1349.10       | 0              | 0              |
| 18 | 1380.00      | 1380.00      | 1369.10       | 0              | 0              |
| 19 | 1400.00      | 1400.00      | 1389.10       | 0              | 0              |
| 20 | 1420.00      | 1420.00      | 1409.10       | 0              | 0              |
| 21 | 1440.00      | 1440.00      | 1429.10       | 0              | 0              |
| 22 | 1460.00      | 1460.00      | 1449.10       | 0              | 0              |
| 23 | 1480.00      | 1480.00      | 1469.10       | 0              | 0              |
| 24 | 1500.00      | 1500.00      | 1489.10       | 0              | 0              |
| 25 | 1520.00      | 1520.00      | 1509.10       | 0              | 0              |
| 26 | 1540.00      | 1540.00      | 1529.10       | 0              | 0              |
| 27 | 1560.00      | 1560.00      | 1549.10       | 0              | 0              |
| 28 | 1570.00      | 1570.00      | 1559.10       | 0              | 0              |
| 29 | 1580.00      | 1580.00      | 1569.10       | 0              | 0              |
| 30 | 1600.00      | 1600.00      | 1589.10       | 0              | 0              |
| 31 | 1620.00      | 1620.00      | 1609.10       | 0              | 0              |
| 32 | 1640.00      | 1640.00      | 1629.10       | 0              | 0              |
| 33 | 1660.00      | 1660.00      | 1649.10       | 0              | 0              |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 3

|    |         |         |         |   |   |
|----|---------|---------|---------|---|---|
| 34 | 1670.00 | 1670.00 | 1659.10 | 0 | 0 |
| 35 | 1680.00 | 1680.00 | 1669.10 | 0 | 0 |
| 36 | 1700.00 | 1700.00 | 1689.10 | 0 | 0 |
| 37 | 1720.00 | 1720.00 | 1709.10 | 0 | 0 |
| 38 | 1740.00 | 1740.00 | 1729.10 | 0 | 0 |
| 39 | 1760.00 | 1760.00 | 1749.10 | 0 | 0 |
| 40 | 1780.00 | 1780.00 | 1769.10 | 0 | 0 |
| 41 | 1800.00 | 1800.00 | 1789.10 | 0 | 0 |
| 42 | 1820.00 | 1820.00 | 1809.10 | 0 | 0 |
| 43 | 1840.00 | 1840.00 | 1829.10 | 0 | 0 |
| 44 | 1860.00 | 1860.00 | 1849.10 | 0 | 0 |
| 45 | 1880.00 | 1880.00 | 1869.10 | 0 | 0 |
| 46 | 1900.00 | 1900.00 | 1889.10 | 0 | 0 |
| 47 | 1920.00 | 1920.00 | 1909.10 | 0 | 0 |
| 48 | 1940.00 | 1940.00 | 1929.10 | 0 | 0 |
| 49 | 1960.00 | 1960.00 | 1949.10 | 0 | 0 |
| 50 | 1980.00 | 1980.00 | 1969.10 | 0 | 0 |
| 51 | 2000.00 | 2000.00 | 1989.10 | 0 | 0 |
| 52 | 2020.00 | 2020.00 | 2009.10 | 0 | 0 |
| 53 | 2040.00 | 2040.00 | 2029.10 | 0 | 0 |
| 54 | 2060.00 | 2060.00 | 2049.10 | 0 | 0 |
| 55 | 2080.00 | 2080.00 | 2069.10 | 0 | 0 |
| 56 | 2100.00 | 2100.00 | 2089.10 | 0 | 0 |
| 57 | 2120.00 | 2120.00 | 2109.10 | 0 | 0 |
| 58 | 2140.00 | 2140.00 | 2129.10 | 0 | 0 |
| 59 | 2160.00 | 2160.00 | 2149.10 | 0 | 0 |
| 60 | 2180.00 | 2180.00 | 2169.10 | 0 | 0 |
| 61 | 2200.00 | 2200.00 | 2189.10 | 0 | 0 |
| 62 | 2220.00 | 2220.00 | 2209.10 | 0 | 0 |
| 63 | 2240.00 | 2240.00 | 2229.10 | 0 | 0 |
| 64 | 2260.00 | 2260.00 | 2249.10 | 0 | 0 |
| 65 | 2280.00 | 2280.00 | 2269.10 | 0 | 0 |
| 66 | 2290.00 | 2290.00 | 2279.10 | 0 | 0 |
| 67 | 2310.00 | 2310.00 | 2299.10 | 0 | 0 |
| 68 | 2330.00 | 2330.00 | 2319.10 | 0 | 0 |
| 69 | 2350.00 | 2350.00 | 2339.10 | 0 | 0 |
| 70 | 2370.00 | 2370.00 | 2359.10 | 0 | 0 |
| 71 | 2390.00 | 2390.00 | 2379.10 | 0 | 0 |
| 72 | 2410.00 | 2410.00 | 2399.10 | 0 | 0 |
| 73 | 2430.00 | 2430.00 | 2419.10 | 0 | 0 |
| 74 | 2450.00 | 2450.00 | 2439.10 | 0 | 0 |
| 75 | 2470.00 | 2470.00 | 2459.10 | 0 | 0 |
| 76 | 2490.00 | 2490.00 | 2479.10 | 0 | 0 |
| 77 | 2510.00 | 2510.00 | 2499.10 | 0 | 0 |
| 78 | 2530.00 | 2530.00 | 2519.10 | 0 | 0 |
| 79 | 2550.00 | 2550.00 | 2539.10 | 0 | 0 |
| 80 | 2570.00 | 2570.00 | 2559.10 | 0 | 0 |
| 81 | 2590.00 | 2590.00 | 2579.10 | 0 | 0 |
| 82 | 2600.00 | 2600.00 | 2589.10 | 0 | 0 |
| 83 | 2620.00 | 2620.00 | 2609.10 | 0 | 0 |
| 84 | 2640.00 | 2640.00 | 2629.10 | 0 | 0 |
| 85 | 2660.00 | 2660.00 | 2649.10 | 0 | 0 |
| 86 | 2680.00 | 2680.00 | 2669.10 | 0 | 0 |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 4

|     |         |         |         |   |   |
|-----|---------|---------|---------|---|---|
| 87  | 2700.00 | 2700.00 | 2689.10 | 0 | 0 |
| 88  | 2720.00 | 2720.00 | 2709.10 | 0 | 0 |
| 89  | 2740.00 | 2740.00 | 2729.10 | 0 | 0 |
| 90  | 2760.00 | 2760.00 | 2749.10 | 0 | 0 |
| 91  | 2780.00 | 2780.00 | 2769.10 | 0 | 0 |
| 92  | 2800.00 | 2800.00 | 2789.10 | 0 | 0 |
| 93  | 2820.00 | 2820.00 | 2809.10 | 0 | 0 |
| 94  | 2840.00 | 2840.00 | 2829.10 | 0 | 0 |
| 95  | 2860.00 | 2860.00 | 2849.10 | 0 | 0 |
| 96  | 2880.00 | 2880.00 | 2869.10 | 0 | 0 |
| 97  | 2900.00 | 2900.00 | 2889.10 | 0 | 0 |
| 98  | 2925.00 | 2925.00 | 2914.10 | 0 | 0 |
| 99  | 2965.00 | 2965.00 | 2954.10 | 0 | 0 |
| 100 | 3000.00 | 3000.00 | 2989.10 | 0 | 0 |
| 101 | 3025.00 | 3025.00 | 3014.10 | 0 | 0 |
| 102 | 3060.00 | 3060.00 | 3049.10 | 0 | 0 |
| 103 | 3080.00 | 3080.00 | 3069.10 | 0 | 0 |
| 104 | 3100.00 | 3100.00 | 3089.10 | 0 | 0 |
| 105 | 3120.00 | 3120.00 | 3109.10 | 0 | 0 |
| 106 | 3140.00 | 3140.00 | 3129.10 | 0 | 0 |
| 107 | 3160.00 | 3160.00 | 3149.10 | 0 | 0 |
| 108 | 3180.00 | 3180.00 | 3169.10 | 0 | 0 |
| 109 | 3200.00 | 3200.00 | 3189.10 | 0 | 0 |
| 110 | 3220.00 | 3220.00 | 3209.10 | 0 | 0 |
| 111 | 3240.00 | 3240.00 | 3229.10 | 0 | 0 |
| 112 | 3260.00 | 3260.00 | 3249.10 | 0 | 0 |
| 113 | 3280.00 | 3280.00 | 3269.10 | 0 | 0 |
| 114 | 3300.00 | 3300.00 | 3289.10 | 0 | 0 |
| 115 | 3312.50 | 3312.50 | 3301.60 | 0 | 0 |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 5

| LEVEL NUMBER | MEASUR DEPTH FROM KB M | VERTIC DEPTH FROM SRD M | VERTIC DEPTH FROM GL M | OBSERV TRAVEL TIME HYD/GEO MS | VERTIC TRAVEL TIME SRC/GEO MS | VERTIC TRAVEL TIME SRD/GEO MS | AVERAGE VELOC SRD/GEO M/S | DELTA DEPTH BETWEEN SHOTS M | DELTA TIME BETWEEN SHOTS MS | INTERV VELOC BETWEEN SHOTS M/S |
|--------------|------------------------|-------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|-----------------------------|-----------------------------|--------------------------------|
| 1            | 79.50                  | 68.60                   | 0                      | 50.00                         | 43.49                         | 45.73                         | 1500                      |                             |                             |                                |
| 2            | 415.00                 | 404.10                  | 335.50                 | 191.00                        | 190.19                        | 192.42                        | 2100                      | 335.50                      | 146.70                      | 2287                           |
| 3            | 940.00                 | 929.10                  | 860.50                 | 403.00                        | 402.68                        | 404.91                        | 2296                      | 525.00                      | 212.49                      | 2471                           |
| 4            | 1000.00                | 989.10                  | 920.50                 | 433.00                        | 432.70                        | 434.93                        | 2274                      | 60.00                       | 30.02                       | 1999                           |
| 5            | 1060.00                | 1049.10                 | 980.50                 | 464.00                        | 463.71                        | 465.94                        | 2252                      | 60.00                       | 31.01                       | 1935                           |
| 6            | 1080.00                | 1069.10                 | 1000.50                | 471.00                        | 470.72                        | 472.96                        | 2260                      | 20.00                       | 7.01                        | 2854                           |
| 7            | 1100.00                | 1089.10                 | 1020.50                | 484.00                        | 483.72                        | 485.96                        | 2241                      | 20.00                       | 13.00                       | 1538                           |
| 8            | 1120.00                | 1109.10                 | 1040.50                | 489.00                        | 488.73                        | 490.96                        | 2259                      | 20.00                       | 6.01                        | 3994                           |
| 9            | 1140.00                | 1129.10                 | 1060.50                | 497.00                        | 496.73                        | 498.97                        | 2263                      | 20.00                       | 8.01                        | 2498                           |
| 10           | 1160.00                | 1149.10                 | 1080.50                | 509.00                        | 508.73                        | 510.97                        | 2249                      | 20.00                       | 12.00                       | 1666                           |
| 11           | 1200.00                | 1189.10                 | 1120.50                | 526.00                        | 525.74                        | 527.98                        | 2252                      | 40.00                       | 17.01                       | 2352                           |
| 12           | 1260.00                | 1249.10                 | 1180.50                | 552.00                        | 551.76                        | 553.99                        | 2255                      | 60.00                       | 26.01                       | 2307                           |
| 13           | 1280.00                | 1269.10                 | 1200.50                | 560.00                        | 559.76                        | 561.99                        | 2258                      | 20.00                       | 8.00                        | 2499                           |
| 14           | 1304.00                | 1293.10                 | 1224.50                | 569.00                        | 568.77                        | 571.00                        | 2265                      | 24.00                       | 9.01                        | 2665                           |
| 15           | 1320.00                | 1309.10                 | 1240.50                | 575.00                        | 574.77                        | 577.00                        | 2269                      | 16.00                       | 6.00                        | 2665                           |
| 16           | 1340.00                | 1329.10                 | 1260.50                | 581.00                        | 580.77                        | 583.01                        | 2280                      | 20.00                       | 6.00                        | 3331                           |
| 17           | 1360.00                | 1349.10                 | 1280.50                | 587.00                        | 586.78                        | 589.01                        | 2290                      | 20.00                       | 6.00                        | 3331                           |
| 18           | 1380.00                | 1369.10                 | 1300.50                | 594.00                        | 593.78                        | 596.02                        | 2297                      | 20.00                       | 7.00                        | 2856                           |
| 19           | 1400.00                | 1389.10                 | 1320.50                | 600.00                        | 599.79                        | 602.02                        | 2307                      | 20.00                       | 6.00                        | 3331                           |
| 20           | 1420.00                | 1409.10                 | 1340.50                | 607.00                        | 606.79                        | 609.02                        | 2314                      | 20.00                       | 7.00                        | 2856                           |
| 21           | 1440.00                | 1429.10                 | 1360.50                | 614.00                        | 613.79                        | 616.03                        | 2320                      | 20.00                       | 7.00                        | 2856                           |
| 22           | 1460.00                | 1449.10                 | 1380.50                | 620.00                        | 619.80                        | 622.03                        | 2330                      | 20.00                       | 6.00                        | 3331                           |
| 23           | 1480.00                | 1469.10                 | 1400.50                | 627.00                        | 626.80                        | 629.03                        | 2335                      | 20.00                       | 7.00                        | 2856                           |
| 24           | 1500.00                | 1489.10                 | 1420.50                | 633.00                        | 632.80                        | 635.04                        | 2345                      | 20.00                       | 6.00                        | 3331                           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 6

| LEVEL<br>NUMBER | MEASUR<br>DEPTH<br>FROM<br>KB<br>M | VERTIC<br>DEPTH<br>FROM<br>SRD<br>M | VERTIC<br>DEPTH<br>FROM<br>GL<br>M | OBSERV<br>TRAVEL<br>TIME<br>HYD/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRC/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | AVERAGE<br>VELOC<br>SRD/GEO<br>M/S | DELTA<br>DEPTH<br>BETWEEN<br>SHOTS<br>M | DELTA<br>TIME<br>BETWEEN<br>SHOTS<br>MS | INTERV<br>VELOC<br>BETWEEN<br>SHOTS<br>M/S |
|-----------------|------------------------------------|-------------------------------------|------------------------------------|---|---|---|------------------------------------|---|---|--|
| 25              | 1520.00                            | 1509.10                             | 1440.50                            | 640.00                                    | 639.81                                    | 642.04                                    | 2350                               | 20.00                                   | 7.00                                    | 2856                                       |
| 26              | 1540.00                            | 1529.10                             | 1460.50                            | 646.00                                    | 645.81                                    | 648.04                                    | 2360                               | 20.00                                   | 6.00                                    | 3331                                       |
| 27              | 1560.00                            | 1549.10                             | 1480.50                            | 651.00                                    | 650.81                                    | 653.05                                    | 2372                               | 20.00                                   | 5.00                                    | 3997                                       |
| 28              | 1570.00                            | 1559.10                             | 1490.50                            | 654.00                                    | 653.82                                    | 656.05                                    | 2377                               | 10.00                                   | 3.00                                    | 3332                                       |
| 29              | 1580.00                            | 1569.10                             | 1500.50                            | 659.00                                    | 658.82                                    | 661.05                                    | 2374                               | 10.00                                   | 5.00                                    | 2000                                       |
| 30              | 1600.00                            | 1589.10                             | 1520.50                            | 665.00                                    | 664.82                                    | 667.05                                    | 2382                               | 20.00                                   | 6.00                                    | 3332                                       |
| 31              | 1620.00                            | 1609.10                             | 1540.50                            | 672.00                                    | 671.82                                    | 674.06                                    | 2387                               | 20.00                                   | 7.00                                    | 2856                                       |
| 32              | 1640.00                            | 1629.10                             | 1560.50                            | 678.00                                    | 677.82                                    | 680.06                                    | 2396                               | 20.00                                   | 6.00                                    | 3332                                       |
| 33              | 1660.00                            | 1649.10                             | 1580.50                            | 683.00                                    | 682.83                                    | 685.06                                    | 2407                               | 20.00                                   | 5.00                                    | 3998                                       |
| 34              | 1670.00                            | 1659.10                             | 1590.50                            | 687.00                                    | 686.83                                    | 689.06                                    | 2408                               | 10.00                                   | 4.00                                    | 2499                                       |
| 35              | 1680.00                            | 1669.10                             | 1600.50                            | 691.00                                    | 690.83                                    | 693.06                                    | 2408                               | 10.00                                   | 4.00                                    | 2499                                       |
| 36              | 1700.00                            | 1689.10                             | 1620.50                            | 697.00                                    | 696.83                                    | 699.07                                    | 2416                               | 20.00                                   | 6.00                                    | 3332                                       |
| 37              | 1720.00                            | 1709.10                             | 1640.50                            | 705.00                                    | 704.83                                    | 707.07                                    | 2417                               | 20.00                                   | 8.00                                    | 2499                                       |
| 38              | 1740.00                            | 1729.10                             | 1660.50                            | 712.00                                    | 711.84                                    | 714.07                                    | 2421                               | 20.00                                   | 7.00                                    | 2856                                       |
| 39              | 1760.00                            | 1749.10                             | 1680.50                            | 720.00                                    | 719.84                                    | 722.07                                    | 2422                               | 20.00                                   | 8.00                                    | 2499                                       |
| 40              | 1780.00                            | 1769.10                             | 1700.50                            | 726.00                                    | 725.84                                    | 728.07                                    | 2430                               | 20.00                                   | 6.00                                    | 3332                                       |
| 41              | 1800.00                            | 1789.10                             | 1720.50                            | 733.00                                    | 732.84                                    | 735.08                                    | 2434                               | 20.00                                   | 7.00                                    | 2856                                       |
| 42              | 1820.00                            | 1809.10                             | 1740.50                            | 739.00                                    | 738.84                                    | 741.08                                    | 2441                               | 20.00                                   | 6.00                                    | 3332                                       |
| 43              | 1840.00                            | 1829.10                             | 1760.50                            | 746.00                                    | 745.85                                    | 748.08                                    | 2445                               | 20.00                                   | 7.00                                    | 2856                                       |
| 44              | 1860.00                            | 1849.10                             | 1780.50                            | 753.00                                    | 752.85                                    | 755.08                                    | 2449                               | 20.00                                   | 7.00                                    | 2856                                       |
| 45              | 1880.00                            | 1869.10                             | 1800.50                            | 759.00                                    | 758.85                                    | 761.08                                    | 2456                               | 20.00                                   | 6.00                                    | 3332                                       |
| 46              | 1900.00                            | 1889.10                             | 1820.50                            | 766.00                                    | 765.85                                    | 768.09                                    | 2459                               | 20.00                                   | 7.00                                    | 2856                                       |
| 47              | 1920.00                            | 1909.10                             | 1840.50                            | 771.00                                    | 770.85                                    | 773.09                                    | 2469                               | 20.00                                   | 5.00                                    | 3998                                       |
| 48              | 1940.00                            | 1929.10                             | 1860.50                            | 778.00                                    | 777.86                                    | 780.09                                    | 2473                               | 20.00                                   | 7.00                                    | 2856                                       |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL NUMBER | MEASUR DEPTH FROM KB M | VERTIC DEPTH FROM SRD M | VERTIC DEPTH FROM GL M | OBSERV TRAVEL TIME HYD/GEO MS | VERTIC TRAVEL TIME SRC/GEO MS | VERTIC TRAVEL TIME SRD/GEO MS | AVERAGE VELOC SRD/GEO M/S | DELTA DEPTH BETWEEN SHOTS M | DELTA TIME BETWEEN SHOTS MS | INTERV VELOC BETWEEN SHOTS M/S |
|--------------|------------------------|-------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|-----------------------------|-----------------------------|--------------------------------|
| 49           | 1960.00                | 1949.10                 | 1880.50                | 783.00                        | 782.86                        | 785.09                        | 2483                      | 20.00                       | 5.00                        | 3998                           |
| 50           | 1980.00                | 1969.10                 | 1900.50                | 790.00                        | 789.86                        | 792.09                        | 2486                      | 20.00                       | 7.00                        | 2856                           |
| 51           | 2000.00                | 1989.10                 | 1920.50                | 797.00                        | 796.86                        | 799.10                        | 2489                      | 20.00                       | 7.00                        | 2857                           |
| 52           | 2020.00                | 2009.10                 | 1940.50                | 803.00                        | 802.86                        | 805.10                        | 2495                      | 20.00                       | 6.00                        | 3332                           |
| 53           | 2040.00                | 2029.10                 | 1960.50                | 808.00                        | 807.87                        | 810.10                        | 2505                      | 20.00                       | 5.00                        | 3999                           |
| 54           | 2060.00                | 2049.10                 | 1980.50                | 813.00                        | 812.87                        | 815.10                        | 2514                      | 20.00                       | 5.00                        | 3999                           |
| 55           | 2080.00                | 2069.10                 | 2000.50                | 821.00                        | 820.87                        | 823.10                        | 2514                      | 20.00                       | 8.00                        | 2500                           |
| 56           | 2100.00                | 2089.10                 | 2020.50                | 827.00                        | 826.87                        | 829.10                        | 2520                      | 20.00                       | 6.00                        | 3332                           |
| 57           | 2120.00                | 2109.10                 | 2040.50                | 833.00                        | 832.87                        | 835.10                        | 2526                      | 20.00                       | 6.00                        | 3332                           |
| 58           | 2140.00                | 2129.10                 | 2060.50                | 840.00                        | 839.87                        | 842.11                        | 2528                      | 20.00                       | 7.00                        | 2857                           |
| 59           | 2160.00                | 2149.10                 | 2080.50                | 847.00                        | 846.87                        | 849.11                        | 2531                      | 20.00                       | 7.00                        | 2857                           |
| 60           | 2180.00                | 2169.10                 | 2100.50                | 855.00                        | 854.88                        | 857.11                        | 2531                      | 20.00                       | 8.00                        | 2500                           |
| 61           | 2200.00                | 2189.10                 | 2120.50                | 862.00                        | 861.88                        | 864.11                        | 2533                      | 20.00                       | 7.00                        | 2857                           |
| 62           | 2220.00                | 2209.10                 | 2140.50                | 867.00                        | 866.88                        | 869.11                        | 2542                      | 20.00                       | 5.00                        | 3999                           |
| 63           | 2240.00                | 2229.10                 | 2160.50                | 875.00                        | 874.88                        | 877.11                        | 2541                      | 20.00                       | 8.00                        | 2500                           |
| 64           | 2260.00                | 2249.10                 | 2180.50                | 880.00                        | 879.88                        | 882.11                        | 2550                      | 20.00                       | 5.00                        | 3999                           |
| 65           | 2280.00                | 2269.10                 | 2200.50                | 886.00                        | 885.88                        | 888.12                        | 2555                      | 20.00                       | 6.00                        | 3333                           |
| 66           | 2290.00                | 2279.10                 | 2210.50                | 890.00                        | 889.88                        | 892.12                        | 2555                      | 10.00                       | 4.00                        | 2500                           |
| 67           | 2310.00                | 2299.10                 | 2230.50                | 895.00                        | 894.88                        | 897.12                        | 2563                      | 20.00                       | 5.00                        | 3999                           |
| 68           | 2330.00                | 2319.10                 | 2250.50                | 902.00                        | 901.88                        | 904.12                        | 2565                      | 20.00                       | 7.00                        | 2857                           |
| 69           | 2350.00                | 2339.10                 | 2270.50                | 907.00                        | 906.89                        | 909.12                        | 2573                      | 20.00                       | 5.00                        | 3999                           |
| 70           | 2370.00                | 2359.10                 | 2290.50                | 917.00                        | 916.89                        | 919.12                        | 2567                      | 20.00                       | 10.00                       | 2000                           |
| 71           | 2390.00                | 2379.10                 | 2310.50                | 922.00                        | 921.89                        | 924.12                        | 2574                      | 20.00                       | 5.00                        | 3999                           |
| 72           | 2410.00                | 2399.10                 | 2330.50                | 928.00                        | 927.89                        | 930.12                        | 2579                      | 20.00                       | 6.00                        | 3333                           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASUR<br>DEPTH<br>FROM<br>KB<br>M | VERTIC<br>DEPTH<br>FROM<br>SRD<br>M | VERTIC<br>DEPTH<br>FROM<br>GL<br>M | OBSERV<br>TRAVEL<br>TIME<br>HYD/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRC/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | AVERAGE<br>VELOC<br>SRD/GEO<br>M/S | DELTA<br>DEPTH<br>BETWEEN<br>SHOTS<br>M | DELTA<br>TIME<br>BETWEEN<br>SHOTS<br>MS | INTERV<br>VELOC<br>BETWEEN<br>SHOTS<br>M/S |
|-----------------|------------------------------------|-------------------------------------|------------------------------------|---|---|---|------------------------------------|---|---|--|
| 73              | 2430.00                            | 2419.10                             | 2350.50                            | 933.00                                    | 932.89                                    | 935.12                                    | 2587                               | 20.00                                   | 5.00                                    | 3999                                       |
| 74              | 2450.00                            | 2439.10                             | 2370.50                            | 938.00                                    | 937.89                                    | 940.13                                    | 2594                               | 20.00                                   | 5.00                                    | 3999                                       |
| 75              | 2470.00                            | 2459.10                             | 2390.50                            | 943.00                                    | 942.89                                    | 945.13                                    | 2602                               | 20.00                                   | 5.00                                    | 3999                                       |
| 76              | 2490.00                            | 2479.10                             | 2410.50                            | 949.00                                    | 948.89                                    | 951.13                                    | 2606                               | 20.00                                   | 6.00                                    | 3333                                       |
| 77              | 2510.00                            | 2499.10                             | 2430.50                            | 953.00                                    | 952.90                                    | 955.13                                    | 2617                               | 20.00                                   | 4.00                                    | 4998                                       |
| 78              | 2530.00                            | 2519.10                             | 2450.50                            | 956.00                                    | 955.90                                    | 958.13                                    | 2629                               | 20.00                                   | 3.00                                    | 6664                                       |
| 79              | 2550.00                            | 2539.10                             | 2470.50                            | 966.00                                    | 965.90                                    | 968.13                                    | 2623                               | 20.00                                   | 10.00                                   | 2000                                       |
| 80              | 2570.00                            | 2559.10                             | 2490.50                            | 969.00                                    | 968.90                                    | 971.13                                    | 2635                               | 20.00                                   | 3.00                                    | 6664                                       |
| 81              | 2590.00                            | 2579.10                             | 2510.50                            | 974.00                                    | 973.90                                    | 976.13                                    | 2642                               | 20.00                                   | 5.00                                    | 3999                                       |
| 82              | 2600.00                            | 2589.10                             | 2520.50                            | 979.00                                    | 978.90                                    | 981.13                                    | 2639                               | 10.00                                   | 5.00                                    | 2000                                       |
| 83              | 2620.00                            | 2609.10                             | 2540.50                            | 982.00                                    | 981.90                                    | 984.13                                    | 2651                               | 20.00                                   | 3.00                                    | 6663                                       |
| 84              | 2640.00                            | 2629.10                             | 2560.50                            | 985.00                                    | 984.90                                    | 987.14                                    | 2663                               | 20.00                                   | 3.00                                    | 6664                                       |
| 85              | 2660.00                            | 2649.10                             | 2580.50                            | 989.00                                    | 988.90                                    | 991.14                                    | 2673                               | 20.00                                   | 4.00                                    | 4999                                       |
| 86              | 2680.00                            | 2669.10                             | 2600.50                            | 994.00                                    | 993.90                                    | 996.14                                    | 2679                               | 20.00                                   | 5.00                                    | 3999                                       |
| 87              | 2700.00                            | 2689.10                             | 2620.50                            | 998.00                                    | 997.91                                    | 1000.14                                   | 2689                               | 20.00                                   | 4.00                                    | 4999                                       |
| 88              | 2720.00                            | 2709.10                             | 2640.50                            | 1005.00                                   | 1004.91                                   | 1007.14                                   | 2690                               | 20.00                                   | 7.00                                    | 2857                                       |
| 89              | 2740.00                            | 2729.10                             | 2660.50                            | 1009.00                                   | 1008.91                                   | 1011.14                                   | 2699                               | 20.00                                   | 4.00                                    | 4999                                       |
| 90              | 2760.00                            | 2749.10                             | 2680.50                            | 1014.00                                   | 1013.91                                   | 1016.14                                   | 2705                               | 20.00                                   | 5.00                                    | 3999                                       |
| 91              | 2780.00                            | 2769.10                             | 2700.50                            | 1017.00                                   | 1016.91                                   | 1019.14                                   | 2717                               | 20.00                                   | 3.00                                    | 6664                                       |
| 92              | 2800.00                            | 2789.10                             | 2720.50                            | 1022.00                                   | 1021.91                                   | 1024.14                                   | 2723                               | 20.00                                   | 5.00                                    | 3999                                       |
| 93              | 2820.00                            | 2809.10                             | 2740.50                            | 1026.00                                   | 1025.91                                   | 1028.14                                   | 2732                               | 20.00                                   | 4.00                                    | 4999                                       |
| 94              | 2840.00                            | 2829.10                             | 2760.50                            | 1034.00                                   | 1033.91                                   | 1036.14                                   | 2730                               | 20.00                                   | 8.00                                    | 2500                                       |
| 95              | 2860.00                            | 2849.10                             | 2780.50                            | 1042.00                                   | 1041.91                                   | 1044.15                                   | 2729                               | 20.00                                   | 8.00                                    | 2500                                       |
| 96              | 2880.00                            | 2869.10                             | 2800.50                            | 1046.00                                   | 1045.91                                   | 1048.15                                   | 2737                               | 20.00                                   | 4.00                                    | 4999                                       |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASUR<br>DEPTH<br>FROM<br>KB<br>M | VERTIC<br>DEPTH<br>FROM<br>SRD<br>M | VERTIC<br>DEPTH<br>FROM<br>GL<br>M | OBSERV<br>TRAVEL<br>TIME<br>HYD/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRC/GEO<br>MS | VERTIC<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | AVERAGE<br>VELOC<br>SRD/GEO<br>M/S | DELTA<br>DEPTH<br>BETWEEN<br>SHOTS<br>M | DELTA<br>TIME<br>BETWEEN<br>SHOTS<br>MS | INTERV<br>VELOC<br>BETWEEN<br>SHOTS<br>M/S |
|-----------------|------------------------------------|-------------------------------------|------------------------------------|---|---|---|------------------------------------|---|---|--|
| 97              | 2900.00                            | 2889.10                             | 2820.50                            | 1051.00                                   | 1050.91                                   | 1053.15                                   | 2743                               | 20.00                                   | 5.00                                    | 3999                                       |
| 98              | 2925.00                            | 2914.10                             | 2845.50                            | 1057.00                                   | 1056.91                                   | 1059.15                                   | 2751                               | 25.00                                   | 6.00                                    | 4166                                       |
| 99              | 2965.00                            | 2954.10                             | 2885.50                            | 1066.00                                   | 1065.92                                   | 1068.15                                   | 2766                               | 40.00                                   | 9.00                                    | 4444                                       |
| 100             | 3000.00                            | 2989.10                             | 2920.50                            | 1074.00                                   | 1073.92                                   | 1076.15                                   | 2778                               | 35.00                                   | 8.00                                    | 4374                                       |
| 101             | 3025.00                            | 3014.10                             | 2945.50                            | 1079.00                                   | 1078.92                                   | 1081.15                                   | 2788                               | 25.00                                   | 5.00                                    | 4999                                       |
| 102             | 3060.00                            | 3049.10                             | 2980.50                            | 1089.00                                   | 1088.92                                   | 1091.15                                   | 2794                               | 35.00                                   | 10.00                                   | 3500                                       |
| 103             | 3080.00                            | 3069.10                             | 3000.50                            | 1094.00                                   | 1093.92                                   | 1096.15                                   | 2800                               | 20.00                                   | 5.00                                    | 3999                                       |
| 104             | 3100.00                            | 3089.10                             | 3020.50                            | 1099.00                                   | 1098.92                                   | 1101.15                                   | 2805                               | 20.00                                   | 5.00                                    | 4000                                       |
| 105             | 3120.00                            | 3109.10                             | 3040.50                            | 1104.00                                   | 1103.92                                   | 1106.16                                   | 2811                               | 20.00                                   | 5.00                                    | 3999                                       |
| 106             | 3140.00                            | 3129.10                             | 3060.50                            | 1110.00                                   | 1109.92                                   | 1112.16                                   | 2814                               | 20.00                                   | 6.00                                    | 3333                                       |
| 107             | 3160.00                            | 3149.10                             | 3080.50                            | 1115.00                                   | 1114.92                                   | 1117.16                                   | 2819                               | 20.00                                   | 5.00                                    | 4000                                       |
| 108             | 3180.00                            | 3169.10                             | 3100.50                            | 1120.00                                   | 1119.92                                   | 1122.16                                   | 2824                               | 20.00                                   | 5.00                                    | 3999                                       |
| 109             | 3200.00                            | 3189.10                             | 3120.50                            | 1126.00                                   | 1125.92                                   | 1128.16                                   | 2827                               | 20.00                                   | 6.00                                    | 3333                                       |
| 110             | 3220.00                            | 3209.10                             | 3140.50                            | 1129.00                                   | 1128.92                                   | 1131.16                                   | 2837                               | 20.00                                   | 3.00                                    | 6665                                       |
| 111             | 3240.00                            | 3229.10                             | 3160.50                            | 1136.00                                   | 1135.93                                   | 1138.16                                   | 2837                               | 20.00                                   | 7.00                                    | 2857                                       |
| 112             | 3260.00                            | 3249.10                             | 3180.50                            | 1141.00                                   | 1140.93                                   | 1143.16                                   | 2842                               | 20.00                                   | 5.00                                    | 4000                                       |
| 113             | 3280.00                            | 3269.10                             | 3200.50                            | 1146.00                                   | 1145.93                                   | 1148.16                                   | 2847                               | 20.00                                   | 5.00                                    | 3999                                       |
| 114             | 3300.00                            | 3289.10                             | 3220.50                            | 1151.00                                   | 1150.93                                   | 1153.16                                   | 2852                               | 20.00                                   | 5.00                                    | 4000                                       |
| 115             | 3312.50                            | 3301.60                             | 3233.00                            | 1154.00                                   | 1153.93                                   | 1156.16                                   | 2856                               | 12.50                                   | 3.00                                    | 4166                                       |

...ALYST: M. SANDERS

25-SEP-85 19:26:01

PROGRAM: GDRIFT 007.E09

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*****  
*                                     *  
*                                     *  
*                                     *  
*****  
*                                     *  
*   SCHLUMBERGER                     *  
*                                     *  
*****
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## DRIFT COMPUTATION REPORT

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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## LONG DEFINITIONS

## GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL  
 SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL  
 EKB - Elevation of Kelly Bushing  
 GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD  
 XSTART - TOP OF ZONE PROCESSED BY WST  
 XSTOP - BOTTOM OF ZONE PROCESSED BY WST  
 GAD001 - RAW SONIC CHANNEL NAME USED FOR WST SONIC ADJUSTMENT  
 UNFDEN - UNIFORM DENSITY VALUE

## ZONE

LOFDEN - LAYER OPTION FLAG FOR DENSITY : -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER  
 LAYDEN - USER SUPPLIED DENSITY DATA

## SAMPLED

SHOT - Shot number  
 DKB - MEASURED DEPTH FROM KELLY-BUSHING  
 DSRD - Depth from SRD  
 DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)  
 SHTM - Shot time (WST)  
 RAW - Raw Sonic (WST)  
 SHDR - DRIFT AT SHOT OR KNEE  
 BLSH - BLOCK SHIFT BETWEEN SHOTS OR KNEE

## (GLOBAL PARAMETERS)

## (VALUE)

|                          |        |   |                      |      |
|--------------------------|--------|---|----------------------|------|
| ELEV OF KB AB. MSL (WST) | KB     | : | 10.9000              | M    |
| ELEV OF SRD AB. MSL(WST) | SRD    | : | 0                    | M    |
| Elevation of Kelly Bushi | EKB    | : | 10.9000              | M    |
| ELEV OF GL AB. SRD(WST)  | GL     | : | -68.6000             | M    |
| TOP OF ZONE PROCD (WST)  | XSTART | : | 0                    | M    |
| BOT OF ZONE PROCD (WST)  | XSTOP  | : | 0                    | M    |
| RAW SONIC CH NAME (WST)  | GAD001 | : | DT.WST.004.IPA.FLP.* |      |
| UNIFORM DENSITY VALUE    | UNFDEN | : | 2.30000              | G/C3 |

## (ZONED PARAMETERS)

## (VALUE)

## (LIMITS)

|                          |        |   |           |         |         |     |
|--------------------------|--------|---|-----------|---------|---------|-----|
| LAYER OPTION FLAG DENS   | LOFDEN | : | 1.000000  | 30479.7 | -       | 0   |
| USER SUPPLIED DENSITY DA | LAYDEN | : | -999.2500 | G/C3    | 30479.7 | - 0 |

MPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | INTEGRATED<br>RAW SONIC<br>TIME<br>MS | COMPUTED<br>DRIFT<br>AT LEVEL<br>MS | COMPUTED<br>BLK-SHFT<br>CORRECTION<br>US/F |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---------------------------------------|-------------------------------------|--|
| 1               | 79.50                                | 68.60                                 | 0                                    | 45.73                                       | 45.73                                 | 0                                   | 0  |
| 2               | 415.00                               | 404.10                                | 335.50                               | 192.42                                      | 192.42                                | 0                                   | 0  |
| 3               | 940.00                               | 929.10                                | 860.50                               | 404.91                                      | 404.78                                | .14                                 | .08  |
| 4               | 1000.00                              | 989.10                                | 920.50                               | 434.93                                      | 435.59                                | -.66                                | -4.03                                      |
| 5               | 1060.00                              | 1049.10                               | 980.50                               | 465.94                                      | 465.48                                | .46                                 | 5.68                                       |
| 6               | 1080.00                              | 1069.10                               | 1000.50                              | 472.95                                      | 475.44                                | -2.49                               | -44.87                                     |
| 7               | 1100.00                              | 1089.10                               | 1020.50                              | 485.95                                      | 485.13                                | .82                                 | 50.39                                      |
| 8               | 1120.00                              | 1109.10                               | 1040.50                              | 490.96                                      | 494.80                                | -3.84                               | -70.97                                     |
| 9               | 1140.00                              | 1129.10                               | 1060.50                              | 498.97                                      | 504.55                                | -5.58                               | -26.62                                     |
| 10              | 1160.00                              | 1149.10                               | 1080.50                              | 510.97                                      | 513.71                                | -2.74                               | 43.32                                      |
| 11              | 1200.00                              | 1189.10                               | 1120.50                              | 527.98                                      | 531.49                                | -3.52                               | -5.92                                      |
| 12              | 1260.00                              | 1249.10                               | 1180.50                              | 553.99                                      | 558.04                                | -4.05                               | -2.69                                      |
| 13              | 1280.00                              | 1269.10                               | 1200.50                              | 561.99                                      | 565.12                                | -3.12                               | 14.10                                      |
| 14              | 1304.00                              | 1293.10                               | 1224.50                              | 571.00                                      | 573.63                                | -2.63                               | 6.28                                       |
| 15              | 1320.00                              | 1309.10                               | 1240.50                              | 577.00                                      | 579.23                                | -2.23                               | 7.59                                       |
| 16              | 1340.00                              | 1329.10                               | 1260.50                              | 583.01                                      | 585.55                                | -2.55                               | -4.84                                      |
| 17              | 1360.00                              | 1349.10                               | 1280.50                              | 589.01                                      | 591.55                                | -2.54                               | .15  |
| 18              | 1380.00                              | 1369.10                               | 1300.50                              | 596.02                                      | 597.81                                | -1.79                               | 11.35                                      |
| 19              | 1400.00                              | 1389.10                               | 1320.50                              | 602.02                                      | 604.16                                | -2.14                               | -5.31                                      |
| 20              | 1420.00                              | 1409.10                               | 1340.50                              | 609.02                                      | 610.67                                | -1.65                               | 7.47                                       |
| 21              | 1440.00                              | 1429.10                               | 1360.50                              | 616.03                                      | 617.15                                | -1.12                               | 8.02                                       |
| 22              | 1460.00                              | 1449.10                               | 1380.50                              | 622.03                                      | 623.74                                | -1.71                               | -8.98                                      |
| 23              | 1480.00                              | 1469.10                               | 1400.50                              | 629.03                                      | 630.12                                | -1.08                               | 9.63                                       |
| 24              | 1500.00                              | 1489.10                               | 1420.50                              | 635.04                                      | 636.33                                | -1.29                               | -3.24                                      |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 3

| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | INTEGRATED<br>RAW SONIC<br>TIME<br>MS | COMPUTED<br>DRIFT<br>AT LEVEL<br>MS | COMPUTED<br>BLK-SHFT<br>CORRECTION<br>US/F |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---------------------------------------|-------------------------------------|--|
| 25              | 1520.00                              | 1509.10                               | 1440.50                              | 642.04                                      | 642.40                                | -.36                                | 14.27                                      |
| 26              | 1540.00                              | 1529.10                               | 1460.50                              | 648.04                                      | 648.66                                | -.62                                | -3.93                                      |
| 27              | 1560.00                              | 1549.10                               | 1480.50                              | 653.05                                      | 654.91                                | -1.86                               | -19.01                                     |
| 28              | 1570.00                              | 1559.10                               | 1490.50                              | 656.05                                      | 658.07                                | -2.02                               | -4.77                                      |
| 29              | 1580.00                              | 1569.10                               | 1500.50                              | 661.05                                      | 661.25                                | -.20                                | 55.55                                      |
| 30              | 1600.00                              | 1589.10                               | 1520.50                              | 667.05                                      | 667.50                                | -.45                                | -3.77                                      |
| 31              | 1620.00                              | 1609.10                               | 1540.50                              | 674.06                                      | 673.78                                | .27                                 | 10.92                                      |
| 32              | 1640.00                              | 1629.10                               | 1560.50                              | 680.06                                      | 679.93                                | .13                                 | -2.12                                      |
| 33              | 1660.00                              | 1649.10                               | 1580.50                              | 685.06                                      | 686.08                                | -1.02                               | -17.59                                     |
| 34              | 1670.00                              | 1659.10                               | 1590.50                              | 689.06                                      | 689.08                                | -.01                                | 30.72                                      |
| 35              | 1680.00                              | 1669.10                               | 1600.50                              | 693.06                                      | 692.18                                | .88                                 | 27.36                                      |
| 36              | 1700.00                              | 1689.10                               | 1620.50                              | 699.07                                      | 698.92                                | .15                                 | -11.24                                     |
| 37              | 1720.00                              | 1709.10                               | 1640.50                              | 707.07                                      | 705.74                                | 1.33                                | 18.03                                      |
| 38              | 1740.00                              | 1729.10                               | 1660.50                              | 714.07                                      | 712.62                                | 1.55                                | 3.31                                       |
| 39              | 1760.00                              | 1749.10                               | 1680.50                              | 722.07                                      | 719.38                                | 2.69                                | 17.44                                      |
| 40              | 1780.00                              | 1769.10                               | 1700.50                              | 728.07                                      | 726.47                                | 1.61                                | -16.50                                     |
| 41              | 1800.00                              | 1789.10                               | 1720.50                              | 735.08                                      | 733.30                                | 1.77                                | 2.50                                       |
| 42              | 1820.00                              | 1809.10                               | 1740.50                              | 741.08                                      | 739.55                                | 1.53                                | -3.74                                      |
| 43              | 1840.00                              | 1829.10                               | 1760.50                              | 748.08                                      | 746.36                                | 1.72                                | 2.95                                       |
| 44              | 1860.00                              | 1849.10                               | 1780.50                              | 755.08                                      | 753.23                                | 1.85                                | 1.95                                       |
| 45              | 1880.00                              | 1869.10                               | 1800.50                              | 761.08                                      | 759.35                                | 1.74                                | -1.72                                      |
| 46              | 1900.00                              | 1889.10                               | 1820.50                              | 768.09                                      | 765.44                                | 2.65                                | 13.87                                      |
| 47              | 1920.00                              | 1909.10                               | 1840.50                              | 773.09                                      | 771.42                                | 1.67                                | -14.93                                     |
| 48              | 1940.00                              | 1929.10                               | 1860.50                              | 780.09                                      | 777.40                                | 2.69                                | 15.58                                      |

IPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | INTEGRATED<br>RAW SONIC<br>TIME<br>MS | COMPUTED<br>DRIFT<br>AT LEVEL<br>MS | COMPUTED<br>BLK-SHFT<br>CORRECTION<br>US/F |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---------------------------------------|-------------------------------------|--|
| 49              | 1960.00                              | 1949.10                               | 1880.50                              | 785.09                                      | 783.35                                | 1.74                                | -14.40                                     |
| 50              | 1980.00                              | 1969.10                               | 1900.50                              | 792.09                                      | 789.45                                | 2.64                                | 13.69                                      |
| 51              | 2000.00                              | 1989.10                               | 1920.50                              | 799.10                                      | 795.52                                | 3.57                                | 14.17                                      |
| 52              | 2020.00                              | 2009.10                               | 1940.50                              | 805.10                                      | 801.84                                | 3.26                                | -4.82                                      |
| 53              | 2040.00                              | 2029.10                               | 1960.50                              | 810.10                                      | 807.66                                | 2.43                                | -12.54                                     |
| 54              | 2060.00                              | 2049.10                               | 1980.50                              | 815.10                                      | 813.47                                | 1.63                                | -12.25                                     |
| 55              | 2080.00                              | 2069.10                               | 2000.50                              | 823.10                                      | 819.45                                | 3.65                                | 30.80                                      |
| 56              | 2100.00                              | 2089.10                               | 2020.50                              | 829.10                                      | 825.84                                | 3.26                                | -5.96                                      |
| 57              | 2120.00                              | 2109.10                               | 2040.50                              | 835.10                                      | 831.82                                | 3.29                                | .39  |
| 58              | 2140.00                              | 2129.10                               | 2060.50                              | 842.11                                      | 837.81                                | 4.30                                | 15.41                                      |
| 59              | 2160.00                              | 2149.10                               | 2080.50                              | 849.11                                      | 844.29                                | 4.82                                | 7.96                                       |
| 60              | 2180.00                              | 2169.10                               | 2100.50                              | 857.11                                      | 850.29                                | 6.81                                | 30.40                                      |
| 61              | 2200.00                              | 2189.10                               | 2120.50                              | 864.11                                      | 856.31                                | 7.80                                | 14.99                                      |
| 62              | 2220.00                              | 2209.10                               | 2140.50                              | 869.11                                      | 862.20                                | 6.91                                | -13.53                                     |
| 63              | 2240.00                              | 2229.10                               | 2160.50                              | 877.11                                      | 867.89                                | 9.22                                | 35.20                                      |
| 64              | 2260.00                              | 2249.10                               | 2180.50                              | 882.11                                      | 874.33                                | 7.78                                | -21.95                                     |
| 65              | 2280.00                              | 2269.10                               | 2200.50                              | 888.12                                      | 879.83                                | 8.29                                | 7.78                                       |
| 66              | 2290.00                              | 2279.10                               | 2210.50                              | 892.12                                      | 882.66                                | 9.45                                | 35.42                                      |
| 67              | 2310.00                              | 2299.10                               | 2230.50                              | 897.12                                      | 888.35                                | 8.77                                | -10.40                                     |
| 68              | 2330.00                              | 2319.10                               | 2250.50                              | 904.12                                      | 894.13                                | 9.99                                | 18.59                                      |
| 69              | 2350.00                              | 2339.10                               | 2270.50                              | 909.12                                      | 899.80                                | 9.32                                | -10.15                                     |
| 70              | 2370.00                              | 2359.10                               | 2290.50                              | 919.12                                      | 905.54                                | 13.58                               | 64.87                                      |
| 71              | 2390.00                              | 2379.10                               | 2310.50                              | 924.12                                      | 911.23                                | 12.89                               | -10.51                                     |
| 72              | 2410.00                              | 2399.10                               | 2330.50                              | 930.12                                      | 916.60                                | 13.52                               | 9.65                                       |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | INTEGRATED<br>RAW SONIC<br>TIME<br>MS | COMPUTED<br>DRIFT<br>AT LEVEL<br>MS | COMPUTED<br>BLK-SHFT<br>CORRECTION<br>US/F |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---------------------------------------|-------------------------------------|--|
| 73              | 2430.00                              | 2419.10                               | 2350.50                              | 935.12                                      | 921.73                                | 13.40                               | -1.93                                      |
| 74              | 2450.00                              | 2439.10                               | 2370.50                              | 940.13                                      | 927.24                                | 12.88                               | -7.85                                      |
| 75              | 2470.00                              | 2459.10                               | 2390.50                              | 945.13                                      | 932.88                                | 12.24                               | -9.75                                      |
| 76              | 2490.00                              | 2479.10                               | 2410.50                              | 951.13                                      | 938.51                                | 12.62                               | 5.69                                       |
| 77              | 2510.00                              | 2499.10                               | 2430.50                              | 955.13                                      | 943.85                                | 11.28                               | -20.42                                     |
| 78              | 2530.00                              | 2519.10                               | 2450.50                              | 958.13                                      | 949.64                                | 8.49                                | -42.53                                     |
| 79              | 2550.00                              | 2539.10                               | 2470.50                              | 968.13                                      | 955.21                                | 12.92                               | 67.68                                      |
| 80              | 2570.00                              | 2559.10                               | 2490.50                              | 971.13                                      | 960.90                                | 10.24                               | -40.89                                     |
| 81              | 2590.00                              | 2579.10                               | 2510.50                              | 976.13                                      | 965.73                                | 10.40                               | 2.54                                       |
| 82              | 2600.00                              | 2589.10                               | 2520.50                              | 981.13                                      | 967.39                                | 13.75                               | 101.88                                     |
| 83              | 2620.00                              | 2609.10                               | 2540.50                              | 984.13                                      | 970.97                                | 13.17                               | -8.84                                      |
| 84              | 2640.00                              | 2629.10                               | 2560.50                              | 987.14                                      | 974.94                                | 12.20                               | -14.73                                     |
| 85              | 2660.00                              | 2649.10                               | 2580.50                              | 991.14                                      | 979.46                                | 11.67                               | -8.04                                      |
| 86              | 2680.00                              | 2669.10                               | 2600.50                              | 996.14                                      | 984.39                                | 11.75                               | 1.14                                       |
| 87              | 2700.00                              | 2689.10                               | 2620.50                              | 1000.14                                     | 989.58                                | 10.56                               | -18.10                                     |
| 88              | 2720.00                              | 2709.10                               | 2640.50                              | 1007.14                                     | 994.77                                | 12.37                               | 27.55                                      |
| 89              | 2740.00                              | 2729.10                               | 2660.50                              | 1011.14                                     | 1000.00                               | 11.14                               | -18.67                                     |
| 90              | 2760.00                              | 2749.10                               | 2680.50                              | 1016.14                                     | 1005.20                               | 10.95                               | -2.99                                      |
| 91              | 2780.00                              | 2769.10                               | 2700.50                              | 1019.14                                     | 1010.35                               | 8.80                                | -32.75                                     |
| 92              | 2800.00                              | 2789.10                               | 2720.50                              | 1024.14                                     | 1015.37                               | 8.78                                | -.30                                       |
| 93              | 2820.00                              | 2809.10                               | 2740.50                              | 1028.14                                     | 1020.44                               | 7.70                                | -16.37                                     |
| 94              | 2840.00                              | 2829.10                               | 2760.50                              | 1036.14                                     | 1025.53                               | 10.62                               | 44.44                                      |
| 95              | 2860.00                              | 2849.10                               | 2780.50                              | 1044.15                                     | 1030.39                               | 13.75                               | 47.77                                      |
| 96              | 2880.00                              | 2869.10                               | 2800.50                              | 1048.15                                     | 1035.48                               | 12.66                               | -16.60                                     |

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COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEO<br>MS | INTEGRATED<br>RAW SONIC<br>TIME<br>MS | COMPUTED<br>DRIFT<br>AT LEVEL<br>MS | COMPUTED<br>BLK-SHFT<br>CORRECTION<br>US/F |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---------------------------------------|-------------------------------------|--|
| 97              | 2900.00                              | 2889.10                               | 2820.50                              | 1053.15                                     | 1040.54                               | 12.60                               | -.91                                       |
| 98              | 2925.00                              | 2914.10                               | 2845.50                              | 1059.15                                     | 1046.76                               | 12.39                               | -2.61                                      |
| 99              | 2965.00                              | 2954.10                               | 2885.50                              | 1068.15                                     | 1056.38                               | 11.77                               | -4.73                                      |
| 100             | 3000.00                              | 2989.10                               | 2920.50                              | 1076.15                                     | 1065.11                               | 11.04                               | -6.39                                      |
| 101             | 3025.00                              | 3014.10                               | 2945.50                              | 1081.15                                     | 1071.40                               | 9.75                                | -15.65                                     |
| 102             | 3060.00                              | 3049.10                               | 2980.50                              | 1091.15                                     | 1079.17                               | 11.98                               | 19.43                                      |
| 103             | 3080.00                              | 3069.10                               | 3000.50                              | 1096.15                                     | 1083.37                               | 12.79                               | 12.22                                      |
| 104             | 3100.00                              | 3089.10                               | 3020.50                              | 1101.15                                     | 1088.19                               | 12.97                               | 2.78                                       |
| 105             | 3120.00                              | 3109.10                               | 3040.50                              | 1106.16                                     | 1093.29                               | 12.86                               | -1.62                                      |
| 106             | 3140.00                              | 3129.10                               | 3060.50                              | 1112.16                                     | 1098.26                               | 13.90                               | 15.81                                      |
| 107             | 3160.00                              | 3149.10                               | 3080.50                              | 1117.16                                     | 1102.45                               | 14.71                               | 12.30                                      |
| 108             | 3180.00                              | 3169.10                               | 3100.50                              | 1122.16                                     | 1107.21                               | 14.95                               | 3.71                                       |
| 109             | 3200.00                              | 3189.10                               | 3120.50                              | 1128.16                                     | 1112.03                               | 16.13                               | 17.98                                      |
| 110             | 3220.00                              | 3209.10                               | 3140.50                              | 1131.16                                     | 1116.79                               | 14.37                               | -26.85                                     |
| 111             | 3240.00                              | 3229.10                               | 3160.50                              | 1138.16                                     | 1122.34                               | 15.81                               | 22.06                                      |
| 112             | 3260.00                              | 3249.10                               | 3180.50                              | 1143.16                                     | 1127.32                               | 15.84                               | .36  |
| 113             | 3280.00                              | 3269.10                               | 3200.50                              | 1148.16                                     | 1133.04                               | 15.12                               | -10.90                                     |
| 114             | 3300.00                              | 3289.10                               | 3220.50                              | 1153.16                                     | 1138.28                               | 14.88                               | -3.73                                      |
| 115             | 3312.50                              | 3301.60                               | 3233.00                              | 1156.16                                     | 1141.82                               | 14.35                               | -13.01                                     |
| 116             | 3350.97                              | 3340.07                               | 3271.47                              | 1166.93                                     | 1152.58                               | 14.35                               | 0  |

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*                                     *  
*****  
*                                     *  
*   SCHLUMBERGER                     *  
*                                     *  
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SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

## LONG DEFINITIONS

## GLOBAL

.RCDRF - ORIGIN OF ADJUSTMENT DATA  
 CONADJ - CONSTANT ADJUSTMENT TO AUTOMATIC DELTA-T MINIMUM = 7.5 US/F  
 UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)

## ZONE

ZDRIFT - USER DRIFT AT BOTTOM OF THE ZONE  
 ADJOPZ - TYPE OF ADJUSTMENT IN THE DRIFT ZONE : 0=DELTA-T MIN, 1=BLOCKSHIFT  
 ADJUSZ - DELTA-T MINIMUM USED FOR ADJUSTMENT IN THE DRIFT ZONE  
 LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER  
 LAYVEL - USER SUPPLIED VELOCITY DATA

## SAMPLED

SHOT - Shot number  
 VDKB - VERTICAL DEPTH RELATIVE TO KB  
 DSRD - Depth from SRD  
 DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)  
 KNEE - Knee  
 BLSH - BLOCK SHIFT BETWEEN SHOTS OR KNEE  
 DTMI - VALUE OF DELTA-T MINIMUM USED  
 COEF - DELTA-T MIN COEFFICIENT USED IN THE DRIFT ZONE  
 DRGR - GRADIENT OF DRIFT CURVE

## (GLOBAL PARAMETERS)

## (VALUE)

|                         |        |   |         |      |
|-------------------------|--------|---|---------|------|
| ORIG OF ADJ DATA (WST)  | SRCDRF | : | 2.00000 |      |
| CONS SONIC ADJUST (WST) | CONADJ | : | 7.50000 | US/F |
| UNIFORM EARTH VELOCITY  | UNERTH | : | 2133.60 | M/S  |

## (ZONED PARAMETERS)

## (VALUE)

## (LIMITS)

|                         |        |   |           |      |         |   |         |
|-------------------------|--------|---|-----------|------|---------|---|---------|
| USER DRIFT ZONE (WST)   | ZDRIFT | : | 13.80000  | MS   | 3351.00 | - | 2734.00 |
|                         |        |   | 10.50000  |      | 2734.00 |   | 2421.00 |
|                         |        |   | 12.50000  |      | 2421.00 |   | 2082.00 |
|                         |        |   | 3.200000  |      | 2082.00 |   | 1282.00 |
|                         |        |   | -3.560000 |      | 1282.00 |   | 940.000 |
|                         |        |   | 0         |      | 940.000 |   | 0       |
| ADJUSMNT MODE (WST)     | ADJOPZ | : | -999.2500 |      | 30479.7 | - | 0       |
| USER DELTA-T MIN (WST)  | ADJUSZ | : | -999.2500 | US/F | 30479.7 | - | 0       |
| LAYER OPTION FLAG VELOC | LOFVEL | : | 1.000000  |      | 30479.7 | - | 0       |
| USER VELOC (WST)        | LAYVEL | : | 2471.000  | M/S  | 940.000 | - | 415.000 |
|                         |        |   | 2287.000  |      | 415.000 |   | 79.5000 |
|                         |        |   | 1500.000  |      | 79.5000 |   | 0       |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| KNEE<br>NUMBER | VERTICAL<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | DRIFT<br>AT<br>KNEE<br>MS | BLOCKSHIFT<br>USED<br>US/F | DELTA-T<br>MINIMUM<br>USED<br>US/F | REDUCTION<br>FACTOR<br>G | EQUIVALENT<br>BLOCKSHIFT<br>US/F |
|----------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------|----------------------------|------------------------------------|--------------------------|----------------------------------|
|                |                                      |                                       |                                      |                           | 0                          |                                    |                          | 0                                |
| 2              | 940.00                               | 929.10                                | 860.50                               | 0                         |                            | 132.83                             | .76                      | -3.17                            |
| 3              | 1282.00                              | 1271.10                               | 1202.50                              | -3.56                     | 2.58                       |                                    |                          | 2.58                             |
| 4              | 2082.00                              | 2071.10                               | 2002.50                              | 3.20                      | 8.36                       |                                    |                          | 8.36                             |
| 5              | 2421.00                              | 2410.10                               | 2341.50                              | 12.50                     |                            | 67.78                              | .83                      | -1.95                            |
| 6              | 2734.00                              | 2723.10                               | 2654.50                              | 10.50                     | 1.63                       |                                    |                          | 1.63                             |
| 7              | 3351.00                              | 3340.10                               | 3271.50                              | 13.80                     |                            |                                    |                          |                                  |

ANALYST: M. SANDERS

25-SEP-85 19:37:28

PROGRAM: GADJST 008.E07

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*                                     *  
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*                                     *  
*   SCHLUMBERGER                     *  
*                                     *  
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## VELOCITY REPORT

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

## LONG DEFINITIONS

## GLOBAL

.B - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL  
 SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL  
 EKB - Elevation of Kelly Bushing  
 GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD  
 UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)

## ZONE

LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER  
 LAYVEL - USER SUPPLIED VELOCITY DATA

## SAMPLED

SHOT - Shot number  
 DKB - MEASURED DEPTH FROM KELLY-BUSHING  
 DSRD - Depth from SRD  
 DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)  
 SHTM - Shot time (WST)  
 ADJS - ADJUSTED SONIC TRAVEL TIME  
 SHDR - DRIFT AT SHOT OR KNEE  
 REST - RESIDUAL TRAVEL TIME AT KNEE  
 INTV - Internal velocity, average

## (GLOBAL PARAMETERS)

## (VALUE)

|                          |        |   |          |     |
|--------------------------|--------|---|----------|-----|
| ELEV OF KB AB. MSL (WST) | KB     | : | 10.9000  | M   |
| ELEV OF SRD AB. MSL(WST) | SRD    | : | 0        | M   |
| Elevation of Kelly Bushi | EKB    | : | 10.9000  | M   |
| ELEV OF GL AB. SRD(WST)  | GL     | : | -68.6000 | M   |
| UNIFORM EARTH VELOCITY   | UNERTH | : | 2133.60  | M/S |

## (ZONED PARAMETERS)

## (VALUE)

## (LIMITS)

|                         |        |   |          |         |         |           |
|-------------------------|--------|---|----------|---------|---------|-----------|
| LAYER OPTION FLAG VELOC | LOFVEL | : | 1.000000 | 30479.7 | -       | 0         |
| USER VELOC (WST)        | LAYVEL | : | 2471.000 | M/S     | 940.000 | - 415.000 |
|                         |        |   | 2287.000 |         | 415.000 | 79.5000   |
|                         |        |   | 1500.000 |         | 79.5000 | 0         |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

| LEVEL NUMBER | MEASURED DEPTH FROM KB M | VERTICAL DEPTH FROM SRD M | VERTICAL DEPTH FROM GL M | VERTICAL TRAVEL TIME SRD/GEOPH MS | INTEGRATED ADJUSTED SONIC TIME MS | DRIFT = SHOT TIME - RAW SON MS | RESIDUAL = SHOT TIME - ADJ SON MS | ADJUSTED INTERVAL VELOCITY M/S |
|--------------|--------------------------|---------------------------|--------------------------|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|
| 1            | 79.50                    | 68.60                     | 0                        | 45.73                             | 45.73                             | 0                              | 0                                 | 1500                           |
| 2            | 415.00                   | 404.10                    | 335.50                   | 192.42                            | 192.42                            | 0                              | 0                                 | 2287                           |
| 3            | 940.00                   | 929.10                    | 860.50                   | 404.91                            | 404.78                            | .14                            | .13                               | 2472                           |
| 4            | 1000.00                  | 989.10                    | 920.50                   | 434.93                            | 434.47                            | -.66                           | .46                               | 2021                           |
| 5            | 1060.00                  | 1049.10                   | 980.50                   | 465.94                            | 463.45                            | .46                            | 2.49                              | 2070                           |
| 6            | 1080.00                  | 1069.10                   | 1000.50                  | 472.95                            | 473.11                            | -2.49                          | -.16                              | 2071                           |
| 7            | 1100.00                  | 1089.10                   | 1020.50                  | 485.95                            | 482.57                            | .82                            | 3.38                              | 2114                           |
| 8            | 1120.00                  | 1109.10                   | 1040.50                  | 490.96                            | 491.99                            | -3.84                          | -1.03                             | 2122                           |
| 9            | 1140.00                  | 1129.10                   | 1060.50                  | 498.97                            | 501.50                            | -5.58                          | -2.53                             | 2104                           |
| 10           | 1160.00                  | 1149.10                   | 1080.50                  | 510.97                            | 510.53                            | -2.74                          | .43                               | 2214                           |
| 11           | 1200.00                  | 1189.10                   | 1120.50                  | 527.98                            | 528.17                            | -3.52                          | -.19                              | 2268                           |
| 12           | 1260.00                  | 1249.10                   | 1180.50                  | 553.99                            | 554.48                            | -4.05                          | -.49                              | 2281                           |
| 13           | 1280.00                  | 1269.10                   | 1200.50                  | 561.99                            | 561.55                            | -3.12                          | .44                               | 2827                           |
| 14           | 1304.00                  | 1293.10                   | 1224.50                  | 571.00                            | 570.25                            | -2.63                          | .75                               | 2760                           |
| 15           | 1320.00                  | 1309.10                   | 1240.50                  | 577.00                            | 575.99                            | -2.23                          | 1.02                              | 2789                           |
| 16           | 1340.00                  | 1329.10                   | 1260.50                  | 583.01                            | 582.48                            | -2.55                          | .53                               | 3081                           |
| 17           | 1360.00                  | 1349.10                   | 1280.50                  | 589.01                            | 588.64                            | -2.54                          | .37                               | 3244                           |
| 18           | 1380.00                  | 1369.10                   | 1300.50                  | 596.02                            | 595.07                            | -1.79                          | .94                               | 3110                           |
| 19           | 1400.00                  | 1389.10                   | 1320.50                  | 602.02                            | 601.59                            | -2.14                          | .43                               | 3068                           |
| 20           | 1420.00                  | 1409.10                   | 1340.50                  | 609.02                            | 608.28                            | -1.65                          | .75                               | 2992                           |
| 21           | 1440.00                  | 1429.10                   | 1360.50                  | 616.03                            | 614.92                            | -1.12                          | 1.11                              | 3010                           |
| 22           | 1460.00                  | 1449.10                   | 1380.50                  | 622.03                            | 621.68                            | -1.71                          | .35                               | 2957                           |
| 23           | 1480.00                  | 1469.10                   | 1400.50                  | 629.03                            | 628.22                            | -1.08                          | .81                               | 3059                           |
| 24           | 1500.00                  | 1489.10                   | 1420.50                  | 635.04                            | 634.61                            | -1.29                          | .43                               | 3132                           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEOPH<br>MS | INTEGRATED<br>ADJUSTED<br>SONIC<br>TIME<br>MS | DRIFT<br>=<br>SHOT TIME<br>- RAW SON<br>MS | RESIDUAL<br>=<br>SHOT TIME<br>- ADJ SON<br>MS | ADJUSTED<br>INTERVAL<br>VELOCITY<br><br>M/S |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---|--|---|---|
| 25              | 1520.00                              | 1509.10                               | 1440.50                              | 642.04  | 640.84  | -.36                                       | 1.20  | 3209  |
| 26              | 1540.00                              | 1529.10                               | 1460.50                              | 648.04  | 647.27  | -.62                                       | .77   | 3110  |
| 27              | 1560.00                              | 1549.10                               | 1480.50                              | 653.05  | 653.69  | -1.86                                      | -.65  | 3115  |
| 28              | 1570.00                              | 1559.10                               | 1490.50                              | 656.05  | 656.94  | -2.02                                      | -.89  | 3085  |
| 29              | 1580.00                              | 1569.10                               | 1500.50                              | 661.05  | 660.20  | -.20                                       | .85   | 3064  |
| 30              | 1600.00                              | 1589.10                               | 1520.50                              | 667.05  | 666.62  | -.45                                       | .44   | 3116  |
| 31              | 1620.00                              | 1609.10                               | 1540.50                              | 674.06  | 673.07  | .27  | .98   | 3098  |
| 32              | 1640.00                              | 1629.10                               | 1560.50                              | 680.06  | 679.39  | .13  | .67   | 3169  |
| 33              | 1660.00                              | 1649.10                               | 1580.50                              | 685.06  | 685.71  | -1.02                                      | -.65  | 3161  |
| 34              | 1670.00                              | 1659.10                               | 1590.50                              | 689.06  | 688.78  | -.01                                       | .29   | 3264  |
| 35              | 1680.00                              | 1669.10                               | 1600.50                              | 693.06  | 691.98  | .88  | 1.08  | 3123  |
| 36              | 1700.00                              | 1689.10                               | 1620.50                              | 699.07  | 698.89  | .15  | .18   | 2894  |
| 37              | 1720.00                              | 1709.10                               | 1640.50                              | 707.07  | 705.88  | 1.33                                       | 1.19  | 2862  |
| 38              | 1740.00                              | 1729.10                               | 1660.50                              | 714.07  | 712.83  | 1.55                                       | 1.24  | 2877  |
| 39              | 1760.00                              | 1749.10                               | 1680.50                              | 722.07  | 719.86  | 2.69                                       | 2.22  | 2845  |
| 40              | 1780.00                              | 1769.10                               | 1700.50                              | 728.07  | 727.11  | 1.61                                       | .96   | 2757  |
| 41              | 1800.00                              | 1789.10                               | 1720.50                              | 735.08  | 734.11  | 1.77                                       | .96   | 2856  |
| 42              | 1820.00                              | 1809.10                               | 1740.50                              | 741.08  | 740.53  | 1.53                                       | .55   | 3117  |
| 43              | 1840.00                              | 1829.10                               | 1760.50                              | 748.08  | 747.51  | 1.72                                       | .57   | 2865  |
| 44              | 1860.00                              | 1849.10                               | 1780.50                              | 755.08  | 754.55  | 1.85                                       | .53   | 2842  |
| 45              | 1880.00                              | 1869.10                               | 1800.50                              | 761.08  | 760.83  | 1.74                                       | .25   | 3183  |
| 46              | 1900.00                              | 1889.10                               | 1820.50                              | 768.09  | 767.09  | 2.65                                       | .99   | 3196  |
| 47              | 1920.00                              | 1909.10                               | 1840.50                              | 773.09  | 773.24  | 1.67                                       | -.16  | 3251  |
| 48              | 1940.00                              | 1929.10                               | 1860.50                              | 780.09  | 779.39  | 2.69                                       | .70   | 3253  |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEOPH<br>MS | INTEGRATED<br>ADJUSTED<br>SONIC<br>TIME<br>MS | DRIFT<br>=<br>SHOT TIME<br>- RAW SON<br>MS | RESIDUAL<br>=<br>SHOT TIME<br>- ADJ SON<br>MS | ADJUSTED<br>INTERVAL<br>VELOCITY<br>M/S |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---|--|---|---|
| 49              | 1960.00                              | 1949.10                               | 1880.50                              | 785.09  | 785.51  | 1.74                                       | -.42  | 3270                                    |
| 50              | 1980.00                              | 1969.10                               | 1900.50                              | 792.09  | 791.78  | 2.64                                       | .31   | 3189                                    |
| 51              | 2000.00                              | 1989.10                               | 1920.50                              | 799.10  | 798.02  | 3.57                                       | 1.07  | 3205                                    |
| 52              | 2020.00                              | 2009.10                               | 1940.50                              | 805.10  | 804.51  | 3.26                                       | .59   | 3082                                    |
| 53              | 2040.00                              | 2029.10                               | 1960.50                              | 810.10  | 810.50  | 2.43                                       | -.40  | 3340                                    |
| 54              | 2060.00                              | 2049.10                               | 1980.50                              | 815.10  | 816.48  | 1.63                                       | -1.38   | 3344                                    |
| 55              | 2080.00                              | 2069.10                               | 2000.50                              | 823.10  | 822.63  | 3.65                                       | .47   | 3251                                    |
| 56              | 2100.00                              | 2089.10                               | 2020.50                              | 829.10  | 829.53  | 3.26                                       | -.42  | 2900                                    |
| 57              | 2120.00                              | 2109.10                               | 2040.50                              | 835.10  | 836.05  | 3.29                                       | -.95  | 3064                                    |
| 58              | 2140.00                              | 2129.10                               | 2060.50                              | 842.11  | 842.59  | 4.30                                       | -.48  | 3061                                    |
| 59              | 2160.00                              | 2149.10                               | 2080.50                              | 849.11  | 849.62  | 4.82                                       | -.51  | 2845                                    |
| 60              | 2180.00                              | 2169.10                               | 2100.50                              | 857.11  | 856.17  | 6.81                                       | .93   | 3051                                    |
| 61              | 2200.00                              | 2189.10                               | 2120.50                              | 864.11  | 862.74  | 7.80                                       | 1.37  | 3044                                    |
| 62              | 2220.00                              | 2209.10                               | 2140.50                              | 869.11  | 869.18  | 6.91                                       | -.07  | 3108                                    |
| 63              | 2240.00                              | 2229.10                               | 2160.50                              | 877.11  | 875.42  | 9.22                                       | 1.69  | 3205                                    |
| 64              | 2260.00                              | 2249.10                               | 2180.50                              | 882.11  | 882.41  | 7.78                                       | -.30  | 2861                                    |
| 65              | 2280.00                              | 2269.10                               | 2200.50                              | 888.12  | 888.45  | 8.29                                       | -.33  | 3312                                    |
| 66              | 2290.00                              | 2279.10                               | 2210.50                              | 892.12  | 891.56  | 9.45                                       | .55   | 3212                                    |
| 67              | 2310.00                              | 2299.10                               | 2230.50                              | 897.12  | 897.79  | 8.77                                       | -.68  | 3209                                    |
| 68              | 2330.00                              | 2319.10                               | 2250.50                              | 904.12  | 904.12  | 9.99                                       | -.01  | 3160                                    |
| 69              | 2350.00                              | 2339.10                               | 2270.50                              | 909.12  | 910.34  | 9.32                                       | -1.22   | 3216                                    |
| 70              | 2370.00                              | 2359.10                               | 2290.50                              | 919.12  | 916.63  | 13.58                                      | 2.49  | 3179                                    |
| 71              | 2390.00                              | 2379.10                               | 2310.50                              | 924.12  | 922.87  | 12.89                                      | 1.25  | 3206                                    |
| 72              | 2410.00                              | 2399.10                               | 2330.50                              | 930.12  | 928.79  | 13.52                                      | 1.33  | 3380                                    |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEOPH<br>MS | INTEGRATED<br>ADJUSTED<br>SONIC<br>TIME<br>MS | DRIFT<br>=<br>SHOT TIME<br>- RAW SON<br>MS | RESIDUAL<br>=<br>SHOT TIME<br>- ADJ SON<br>MS | ADJUSTED<br>INTERVAL<br>VELOCITY<br>M/S |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---|--|---|---|
| 73              | 2430.00                              | 2419.10                               | 2350.50                              | 935.12  | 934.12  | 13.40                                      | 1.00  | 3749                                    |
| 74              | 2450.00                              | 2439.10                               | 2370.50                              | 940.13  | 939.46  | 12.88                                      | .67   | 3751                                    |
| 75              | 2470.00                              | 2459.10                               | 2390.50                              | 945.13  | 944.90  | 12.24                                      | .22   | 3670                                    |
| 76              | 2490.00                              | 2479.10                               | 2410.50                              | 951.13  | 950.32  | 12.62                                      | .80   | 3691                                    |
| 77              | 2510.00                              | 2499.10                               | 2430.50                              | 955.13  | 955.51  | 11.28                                      | -.39  | 3853                                    |
| 78              | 2530.00                              | 2519.10                               | 2450.50                              | 958.13  | 961.09  | 8.49                                       | -2.96   | 3690                                    |
| 79              | 2550.00                              | 2539.10                               | 2470.50                              | 968.13  | 966.46  | 12.92                                      | 1.67  | 3724                                    |
| 80              | 2570.00                              | 2559.10                               | 2490.50                              | 971.13  | 971.94  | 10.24                                      | -.80  | 3650                                    |
| 81              | 2590.00                              | 2579.10                               | 2510.50                              | 976.13  | 976.66  | 10.40                                      | -.53  | 4230                                    |
| 82              | 2600.00                              | 2589.10                               | 2520.50                              | 981.13  | 978.32  | 13.75                                      | 2.81  | 6031                                    |
| 83              | 2620.00                              | 2609.10                               | 2540.50                              | 984.13  | 981.90  | 13.17                                      | 2.23  | 5583                                    |
| 84              | 2640.00                              | 2629.10                               | 2560.50                              | 987.14  | 985.87  | 12.20                                      | 1.26  | 5038                                    |
| 85              | 2660.00                              | 2649.10                               | 2580.50                              | 991.14  | 990.38  | 11.67                                      | .76   | 4437                                    |
| 86              | 2680.00                              | 2669.10                               | 2600.50                              | 996.14  | 995.23  | 11.75                                      | .91   | 4126                                    |
| 87              | 2700.00                              | 2689.10                               | 2620.50                              | 1000.14                                       | 1000.29                                       | 10.56                                      | -.15  | 3950                                    |
| 88              | 2720.00                              | 2709.10                               | 2640.50                              | 1007.14                                       | 1005.36                                       | 12.37                                      | 1.78  | 3947                                    |
| 89              | 2740.00                              | 2729.10                               | 2660.50                              | 1011.14                                       | 1010.52                                       | 11.14                                      | .62   | 3877                                    |
| 90              | 2760.00                              | 2749.10                               | 2680.50                              | 1016.14                                       | 1015.83                                       | 10.95                                      | .31   | 3768                                    |
| 91              | 2780.00                              | 2769.10                               | 2700.50                              | 1019.14                                       | 1021.08                                       | 8.80                                       | -1.94   | 3807                                    |
| 92              | 2800.00                              | 2789.10                               | 2720.50                              | 1024.14                                       | 1026.21                                       | 8.78                                       | -2.06   | 3902                                    |
| 93              | 2820.00                              | 2809.10                               | 2740.50                              | 1028.14                                       | 1031.39                                       | 7.70                                       | -3.25   | 3857                                    |
| 94              | 2840.00                              | 2829.10                               | 2760.50                              | 1036.14                                       | 1036.58                                       | 10.62                                      | -.43  | 3855                                    |
| 95              | 2860.00                              | 2849.10                               | 2780.50                              | 1044.15                                       | 1041.55                                       | 13.75                                      | 2.59  | 4022                                    |
| 96              | 2880.00                              | 2869.10                               | 2800.50                              | 1048.15                                       | 1046.75                                       | 12.66                                      | 1.40  | 3847                                    |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| LEVEL<br>NUMBER | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | VERTICAL<br>DEPTH<br>FROM<br>GL<br>M | VERTICAL<br>TRAVEL<br>TIME<br>SRD/GEOPH<br>MS | INTEGRATED<br>ADJUSTED<br>SONIC<br>TIME<br>MS | DRIFT<br>=<br>SHOT TIME<br>- RAW SON<br>MS | RESIDUAL<br>=<br>SHOT TIME<br>- ADJ SON<br>MS | ADJUSTED<br>INTERVAL<br>VELOCITY<br><br>M/S |
|-----------------|--------------------------------------|---------------------------------------|--------------------------------------|---|---|--|---|---|
| 97              | 2900.00                              | 2889.10                               | 2820.50                              | 1053.15                                       | 1051.92                                       | 12.60                                      | 1.23  | 3870  |
| 98              | 2925.00                              | 2914.10                               | 2845.50                              | 1059.15                                       | 1058.27                                       | 12.39                                      | .88   | 3939  |
| 99              | 2965.00                              | 2954.10                               | 2885.50                              | 1068.15                                       | 1068.10                                       | 11.77                                      | .05   | 4067  |
| 100             | 3000.00                              | 2989.10                               | 2920.50                              | 1076.15                                       | 1077.02                                       | 11.04                                      | -.87  | 3922  |
| 101             | 3025.00                              | 3014.10                               | 2945.50                              | 1081.15                                       | 1083.44                                       | 9.75                                       | -2.29   | 3895  |
| 102             | 3060.00                              | 3049.10                               | 2980.50                              | 1091.15                                       | 1091.40                                       | 11.98                                      | -.24  | 4401  |
| 103             | 3080.00                              | 3069.10                               | 3000.50                              | 1096.15                                       | 1095.70                                       | 12.79                                      | .45   | 4641  |
| 104             | 3100.00                              | 3089.10                               | 3020.50                              | 1101.15                                       | 1100.63                                       | 12.97                                      | .52   | 4058  |
| 105             | 3120.00                              | 3109.10                               | 3040.50                              | 1106.16                                       | 1105.85                                       | 12.86                                      | .31   | 3838  |
| 106             | 3140.00                              | 3129.10                               | 3060.50                              | 1112.16                                       | 1110.91                                       | 13.90                                      | 1.24  | 3946  |
| 107             | 3160.00                              | 3149.10                               | 3080.50                              | 1117.16                                       | 1115.22                                       | 14.71                                      | 1.94  | 4650  |
| 108             | 3180.00                              | 3169.10                               | 3100.50                              | 1122.16                                       | 1120.08                                       | 14.95                                      | 2.07  | 4109  |
| 109             | 3200.00                              | 3189.10                               | 3120.50                              | 1128.16                                       | 1125.00                                       | 16.13                                      | 3.15  | 4064  |
| 110             | 3220.00                              | 3209.10                               | 3140.50                              | 1131.16                                       | 1129.88                                       | 14.37                                      | 1.28  | 4103  |
| 111             | 3240.00                              | 3229.10                               | 3160.50                              | 1138.16                                       | 1135.54                                       | 15.81                                      | 2.62  | 3533  |
| 112             | 3260.00                              | 3249.10                               | 3180.50                              | 1143.16                                       | 1140.63                                       | 15.84                                      | 2.53  | 3930  |
| 113             | 3280.00                              | 3269.10                               | 3200.50                              | 1148.16                                       | 1146.44                                       | 15.12                                      | 1.72  | 3440  |
| 114             | 3300.00                              | 3289.10                               | 3220.50                              | 1153.16                                       | 1151.79                                       | 14.88                                      | 1.37  | 3740  |
| 115             | 3312.50                              | 3301.60                               | 3233.00                              | 1156.16                                       | 1155.40                                       | 14.35                                      | .76   | 3463  |
| 116             | 3350.97                              | 3340.07                               | 3271.47                              | 1166.93                                       | 1166.35                                       | 14.35                                      | .58   | 3513  |

316048

ANALYST: M. SANDERS

25-SEP-85 19:46:18

PROGRAM: GTRFRM 007.E08

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*          SCHLUMBERGER              *  
*                                     *  
*                                     *  
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TIME CONVERTED VELOCITY REPORT

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 1

## LONG DEFINITIONS

GLOBAL  
 KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL  
 SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL  
 GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD  
 UNERTH - UNIFORM EARTH VELOCITY (GIRFRM)  
 UNFDEN - UNIFORM DENSITY VALUE

MATRIX  
 MVODIS - MOVE-OUT DISTANCE FROM BOREHOLE

ZONE  
 LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER  
 LAYVEL - USER SUPPLIED VELOCITY DATA  
 LOFDEN - LAYER OPTION FLAG FOR DENSITY : -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER  
 LAYDEN - USER SUPPLIED DENSITY DATA

SAMPLED  
 TWOT - TWO WAY TRAVEL TIME (RELATIVE TO THE SEISMIC REFERENCE)  
 DKB - MEASURED DEPTH FROM KELLY-BUSHING  
 DSRD - DEPTH FROM SRD  
 AVGV - AVERAGE SEISMIC VELOCITY  
 RMSV - ROOT MEAN SQUARE VELOCITY (SEISMIC)  
 MVOT - NORMAL MOVE-OUT  
 MVOT - NORMAL MOVE-OUT  
 MVOT - NORMAL MOVE-OUT  
 INTV - INTERNAL VELOCITY, AVERAGE

## (GLOBAL PARAMETERS)

## (VALUE)

|                          |        |   |          |      |
|--------------------------|--------|---|----------|------|
| ELEV OF KB AB. MSL (WST) | KB     | : | 10.9000  | M    |
| ELEV OF SRD AB. MSL(WST) | SRD    | : | 0        | M    |
| ELEV OF GL AB. SRD(WST)  | GL     | : | -68.6000 | M    |
| UNIFORM EARTH VELOCITY   | UNERTH | : | 2133.60  | M/S  |
| UNIFORM DENSITY VALUE    | UNFDEN | : | 2.30000  | G/C3 |

## (MATRIX PARAMETERS)

|   | MVOUT DIST |
|---|------------|
|   | M          |
| 1 | 914.4      |
| 2 | 1371.6     |
| 3 | 1828.8     |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

PAGE 2

| (ZONED PARAMETERS)       |        | (VALUE)          | (LIMITS)          |
|--------------------------|--------|------------------|-------------------|
| LAYER OPTION FLAG VELOC  | LOFVEL | : 1.000000       | 30479.7 - 0       |
| USER VELOC (WST)         | LAYVEL | : 2471.000 M/S   | 940.000 - 415.000 |
|                          |        | 2287.000         | 415.000 79.5000   |
|                          |        | 1500.000         | 79.5000 0         |
| LAYER OPTION FLAG DENS   | LOFDEN | : -1.000000      | 30479.7 - 0       |
| USER SUPPLIED DENSITY DA | LAYDEN | : -999.2500 G/C3 | 30479.7 - 0       |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

PAGE 3

| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
|   |                                      |                                       |                                       |                        |                                  |                                   |                                  | 1500                        |
| 0   | 10.90                                | 0                                     |                                       |                        |                                  |                                   |                                  | 1500                        |
| 2.00  | 12.40                                | 1.50                                  | 1500                                  | 1500                   | 607.60                           | 912.40                            | 1217.20                          | 1500                        |
| 4.00  | 13.90                                | 3.00                                  | 1500                                  | 1500                   | 605.61                           | 910.41                            | 1215.21                          | 1500                        |
| 6.00  | 15.40                                | 4.50                                  | 1500                                  | 1500                   | 603.63                           | 908.42                            | 1213.21                          | 1500                        |
| 8.00  | 16.90                                | 6.00                                  | 1500                                  | 1500                   | 601.65                           | 906.43                            | 1211.23                          | 1500                        |
| 10.00                                       | 18.40                                | 7.50                                  | 1500                                  | 1500                   | 599.68                           | 904.45                            | 1209.24                          | 1500                        |
| 12.00                                       | 19.90                                | 9.00                                  | 1500                                  | 1500                   | 597.72                           | 902.48                            | 1207.26                          | 1500                        |
| 14.00                                       | 21.40                                | 10.50                                 | 1500                                  | 1500                   | 595.76                           | 900.51                            | 1205.28                          | 1500                        |
| 16.00                                       | 22.90                                | 12.00                                 | 1500                                  | 1500                   | 593.81                           | 898.54                            | 1203.30                          | 1500                        |
| 18.00                                       | 24.40                                | 13.50                                 | 1500                                  | 1500                   | 591.87                           | 896.58                            | 1201.33                          | 1500                        |
| 20.00                                       | 25.90                                | 15.00                                 | 1500                                  | 1500                   | 589.93                           | 894.62                            | 1199.36                          | 1500                        |
| 22.00                                       | 27.40                                | 16.50                                 | 1500                                  | 1500                   | 588.00                           | 892.66                            | 1197.40                          | 1500                        |
| 24.00                                       | 28.90                                | 18.00                                 | 1500                                  | 1500                   | 586.07                           | 890.71                            | 1195.44                          | 1500                        |
| 26.00                                       | 30.40                                | 19.50                                 | 1500                                  | 1500                   | 584.15                           | 888.77                            | 1193.48                          | 1500                        |
| 28.00                                       | 31.90                                | 21.00                                 | 1500                                  | 1500                   | 582.24                           | 886.83                            | 1191.52                          | 1500                        |
| 30.00                                       | 33.40                                | 22.50                                 | 1500                                  | 1500                   | 580.34                           | 884.89                            | 1189.57                          | 1500                        |
| 32.00                                       | 34.90                                | 24.00                                 | 1500                                  | 1500                   | 578.44                           | 882.96                            | 1187.62                          | 1500                        |
| 34.00                                       | 36.40                                | 25.50                                 | 1500                                  | 1500                   | 576.55                           | 881.03                            | 1185.67                          | 1500                        |
| 36.00                                       | 37.90                                | 27.00                                 | 1500                                  | 1500                   | 574.66                           | 879.11                            | 1183.73                          | 1500                        |
| 38.00                                       | 39.40                                | 28.50                                 | 1500                                  | 1500                   | 572.78                           | 877.19                            | 1181.79                          | 1500                        |
| 40.00                                       | 40.90                                | 30.00                                 | 1500                                  | 1500                   | 570.91                           | 875.27                            | 1179.86                          | 1500                        |
| 42.00                                       | 42.40                                | 31.50                                 | 1500                                  | 1500                   | 569.05                           | 873.36                            | 1177.92                          | 1500                        |
| 44.00                                       | 43.90                                | 33.00                                 | 1500                                  | 1500                   | 567.19                           | 871.46                            | 1175.99                          | 1500                        |
| 46.00                                       | 45.40                                | 34.50                                 | 1500                                  | 1500                   | 565.33                           | 869.56                            | 1174.07                          | 1500                        |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 48.00                                       | 46.90                                | 36.00                                 | 1500                                  | 1500                   | 563.49                           | 867.66                            | 1172.14                          | 1500                        |
| 50.00                                       | 48.40                                | 37.50                                 | 1500                                  | 1500                   | 561.65                           | 865.77                            | 1170.22                          | 1500                        |
| 52.00                                       | 49.90                                | 39.00                                 | 1500                                  | 1500                   | 559.81                           | 863.88                            | 1168.31                          | 1500                        |
| 54.00                                       | 51.40                                | 40.50                                 | 1500                                  | 1500                   | 557.99                           | 861.99                            | 1166.40                          | 1500                        |
| 56.00                                       | 52.90                                | 42.00                                 | 1500                                  | 1500                   | 556.17                           | 860.11                            | 1164.49                          | 1500                        |
| 58.00                                       | 54.40                                | 43.50                                 | 1500                                  | 1500                   | 554.35                           | 858.24                            | 1162.58                          | 1500                        |
| 60.00                                       | 55.90                                | 45.00                                 | 1500                                  | 1500                   | 552.55                           | 856.37                            | 1160.68                          | 1500                        |
| 62.00                                       | 57.40                                | 46.50                                 | 1500                                  | 1500                   | 550.74                           | 854.50                            | 1158.78                          | 1500                        |
| 64.00                                       | 58.90                                | 48.00                                 | 1500                                  | 1500                   | 548.95                           | 852.64                            | 1156.88                          | 1500                        |
| 66.00                                       | 60.40                                | 49.50                                 | 1500                                  | 1500                   | 547.16                           | 850.78                            | 1154.99                          | 1500                        |
| 68.00                                       | 61.90                                | 51.00                                 | 1500                                  | 1500                   | 545.38                           | 848.92                            | 1153.09                          | 1500                        |
| 70.00                                       | 63.40                                | 52.50                                 | 1500                                  | 1500                   | 543.61                           | 847.08                            | 1151.21                          | 1500                        |
| 72.00                                       | 64.90                                | 54.00                                 | 1500                                  | 1500                   | 541.84                           | 845.23                            | 1149.32                          | 1500                        |
| 74.00                                       | 66.40                                | 55.50                                 | 1500                                  | 1500                   | 540.08                           | 843.39                            | 1147.44                          | 1500                        |
| 76.00                                       | 67.90                                | 57.00                                 | 1500                                  | 1500                   | 538.32                           | 841.55                            | 1145.57                          | 1500                        |
| 78.00                                       | 69.40                                | 58.50                                 | 1500                                  | 1500                   | 536.57                           | 839.72                            | 1143.69                          | 1500                        |
| 80.00                                       | 70.90                                | 60.00                                 | 1500                                  | 1500                   | 534.83                           | 837.89                            | 1141.82                          | 1500                        |
| 82.00                                       | 72.40                                | 61.50                                 | 1500                                  | 1500                   | 533.09                           | 836.07                            | 1139.95                          | 1500                        |
| 84.00                                       | 73.90                                | 63.00                                 | 1500                                  | 1500                   | 531.36                           | 834.25                            | 1138.09                          | 1500                        |
| 86.00                                       | 75.40                                | 64.50                                 | 1500                                  | 1500                   | 529.64                           | 832.44                            | 1136.23                          | 1500                        |
| 88.00                                       | 76.90                                | 66.00                                 | 1500                                  | 1500                   | 527.92                           | 830.62                            | 1134.37                          | 1500                        |
| 90.00                                       | 78.40                                | 67.50                                 | 1500                                  | 1500                   | 526.21                           | 828.82                            | 1132.52                          | 1720                        |
| 92.00                                       | 80.12                                | 69.22                                 | 1505                                  | 1505                   | 522.45                           | 823.91                            | 1126.52                          | 2287                        |
| 94.00                                       | 82.41                                | 71.51                                 | 1521                                  | 1526                   | 512.56                           | 809.75                            | 1108.15                          |                             |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 96.00                                       | 84.69                                | 73.79                                 | 1537                                  | 1546                   | 503.34                           | 796.58                            | 1091.10                          | 2287                        |
| 98.00                                       | 86.98                                | 76.08                                 | 1553                                  | 1564                   | 494.71                           | 784.29                            | 1075.20                          | 2287                        |
| 100.00                                      | 89.27                                | 78.37                                 | 1567                                  | 1582                   | 486.60                           | 772.77                            | 1060.34                          | 2287                        |
| 102.00                                      | 91.56                                | 80.66                                 | 1581                                  | 1599                   | 478.96                           | 761.94                            | 1046.41                          | 2287                        |
| 104.00                                      | 93.84                                | 82.94                                 | 1595                                  | 1615                   | 471.74                           | 751.74                            | 1033.30                          | 2287                        |
| 106.00                                      | 96.13                                | 85.23                                 | 1608                                  | 1630                   | 464.89                           | 742.10                            | 1020.93                          | 2287                        |
| 108.00                                      | 98.42                                | 87.52                                 | 1621                                  | 1645                   | 458.39                           | 732.97                            | 1009.24                          | 2287                        |
| 110.00                                      | 100.70                               | 89.80                                 | 1633                                  | 1658                   | 452.21                           | 724.30                            | 998.16                           | 2287                        |
| 112.00                                      | 102.99                               | 92.09                                 | 1644                                  | 1672                   | 446.31                           | 716.04                            | 987.63                           | 2287                        |
| 114.00                                      | 105.28                               | 94.38                                 | 1656                                  | 1685                   | 440.66                           | 708.18                            | 977.61                           | 2287                        |
| 116.00                                      | 107.56                               | 96.66                                 | 1667                                  | 1697                   | 435.26                           | 700.66                            | 968.06                           | 2287                        |
| 118.00                                      | 109.85                               | 98.95                                 | 1677                                  | 1708                   | 430.08                           | 693.47                            | 958.94                           | 2287                        |
| 120.00                                      | 112.14                               | 101.24                                | 1687                                  | 1720                   | 425.10                           | 686.57                            | 950.21                           | 2287                        |
| 122.00                                      | 114.43                               | 103.53                                | 1697                                  | 1730                   | 420.31                           | 679.95                            | 941.84                           | 2287                        |
| 124.00                                      | 116.71                               | 105.81                                | 1707                                  | 1741                   | 415.69                           | 673.58                            | 933.81                           | 2287                        |
| 126.00                                      | 119.00                               | 108.10                                | 1716                                  | 1751                   | 411.24                           | 667.45                            | 926.09                           | 2287                        |
| 128.00                                      | 121.29                               | 110.39                                | 1725                                  | 1760                   | 406.94                           | 661.54                            | 918.65                           | 2287                        |
| 130.00                                      | 123.57                               | 112.67                                | 1733                                  | 1770                   | 402.78                           | 655.84                            | 911.49                           | 2287                        |
| 132.00                                      | 125.86                               | 114.96                                | 1742                                  | 1779                   | 398.75                           | 650.32                            | 904.58                           | 2287                        |
| 134.00                                      | 128.15                               | 117.25                                | 1750                                  | 1787                   | 394.84                           | 644.99                            | 897.90                           | 2287                        |
| 136.00                                      | 130.43                               | 119.53                                | 1758                                  | 1796                   | 391.05                           | 639.82                            | 891.45                           | 2287                        |
| 138.00                                      | 132.72                               | 121.82                                | 1766                                  | 1804                   | 387.37                           | 634.81                            | 885.20                           | 2287                        |
| 140.00                                      | 135.01                               | 124.11                                | 1773                                  | 1812                   | 383.79                           | 629.94                            | 879.14                           | 2287                        |
| 142.00                                      | 137.30                               | 126.40                                | 1780                                  | 1819                   | 380.31                           | 625.22                            | 873.26                           | 2287                        |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 144.00                                      | 139.58                               | 128.68                                | 1787                                  | 1827                   | 376.93                           | 620.62                            | 867.56                           | 2287                        |
| 146.00                                      | 141.87                               | 130.97                                | 1794                                  | 1834                   | 373.62                           | 616.15                            | 862.01                           | 2287                        |
| 148.00                                      | 144.16                               | 133.26                                | 1801                                  | 1840                   | 370.40                           | 611.80                            | 856.62                           | 2287                        |
| 150.00                                      | 146.44                               | 135.54                                | 1807                                  | 1847                   | 367.26                           | 607.55                            | 851.37                           | 2287                        |
| 152.00                                      | 148.73                               | 137.83                                | 1814                                  | 1854                   | 364.20                           | 603.41                            | 846.26                           | 2287                        |
| 154.00                                      | 151.02                               | 140.12                                | 1820                                  | 1860                   | 361.20                           | 599.37                            | 841.28                           | 2287                        |
| 156.00                                      | 153.31                               | 142.41                                | 1826                                  | 1866                   | 358.27                           | 595.43                            | 836.42                           | 2287                        |
| 158.00                                      | 155.59                               | 144.69                                | 1832                                  | 1872                   | 355.41                           | 591.57                            | 831.67                           | 2287                        |
| 160.00                                      | 157.88                               | 146.98                                | 1837                                  | 1878                   | 352.60                           | 587.80                            | 827.04                           | 2287                        |
| 162.00                                      | 160.17                               | 149.27                                | 1843                                  | 1883                   | 349.86                           | 584.12                            | 822.51                           | 2287                        |
| 164.00                                      | 162.45                               | 151.55                                | 1848                                  | 1889                   | 347.17                           | 580.50                            | 818.08                           | 2287                        |
| 166.00                                      | 164.74                               | 153.84                                | 1853                                  | 1894                   | 344.53                           | 576.97                            | 813.75                           | 2287                        |
| 168.00                                      | 167.03                               | 156.13                                | 1859                                  | 1899                   | 341.95                           | 573.50                            | 809.50                           | 2287                        |
| 170.00                                      | 169.31                               | 158.41                                | 1864                                  | 1904                   | 339.41                           | 570.10                            | 805.35                           | 2287                        |
| 172.00                                      | 171.60                               | 160.70                                | 1869                                  | 1909                   | 336.92                           | 566.77                            | 801.28                           | 2287                        |
| 174.00                                      | 173.89                               | 162.99                                | 1873                                  | 1914                   | 334.48                           | 563.50                            | 797.28                           | 2287                        |
| 176.00                                      | 176.18                               | 165.28                                | 1878                                  | 1918                   | 332.08                           | 560.29                            | 793.37                           | 2287                        |
| 178.00                                      | 178.46                               | 167.56                                | 1883                                  | 1923                   | 329.73                           | 557.13                            | 789.52                           | 2287                        |
| 180.00                                      | 180.75                               | 169.85                                | 1887                                  | 1927                   | 327.41                           | 554.03                            | 785.75                           | 2287                        |
| 182.00                                      | 183.04                               | 172.14                                | 1892                                  | 1932                   | 325.14                           | 550.98                            | 782.04                           | 2287                        |
| 184.00                                      | 185.32                               | 174.42                                | 1896                                  | 1936                   | 322.90                           | 547.99                            | 778.40                           | 2287                        |
| 186.00                                      | 187.61                               | 176.71                                | 1900                                  | 1940                   | 320.70                           | 545.04                            | 774.82                           | 2287                        |
| 188.00                                      | 189.90                               | 179.00                                | 1904                                  | 1944                   | 318.53                           | 542.14                            | 771.30                           | 2287                        |
| 190.00                                      | 192.18                               | 181.28                                | 1908                                  | 1948                   | 316.40                           | 539.29                            | 767.83                           | 2287                        |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 192.00                                      | 194.47                               | 183.57                                | 1912                                  | 1952                   | 314.30                           | 536.47                            | 764.43                           | 2287                        |
| 194.00                                      | 196.76                               | 185.86                                | 1916                                  | 1956                   | 312.23                           | 533.71                            | 761.07                           | 2287                        |
| 196.00                                      | 199.05                               | 188.15                                | 1920                                  | 1959                   | 310.19                           | 530.98                            | 757.77                           | 2287                        |
| 198.00                                      | 201.33                               | 190.43                                | 1924                                  | 1963                   | 308.18                           | 528.29                            | 754.51                           | 2287                        |
| 200.00                                      | 203.62                               | 192.72                                | 1927                                  | 1966                   | 306.21                           | 525.64                            | 751.31                           | 2287                        |
| 202.00                                      | 205.91                               | 195.01                                | 1931                                  | 1970                   | 304.26                           | 523.03                            | 748.15                           | 2287                        |
| 204.00                                      | 208.19                               | 197.29                                | 1934                                  | 1973                   | 302.34                           | 520.45                            | 745.03                           | 2287                        |
| 206.00                                      | 210.48                               | 199.58                                | 1938                                  | 1976                   | 300.44                           | 517.91                            | 741.96                           | 2287                        |
| 208.00                                      | 212.77                               | 201.87                                | 1941                                  | 1980                   | 298.57                           | 515.40                            | 738.93                           | 2287                        |
| 210.00                                      | 215.05                               | 204.15                                | 1944                                  | 1983                   | 296.73                           | 512.92                            | 735.94                           | 2287                        |
| 212.00                                      | 217.34                               | 206.44                                | 1948                                  | 1986                   | 294.91                           | 510.48                            | 732.98                           | 2287                        |
| 214.00                                      | 219.63                               | 208.73                                | 1951                                  | 1989                   | 293.11                           | 508.06                            | 730.07                           | 2287                        |
| 216.00                                      | 221.92                               | 211.02                                | 1954                                  | 1992                   | 291.34                           | 505.68                            | 727.19                           | 2287                        |
| 218.00                                      | 224.20                               | 213.30                                | 1957                                  | 1995                   | 289.59                           | 503.32                            | 724.35                           | 2287                        |
| 220.00                                      | 226.49                               | 215.59                                | 1960                                  | 1998                   | 287.86                           | 501.00                            | 721.55                           | 2287                        |
| 222.00                                      | 228.78                               | 217.88                                | 1963                                  | 2000                   | 286.16                           | 498.70                            | 718.77                           | 2287                        |
| 224.00                                      | 231.06                               | 220.16                                | 1966                                  | 2003                   | 284.47                           | 496.42                            | 716.03                           | 2287                        |
| 226.00                                      | 233.35                               | 222.45                                | 1969                                  | 2006                   | 282.81                           | 494.18                            | 713.32                           | 2287                        |
| 228.00                                      | 235.64                               | 224.74                                | 1971                                  | 2008                   | 281.17                           | 491.95                            | 710.64                           | 2287                        |
| 230.00                                      | 237.93                               | 227.03                                | 1974                                  | 2011                   | 279.54                           | 489.76                            | 708.00                           | 2287                        |
| 232.00                                      | 240.21                               | 229.31                                | 1977                                  | 2014                   | 277.94                           | 487.58                            | 705.38                           | 2287                        |
| 234.00                                      | 242.50                               | 231.60                                | 1979                                  | 2016                   | 276.35                           | 485.44                            | 702.79                           | 2287                        |
| 236.00                                      | 244.79                               | 233.89                                | 1982                                  | 2019                   | 274.78                           | 483.31                            | 700.22                           | 2287                        |
| 238.00                                      | 247.07                               | 236.17                                | 1985                                  | 2021                   | 273.23                           | 481.20                            | 697.69                           | 2287                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 240.00                                      | 249.36                               | 238.46                                | 1987                                  | 2023                   | 271.70                           | 479.12                            | 695.18                           | 2287                        |
| 242.00                                      | 251.65                               | 240.75                                | 1990                                  | 2026                   | 270.19                           | 477.06                            | 692.69                           | 2287                        |
| 244.00                                      | 253.93                               | 243.03                                | 1992                                  | 2028                   | 268.69                           | 475.02                            | 690.23                           | 2287                        |
| 246.00                                      | 256.22                               | 245.32                                | 1994                                  | 2030                   | 267.21                           | 473.00                            | 687.80                           | 2287                        |
| 248.00                                      | 258.51                               | 247.61                                | 1997                                  | 2032                   | 265.74                           | 471.00                            | 685.38                           | 2287                        |
| 250.00                                      | 260.80                               | 249.90                                | 1999                                  | 2035                   | 264.29                           | 469.02                            | 683.00                           | 2287                        |
| 252.00                                      | 263.08                               | 252.18                                | 2001                                  | 2037                   | 262.86                           | 467.06                            | 680.63                           | 2287                        |
| 254.00                                      | 265.37                               | 254.47                                | 2004                                  | 2039                   | 261.44                           | 465.11                            | 678.29                           | 2287                        |
| 256.00                                      | 267.66                               | 256.76                                | 2006                                  | 2041                   | 260.03                           | 463.19                            | 675.96                           | 2287                        |
| 258.00                                      | 269.94                               | 259.04                                | 2008                                  | 2043                   | 258.64                           | 461.28                            | 673.66                           | 2287                        |
| 260.00                                      | 272.23                               | 261.33                                | 2010                                  | 2045                   | 257.27                           | 459.39                            | 671.38                           | 2287                        |
| 262.00                                      | 274.52                               | 263.62                                | 2012                                  | 2047                   | 255.91                           | 457.52                            | 669.12                           | 2287                        |
| 264.00                                      | 276.80                               | 265.90                                | 2014                                  | 2049                   | 254.56                           | 455.67                            | 666.88                           | 2287                        |
| 266.00                                      | 279.09                               | 268.19                                | 2016                                  | 2051                   | 253.23                           | 453.83                            | 664.66                           | 2287                        |
| 268.00                                      | 281.38                               | 270.48                                | 2018                                  | 2052                   | 251.91                           | 452.00                            | 662.46                           | 2287                        |
| 270.00                                      | 283.67                               | 272.77                                | 2020                                  | 2054                   | 250.60                           | 450.20                            | 660.27                           | 2287                        |
| 272.00                                      | 285.95                               | 275.05                                | 2022                                  | 2056                   | 249.31                           | 448.41                            | 658.11                           | 2287                        |
| 274.00                                      | 288.24                               | 277.34                                | 2024                                  | 2058                   | 248.03                           | 446.63                            | 655.96                           | 2287                        |
| 276.00                                      | 290.53                               | 279.63                                | 2026                                  | 2060                   | 246.76                           | 444.87                            | 653.83                           | 2287                        |
| 278.00                                      | 292.81                               | 281.91                                | 2028                                  | 2061                   | 245.50                           | 443.12                            | 651.71                           | 2287                        |
| 280.00                                      | 295.10                               | 284.20                                | 2030                                  | 2063                   | 244.26                           | 441.39                            | 649.62                           | 2287                        |
| 282.00                                      | 297.39                               | 286.49                                | 2032                                  | 2065                   | 243.03                           | 439.67                            | 647.54                           | 2287                        |
| 284.00                                      | 299.67                               | 288.77                                | 2034                                  | 2066                   | 241.81                           | 437.97                            | 645.47                           | 2287                        |
| 286.00                                      | 301.96                               | 291.06                                | 2035                                  | 2068                   | 240.60                           | 436.28                            | 643.42                           | 2287                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 288.00                                      | 304.25                               | 293.35                                | 2037                                  | 2070                   | 239.40                           | 434.60                            | 641.39                           | 2287                        |
| 290.00                                      | 306.54                               | 295.64                                | 2039                                  | 2071                   | 238.21                           | 432.94                            | 639.37                           | 2287                        |
| 292.00                                      | 308.82                               | 297.92                                | 2041                                  | 2073                   | 237.04                           | 431.29                            | 637.37                           | 2287                        |
| 294.00                                      | 311.11                               | 300.21                                | 2042                                  | 2074                   | 235.87                           | 429.65                            | 635.38                           | 2287                        |
| 296.00                                      | 313.40                               | 302.50                                | 2044                                  | 2076                   | 234.72                           | 428.03                            | 633.41                           | 2287                        |
| 298.00                                      | 315.68                               | 304.78                                | 2046                                  | 2077                   | 233.57                           | 426.42                            | 631.45                           | 2287                        |
| 300.00                                      | 317.97                               | 307.07                                | 2047                                  | 2079                   | 232.44                           | 424.82                            | 629.50                           | 2287                        |
| 302.00                                      | 320.26                               | 309.36                                | 2049                                  | 2080                   | 231.32                           | 423.23                            | 627.57                           | 2287                        |
| 304.00                                      | 322.55                               | 311.65                                | 2050                                  | 2082                   | 230.21                           | 421.66                            | 625.65                           | 2287                        |
| 306.00                                      | 324.83                               | 313.93                                | 2052                                  | 2083                   | 229.10                           | 420.09                            | 623.75                           | 2287                        |
| 308.00                                      | 327.12                               | 316.22                                | 2053                                  | 2084                   | 228.01                           | 418.54                            | 621.86                           | 2287                        |
| 310.00                                      | 329.41                               | 318.51                                | 2055                                  | 2086                   | 226.93                           | 417.00                            | 619.98                           | 2287                        |
| 312.00                                      | 331.69                               | 320.79                                | 2056                                  | 2087                   | 225.85                           | 415.47                            | 618.11                           | 2287                        |
| 314.00                                      | 333.98                               | 323.08                                | 2058                                  | 2088                   | 224.79                           | 413.95                            | 616.26                           | 2287                        |
| 316.00                                      | 336.27                               | 325.37                                | 2059                                  | 2090                   | 223.73                           | 412.44                            | 614.42                           | 2287                        |
| 318.00                                      | 338.55                               | 327.65                                | 2061                                  | 2091                   | 222.69                           | 410.95                            | 612.59                           | 2287                        |
| 320.00                                      | 340.84                               | 329.94                                | 2062                                  | 2092                   | 221.65                           | 409.46                            | 610.77                           | 2287                        |
| 322.00                                      | 343.13                               | 332.23                                | 2064                                  | 2094                   | 220.62                           | 407.98                            | 608.96                           | 2287                        |
| 324.00                                      | 345.42                               | 334.52                                | 2065                                  | 2095                   | 219.60                           | 406.52                            | 607.17                           | 2287                        |
| 326.00                                      | 347.70                               | 336.80                                | 2066                                  | 2096                   | 218.59                           | 405.06                            | 605.39                           | 2287                        |
| 328.00                                      | 349.99                               | 339.09                                | 2068                                  | 2097                   | 217.59                           | 403.62                            | 603.61                           | 2287                        |
| 330.00                                      | 352.28                               | 341.38                                | 2069                                  | 2099                   | 216.59                           | 402.18                            | 601.85                           | 2287                        |
| 332.00                                      | 354.56                               | 343.66                                | 2070                                  | 2100                   | 215.61                           | 400.76                            | 600.10                           | 2287                        |
| 334.00                                      | 356.85                               | 345.95                                | 2072                                  | 2101                   | 214.63                           | 399.34                            | 598.36                           | 2287                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 336.00                                      | 359.14                               | 348.24                                | 2073                                  | 2102                   | 213.66                           | 397.93                            | 596.64                           | 2287                        |
| 338.00                                      | 361.42                               | 350.52                                | 2074                                  | 2103                   | 212.70                           | 396.54                            | 594.92                           | 2287                        |
| 340.00                                      | 363.71                               | 352.81                                | 2075                                  | 2104                   | 211.74                           | 395.15                            | 593.21                           | 2287                        |
| 342.00                                      | 366.00                               | 355.10                                | 2077                                  | 2105                   | 210.80                           | 393.77                            | 591.51                           | 2287                        |
| 344.00                                      | 368.29                               | 357.39                                | 2078                                  | 2107                   | 209.86                           | 392.40                            | 589.82                           | 2287                        |
| 346.00                                      | 370.57                               | 359.67                                | 2079                                  | 2108                   | 208.93                           | 391.04                            | 588.15                           | 2287                        |
| 348.00                                      | 372.86                               | 361.96                                | 2080                                  | 2109                   | 208.00                           | 389.69                            | 586.48                           | 2287                        |
| 350.00                                      | 375.15                               | 364.25                                | 2081                                  | 2110                   | 207.09                           | 388.35                            | 584.82                           | 2287                        |
| 352.00                                      | 377.43                               | 366.53                                | 2083                                  | 2111                   | 206.18                           | 387.01                            | 583.17                           | 2287                        |
| 354.00                                      | 379.72                               | 368.82                                | 2084                                  | 2112                   | 205.28                           | 385.69                            | 581.53                           | 2287                        |
| 356.00                                      | 382.01                               | 371.11                                | 2085                                  | 2113                   | 204.38                           | 384.37                            | 579.90                           | 2287                        |
| 358.00                                      | 384.29                               | 373.39                                | 2086                                  | 2114                   | 203.50                           | 383.06                            | 578.28                           | 2287                        |
| 360.00                                      | 386.58                               | 375.68                                | 2087                                  | 2115                   | 202.62                           | 381.76                            | 576.67                           | 2287                        |
| 362.00                                      | 388.87                               | 377.97                                | 2088                                  | 2116                   | 201.74                           | 380.47                            | 575.07                           | 2287                        |
| 364.00                                      | 391.16                               | 380.26                                | 2089                                  | 2117                   | 200.88                           | 379.19                            | 573.48                           | 2287                        |
| 366.00                                      | 393.44                               | 382.54                                | 2090                                  | 2118                   | 200.02                           | 377.91                            | 571.89                           | 2287                        |
| 368.00                                      | 395.73                               | 384.83                                | 2091                                  | 2119                   | 199.17                           | 376.64                            | 570.31                           | 2287                        |
| 370.00                                      | 398.02                               | 387.12                                | 2093                                  | 2120                   | 198.32                           | 375.38                            | 568.75                           | 2287                        |
| 372.00                                      | 400.30                               | 389.40                                | 2094                                  | 2121                   | 197.48                           | 374.13                            | 567.19                           | 2287                        |
| 374.00                                      | 402.59                               | 391.69                                | 2095                                  | 2122                   | 196.65                           | 372.88                            | 565.64                           | 2287                        |
| 376.00                                      | 404.88                               | 393.98                                | 2096                                  | 2122                   | 195.82                           | 371.65                            | 564.09                           | 2287                        |
| 378.00                                      | 407.16                               | 396.26                                | 2097                                  | 2123                   | 195.00                           | 370.42                            | 562.56                           | 2287                        |
| 380.00                                      | 409.45                               | 398.55                                | 2098                                  | 2124                   | 194.18                           | 369.20                            | 561.03                           | 2287                        |
| 382.00                                      | 411.74                               | 400.84                                | 2099                                  | 2125                   | 193.37                           | 367.98                            | 559.52                           | 2287                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 384.00                                      | 414.03                               | 403.13                                | 2100                                  | 2126                   | 192.57                           | 366.77                            | 558.01                           | 2287                        |
| 386.00                                      | 416.44                               | 405.54                                | 2101                                  | 2128                   | 191.67                           | 365.39                            | 556.24                           | 2412                        |
| 388.00                                      | 418.95                               | 408.05                                | 2103                                  | 2130                   | 190.69                           | 363.86                            | 554.27                           | 2509                        |
| 390.00                                      | 421.41                               | 410.51                                | 2105                                  | 2132                   | 189.75                           | 362.42                            | 552.42                           | 2466                        |
| 392.00                                      | 423.88                               | 412.99                                | 2107                                  | 2134                   | 188.82                           | 360.97                            | 550.56                           | 2472                        |
| 394.00                                      | 426.40                               | 415.50                                | 2109                                  | 2136                   | 187.86                           | 359.47                            | 548.62                           | 2519                        |
| 396.00                                      | 428.92                               | 418.02                                | 2111                                  | 2138                   | 186.91                           | 357.98                            | 546.70                           | 2514                        |
| 398.00                                      | 431.42                               | 420.52                                | 2113                                  | 2140                   | 185.98                           | 356.54                            | 544.83                           | 2497                        |
| 400.00                                      | 433.90                               | 423.00                                | 2115                                  | 2142                   | 185.08                           | 355.12                            | 543.00                           | 2484                        |
| 402.00                                      | 436.40                               | 425.50                                | 2117                                  | 2143                   | 184.16                           | 353.69                            | 541.15                           | 2503                        |
| 404.00                                      | 438.96                               | 428.06                                | 2119                                  | 2146                   | 183.22                           | 352.19                            | 539.21                           | 2552                        |
| 406.00                                      | 441.49                               | 430.59                                | 2121                                  | 2148                   | 182.30                           | 350.75                            | 537.33                           | 2531                        |
| 408.00                                      | 444.03                               | 433.13                                | 2123                                  | 2150                   | 181.38                           | 349.30                            | 535.44                           | 2539                        |
| 410.00                                      | 446.58                               | 435.68                                | 2125                                  | 2152                   | 180.46                           | 347.84                            | 533.54                           | 2553                        |
| 412.00                                      | 449.12                               | 438.22                                | 2127                                  | 2154                   | 179.56                           | 346.41                            | 531.68                           | 2543                        |
| 414.00                                      | 451.68                               | 440.78                                | 2129                                  | 2156                   | 178.65                           | 344.97                            | 529.81                           | 2555                        |
| 416.00                                      | 454.25                               | 443.35                                | 2131                                  | 2158                   | 177.75                           | 343.53                            | 527.91                           | 2571                        |
| 418.00                                      | 456.83                               | 445.93                                | 2134                                  | 2161                   | 176.84                           | 342.08                            | 526.01                           | 2582                        |
| 420.00                                      | 459.42                               | 448.52                                | 2136                                  | 2163                   | 175.93                           | 340.63                            | 524.11                           | 2594                        |
| 422.00                                      | 462.08                               | 451.18                                | 2138                                  | 2165                   | 174.99                           | 339.10                            | 522.10                           | 2652                        |
| 424.00                                      | 464.66                               | 453.76                                | 2140                                  | 2168                   | 174.10                           | 337.69                            | 520.24                           | 2584                        |
| 426.00                                      | 467.31                               | 456.41                                | 2143                                  | 2170                   | 173.18                           | 336.20                            | 518.27                           | 2647                        |
| 428.00                                      | 469.96                               | 459.06                                | 2145                                  | 2173                   | 172.26                           | 334.72                            | 516.31                           | 2653                        |
| 430.00                                      | 472.52                               | 461.62                                | 2147                                  | 2175                   | 171.43                           | 333.37                            | 514.54                           | 2560                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 432.00                                      | 475.11                               | 464.21                                | 2149                                  | 2177                   | 170.58                           | 332.00                            | 512.74                           | 2586                        |
| 434.00                                      | 477.69                               | 466.79                                | 2151                                  | 2179                   | 169.74                           | 330.64                            | 510.95                           | 2585                        |
| 436.00                                      | 480.28                               | 469.38                                | 2153                                  | 2181                   | 168.90                           | 329.29                            | 509.16                           | 2591                        |
| 438.00                                      | 482.89                               | 471.99                                | 2155                                  | 2183                   | 168.06                           | 327.92                            | 507.36                           | 2610                        |
| 440.00                                      | 485.48                               | 474.58                                | 2157                                  | 2185                   | 167.24                           | 326.60                            | 505.61                           | 2586                        |
| 442.00                                      | 488.07                               | 477.17                                | 2159                                  | 2187                   | 166.43                           | 325.27                            | 503.85                           | 2594                        |
| 444.00                                      | 490.67                               | 479.77                                | 2161                                  | 2189                   | 165.62                           | 323.96                            | 502.11                           | 2595                        |
| 446.00                                      | 493.26                               | 482.36                                | 2163                                  | 2191                   | 164.81                           | 322.65                            | 500.38                           | 2599                        |
| 448.00                                      | 495.84                               | 484.94                                | 2165                                  | 2193                   | 164.03                           | 321.38                            | 498.70                           | 2574                        |
| 450.00                                      | 498.42                               | 487.52                                | 2167                                  | 2195                   | 163.26                           | 320.11                            | 497.02                           | 2579                        |
| 452.00                                      | 501.04                               | 490.14                                | 2169                                  | 2197                   | 162.46                           | 318.80                            | 495.28                           | 2622                        |
| 454.00                                      | 503.68                               | 492.78                                | 2171                                  | 2199                   | 161.66                           | 317.49                            | 493.53                           | 2638                        |
| 456.00                                      | 506.28                               | 495.38                                | 2173                                  | 2201                   | 160.89                           | 316.22                            | 491.84                           | 2604                        |
| 458.00                                      | 508.89                               | 497.99                                | 2175                                  | 2203                   | 160.12                           | 314.96                            | 490.16                           | 2613                        |
| 460.00                                      | 511.55                               | 500.65                                | 2177                                  | 2205                   | 159.33                           | 313.65                            | 488.42                           | 2652                        |
| 462.00                                      | 514.19                               | 503.29                                | 2179                                  | 2207                   | 158.56                           | 312.38                            | 486.71                           | 2640                        |
| 464.00                                      | 516.91                               | 506.01                                | 2181                                  | 2210                   | 157.74                           | 311.02                            | 484.88                           | 2721                        |
| 466.00                                      | 519.64                               | 508.74                                | 2183                                  | 2212                   | 156.92                           | 309.65                            | 483.04                           | 2734                        |
| 468.00                                      | 522.43                               | 511.53                                | 2186                                  | 2215                   | 156.08                           | 308.23                            | 481.12                           | 2788                        |
| 470.00                                      | 525.19                               | 514.29                                | 2188                                  | 2217                   | 155.26                           | 306.86                            | 479.27                           | 2758                        |
| 472.00                                      | 528.01                               | 517.11                                | 2191                                  | 2220                   | 154.41                           | 305.43                            | 477.33                           | 2819                        |
| 474.00                                      | 530.81                               | 519.91                                | 2194                                  | 2223                   | 153.58                           | 304.03                            | 475.43                           | 2805                        |
| 476.00                                      | 533.58                               | 522.68                                | 2196                                  | 2226                   | 152.79                           | 302.70                            | 473.61                           | 2765                        |
| 478.00                                      | 536.33                               | 525.43                                | 2198                                  | 2228                   | 152.00                           | 301.37                            | 471.82                           | 2759                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 480.00                                      | 539.06                               | 528.16                                | 2201                                  | 2230                   | 151.24                           | 300.10                            | 470.09                           | 2728                        |
| 482.00                                      | 541.79                               | 530.89                                | 2203                                  | 2233                   | 150.49                           | 298.84                            | 468.38                           | 2726                        |
| 484.00                                      | 544.49                               | 533.59                                | 2205                                  | 2235                   | 149.77                           | 297.61                            | 466.72                           | 2703                        |
| 486.00                                      | 547.20                               | 536.30                                | 2207                                  | 2237                   | 149.04                           | 296.39                            | 465.06                           | 2706                        |
| 488.00                                      | 549.87                               | 538.97                                | 2209                                  | 2239                   | 148.35                           | 295.22                            | 463.48                           | 2668                        |
| 490.00                                      | 552.55                               | 541.65                                | 2211                                  | 2241                   | 147.65                           | 294.04                            | 461.88                           | 2686                        |
| 492.00                                      | 555.24                               | 544.34                                | 2213                                  | 2243                   | 146.95                           | 292.86                            | 460.29                           | 2692                        |
| 494.00                                      | 557.97                               | 547.07                                | 2215                                  | 2245                   | 146.24                           | 291.65                            | 458.64                           | 2732                        |
| 496.00                                      | 560.66                               | 549.76                                | 2217                                  | 2247                   | 145.56                           | 290.50                            | 457.07                           | 2687                        |
| 498.00                                      | 563.32                               | 552.42                                | 2219                                  | 2249                   | 144.90                           | 289.38                            | 455.55                           | 2662                        |
| 500.00                                      | 565.92                               | 555.02                                | 2220                                  | 2250                   | 144.28                           | 288.33                            | 454.14                           | 2599                        |
| 502.00                                      | 568.58                               | 557.68                                | 2222                                  | 2252                   | 143.63                           | 287.23                            | 452.65                           | 2654                        |
| 504.00                                      | 571.20                               | 560.30                                | 2223                                  | 2254                   | 143.01                           | 286.17                            | 451.21                           | 2628                        |
| 506.00                                      | 573.84                               | 562.94                                | 2225                                  | 2255                   | 142.38                           | 285.11                            | 449.77                           | 2634                        |
| 508.00                                      | 576.47                               | 565.57                                | 2227                                  | 2257                   | 141.76                           | 284.06                            | 448.34                           | 2635                        |
| 510.00                                      | 579.14                               | 568.24                                | 2228                                  | 2259                   | 141.13                           | 282.98                            | 446.87                           | 2665                        |
| 512.00                                      | 581.79                               | 570.89                                | 2230                                  | 2260                   | 140.52                           | 281.92                            | 445.43                           | 2653                        |
| 514.00                                      | 584.46                               | 573.56                                | 2232                                  | 2262                   | 139.89                           | 280.86                            | 443.98                           | 2669                        |
| 516.00                                      | 587.12                               | 576.22                                | 2233                                  | 2264                   | 139.28                           | 279.81                            | 442.55                           | 2661                        |
| 518.00                                      | 589.78                               | 578.88                                | 2235                                  | 2266                   | 138.68                           | 278.77                            | 441.13                           | 2659                        |
| 520.00                                      | 592.48                               | 581.58                                | 2237                                  | 2267                   | 138.06                           | 277.71                            | 439.67                           | 2697                        |
| 522.00                                      | 595.12                               | 584.22                                | 2238                                  | 2269                   | 137.47                           | 276.70                            | 438.28                           | 2647                        |
| 524.00                                      | 597.79                               | 586.89                                | 2240                                  | 2271                   | 136.88                           | 275.68                            | 436.88                           | 2663                        |
| 526.00                                      | 600.46                               | 589.56                                | 2242                                  | 2272                   | 136.28                           | 274.65                            | 435.48                           | 2672                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 528.00                                      | 603.18                               | 592.28                                | 2243                                  | 2274                   | 135.67                           | 273.60                            | 434.03                           | 2721                        |
| 530.00                                      | 605.93                               | 595.03                                | 2245                                  | 2276                   | 135.05                           | 272.52                            | 432.54                           | 2752                        |
| 532.00                                      | 608.65                               | 597.75                                | 2247                                  | 2278                   | 134.45                           | 271.48                            | 431.10                           | 2723                        |
| 534.00                                      | 611.36                               | 600.46                                | 2249                                  | 2280                   | 133.86                           | 270.46                            | 429.69                           | 2706                        |
| 536.00                                      | 614.10                               | 603.20                                | 2251                                  | 2282                   | 133.27                           | 269.42                            | 428.25                           | 2736                        |
| 538.00                                      | 616.82                               | 605.92                                | 2253                                  | 2283                   | 132.68                           | 268.39                            | 426.83                           | 2729                        |
| 540.00                                      | 619.52                               | 608.63                                | 2254                                  | 2285                   | 132.11                           | 267.40                            | 425.46                           | 2700                        |
| 542.00                                      | 622.27                               | 611.37                                | 2256                                  | 2287                   | 131.52                           | 266.37                            | 424.04                           | 2748                        |
| 544.00                                      | 625.12                               | 614.22                                | 2258                                  | 2289                   | 130.89                           | 265.27                            | 422.50                           | 2842                        |
| 546.00                                      | 628.01                               | 617.11                                | 2260                                  | 2292                   | 130.25                           | 264.13                            | 420.91                           | 2892                        |
| 548.00                                      | 630.95                               | 620.05                                | 2263                                  | 2294                   | 129.59                           | 262.96                            | 419.26                           | 2940                        |
| 550.00                                      | 633.84                               | 622.94                                | 2265                                  | 2297                   | 128.96                           | 261.84                            | 417.69                           | 2894                        |
| 552.00                                      | 636.74                               | 625.84                                | 2268                                  | 2299                   | 128.33                           | 260.73                            | 416.14                           | 2896                        |
| 554.00                                      | 639.59                               | 628.69                                | 2270                                  | 2302                   | 127.73                           | 259.66                            | 414.64                           | 2854                        |
| 556.00                                      | 642.51                               | 631.61                                | 2272                                  | 2304                   | 127.10                           | 258.55                            | 413.08                           | 2916                        |
| 558.00                                      | 645.43                               | 634.53                                | 2274                                  | 2307                   | 126.48                           | 257.45                            | 411.53                           | 2918                        |
| 560.00                                      | 648.33                               | 637.43                                | 2277                                  | 2309                   | 125.88                           | 256.37                            | 410.00                           | 2907                        |
| 562.00                                      | 651.25                               | 640.35                                | 2279                                  | 2311                   | 125.27                           | 255.28                            | 408.47                           | 2917                        |
| 564.00                                      | 654.18                               | 643.28                                | 2281                                  | 2314                   | 124.66                           | 254.20                            | 406.94                           | 2925                        |
| 566.00                                      | 657.09                               | 646.19                                | 2283                                  | 2316                   | 124.07                           | 253.14                            | 405.44                           | 2915                        |
| 568.00                                      | 659.99                               | 649.09                                | 2286                                  | 2319                   | 123.48                           | 252.10                            | 403.97                           | 2897                        |
| 570.00                                      | 662.87                               | 651.97                                | 2288                                  | 2321                   | 122.92                           | 251.08                            | 402.54                           | 2881                        |
| 572.00                                      | 665.79                               | 654.89                                | 2290                                  | 2323                   | 122.33                           | 250.04                            | 401.06                           | 2921                        |
| 574.00                                      | 668.67                               | 657.77                                | 2292                                  | 2325                   | 121.77                           | 249.03                            | 399.64                           | 2878                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 576.00                                      | 671.49                               | 660.59                                | 2294                                  | 2327                   | 121.24                           | 248.09                            | 398.31                           | 2819                        |
| 578.00                                      | 674.26                               | 663.36                                | 2295                                  | 2329                   | 120.74                           | 247.18                            | 397.03                           | 2777                        |
| 580.00                                      | 677.03                               | 666.13                                | 2297                                  | 2331                   | 120.24                           | 246.28                            | 395.77                           | 2767                        |
| 582.00                                      | 679.83                               | 668.93                                | 2299                                  | 2332                   | 119.73                           | 245.37                            | 394.48                           | 2795                        |
| 584.00                                      | 682.53                               | 671.63                                | 2300                                  | 2334                   | 119.26                           | 244.53                            | 393.30                           | 2708                        |
| 586.00                                      | 685.27                               | 674.37                                | 2302                                  | 2335                   | 118.78                           | 243.68                            | 392.09                           | 2740                        |
| 588.00                                      | 688.03                               | 677.13                                | 2303                                  | 2337                   | 118.30                           | 242.81                            | 390.87                           | 2758                        |
| 590.00                                      | 690.72                               | 679.82                                | 2304                                  | 2338                   | 117.85                           | 242.00                            | 389.74                           | 2683                        |
| 592.00                                      | 693.35                               | 682.45                                | 2306                                  | 2339                   | 117.42                           | 241.24                            | 388.66                           | 2630                        |
| 594.00                                      | 696.06                               | 685.16                                | 2307                                  | 2341                   | 116.96                           | 240.42                            | 387.51                           | 2711                        |
| 596.00                                      | 698.77                               | 687.87                                | 2308                                  | 2342                   | 116.51                           | 239.61                            | 386.37                           | 2713                        |
| 598.00                                      | 701.46                               | 690.56                                | 2310                                  | 2343                   | 116.07                           | 238.82                            | 385.25                           | 2693                        |
| 600.00                                      | 704.35                               | 693.45                                | 2312                                  | 2345                   | 115.56                           | 237.89                            | 383.93                           | 2892                        |
| 602.00                                      | 707.34                               | 696.44                                | 2314                                  | 2348                   | 115.02                           | 236.91                            | 382.51                           | 2987                        |
| 604.00                                      | 710.29                               | 699.39                                | 2316                                  | 2350                   | 114.50                           | 235.96                            | 381.15                           | 2946                        |
| 606.00                                      | 713.07                               | 702.17                                | 2317                                  | 2351                   | 114.04                           | 235.13                            | 379.98                           | 2777                        |
| 608.00                                      | 715.77                               | 704.87                                | 2319                                  | 2353                   | 113.62                           | 234.36                            | 379.98                           | 2709                        |
| 610.00                                      | 718.40                               | 707.50                                | 2320                                  | 2354                   | 113.22                           | 233.64                            | 378.88                           | 2624                        |
| 612.00                                      | 721.12                               | 710.22                                | 2321                                  | 2355                   | 112.79                           | 232.87                            | 377.87                           | 2719                        |
| 614.00                                      | 723.68                               | 712.78                                | 2322                                  | 2356                   | 112.42                           | 232.20                            | 376.77                           | 2560                        |
| 616.00                                      | 726.32                               | 715.42                                | 2323                                  | 2357                   | 112.03                           | 231.48                            | 375.83                           | 2639                        |
| 618.00                                      | 728.98                               | 718.08                                | 2324                                  | 2358                   | 111.63                           | 230.76                            | 374.82                           | 2662                        |
| 620.00                                      | 731.45                               | 720.55                                | 2324                                  | 2358                   | 111.29                           | 230.15                            | 373.79                           | 2474                        |
| 622.00                                      | 734.24                               | 723.34                                | 2326                                  | 2359                   | 110.85                           | 229.36                            | 372.94                           | 2786                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 624.00                                      | 736.96                               | 726.06                                | 2327                                  | 2361                   | 110.45                           | 228.61                            | 370.74                           | 2720                        |
| 626.00                                      | 739.69                               | 728.79                                | 2328                                  | 2362                   | 110.03                           | 227.87                            | 369.67                           | 2731                        |
| 628.00                                      | 742.53                               | 731.63                                | 2330                                  | 2364                   | 109.59                           | 227.05                            | 368.50                           | 2842                        |
| 630.00                                      | 745.34                               | 734.44                                | 2332                                  | 2365                   | 109.16                           | 226.27                            | 367.37                           | 2807                        |
| 632.00                                      | 748.18                               | 737.28                                | 2333                                  | 2367                   | 108.73                           | 225.47                            | 366.22                           | 2839                        |
| 634.00                                      | 751.03                               | 740.13                                | 2335                                  | 2369                   | 108.29                           | 224.66                            | 365.06                           | 2854                        |
| 636.00                                      | 753.81                               | 742.91                                | 2336                                  | 2370                   | 107.88                           | 223.91                            | 363.98                           | 2781                        |
| 638.00                                      | 756.68                               | 745.78                                | 2338                                  | 2372                   | 107.45                           | 223.11                            | 362.82                           | 2867                        |
| 640.00                                      | 759.40                               | 748.50                                | 2339                                  | 2373                   | 107.06                           | 222.40                            | 361.80                           | 2721                        |
| 642.00                                      | 762.14                               | 751.24                                | 2340                                  | 2374                   | 106.67                           | 221.68                            | 360.78                           | 2735                        |
| 644.00                                      | 764.83                               | 753.93                                | 2341                                  | 2375                   | 106.30                           | 221.00                            | 359.79                           | 2695                        |
| 646.00                                      | 767.44                               | 756.54                                | 2342                                  | 2376                   | 105.96                           | 220.37                            | 358.89                           | 2607                        |
| 648.00                                      | 769.97                               | 759.07                                | 2343                                  | 2376                   | 105.63                           | 219.78                            | 358.05                           | 2536                        |
| 650.00                                      | 772.48                               | 761.58                                | 2343                                  | 2377                   | 105.32                           | 219.21                            | 357.24                           | 2504                        |
| 652.00                                      | 774.95                               | 764.05                                | 2344                                  | 2377                   | 105.02                           | 218.66                            | 356.46                           | 2471                        |
| 654.00                                      | 777.49                               | 766.59                                | 2344                                  | 2378                   | 104.70                           | 218.07                            | 355.63                           | 2540                        |
| 656.00                                      | 779.95                               | 769.05                                | 2345                                  | 2378                   | 104.40                           | 217.53                            | 354.86                           | 2461                        |
| 658.00                                      | 782.56                               | 771.66                                | 2345                                  | 2379                   | 104.07                           | 216.91                            | 353.98                           | 2613                        |
| 660.00                                      | 784.90                               | 774.00                                | 2345                                  | 2378                   | 103.81                           | 216.44                            | 353.31                           | 2336                        |
| 662.00                                      | 787.37                               | 776.47                                | 2346                                  | 2379                   | 103.51                           | 215.90                            | 352.54                           | 2469                        |
| 664.00                                      | 789.85                               | 778.95                                | 2346                                  | 2379                   | 103.22                           | 215.36                            | 351.77                           | 2479                        |
| 666.00                                      | 792.24                               | 781.34                                | 2346                                  | 2379                   | 102.95                           | 214.87                            | 351.07                           | 2391                        |
| 668.00                                      | 794.53                               | 783.63                                | 2346                                  | 2379                   | 102.70                           | 214.42                            | 350.45                           | 2296                        |
| 670.00                                      | 796.83                               | 785.93                                | 2346                                  | 2379                   | 102.45                           | 213.97                            | 349.82                           | 2297                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 672.00                                      | 799.18                               | 788.28                                | 2346                                  | 2379                   | 102.19                           | 213.50                            | 349.15                           | 2351                        |
| 674.00                                      | 801.50                               | 790.60                                | 2346                                  | 2378                   | 101.94                           | 213.05                            | 348.51                           | 2321                        |
| 676.00                                      | 803.87                               | 792.97                                | 2346                                  | 2378                   | 101.68                           | 212.57                            | 347.84                           | 2367                        |
| 678.00                                      | 806.38                               | 795.48                                | 2347                                  | 2379                   | 101.39                           | 212.03                            | 347.06                           | 2512                        |
| 680.00                                      | 808.88                               | 797.98                                | 2347                                  | 2379                   | 101.10                           | 211.50                            | 346.30                           | 2493                        |
| 682.00                                      | 811.43                               | 800.53                                | 2348                                  | 2380                   | 100.80                           | 210.94                            | 345.49                           | 2559                        |
| 684.00                                      | 813.86                               | 802.96                                | 2348                                  | 2380                   | 100.53                           | 210.45                            | 344.79                           | 2429                        |
| 686.00                                      | 816.33                               | 805.43                                | 2348                                  | 2380                   | 100.26                           | 209.94                            | 344.06                           | 2462                        |
| 688.00                                      | 818.69                               | 807.79                                | 2348                                  | 2380                   | 100.01                           | 209.48                            | 343.41                           | 2360                        |
| 690.00                                      | 821.01                               | 810.11                                | 2348                                  | 2380                   | 99.77                            | 209.04                            | 342.78                           | 2324                        |
| 692.00                                      | 823.20                               | 812.30                                | 2348                                  | 2379                   | 99.56                            | 208.66                            | 342.24                           | 2194                        |
| 694.00                                      | 825.67                               | 814.77                                | 2348                                  | 2380                   | 99.29                            | 208.16                            | 341.52                           | 2465                        |
| 696.00                                      | 827.99                               | 817.09                                | 2348                                  | 2379                   | 99.05                            | 207.72                            | 340.90                           | 2318                        |
| 698.00                                      | 830.36                               | 819.46                                | 2348                                  | 2379                   | 98.80                            | 207.27                            | 340.25                           | 2375                        |
| 700.00                                      | 832.73                               | 821.83                                | 2348                                  | 2379                   | 98.56                            | 206.82                            | 339.61                           | 2364                        |
| 702.00                                      | 835.10                               | 824.20                                | 2348                                  | 2379                   | 98.31                            | 206.36                            | 338.96                           | 2375                        |
| 704.00                                      | 837.47                               | 826.57                                | 2348                                  | 2379                   | 98.07                            | 205.91                            | 338.31                           | 2371                        |
| 706.00                                      | 839.52                               | 828.62                                | 2347                                  | 2378                   | 97.89                            | 205.59                            | 337.87                           | 2049                        |
| 708.00                                      | 841.43                               | 830.53                                | 2346                                  | 2377                   | 97.74                            | 205.33                            | 337.51                           | 1908                        |
| 710.00                                      | 843.39                               | 832.49                                | 2345                                  | 2376                   | 97.58                            | 205.04                            | 337.12                           | 1967                        |
| 712.00                                      | 845.36                               | 834.46                                | 2344                                  | 2375                   | 97.42                            | 204.76                            | 336.73                           | 1966                        |
| 714.00                                      | 847.39                               | 836.49                                | 2343                                  | 2374                   | 97.25                            | 204.45                            | 336.30                           | 2028                        |
| 716.00                                      | 849.33                               | 838.43                                | 2342                                  | 2373                   | 97.10                            | 204.17                            | 335.92                           | 1937                        |
| 718.00                                      | 851.20                               | 840.30                                | 2341                                  | 2372                   | 96.95                            | 203.92                            | 335.58                           | 1873                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 720.00                                      | 853.15                               | 842.25                                | 2340                                  | 2371                   | 96.80                            | 203.64                            | 335.20                           | 1949                        |
| 722.00                                      | 855.07                               | 844.17                                | 2338                                  | 2370                   | 96.65                            | 203.37                            | 334.83                           | 1919                        |
| 724.00                                      | 857.07                               | 846.17                                | 2337                                  | 2369                   | 96.49                            | 203.08                            | 334.42                           | 2002                        |
| 726.00                                      | 859.00                               | 848.10                                | 2336                                  | 2368                   | 96.34                            | 202.81                            | 334.05                           | 1933                        |
| 728.00                                      | 860.97                               | 850.07                                | 2335                                  | 2367                   | 96.18                            | 202.52                            | 333.66                           | 1971                        |
| 730.00                                      | 863.00                               | 852.10                                | 2335                                  | 2366                   | 96.01                            | 202.22                            | 333.24                           | 2032                        |
| 732.00                                      | 864.96                               | 854.06                                | 2334                                  | 2365                   | 95.86                            | 201.94                            | 332.85                           | 1960                        |
| 734.00                                      | 866.87                               | 855.97                                | 2332                                  | 2364                   | 95.71                            | 201.68                            | 332.49                           | 1910                        |
| 736.00                                      | 868.64                               | 857.74                                | 2331                                  | 2362                   | 95.59                            | 201.47                            | 332.21                           | 1763                        |
| 738.00                                      | 870.47                               | 859.57                                | 2329                                  | 2361                   | 95.46                            | 201.23                            | 331.89                           | 1831                        |
| 740.00                                      | 872.27                               | 861.37                                | 2328                                  | 2360                   | 95.33                            | 201.01                            | 331.59                           | 1797                        |
| 742.00                                      | 874.16                               | 863.26                                | 2327                                  | 2358                   | 95.19                            | 200.75                            | 331.24                           | 1899                        |
| 744.00                                      | 876.01                               | 865.11                                | 2326                                  | 2357                   | 95.05                            | 200.51                            | 330.91                           | 1846                        |
| 746.00                                      | 877.92                               | 867.02                                | 2324                                  | 2356                   | 94.91                            | 200.25                            | 330.56                           | 1911                        |
| 748.00                                      | 879.92                               | 869.02                                | 2324                                  | 2355                   | 94.75                            | 199.97                            | 330.15                           | 1996                        |
| 750.00                                      | 881.81                               | 870.91                                | 2322                                  | 2354                   | 94.61                            | 199.71                            | 329.81                           | 1892                        |
| 752.00                                      | 883.81                               | 872.91                                | 2322                                  | 2353                   | 94.45                            | 199.43                            | 329.40                           | 2002                        |
| 754.00                                      | 885.81                               | 874.91                                | 2321                                  | 2352                   | 94.30                            | 199.14                            | 329.00                           | 1995                        |
| 756.00                                      | 887.82                               | 876.92                                | 2320                                  | 2352                   | 94.14                            | 198.85                            | 328.59                           | 2017                        |
| 758.00                                      | 889.85                               | 878.95                                | 2319                                  | 2351                   | 93.98                            | 198.55                            | 328.18                           | 2024                        |
| 760.00                                      | 891.81                               | 880.91                                | 2318                                  | 2350                   | 93.83                            | 198.28                            | 327.79                           | 1966                        |
| 762.00                                      | 893.82                               | 882.92                                | 2317                                  | 2349                   | 93.67                            | 197.99                            | 327.39                           | 2005                        |
| 764.00                                      | 895.71                               | 884.81                                | 2316                                  | 2348                   | 93.54                            | 197.75                            | 327.05                           | 1892                        |
| 766.00                                      | 897.77                               | 886.87                                | 2316                                  | 2347                   | 93.37                            | 197.44                            | 326.61                           | 2060                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 768.00                                      | 899.67                               | 888.77                                | 2315                                  | 2346                   | 93.23                            | 197.19                            | 326.27                           | 1900                        |
| 770.00                                      | 901.52                               | 890.62                                | 2313                                  | 2345                   | 93.10                            | 196.96                            | 325.95                           | 1847                        |
| 772.00                                      | 903.45                               | 892.55                                | 2312                                  | 2344                   | 92.96                            | 196.70                            | 325.58                           | 1936                        |
| 774.00                                      | 905.35                               | 894.45                                | 2311                                  | 2343                   | 92.83                            | 196.45                            | 325.24                           | 1894                        |
| 776.00                                      | 907.21                               | 896.31                                | 2310                                  | 2342                   | 92.69                            | 196.21                            | 324.91                           | 1866                        |
| 778.00                                      | 909.11                               | 898.21                                | 2309                                  | 2341                   | 92.56                            | 195.97                            | 324.56                           | 1892                        |
| 780.00                                      | 911.05                               | 900.15                                | 2308                                  | 2340                   | 92.42                            | 195.71                            | 324.20                           | 1945                        |
| 782.00                                      | 913.02                               | 902.12                                | 2307                                  | 2339                   | 92.27                            | 195.44                            | 323.82                           | 1971                        |
| 784.00                                      | 915.04                               | 904.14                                | 2306                                  | 2338                   | 92.12                            | 195.15                            | 323.41                           | 2020                        |
| 786.00                                      | 917.13                               | 906.23                                | 2306                                  | 2338                   | 91.95                            | 194.84                            | 322.97                           | 2090                        |
| 788.00                                      | 919.12                               | 908.22                                | 2305                                  | 2337                   | 91.80                            | 194.57                            | 322.58                           | 1983                        |
| 790.00                                      | 921.12                               | 910.22                                | 2304                                  | 2336                   | 91.65                            | 194.29                            | 322.18                           | 2010                        |
| 792.00                                      | 923.28                               | 912.38                                | 2304                                  | 2336                   | 91.48                            | 193.96                            | 321.71                           | 2156                        |
| 794.00                                      | 925.22                               | 914.32                                | 2303                                  | 2335                   | 91.34                            | 193.71                            | 321.35                           | 1942                        |
| 796.00                                      | 927.03                               | 916.13                                | 2302                                  | 2334                   | 91.22                            | 193.49                            | 321.05                           | 1810                        |
| 798.00                                      | 928.93                               | 918.03                                | 2301                                  | 2333                   | 91.09                            | 193.25                            | 320.70                           | 1899                        |
| 800.00                                      | 931.00                               | 920.10                                | 2300                                  | 2332                   | 90.93                            | 192.95                            | 320.28                           | 2068                        |
| 802.00                                      | 932.94                               | 922.04                                | 2299                                  | 2331                   | 90.79                            | 192.70                            | 319.92                           | 1940                        |
| 804.00                                      | 934.82                               | 923.92                                | 2298                                  | 2330                   | 90.66                            | 192.46                            | 319.59                           | 1879                        |
| 806.00                                      | 936.66                               | 925.76                                | 2297                                  | 2329                   | 90.54                            | 192.24                            | 319.27                           | 1844                        |
| 808.00                                      | 938.58                               | 927.68                                | 2296                                  | 2328                   | 90.41                            | 191.99                            | 318.93                           | 1918                        |
| 810.00                                      | 940.41                               | 929.51                                | 2295                                  | 2327                   | 90.29                            | 191.77                            | 318.62                           | 1827                        |
| 812.00                                      | 942.47                               | 931.57                                | 2295                                  | 2326                   | 90.13                            | 191.48                            | 318.20                           | 2063                        |
| 814.00                                      | 944.54                               | 933.64                                | 2294                                  | 2326                   | 89.98                            | 191.19                            | 317.78                           | 2071                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 816.00                                      | 946.57                               | 935.67                                | 2293                                  | 2325                   | 89.83                            | 190.91                            | 317.38                           | 2026                        |
| 818.00                                      | 948.66                               | 937.76                                | 2293                                  | 2324                   | 89.67                            | 190.61                            | 316.95                           | 2088                        |
| 820.00                                      | 950.61                               | 939.71                                | 2292                                  | 2324                   | 89.54                            | 190.36                            | 316.59                           | 1953                        |
| 822.00                                      | 952.70                               | 941.80                                | 2291                                  | 2323                   | 89.38                            | 190.06                            | 316.16                           | 2087                        |
| 824.00                                      | 954.76                               | 943.86                                | 2291                                  | 2323                   | 89.23                            | 189.78                            | 315.74                           | 2064                        |
| 826.00                                      | 956.71                               | 945.81                                | 2290                                  | 2322                   | 89.09                            | 189.53                            | 315.38                           | 1949                        |
| 828.00                                      | 958.71                               | 947.81                                | 2289                                  | 2321                   | 88.95                            | 189.26                            | 315.00                           | 2005                        |
| 830.00                                      | 960.68                               | 949.78                                | 2289                                  | 2320                   | 88.81                            | 189.00                            | 314.63                           | 1969                        |
| 832.00                                      | 962.63                               | 951.73                                | 2288                                  | 2319                   | 88.68                            | 188.76                            | 314.27                           | 1949                        |
| 834.00                                      | 964.67                               | 953.77                                | 2287                                  | 2319                   | 88.54                            | 188.48                            | 313.88                           | 2035                        |
| 836.00                                      | 966.71                               | 955.81                                | 2287                                  | 2318                   | 88.39                            | 188.21                            | 313.48                           | 2038                        |
| 838.00                                      | 968.75                               | 957.85                                | 2286                                  | 2317                   | 88.24                            | 187.93                            | 313.08                           | 2045                        |
| 840.00                                      | 970.73                               | 959.83                                | 2285                                  | 2317                   | 88.11                            | 187.67                            | 312.71                           | 1978                        |
| 842.00                                      | 972.76                               | 961.86                                | 2285                                  | 2316                   | 87.96                            | 187.40                            | 312.31                           | 2033                        |
| 844.00                                      | 974.78                               | 963.88                                | 2284                                  | 2315                   | 87.82                            | 187.14                            | 311.93                           | 2016                        |
| 846.00                                      | 976.75                               | 965.85                                | 2283                                  | 2315                   | 87.69                            | 186.88                            | 311.56                           | 1971                        |
| 848.00                                      | 978.73                               | 967.83                                | 2283                                  | 2314                   | 87.55                            | 186.63                            | 311.20                           | 1976                        |
| 850.00                                      | 980.77                               | 969.87                                | 2282                                  | 2313                   | 87.41                            | 186.36                            | 310.80                           | 2041                        |
| 852.00                                      | 982.70                               | 971.80                                | 2281                                  | 2313                   | 87.29                            | 186.12                            | 310.46                           | 1928                        |
| 854.00                                      | 984.67                               | 973.77                                | 2280                                  | 2312                   | 87.15                            | 185.87                            | 310.10                           | 1978                        |
| 856.00                                      | 986.64                               | 975.74                                | 2280                                  | 2311                   | 87.02                            | 185.62                            | 309.74                           | 1971                        |
| 858.00                                      | 988.68                               | 977.78                                | 2279                                  | 2310                   | 86.88                            | 185.35                            | 309.34                           | 2040                        |
| 860.00                                      | 990.74                               | 979.84                                | 2279                                  | 2310                   | 86.73                            | 185.08                            | 308.94                           | 2059                        |
| 862.00                                      | 992.79                               | 981.89                                | 2278                                  | 2309                   | 86.59                            | 184.81                            | 308.55                           | 2052                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 864.00                                      | 994.85                               | 983.95                                | 2278                                  | 2309                   | 86.45                            | 184.54                            | 308.15                           | 2057                        |
| 866.00                                      | 996.90                               | 986.00                                | 2277                                  | 2308                   | 86.31                            | 184.27                            | 307.75                           | 2046                        |
| 868.00                                      | 998.96                               | 988.06                                | 2277                                  | 2308                   | 86.17                            | 184.00                            | 307.36                           | 2060                        |
| 870.00                                      | 1001.15                              | 990.25                                | 2276                                  | 2307                   | 86.01                            | 183.69                            | 306.90                           | 2190                        |
| 872.00                                      | 1003.25                              | 992.35                                | 2276                                  | 2307                   | 85.86                            | 183.40                            | 306.48                           | 2100                        |
| 874.00                                      | 1005.34                              | 994.44                                | 2276                                  | 2306                   | 85.71                            | 183.12                            | 306.07                           | 2094                        |
| 876.00                                      | 1007.40                              | 996.50                                | 2275                                  | 2306                   | 85.57                            | 182.86                            | 305.67                           | 2059                        |
| 878.00                                      | 1009.54                              | 998.64                                | 2275                                  | 2306                   | 85.42                            | 182.56                            | 305.24                           | 2140                        |
| 880.00                                      | 1011.58                              | 1000.68                               | 2274                                  | 2305                   | 85.28                            | 182.30                            | 304.86                           | 2041                        |
| 882.00                                      | 1013.73                              | 1002.83                               | 2274                                  | 2305                   | 85.13                            | 182.01                            | 304.42                           | 2146                        |
| 884.00                                      | 1015.79                              | 1004.89                               | 2273                                  | 2304                   | 84.99                            | 181.74                            | 304.03                           | 2058                        |
| 886.00                                      | 1017.86                              | 1006.96                               | 2273                                  | 2304                   | 84.85                            | 181.48                            | 303.64                           | 2071                        |
| 888.00                                      | 1020.13                              | 1009.23                               | 2273                                  | 2304                   | 84.68                            | 181.15                            | 303.14                           | 2274                        |
| 890.00                                      | 1022.16                              | 1011.26                               | 2272                                  | 2303                   | 84.55                            | 180.89                            | 302.77                           | 2030                        |
| 892.00                                      | 1024.28                              | 1013.38                               | 2272                                  | 2303                   | 84.40                            | 180.61                            | 302.35                           | 2123                        |
| 894.00                                      | 1026.24                              | 1015.34                               | 2271                                  | 2302                   | 84.28                            | 180.37                            | 302.00                           | 1960                        |
| 896.00                                      | 1028.29                              | 1017.39                               | 2271                                  | 2301                   | 84.15                            | 180.12                            | 301.62                           | 2046                        |
| 898.00                                      | 1030.33                              | 1019.43                               | 2270                                  | 2301                   | 84.01                            | 179.86                            | 301.25                           | 2038                        |
| 900.00                                      | 1032.45                              | 1021.55                               | 2270                                  | 2300                   | 83.87                            | 179.58                            | 300.83                           | 2125                        |
| 902.00                                      | 1034.58                              | 1023.68                               | 2270                                  | 2300                   | 83.72                            | 179.30                            | 300.42                           | 2128                        |
| 904.00                                      | 1036.64                              | 1025.74                               | 2269                                  | 2300                   | 83.59                            | 179.04                            | 300.03                           | 2064                        |
| 906.00                                      | 1038.72                              | 1027.82                               | 2269                                  | 2299                   | 83.45                            | 178.78                            | 299.64                           | 2076                        |
| 908.00                                      | 1040.75                              | 1029.85                               | 2268                                  | 2299                   | 83.32                            | 178.53                            | 299.27                           | 2034                        |
| 910.00                                      | 1042.73                              | 1031.83                               | 2268                                  | 2298                   | 83.20                            | 178.29                            | 298.92                           | 1979                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 912.00                                      | 1044.73                              | 1033.83                               | 2267                                  | 2297                   | 83.08                            | 178.05                            | 298.57                           | 2001                        |
| 914.00                                      | 1046.75                              | 1035.85                               | 2267                                  | 2297                   | 82.95                            | 177.81                            | 298.21                           | 2017                        |
| 916.00                                      | 1048.84                              | 1037.94                               | 2266                                  | 2296                   | 82.81                            | 177.55                            | 297.81                           | 2090                        |
| 918.00                                      | 1050.84                              | 1039.94                               | 2266                                  | 2296                   | 82.69                            | 177.31                            | 297.46                           | 1994                        |
| 920.00                                      | 1052.88                              | 1041.98                               | 2265                                  | 2295                   | 82.56                            | 177.06                            | 297.09                           | 2043                        |
| 922.00                                      | 1054.94                              | 1044.04                               | 2265                                  | 2295                   | 82.43                            | 176.80                            | 296.71                           | 2064                        |
| 924.00                                      | 1057.03                              | 1046.13                               | 2264                                  | 2294                   | 82.29                            | 176.54                            | 296.32                           | 2089                        |
| 926.00                                      | 1059.05                              | 1048.15                               | 2264                                  | 2294                   | 82.17                            | 176.30                            | 295.96                           | 2022                        |
| 928.00                                      | 1061.12                              | 1050.22                               | 2263                                  | 2293                   | 82.04                            | 176.05                            | 295.58                           | 2067                        |
| 930.00                                      | 1063.15                              | 1052.25                               | 2263                                  | 2293                   | 81.91                            | 175.80                            | 295.22                           | 2029                        |
| 932.00                                      | 1065.18                              | 1054.28                               | 2262                                  | 2292                   | 81.79                            | 175.56                            | 294.86                           | 2033                        |
| 934.00                                      | 1067.25                              | 1056.35                               | 2262                                  | 2292                   | 81.66                            | 175.31                            | 294.48                           | 2069                        |
| 936.00                                      | 1069.31                              | 1058.41                               | 2262                                  | 2291                   | 81.53                            | 175.06                            | 294.11                           | 2059                        |
| 938.00                                      | 1071.39                              | 1060.49                               | 2261                                  | 2291                   | 81.40                            | 174.80                            | 293.73                           | 2082                        |
| 940.00                                      | 1073.47                              | 1062.57                               | 2261                                  | 2290                   | 81.27                            | 174.55                            | 293.35                           | 2079                        |
| 942.00                                      | 1075.55                              | 1064.65                               | 2260                                  | 2290                   | 81.14                            | 174.30                            | 292.97                           | 2080                        |
| 944.00                                      | 1077.67                              | 1066.77                               | 2260                                  | 2290                   | 81.00                            | 174.04                            | 292.58                           | 2115                        |
| 946.00                                      | 1079.77                              | 1068.87                               | 2260                                  | 2289                   | 80.87                            | 173.78                            | 292.19                           | 2099                        |
| 948.00                                      | 1081.89                              | 1070.99                               | 2259                                  | 2289                   | 80.74                            | 173.52                            | 291.80                           | 2128                        |
| 950.00                                      | 1084.03                              | 1073.13                               | 2259                                  | 2289                   | 80.60                            | 173.25                            | 291.40                           | 2133                        |
| 952.00                                      | 1086.16                              | 1075.26                               | 2259                                  | 2288                   | 80.47                            | 172.99                            | 291.00                           | 2134                        |
| 954.00                                      | 1088.25                              | 1077.35                               | 2259                                  | 2288                   | 80.34                            | 172.74                            | 290.62                           | 2090                        |
| 956.00                                      | 1090.35                              | 1079.45                               | 2258                                  | 2287                   | 80.21                            | 172.48                            | 290.24                           | 2102                        |
| 958.00                                      | 1092.45                              | 1081.55                               | 2258                                  | 2287                   | 80.08                            | 172.23                            | 289.86                           | 2095                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 960.00                                      | 1094.54                              | 1083.64                               | 2258                                  | 2287                   | 79.95                            | 171.98                            | 289.48                           | 2091                        |
| 962.00                                      | 1096.64                              | 1085.74                               | 2257                                  | 2286                   | 79.82                            | 171.73                            | 289.10                           | 2103                        |
| 964.00                                      | 1098.83                              | 1087.93                               | 2257                                  | 2286                   | 79.68                            | 171.45                            | 288.69                           | 2184                        |
| 966.00                                      | 1100.87                              | 1089.97                               | 2257                                  | 2286                   | 79.56                            | 171.22                            | 288.33                           | 2047                        |
| 968.00                                      | 1102.91                              | 1092.01                               | 2256                                  | 2285                   | 79.44                            | 170.98                            | 287.98                           | 2034                        |
| 970.00                                      | 1105.02                              | 1094.12                               | 2256                                  | 2285                   | 79.32                            | 170.73                            | 287.60                           | 2113                        |
| 972.00                                      | 1107.17                              | 1096.27                               | 2256                                  | 2285                   | 79.18                            | 170.47                            | 287.20                           | 2146                        |
| 974.00                                      | 1109.22                              | 1098.32                               | 2255                                  | 2284                   | 79.06                            | 170.23                            | 286.85                           | 2058                        |
| 976.00                                      | 1111.35                              | 1100.45                               | 2255                                  | 2284                   | 78.93                            | 169.98                            | 286.46                           | 2121                        |
| 978.00                                      | 1113.48                              | 1102.58                               | 2255                                  | 2283                   | 78.80                            | 169.73                            | 286.08                           | 2135                        |
| 980.00                                      | 1115.59                              | 1104.69                               | 2254                                  | 2283                   | 78.68                            | 169.48                            | 285.70                           | 2114                        |
| 982.00                                      | 1117.93                              | 1107.03                               | 2255                                  | 2283                   | 78.52                            | 169.17                            | 285.22                           | 2334                        |
| 984.00                                      | 1120.01                              | 1109.11                               | 2254                                  | 2283                   | 78.40                            | 168.93                            | 284.86                           | 2081                        |
| 986.00                                      | 1122.12                              | 1111.22                               | 2254                                  | 2283                   | 78.28                            | 168.68                            | 284.49                           | 2107                        |
| 988.00                                      | 1124.25                              | 1113.35                               | 2254                                  | 2282                   | 78.15                            | 168.43                            | 284.11                           | 2139                        |
| 990.00                                      | 1126.41                              | 1115.51                               | 2254                                  | 2282                   | 78.02                            | 168.17                            | 283.71                           | 2159                        |
| 992.00                                      | 1128.48                              | 1117.58                               | 2253                                  | 2282                   | 77.90                            | 167.94                            | 283.36                           | 2062                        |
| 994.00                                      | 1130.58                              | 1119.68                               | 2253                                  | 2281                   | 77.78                            | 167.70                            | 282.99                           | 2102                        |
| 996.00                                      | 1132.64                              | 1121.74                               | 2252                                  | 2281                   | 77.66                            | 167.47                            | 282.64                           | 2065                        |
| 998.00                                      | 1134.69                              | 1123.79                               | 2252                                  | 2280                   | 77.54                            | 167.24                            | 282.30                           | 2048                        |
| 1000.00                                     | 1136.79                              | 1125.89                               | 2252                                  | 2280                   | 77.42                            | 167.00                            | 281.93                           | 2104                        |
| 1002.00                                     | 1138.97                              | 1128.07                               | 2252                                  | 2280                   | 77.29                            | 166.74                            | 281.54                           | 2177                        |
| 1004.00                                     | 1141.09                              | 1130.19                               | 2251                                  | 2280                   | 77.17                            | 166.50                            | 281.17                           | 2117                        |
| 1006.00                                     | 1143.29                              | 1132.39                               | 2251                                  | 2279                   | 77.04                            | 166.23                            | 280.76                           | 2202                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1008.00                                     | 1145.57                              | 1134.67                               | 2251                                  | 2279                   | 76.89                            | 165.95                            | 280.33                           | 2283                        |
| 1010.00                                     | 1147.74                              | 1136.84                               | 2251                                  | 2279                   | 76.77                            | 165.70                            | 279.94                           | 2170                        |
| 1012.00                                     | 1149.93                              | 1139.03                               | 2251                                  | 2279                   | 76.64                            | 165.44                            | 279.54                           | 2188                        |
| 1014.00                                     | 1152.16                              | 1141.26                               | 2251                                  | 2279                   | 76.50                            | 165.17                            | 279.13                           | 2226                        |
| 1016.00                                     | 1154.34                              | 1143.44                               | 2251                                  | 2279                   | 76.37                            | 164.92                            | 278.74                           | 2181                        |
| 1018.00                                     | 1156.58                              | 1145.68                               | 2251                                  | 2279                   | 76.24                            | 164.65                            | 278.33                           | 2243                        |
| 1020.00                                     | 1158.82                              | 1147.92                               | 2251                                  | 2279                   | 76.11                            | 164.38                            | 277.92                           | 2239                        |
| 1022.00                                     | 1161.08                              | 1150.18                               | 2251                                  | 2279                   | 75.97                            | 164.11                            | 277.50                           | 2264                        |
| 1024.00                                     | 1163.37                              | 1152.47                               | 2251                                  | 2279                   | 75.83                            | 163.83                            | 277.07                           | 2290                        |
| 1026.00                                     | 1165.69                              | 1154.79                               | 2251                                  | 2279                   | 75.69                            | 163.54                            | 276.62                           | 2317                        |
| 1028.00                                     | 1167.95                              | 1157.05                               | 2251                                  | 2279                   | 75.55                            | 163.27                            | 276.21                           | 2256                        |
| 1030.00                                     | 1170.14                              | 1159.24                               | 2251                                  | 2278                   | 75.43                            | 163.02                            | 275.82                           | 2191                        |
| 1032.00                                     | 1172.44                              | 1161.54                               | 2251                                  | 2278                   | 75.29                            | 162.74                            | 275.39                           | 2299                        |
| 1034.00                                     | 1174.81                              | 1163.91                               | 2251                                  | 2279                   | 75.14                            | 162.45                            | 274.93                           | 2379                        |
| 1036.00                                     | 1177.10                              | 1166.20                               | 2251                                  | 2279                   | 75.00                            | 162.17                            | 274.51                           | 2287                        |
| 1038.00                                     | 1179.37                              | 1168.47                               | 2251                                  | 2279                   | 74.87                            | 161.91                            | 274.09                           | 2268                        |
| 1040.00                                     | 1181.66                              | 1170.76                               | 2251                                  | 2279                   | 74.73                            | 161.63                            | 273.67                           | 2288                        |
| 1042.00                                     | 1183.84                              | 1172.94                               | 2251                                  | 2278                   | 74.61                            | 161.39                            | 273.29                           | 2182                        |
| 1044.00                                     | 1186.07                              | 1175.17                               | 2251                                  | 2278                   | 74.48                            | 161.13                            | 272.90                           | 2226                        |
| 1046.00                                     | 1188.32                              | 1177.42                               | 2251                                  | 2278                   | 74.35                            | 160.87                            | 272.49                           | 2255                        |
| 1048.00                                     | 1190.60                              | 1179.70                               | 2251                                  | 2278                   | 74.22                            | 160.61                            | 272.08                           | 2275                        |
| 1050.00                                     | 1192.87                              | 1181.97                               | 2251                                  | 2278                   | 74.09                            | 160.34                            | 271.67                           | 2277                        |
| 1052.00                                     | 1195.09                              | 1184.19                               | 2251                                  | 2278                   | 73.97                            | 160.09                            | 271.29                           | 2214                        |
| 1054.00                                     | 1197.34                              | 1186.44                               | 2251                                  | 2278                   | 73.84                            | 159.84                            | 270.89                           | 2256                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1056.00                                     | 1199.64                              | 1188.74                               | 2251                                  | 2278                   | 73.71                            | 159.57                            | 270.47                           | 2297                        |
| 1058.00                                     | 1201.86                              | 1190.96                               | 2251                                  | 2278                   | 73.58                            | 159.32                            | 270.09                           | 2220                        |
| 1060.00                                     | 1204.18                              | 1193.28                               | 2251                                  | 2278                   | 73.45                            | 159.05                            | 269.66                           | 2319                        |
| 1062.00                                     | 1206.44                              | 1195.54                               | 2251                                  | 2278                   | 73.32                            | 158.79                            | 269.27                           | 2260                        |
| 1064.00                                     | 1208.58                              | 1197.68                               | 2251                                  | 2278                   | 73.21                            | 158.57                            | 268.92                           | 2138                        |
| 1066.00                                     | 1210.73                              | 1199.83                               | 2251                                  | 2278                   | 73.09                            | 158.34                            | 268.56                           | 2156                        |
| 1068.00                                     | 1213.03                              | 1202.13                               | 2251                                  | 2278                   | 72.96                            | 158.07                            | 268.15                           | 2293                        |
| 1070.00                                     | 1215.23                              | 1204.33                               | 2251                                  | 2278                   | 72.84                            | 157.83                            | 267.78                           | 2209                        |
| 1072.00                                     | 1217.54                              | 1206.64                               | 2251                                  | 2278                   | 72.71                            | 157.57                            | 267.37                           | 2310                        |
| 1074.00                                     | 1219.74                              | 1208.84                               | 2251                                  | 2277                   | 72.59                            | 157.33                            | 267.00                           | 2200                        |
| 1076.00                                     | 1222.06                              | 1211.16                               | 2251                                  | 2278                   | 72.46                            | 157.07                            | 266.59                           | 2311                        |
| 1078.00                                     | 1224.40                              | 1213.50                               | 2251                                  | 2278                   | 72.33                            | 156.80                            | 266.16                           | 2345                        |
| 1080.00                                     | 1226.57                              | 1215.67                               | 2251                                  | 2277                   | 72.22                            | 156.57                            | 265.81                           | 2170                        |
| 1082.00                                     | 1228.73                              | 1217.83                               | 2251                                  | 2277                   | 72.10                            | 156.34                            | 265.46                           | 2162                        |
| 1084.00                                     | 1230.92                              | 1220.02                               | 2251                                  | 2277                   | 71.99                            | 156.11                            | 265.10                           | 2189                        |
| 1086.00                                     | 1233.12                              | 1222.22                               | 2251                                  | 2277                   | 71.87                            | 155.88                            | 264.73                           | 2200                        |
| 1088.00                                     | 1235.32                              | 1224.42                               | 2251                                  | 2277                   | 71.76                            | 155.64                            | 264.37                           | 2203                        |
| 1090.00                                     | 1237.54                              | 1226.64                               | 2251                                  | 2277                   | 71.64                            | 155.41                            | 264.00                           | 2214                        |
| 1092.00                                     | 1239.79                              | 1228.89                               | 2251                                  | 2277                   | 71.52                            | 155.17                            | 263.63                           | 2248                        |
| 1094.00                                     | 1242.16                              | 1231.26                               | 2251                                  | 2277                   | 71.39                            | 154.89                            | 263.20                           | 2374                        |
| 1096.00                                     | 1244.56                              | 1233.66                               | 2251                                  | 2277                   | 71.25                            | 154.62                            | 262.77                           | 2396                        |
| 1098.00                                     | 1246.91                              | 1236.01                               | 2251                                  | 2277                   | 71.12                            | 154.35                            | 262.35                           | 2351                        |
| 1100.00                                     | 1249.12                              | 1238.22                               | 2251                                  | 2277                   | 71.01                            | 154.12                            | 261.99                           | 2217                        |
| 1102.00                                     | 1251.59                              | 1240.69                               | 2252                                  | 2277                   | 70.86                            | 153.83                            | 261.53                           | 2465                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1104.00                                     | 1253.95                              | 1243.05                               | 2252                                  | 2278                   | 70.73                            | 153.57                            | 261.11                           | 2362                        |
| 1106.00                                     | 1256.37                              | 1245.47                               | 2252                                  | 2278                   | 70.60                            | 153.29                            | 260.68                           | 2419                        |
| 1108.00                                     | 1258.77                              | 1247.87                               | 2252                                  | 2278                   | 70.46                            | 153.02                            | 260.25                           | 2397                        |
| 1110.00                                     | 1261.33                              | 1250.43                               | 2253                                  | 2279                   | 70.31                            | 152.71                            | 259.76                           | 2561                        |
| 1112.00                                     | 1263.71                              | 1252.81                               | 2253                                  | 2279                   | 70.18                            | 152.44                            | 259.34                           | 2385                        |
| 1114.00                                     | 1266.32                              | 1255.42                               | 2254                                  | 2279                   | 70.03                            | 152.12                            | 258.84                           | 2602                        |
| 1116.00                                     | 1269.46                              | 1258.56                               | 2255                                  | 2281                   | 69.80                            | 151.65                            | 258.08                           | 3143                        |
| 1118.00                                     | 1272.61                              | 1261.71                               | 2257                                  | 2283                   | 69.57                            | 151.18                            | 257.33                           | 3149                        |
| 1120.00                                     | 1275.26                              | 1264.36                               | 2258                                  | 2284                   | 69.41                            | 150.86                            | 256.81                           | 2648                        |
| 1122.00                                     | 1278.33                              | 1267.43                               | 2259                                  | 2286                   | 69.20                            | 150.41                            | 256.10                           | 3079                        |
| 1124.00                                     | 1281.43                              | 1270.53                               | 2261                                  | 2287                   | 68.98                            | 149.97                            | 255.39                           | 3093                        |
| 1126.00                                     | 1283.95                              | 1273.05                               | 2261                                  | 2288                   | 68.84                            | 149.68                            | 254.93                           | 2524                        |
| 1128.00                                     | 1286.58                              | 1275.68                               | 2262                                  | 2288                   | 68.69                            | 149.37                            | 254.43                           | 2627                        |
| 1130.00                                     | 1289.04                              | 1278.14                               | 2262                                  | 2289                   | 68.56                            | 149.09                            | 253.99                           | 2465                        |
| 1132.00                                     | 1291.70                              | 1280.80                               | 2263                                  | 2289                   | 68.40                            | 148.77                            | 253.49                           | 2658                        |
| 1134.00                                     | 1294.41                              | 1283.51                               | 2264                                  | 2290                   | 68.24                            | 148.44                            | 252.96                           | 2707                        |
| 1136.00                                     | 1297.32                              | 1286.42                               | 2265                                  | 2291                   | 68.05                            | 148.06                            | 252.35                           | 2911                        |
| 1138.00                                     | 1300.24                              | 1289.34                               | 2266                                  | 2293                   | 67.87                            | 147.68                            | 251.73                           | 2924                        |
| 1140.00                                     | 1303.30                              | 1292.40                               | 2267                                  | 2294                   | 67.67                            | 147.26                            | 251.05                           | 3061                        |
| 1142.00                                     | 1305.89                              | 1294.99                               | 2268                                  | 2295                   | 67.52                            | 146.96                            | 250.59                           | 2584                        |
| 1144.00                                     | 1308.55                              | 1297.65                               | 2269                                  | 2295                   | 67.37                            | 146.65                            | 250.09                           | 2659                        |
| 1146.00                                     | 1311.33                              | 1300.43                               | 2270                                  | 2296                   | 67.21                            | 146.31                            | 249.55                           | 2784                        |
| 1148.00                                     | 1314.17                              | 1303.27                               | 2271                                  | 2297                   | 67.04                            | 145.96                            | 248.98                           | 2841                        |
| 1150.00                                     | 1317.12                              | 1306.22                               | 2272                                  | 2299                   | 66.85                            | 145.58                            | 248.37                           | 2945                        |

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WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1152.00                                     | 1320.04                              | 1309.14                               | 2273                                  | 2300                   | 66.68                            | 145.21                            | 247.77                           | 2926                        |
| 1154.00                                     | 1323.10                              | 1312.20                               | 2274                                  | 2301                   | 66.48                            | 144.80                            | 247.12                           | 3061                        |
| 1156.00                                     | 1325.93                              | 1315.03                               | 2275                                  | 2302                   | 66.31                            | 144.46                            | 246.57                           | 2823                        |
| 1158.00                                     | 1329.03                              | 1318.13                               | 2277                                  | 2304                   | 66.11                            | 144.05                            | 245.90                           | 3107                        |
| 1160.00                                     | 1332.10                              | 1321.20                               | 2278                                  | 2306                   | 65.92                            | 143.64                            | 245.25                           | 3066                        |
| 1162.00                                     | 1335.27                              | 1324.37                               | 2279                                  | 2307                   | 65.72                            | 143.22                            | 244.56                           | 3175                        |
| 1164.00                                     | 1338.48                              | 1327.58                               | 2281                                  | 2309                   | 65.51                            | 142.78                            | 243.86                           | 3208                        |
| 1166.00                                     | 1341.71                              | 1330.81                               | 2283                                  | 2311                   | 65.30                            | 142.34                            | 243.15                           | 3229                        |
| 1168.00                                     | 1344.99                              | 1334.09                               | 2284                                  | 2313                   | 65.08                            | 141.89                            | 242.42                           | 3273                        |
| 1170.00                                     | 1348.24                              | 1337.34                               | 2286                                  | 2315                   | 64.87                            | 141.45                            | 241.71                           | 3251                        |
| 1172.00                                     | 1351.43                              | 1340.53                               | 2288                                  | 2317                   | 64.67                            | 141.03                            | 241.02                           | 3196                        |
| 1174.00                                     | 1354.78                              | 1343.88                               | 2289                                  | 2319                   | 64.45                            | 140.57                            | 240.28                           | 3349                        |
| 1176.00                                     | 1357.91                              | 1347.01                               | 2291                                  | 2321                   | 64.26                            | 140.17                            | 239.63                           | 3129                        |
| 1178.00                                     | 1361.05                              | 1350.15                               | 2292                                  | 2322                   | 64.06                            | 139.77                            | 238.98                           | 3139                        |
| 1180.00                                     | 1363.97                              | 1353.07                               | 2293                                  | 2323                   | 63.90                            | 139.43                            | 238.43                           | 2921                        |
| 1182.00                                     | 1367.04                              | 1356.14                               | 2295                                  | 2325                   | 63.72                            | 139.05                            | 237.82                           | 3069                        |
| 1184.00                                     | 1370.36                              | 1359.46                               | 2296                                  | 2327                   | 63.51                            | 138.61                            | 237.11                           | 3316                        |
| 1186.00                                     | 1373.47                              | 1362.57                               | 2298                                  | 2328                   | 63.32                            | 138.23                            | 236.48                           | 3114                        |
| 1188.00                                     | 1376.73                              | 1365.83                               | 2299                                  | 2330                   | 63.12                            | 137.81                            | 235.80                           | 3260                        |
| 1190.00                                     | 1379.79                              | 1368.89                               | 2301                                  | 2332                   | 62.95                            | 137.44                            | 235.21                           | 3060                        |
| 1192.00                                     | 1382.73                              | 1371.83                               | 2302                                  | 2333                   | 62.79                            | 137.11                            | 234.67                           | 2943                        |
| 1194.00                                     | 1385.59                              | 1374.69                               | 2303                                  | 2334                   | 62.64                            | 136.79                            | 234.16                           | 2855                        |
| 1196.00                                     | 1388.67                              | 1377.77                               | 2304                                  | 2335                   | 62.46                            | 136.43                            | 233.56                           | 3080                        |
| 1198.00                                     | 1391.79                              | 1380.89                               | 2305                                  | 2337                   | 62.28                            | 136.05                            | 232.96                           | 3123                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S. | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|--|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1200.00                                     | 1394.98                              | 1384.08                               | 2307                                   | 2339                   | 62.10                            | 135.66                            | 232.33                           | 3186                        |
| 1202.00                                     | 1398.04                              | 1387.14                               | 2308                                   | 2340                   | 61.93                            | 135.31                            | 231.75                           | 3063                        |
| 1204.00                                     | 1401.25                              | 1390.35                               | 2310                                   | 2342                   | 61.74                            | 134.92                            | 231.11                           | 3208                        |
| 1206.00                                     | 1404.30                              | 1393.40                               | 2311                                   | 2343                   | 61.57                            | 134.57                            | 230.55                           | 3054                        |
| 1208.00                                     | 1407.24                              | 1396.34                               | 2312                                   | 2344                   | 61.42                            | 134.25                            | 230.02                           | 2941                        |
| 1210.00                                     | 1410.15                              | 1399.25                               | 2313                                   | 2345                   | 61.27                            | 133.94                            | 229.52                           | 2902                        |
| 1212.00                                     | 1413.21                              | 1402.31                               | 2314                                   | 2347                   | 61.10                            | 133.59                            | 228.95                           | 3064                        |
| 1214.00                                     | 1416.22                              | 1405.32                               | 2315                                   | 2348                   | 60.95                            | 133.26                            | 228.41                           | 3009                        |
| 1216.00                                     | 1419.24                              | 1408.34                               | 2316                                   | 2349                   | 60.79                            | 132.92                            | 227.87                           | 3020                        |
| 1218.00                                     | 1422.08                              | 1411.18                               | 2317                                   | 2350                   | 60.65                            | 132.63                            | 227.40                           | 2843                        |
| 1220.00                                     | 1425.12                              | 1414.22                               | 2318                                   | 2351                   | 60.49                            | 132.29                            | 226.85                           | 3041                        |
| 1222.00                                     | 1428.25                              | 1417.35                               | 2320                                   | 2353                   | 60.32                            | 131.94                            | 226.27                           | 3129                        |
| 1224.00                                     | 1431.24                              | 1420.34                               | 2321                                   | 2354                   | 60.16                            | 131.62                            | 225.75                           | 2985                        |
| 1226.00                                     | 1434.22                              | 1423.32                               | 2322                                   | 2355                   | 60.01                            | 131.30                            | 225.24                           | 2979                        |
| 1228.00                                     | 1437.21                              | 1426.31                               | 2323                                   | 2356                   | 59.86                            | 130.99                            | 224.72                           | 2990                        |
| 1230.00                                     | 1440.27                              | 1429.37                               | 2324                                   | 2358                   | 59.70                            | 130.66                            | 224.18                           | 3060                        |
| 1232.00                                     | 1443.22                              | 1432.32                               | 2325                                   | 2359                   | 59.56                            | 130.35                            | 223.69                           | 2949                        |
| 1234.00                                     | 1446.16                              | 1435.26                               | 2326                                   | 2360                   | 59.41                            | 130.05                            | 223.19                           | 2942                        |
| 1236.00                                     | 1449.14                              | 1438.24                               | 2327                                   | 2361                   | 59.27                            | 129.74                            | 222.69                           | 2984                        |
| 1238.00                                     | 1452.00                              | 1441.10                               | 2328                                   | 2362                   | 59.13                            | 129.45                            | 222.23                           | 2857                        |
| 1240.00                                     | 1454.96                              | 1444.06                               | 2329                                   | 2363                   | 58.99                            | 129.15                            | 221.74                           | 2962                        |
| 1242.00                                     | 1457.94                              | 1447.04                               | 2330                                   | 2364                   | 58.84                            | 128.85                            | 221.24                           | 2976                        |
| 1244.00                                     | 1460.91                              | 1450.01                               | 2331                                   | 2365                   | 58.70                            | 128.55                            | 220.75                           | 2975                        |
| 1246.00                                     | 1463.97                              | 1453.07                               | 2332                                   | 2366                   | 58.55                            | 128.23                            | 220.23                           | 3055                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1248.00                                     | 1467.07                              | 1456.17                               | 2334                                  | 2368                   | 58.39                            | 127.90                            | 219.69                           | 3099                        |
| 1250.00                                     | 1470.08                              | 1459.18                               | 2335                                  | 2369                   | 58.25                            | 127.59                            | 219.19                           | 3015                        |
| 1252.00                                     | 1473.13                              | 1462.23                               | 2336                                  | 2370                   | 58.10                            | 127.28                            | 218.68                           | 3054                        |
| 1254.00                                     | 1476.18                              | 1465.28                               | 2337                                  | 2371                   | 57.95                            | 126.97                            | 218.17                           | 3050                        |
| 1256.00                                     | 1479.25                              | 1468.35                               | 2338                                  | 2373                   | 57.80                            | 126.66                            | 217.66                           | 3070                        |
| 1258.00                                     | 1482.43                              | 1471.53                               | 2339                                  | 2374                   | 57.64                            | 126.32                            | 217.11                           | 3180                        |
| 1260.00                                     | 1485.64                              | 1474.74                               | 2341                                  | 2376                   | 57.48                            | 125.98                            | 216.55                           | 3205                        |
| 1262.00                                     | 1488.77                              | 1477.87                               | 2342                                  | 2377                   | 57.33                            | 125.66                            | 216.03                           | 3133                        |
| 1264.00                                     | 1491.84                              | 1480.94                               | 2343                                  | 2378                   | 57.18                            | 125.35                            | 215.52                           | 3070                        |
| 1266.00                                     | 1494.97                              | 1484.07                               | 2344                                  | 2380                   | 57.03                            | 125.03                            | 215.00                           | 3123                        |
| 1268.00                                     | 1498.07                              | 1487.17                               | 2346                                  | 2381                   | 56.88                            | 124.72                            | 214.49                           | 3102                        |
| 1270.00                                     | 1501.28                              | 1490.38                               | 2347                                  | 2383                   | 56.73                            | 124.39                            | 213.95                           | 3216                        |
| 1272.00                                     | 1504.45                              | 1493.55                               | 2348                                  | 2384                   | 56.57                            | 124.07                            | 213.42                           | 3166                        |
| 1274.00                                     | 1507.54                              | 1496.64                               | 2350                                  | 2385                   | 56.43                            | 123.77                            | 212.92                           | 3085                        |
| 1276.00                                     | 1510.81                              | 1499.91                               | 2351                                  | 2387                   | 56.27                            | 123.43                            | 212.37                           | 3273                        |
| 1278.00                                     | 1514.13                              | 1503.23                               | 2352                                  | 2389                   | 56.10                            | 123.08                            | 211.79                           | 3317                        |
| 1280.00                                     | 1517.33                              | 1506.43                               | 2354                                  | 2390                   | 55.95                            | 122.76                            | 211.27                           | 3201                        |
| 1282.00                                     | 1520.48                              | 1509.58                               | 2355                                  | 2391                   | 55.81                            | 122.45                            | 210.76                           | 3153                        |
| 1284.00                                     | 1523.64                              | 1512.74                               | 2356                                  | 2393                   | 55.66                            | 122.14                            | 210.25                           | 3163                        |
| 1286.00                                     | 1526.71                              | 1515.81                               | 2357                                  | 2394                   | 55.52                            | 121.85                            | 209.77                           | 3070                        |
| 1288.00                                     | 1529.76                              | 1518.86                               | 2358                                  | 2395                   | 55.39                            | 121.56                            | 209.30                           | 3046                        |
| 1290.00                                     | 1532.98                              | 1522.08                               | 2360                                  | 2397                   | 55.24                            | 121.25                            | 208.78                           | 3217                        |
| 1292.00                                     | 1536.01                              | 1525.11                               | 2361                                  | 2398                   | 55.10                            | 120.96                            | 208.32                           | 3039                        |
| 1294.00                                     | 1539.15                              | 1528.25                               | 2362                                  | 2399                   | 54.96                            | 120.67                            | 207.83                           | 3138                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1296.00                                     | 1542.25                              | 1531.35                               | 2363                                  | 2400                   | 54.83                            | 120.38                            | 207.36                           | 3095                        |
| 1298.00                                     | 1545.31                              | 1534.41                               | 2364                                  | 2402                   | 54.69                            | 120.10                            | 206.89                           | 3064                        |
| 1300.00                                     | 1548.49                              | 1537.59                               | 2366                                  | 2403                   | 54.55                            | 119.80                            | 206.40                           | 3173                        |
| 1302.00                                     | 1551.67                              | 1540.77                               | 2367                                  | 2404                   | 54.41                            | 119.49                            | 205.90                           | 3185                        |
| 1304.00                                     | 1554.71                              | 1543.81                               | 2368                                  | 2405                   | 54.28                            | 119.22                            | 205.45                           | 3043                        |
| 1306.00                                     | 1557.92                              | 1547.02                               | 2369                                  | 2407                   | 54.14                            | 118.92                            | 204.95                           | 3204                        |
| 1308.00                                     | 1561.01                              | 1550.11                               | 2370                                  | 2408                   | 54.00                            | 118.64                            | 204.49                           | 3091                        |
| 1310.00                                     | 1563.99                              | 1553.09                               | 2371                                  | 2409                   | 53.88                            | 118.38                            | 204.07                           | 2986                        |
| 1312.00                                     | 1567.07                              | 1556.17                               | 2372                                  | 2410                   | 53.75                            | 118.10                            | 203.61                           | 3077                        |
| 1314.00                                     | 1570.19                              | 1559.29                               | 2373                                  | 2411                   | 53.62                            | 117.82                            | 203.15                           | 3122                        |
| 1316.00                                     | 1573.25                              | 1562.35                               | 2374                                  | 2413                   | 53.49                            | 117.55                            | 202.71                           | 3060                        |
| 1318.00                                     | 1576.34                              | 1565.44                               | 2375                                  | 2414                   | 53.36                            | 117.28                            | 202.26                           | 3083                        |
| 1320.00                                     | 1579.39                              | 1568.49                               | 2376                                  | 2415                   | 53.24                            | 117.02                            | 201.82                           | 3051                        |
| 1322.00                                     | 1582.46                              | 1571.56                               | 2378                                  | 2416                   | 53.11                            | 116.75                            | 201.38                           | 3078                        |
| 1324.00                                     | 1585.48                              | 1574.58                               | 2379                                  | 2417                   | 52.99                            | 116.49                            | 200.96                           | 3020                        |
| 1326.00                                     | 1588.63                              | 1577.73                               | 2380                                  | 2418                   | 52.86                            | 116.21                            | 200.50                           | 3147                        |
| 1328.00                                     | 1591.79                              | 1580.89                               | 2381                                  | 2420                   | 52.73                            | 115.93                            | 200.04                           | 3160                        |
| 1330.00                                     | 1594.96                              | 1584.06                               | 2382                                  | 2421                   | 52.60                            | 115.65                            | 199.57                           | 3168                        |
| 1332.00                                     | 1598.07                              | 1587.17                               | 2383                                  | 2422                   | 52.47                            | 115.39                            | 199.13                           | 3108                        |
| 1334.00                                     | 1601.18                              | 1590.28                               | 2384                                  | 2423                   | 52.34                            | 115.12                            | 198.69                           | 3118                        |
| 1336.00                                     | 1604.28                              | 1593.38                               | 2385                                  | 2424                   | 52.22                            | 114.86                            | 198.25                           | 3098                        |
| 1338.00                                     | 1607.34                              | 1596.44                               | 2386                                  | 2425                   | 52.10                            | 114.60                            | 197.83                           | 3056                        |
| 1340.00                                     | 1610.47                              | 1599.57                               | 2387                                  | 2427                   | 51.97                            | 114.33                            | 197.39                           | 3133                        |
| 1342.00                                     | 1613.52                              | 1602.62                               | 2388                                  | 2428                   | 51.86                            | 114.08                            | 196.98                           | 3044                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1344.00                                     | 1616.66                              | 1605.76                               | 2390                                  | 2429                   | 51.73                            | 113.82                            | 196.54                           | 3147                        |
| 1346.00                                     | 1619.76                              | 1608.86                               | 2391                                  | 2430                   | 51.61                            | 113.56                            | 196.11                           | 3102                        |
| 1348.00                                     | 1622.98                              | 1612.08                               | 2392                                  | 2431                   | 51.48                            | 113.28                            | 195.65                           | 3213                        |
| 1350.00                                     | 1626.07                              | 1615.17                               | 2393                                  | 2432                   | 51.36                            | 113.03                            | 195.23                           | 3091                        |
| 1352.00                                     | 1629.28                              | 1618.38                               | 2394                                  | 2434                   | 51.23                            | 112.75                            | 194.78                           | 3211                        |
| 1354.00                                     | 1632.43                              | 1621.53                               | 2395                                  | 2435                   | 51.11                            | 112.49                            | 194.35                           | 3149                        |
| 1356.00                                     | 1635.54                              | 1624.64                               | 2396                                  | 2436                   | 50.99                            | 112.24                            | 193.93                           | 3113                        |
| 1358.00                                     | 1638.79                              | 1627.89                               | 2397                                  | 2438                   | 50.86                            | 111.96                            | 193.47                           | 3250                        |
| 1360.00                                     | 1641.90                              | 1631.00                               | 2399                                  | 2439                   | 50.74                            | 111.71                            | 193.05                           | 3111                        |
| 1362.00                                     | 1645.06                              | 1634.16                               | 2400                                  | 2440                   | 50.62                            | 111.45                            | 192.62                           | 3160                        |
| 1364.00                                     | 1648.27                              | 1637.37                               | 2401                                  | 2441                   | 50.50                            | 111.19                            | 192.18                           | 3205                        |
| 1366.00                                     | 1651.41                              | 1640.51                               | 2402                                  | 2442                   | 50.38                            | 110.93                            | 191.76                           | 3149                        |
| 1368.00                                     | 1654.62                              | 1643.72                               | 2403                                  | 2444                   | 50.25                            | 110.67                            | 191.33                           | 3206                        |
| 1370.00                                     | 1657.77                              | 1646.87                               | 2404                                  | 2445                   | 50.14                            | 110.42                            | 190.91                           | 3145                        |
| 1372.00                                     | 1660.90                              | 1650.00                               | 2405                                  | 2446                   | 50.02                            | 110.17                            | 190.50                           | 3138                        |
| 1374.00                                     | 1664.13                              | 1653.23                               | 2406                                  | 2447                   | 49.90                            | 109.91                            | 190.06                           | 3223                        |
| 1376.00                                     | 1667.40                              | 1656.50                               | 2408                                  | 2449                   | 49.77                            | 109.64                            | 189.62                           | 3269                        |
| 1378.00                                     | 1670.69                              | 1659.79                               | 2409                                  | 2450                   | 49.64                            | 109.37                            | 189.16                           | 3298                        |
| 1380.00                                     | 1674.21                              | 1663.31                               | 2411                                  | 2452                   | 49.50                            | 109.06                            | 188.65                           | 3517                        |
| 1382.00                                     | 1677.19                              | 1666.29                               | 2411                                  | 2453                   | 49.40                            | 108.84                            | 188.29                           | 2978                        |
| 1384.00                                     | 1680.06                              | 1669.16                               | 2412                                  | 2454                   | 49.30                            | 108.64                            | 187.95                           | 2871                        |
| 1386.00                                     | 1682.88                              | 1671.98                               | 2413                                  | 2454                   | 49.21                            | 108.45                            | 187.63                           | 2816                        |
| 1388.00                                     | 1685.81                              | 1674.91                               | 2413                                  | 2455                   | 49.11                            | 108.24                            | 187.29                           | 2938                        |
| 1390.00                                     | 1688.71                              | 1677.81                               | 2414                                  | 2456                   | 49.02                            | 108.03                            | 186.95                           | 2895                        |

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WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1392.00                                     | 1691.71                              | 1680.81                               | 2415                                  | 2456                   | 48.91                            | 107.82                            | 186.59                           | 2998                        |
| 1394.00                                     | 1694.60                              | 1683.70                               | 2416                                  | 2457                   | 48.82                            | 107.61                            | 186.26                           | 2893                        |
| 1396.00                                     | 1697.39                              | 1686.49                               | 2416                                  | 2458                   | 48.73                            | 107.43                            | 185.95                           | 2789                        |
| 1398.00                                     | 1700.30                              | 1689.40                               | 2417                                  | 2458                   | 48.64                            | 107.23                            | 185.61                           | 2912                        |
| 1400.00                                     | 1703.13                              | 1692.23                               | 2417                                  | 2459                   | 48.55                            | 107.04                            | 185.30                           | 2825                        |
| 1402.00                                     | 1705.99                              | 1695.09                               | 2418                                  | 2459                   | 48.46                            | 106.84                            | 184.98                           | 2860                        |
| 1404.00                                     | 1708.83                              | 1697.93                               | 2419                                  | 2460                   | 48.37                            | 106.65                            | 184.66                           | 2849                        |
| 1406.00                                     | 1711.64                              | 1700.74                               | 2419                                  | 2461                   | 48.28                            | 106.47                            | 184.35                           | 2811                        |
| 1408.00                                     | 1714.53                              | 1703.63                               | 2420                                  | 2461                   | 48.19                            | 106.27                            | 184.03                           | 2887                        |
| 1410.00                                     | 1717.55                              | 1706.65                               | 2421                                  | 2462                   | 48.09                            | 106.06                            | 183.67                           | 3013                        |
| 1412.00                                     | 1720.34                              | 1709.44                               | 2421                                  | 2463                   | 48.00                            | 105.88                            | 183.37                           | 2798                        |
| 1414.00                                     | 1723.32                              | 1712.42                               | 2422                                  | 2463                   | 47.91                            | 105.67                            | 183.03                           | 2979                        |
| 1416.00                                     | 1726.22                              | 1715.32                               | 2423                                  | 2464                   | 47.82                            | 105.47                            | 182.71                           | 2899                        |
| 1418.00                                     | 1729.07                              | 1718.17                               | 2423                                  | 2465                   | 47.73                            | 105.29                            | 182.40                           | 2849                        |
| 1420.00                                     | 1731.89                              | 1720.99                               | 2424                                  | 2465                   | 47.64                            | 105.11                            | 182.09                           | 2821                        |
| 1422.00                                     | 1734.74                              | 1723.84                               | 2425                                  | 2466                   | 47.56                            | 104.92                            | 181.79                           | 2851                        |
| 1424.00                                     | 1737.61                              | 1726.71                               | 2425                                  | 2466                   | 47.47                            | 104.73                            | 181.47                           | 2868                        |
| 1426.00                                     | 1740.56                              | 1729.66                               | 2426                                  | 2467                   | 47.38                            | 104.53                            | 181.14                           | 2954                        |
| 1428.00                                     | 1743.45                              | 1732.55                               | 2427                                  | 2468                   | 47.29                            | 104.35                            | 180.83                           | 2882                        |
| 1430.00                                     | 1746.28                              | 1735.38                               | 2427                                  | 2468                   | 47.20                            | 104.17                            | 180.53                           | 2835                        |
| 1432.00                                     | 1749.00                              | 1738.10                               | 2428                                  | 2469                   | 47.13                            | 104.00                            | 180.26                           | 2716                        |
| 1434.00                                     | 1751.78                              | 1740.88                               | 2428                                  | 2469                   | 47.04                            | 103.83                            | 179.97                           | 2781                        |
| 1436.00                                     | 1754.66                              | 1743.76                               | 2429                                  | 2470                   | 46.96                            | 103.64                            | 179.66                           | 2884                        |
| 1438.00                                     | 1757.54                              | 1746.64                               | 2429                                  | 2470                   | 46.87                            | 103.46                            | 179.36                           | 2876                        |

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WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1440.00                                     | 1760.38                              | 1749.48                               | 2430                                  | 2471                   | 46.79                            | 103.28                            | 179.06                           | 2837                        |
| 1442.00                                     | 1763.09                              | 1752.19                               | 2430                                  | 2471                   | 46.71                            | 103.12                            | 178.79                           | 2715                        |
| 1444.00                                     | 1765.79                              | 1754.89                               | 2431                                  | 2472                   | 46.64                            | 102.96                            | 178.52                           | 2699                        |
| 1446.00                                     | 1768.51                              | 1757.61                               | 2431                                  | 2472                   | 46.56                            | 102.80                            | 178.26                           | 2721                        |
| 1448.00                                     | 1771.26                              | 1760.36                               | 2431                                  | 2472                   | 46.48                            | 102.63                            | 177.98                           | 2748                        |
| 1450.00                                     | 1774.05                              | 1763.15                               | 2432                                  | 2473                   | 46.40                            | 102.46                            | 177.70                           | 2791                        |
| 1452.00                                     | 1776.88                              | 1765.98                               | 2432                                  | 2473                   | 46.32                            | 102.29                            | 177.41                           | 2834                        |
| 1454.00                                     | 1779.69                              | 1768.79                               | 2433                                  | 2474                   | 46.24                            | 102.12                            | 177.13                           | 2804                        |
| 1456.00                                     | 1782.51                              | 1771.61                               | 2434                                  | 2474                   | 46.16                            | 101.94                            | 176.84                           | 2822                        |
| 1458.00                                     | 1785.36                              | 1774.46                               | 2434                                  | 2475                   | 46.08                            | 101.77                            | 176.55                           | 2846                        |
| 1460.00                                     | 1788.21                              | 1777.31                               | 2435                                  | 2476                   | 46.00                            | 101.60                            | 176.26                           | 2853                        |
| 1462.00                                     | 1791.05                              | 1780.15                               | 2435                                  | 2476                   | 45.92                            | 101.42                            | 175.97                           | 2844                        |
| 1464.00                                     | 1793.88                              | 1782.98                               | 2436                                  | 2477                   | 45.84                            | 101.25                            | 175.69                           | 2824                        |
| 1466.00                                     | 1796.70                              | 1785.80                               | 2436                                  | 2477                   | 45.76                            | 101.08                            | 175.40                           | 2827                        |
| 1468.00                                     | 1799.61                              | 1788.71                               | 2437                                  | 2478                   | 45.68                            | 100.90                            | 175.11                           | 2907                        |
| 1470.00                                     | 1802.74                              | 1791.84                               | 2438                                  | 2479                   | 45.58                            | 100.70                            | 174.76                           | 3126                        |
| 1472.00                                     | 1805.84                              | 1794.94                               | 2439                                  | 2480                   | 45.49                            | 100.49                            | 174.42                           | 3105                        |
| 1474.00                                     | 1808.97                              | 1798.07                               | 2440                                  | 2481                   | 45.39                            | 100.29                            | 174.08                           | 3132                        |
| 1476.00                                     | 1812.15                              | 1801.25                               | 2441                                  | 2482                   | 45.29                            | 100.08                            | 173.72                           | 3175                        |
| 1478.00                                     | 1815.31                              | 1804.41                               | 2442                                  | 2483                   | 45.19                            | 99.87                             | 173.37                           | 3158                        |
| 1480.00                                     | 1818.35                              | 1807.45                               | 2443                                  | 2484                   | 45.10                            | 99.68                             | 173.05                           | 3046                        |
| 1482.00                                     | 1821.55                              | 1810.65                               | 2444                                  | 2485                   | 45.01                            | 99.46                             | 172.70                           | 3199                        |
| 1484.00                                     | 1824.70                              | 1813.80                               | 2444                                  | 2486                   | 44.91                            | 99.26                             | 172.35                           | 3151                        |
| 1486.00                                     | 1827.81                              | 1816.91                               | 2445                                  | 2487                   | 44.82                            | 99.06                             | 172.02                           | 3102                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1488.00                                     | 1830.74                              | 1819.84                               | 2446                                  | 2487                   | 44.74                            | 98.89                             | 171.73                           | 2935                        |
| 1490.00                                     | 1833.27                              | 1822.37                               | 2446                                  | 2487                   | 44.68                            | 98.76                             | 171.52                           | 2531                        |
| 1492.00                                     | 1835.91                              | 1825.01                               | 2446                                  | 2488                   | 44.61                            | 98.62                             | 171.28                           | 2635                        |
| 1494.00                                     | 1838.61                              | 1827.71                               | 2447                                  | 2488                   | 44.54                            | 98.47                             | 171.04                           | 2707                        |
| 1496.00                                     | 1841.38                              | 1830.48                               | 2447                                  | 2488                   | 44.47                            | 98.32                             | 170.78                           | 2763                        |
| 1498.00                                     | 1844.18                              | 1833.28                               | 2448                                  | 2489                   | 44.40                            | 98.16                             | 170.52                           | 2802                        |
| 1500.00                                     | 1847.00                              | 1836.10                               | 2448                                  | 2489                   | 44.32                            | 98.00                             | 170.25                           | 2825                        |
| 1502.00                                     | 1849.82                              | 1838.91                               | 2449                                  | 2490                   | 44.25                            | 97.84                             | 169.99                           | 2812                        |
| 1504.00                                     | 1852.64                              | 1841.74                               | 2449                                  | 2490                   | 44.18                            | 97.69                             | 169.73                           | 2822                        |
| 1506.00                                     | 1855.40                              | 1844.50                               | 2450                                  | 2491                   | 44.11                            | 97.54                             | 169.47                           | 2762                        |
| 1508.00                                     | 1858.24                              | 1847.34                               | 2450                                  | 2491                   | 44.03                            | 97.38                             | 169.21                           | 2838                        |
| 1510.00                                     | 1861.53                              | 1850.63                               | 2451                                  | 2492                   | 43.93                            | 97.16                             | 168.85                           | 3296                        |
| 1512.00                                     | 1864.74                              | 1853.84                               | 2452                                  | 2493                   | 43.84                            | 96.96                             | 168.51                           | 3212                        |
| 1514.00                                     | 1867.93                              | 1857.03                               | 2453                                  | 2494                   | 43.75                            | 96.76                             | 168.17                           | 3185                        |
| 1516.00                                     | 1871.05                              | 1860.15                               | 2454                                  | 2495                   | 43.66                            | 96.57                             | 167.86                           | 3122                        |
| 1518.00                                     | 1874.21                              | 1863.31                               | 2455                                  | 2496                   | 43.57                            | 96.38                             | 167.53                           | 3157                        |
| 1520.00                                     | 1877.37                              | 1866.47                               | 2456                                  | 2497                   | 43.48                            | 96.18                             | 167.20                           | 3165                        |
| 1522.00                                     | 1880.54                              | 1869.64                               | 2457                                  | 2498                   | 43.39                            | 95.99                             | 166.88                           | 3168                        |
| 1524.00                                     | 1883.53                              | 1872.63                               | 2458                                  | 2499                   | 43.31                            | 95.82                             | 166.59                           | 2992                        |
| 1526.00                                     | 1886.50                              | 1875.60                               | 2458                                  | 2500                   | 43.23                            | 95.65                             | 166.31                           | 2967                        |
| 1528.00                                     | 1889.53                              | 1878.63                               | 2459                                  | 2500                   | 43.15                            | 95.47                             | 166.02                           | 3032                        |
| 1530.00                                     | 1892.89                              | 1881.99                               | 2460                                  | 2502                   | 43.05                            | 95.26                             | 165.66                           | 3359                        |
| 1532.00                                     | 1896.14                              | 1885.24                               | 2461                                  | 2503                   | 42.96                            | 95.06                             | 165.32                           | 3249                        |
| 1534.00                                     | 1899.66                              | 1888.76                               | 2463                                  | 2505                   | 42.85                            | 94.83                             | 164.92                           | 3524                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1536.00                                     | 1903.04                              | 1892.14                               | 2464                                  | 2506                   | 42.75                            | 94.61                             | 164.56                           | 3378                        |
| 1538.00                                     | 1906.24                              | 1895.34                               | 2465                                  | 2507                   | 42.66                            | 94.42                             | 164.24                           | 3197                        |
| 1540.00                                     | 1909.32                              | 1898.42                               | 2465                                  | 2508                   | 42.58                            | 94.24                             | 163.94                           | 3086                        |
| 1542.00                                     | 1912.66                              | 1901.76                               | 2467                                  | 2509                   | 42.48                            | 94.04                             | 163.60                           | 3333                        |
| 1544.00                                     | 1915.99                              | 1905.09                               | 2468                                  | 2510                   | 42.39                            | 93.83                             | 163.25                           | 3337                        |
| 1546.00                                     | 1919.18                              | 1908.28                               | 2469                                  | 2511                   | 42.30                            | 93.65                             | 162.94                           | 3187                        |
| 1548.00                                     | 1922.58                              | 1911.68                               | 2470                                  | 2513                   | 42.20                            | 93.43                             | 162.58                           | 3401                        |
| 1550.00                                     | 1925.89                              | 1914.99                               | 2471                                  | 2514                   | 42.11                            | 93.23                             | 162.24                           | 3313                        |
| 1552.00                                     | 1929.14                              | 1918.24                               | 2472                                  | 2515                   | 42.02                            | 93.04                             | 161.92                           | 3249                        |
| 1554.00                                     | 1932.44                              | 1921.54                               | 2473                                  | 2516                   | 41.93                            | 92.85                             | 161.59                           | 3292                        |
| 1556.00                                     | 1935.39                              | 1924.49                               | 2474                                  | 2517                   | 41.86                            | 92.69                             | 161.33                           | 2955                        |
| 1558.00                                     | 1938.66                              | 1927.76                               | 2475                                  | 2518                   | 41.77                            | 92.50                             | 161.00                           | 3267                        |
| 1560.00                                     | 1942.07                              | 1931.17                               | 2476                                  | 2519                   | 41.67                            | 92.29                             | 160.65                           | 3409                        |
| 1562.00                                     | 1945.32                              | 1934.42                               | 2477                                  | 2520                   | 41.59                            | 92.10                             | 160.34                           | 3251                        |
| 1564.00                                     | 1948.48                              | 1937.58                               | 2478                                  | 2521                   | 41.51                            | 91.93                             | 160.04                           | 3165                        |
| 1566.00                                     | 1951.89                              | 1940.99                               | 2479                                  | 2522                   | 41.41                            | 91.72                             | 159.69                           | 3411                        |
| 1568.00                                     | 1955.08                              | 1944.18                               | 2480                                  | 2523                   | 41.33                            | 91.54                             | 159.39                           | 3188                        |
| 1570.00                                     | 1958.37                              | 1947.47                               | 2481                                  | 2524                   | 41.24                            | 91.35                             | 159.07                           | 3286                        |
| 1572.00                                     | 1961.58                              | 1950.68                               | 2482                                  | 2525                   | 41.16                            | 91.17                             | 158.77                           | 3214                        |
| 1574.00                                     | 1964.66                              | 1953.76                               | 2483                                  | 2526                   | 41.08                            | 91.01                             | 158.49                           | 3081                        |
| 1576.00                                     | 1967.82                              | 1956.92                               | 2483                                  | 2527                   | 41.00                            | 90.84                             | 158.20                           | 3155                        |
| 1578.00                                     | 1971.05                              | 1960.15                               | 2484                                  | 2528                   | 40.92                            | 90.66                             | 157.90                           | 3230                        |
| 1580.00                                     | 1974.25                              | 1963.35                               | 2485                                  | 2529                   | 40.84                            | 90.48                             | 157.60                           | 3204                        |
| 1582.00                                     | 1977.43                              | 1966.53                               | 2486                                  | 2530                   | 40.76                            | 90.31                             | 157.31                           | 3183                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1584.00                                     | 1980.68                              | 1969.78                               | 2487                                  | 2531                   | 40.67                            | 90.13                             | 157.01                           | 3247                        |
| 1586.00                                     | 1983.60                              | 1972.70                               | 2488                                  | 2532                   | 40.61                            | 89.98                             | 156.76                           | 2919                        |
| 1588.00                                     | 1986.75                              | 1975.85                               | 2488                                  | 2533                   | 40.53                            | 89.82                             | 156.48                           | 3154                        |
| 1590.00                                     | 1990.04                              | 1979.14                               | 2489                                  | 2534                   | 40.45                            | 89.63                             | 156.17                           | 3284                        |
| 1592.00                                     | 1993.33                              | 1982.43                               | 2490                                  | 2535                   | 40.36                            | 89.45                             | 155.86                           | 3291                        |
| 1594.00                                     | 1996.59                              | 1985.69                               | 2491                                  | 2536                   | 40.28                            | 89.27                             | 155.56                           | 3264                        |
| 1596.00                                     | 1999.92                              | 1989.02                               | 2493                                  | 2537                   | 40.19                            | 89.09                             | 155.25                           | 3332                        |
| 1598.00                                     | 2003.15                              | 1992.25                               | 2493                                  | 2538                   | 40.11                            | 88.92                             | 154.96                           | 3221                        |
| 1600.00                                     | 2006.37                              | 1995.47                               | 2494                                  | 2539                   | 40.04                            | 88.75                             | 154.67                           | 3223                        |
| 1602.00                                     | 2009.64                              | 1998.74                               | 2495                                  | 2540                   | 39.95                            | 88.57                             | 154.37                           | 3275                        |
| 1604.00                                     | 2012.92                              | 2002.02                               | 2496                                  | 2541                   | 39.87                            | 88.39                             | 154.07                           | 3276                        |
| 1606.00                                     | 2016.26                              | 2005.36                               | 2497                                  | 2542                   | 39.79                            | 88.21                             | 153.77                           | 3341                        |
| 1608.00                                     | 2018.59                              | 2007.69                               | 2497                                  | 2542                   | 39.75                            | 88.12                             | 153.62                           | 2331                        |
| 1610.00                                     | 2021.59                              | 2010.69                               | 2498                                  | 2542                   | 39.68                            | 87.98                             | 153.38                           | 2998                        |
| 1612.00                                     | 2024.97                              | 2014.07                               | 2499                                  | 2544                   | 39.60                            | 87.79                             | 153.06                           | 3379                        |
| 1614.00                                     | 2028.20                              | 2017.30                               | 2500                                  | 2545                   | 39.52                            | 87.63                             | 152.78                           | 3228                        |
| 1616.00                                     | 2031.38                              | 2020.48                               | 2501                                  | 2546                   | 39.44                            | 87.46                             | 152.50                           | 3188                        |
| 1618.00                                     | 2034.53                              | 2023.63                               | 2501                                  | 2546                   | 39.37                            | 87.31                             | 152.24                           | 3150                        |
| 1620.00                                     | 2038.07                              | 2027.17                               | 2503                                  | 2548                   | 39.28                            | 87.11                             | 151.90                           | 3536                        |
| 1622.00                                     | 2041.76                              | 2030.86                               | 2504                                  | 2550                   | 39.18                            | 86.89                             | 151.53                           | 3695                        |
| 1624.00                                     | 2045.04                              | 2034.14                               | 2505                                  | 2551                   | 39.10                            | 86.72                             | 151.24                           | 3278                        |
| 1626.00                                     | 2048.28                              | 2037.38                               | 2506                                  | 2552                   | 39.02                            | 86.55                             | 150.96                           | 3236                        |
| 1628.00                                     | 2051.68                              | 2040.78                               | 2507                                  | 2553                   | 38.94                            | 86.37                             | 150.66                           | 3403                        |
| 1630.00                                     | 2055.15                              | 2044.25                               | 2508                                  | 2554                   | 38.85                            | 86.18                             | 150.34                           | 3472                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1632.00                                     | 2058.47                              | 2047.57                               | 2509                                  | 2555                   | 38.78                            | 86.01                             | 150.05                           | 3321                        |
| 1634.00                                     | 2061.48                              | 2050.58                               | 2510                                  | 2556                   | 38.71                            | 85.87                             | 149.81                           | 3010                        |
| 1636.00                                     | 2064.60                              | 2053.70                               | 2511                                  | 2557                   | 38.64                            | 85.72                             | 149.56                           | 3119                        |
| 1638.00                                     | 2067.95                              | 2057.05                               | 2512                                  | 2558                   | 38.56                            | 85.55                             | 149.26                           | 3349                        |
| 1640.00                                     | 2071.37                              | 2060.47                               | 2513                                  | 2559                   | 38.48                            | 85.37                             | 148.96                           | 3424                        |
| 1642.00                                     | 2074.67                              | 2063.77                               | 2514                                  | 2560                   | 38.40                            | 85.21                             | 148.68                           | 3291                        |
| 1644.00                                     | 2078.07                              | 2067.17                               | 2515                                  | 2561                   | 38.32                            | 85.03                             | 148.38                           | 3400                        |
| 1646.00                                     | 2080.94                              | 2070.04                               | 2515                                  | 2562                   | 38.26                            | 84.91                             | 148.17                           | 2879                        |
| 1648.00                                     | 2083.83                              | 2072.93                               | 2516                                  | 2562                   | 38.21                            | 84.78                             | 147.96                           | 2882                        |
| 1650.00                                     | 2086.78                              | 2075.88                               | 2516                                  | 2562                   | 38.15                            | 84.65                             | 147.74                           | 2950                        |
| 1652.00                                     | 2089.73                              | 2078.83                               | 2517                                  | 2563                   | 38.09                            | 84.52                             | 147.52                           | 2949                        |
| 1654.00                                     | 2092.37                              | 2081.47                               | 2517                                  | 2563                   | 38.04                            | 84.42                             | 147.34                           | 2647                        |
| 1656.00                                     | 2095.55                              | 2084.65                               | 2518                                  | 2564                   | 37.97                            | 84.27                             | 147.09                           | 3173                        |
| 1658.00                                     | 2098.28                              | 2087.38                               | 2518                                  | 2564                   | 37.92                            | 84.16                             | 146.90                           | 2730                        |
| 1660.00                                     | 2101.53                              | 2090.63                               | 2519                                  | 2565                   | 37.85                            | 84.00                             | 146.64                           | 3250                        |
| 1662.00                                     | 2104.65                              | 2093.75                               | 2520                                  | 2566                   | 37.78                            | 83.86                             | 146.39                           | 3124                        |
| 1664.00                                     | 2107.69                              | 2096.79                               | 2520                                  | 2566                   | 37.72                            | 83.72                             | 146.16                           | 3043                        |
| 1666.00                                     | 2110.82                              | 2099.92                               | 2521                                  | 2567                   | 37.65                            | 83.58                             | 145.92                           | 3129                        |
| 1668.00                                     | 2113.92                              | 2103.02                               | 2522                                  | 2568                   | 37.59                            | 83.44                             | 145.68                           | 3103                        |
| 1670.00                                     | 2116.99                              | 2106.09                               | 2522                                  | 2568                   | 37.52                            | 83.30                             | 145.45                           | 3067                        |
| 1672.00                                     | 2119.84                              | 2108.94                               | 2523                                  | 2569                   | 37.47                            | 83.18                             | 145.25                           | 2844                        |
| 1674.00                                     | 2123.03                              | 2112.13                               | 2523                                  | 2570                   | 37.40                            | 83.04                             | 145.00                           | 3195                        |
| 1676.00                                     | 2126.09                              | 2115.19                               | 2524                                  | 2570                   | 37.34                            | 82.90                             | 144.77                           | 3061                        |
| 1678.00                                     | 2129.21                              | 2118.31                               | 2525                                  | 2571                   | 37.28                            | 82.76                             | 144.54                           | 3120                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1680.00                                     | 2132.23                              | 2121.33                               | 2525                                  | 2572                   | 37.22                            | 82.63                             | 144.31                           | 3023                        |
| 1682.00                                     | 2135.27                              | 2124.37                               | 2526                                  | 2572                   | 37.16                            | 82.50                             | 144.09                           | 3038                        |
| 1684.00                                     | 2138.23                              | 2127.33                               | 2527                                  | 2573                   | 37.10                            | 82.38                             | 143.88                           | 2961                        |
| 1686.00                                     | 2141.24                              | 2130.35                               | 2527                                  | 2573                   | 37.04                            | 82.25                             | 143.66                           | 3012                        |
| 1688.00                                     | 2144.42                              | 2133.52                               | 2528                                  | 2574                   | 36.97                            | 82.10                             | 143.42                           | 3172                        |
| 1690.00                                     | 2147.57                              | 2136.67                               | 2529                                  | 2575                   | 36.91                            | 81.96                             | 143.18                           | 3155                        |
| 1692.00                                     | 2149.75                              | 2138.85                               | 2528                                  | 2574                   | 36.88                            | 81.90                             | 143.07                           | 2181                        |
| 1694.00                                     | 2152.95                              | 2142.05                               | 2529                                  | 2575                   | 36.81                            | 81.76                             | 142.83                           | 3194                        |
| 1696.00                                     | 2156.08                              | 2145.18                               | 2530                                  | 2576                   | 36.75                            | 81.62                             | 142.60                           | 3134                        |
| 1698.00                                     | 2158.34                              | 2147.44                               | 2529                                  | 2576                   | 36.72                            | 81.55                             | 142.48                           | 2256                        |
| 1700.00                                     | 2161.28                              | 2150.38                               | 2530                                  | 2576                   | 36.66                            | 81.43                             | 142.28                           | 2942                        |
| 1702.00                                     | 2164.49                              | 2153.59                               | 2531                                  | 2577                   | 36.60                            | 81.29                             | 142.03                           | 3207                        |
| 1704.00                                     | 2166.84                              | 2155.94                               | 2530                                  | 2577                   | 36.56                            | 81.21                             | 141.91                           | 2349                        |
| 1706.00                                     | 2169.88                              | 2158.98                               | 2531                                  | 2577                   | 36.50                            | 81.08                             | 141.69                           | 3046                        |
| 1708.00                                     | 2173.01                              | 2162.11                               | 2532                                  | 2578                   | 36.44                            | 80.95                             | 141.46                           | 3133                        |
| 1710.00                                     | 2176.18                              | 2165.28                               | 2532                                  | 2579                   | 36.38                            | 80.81                             | 141.23                           | 3163                        |
| 1712.00                                     | 2179.43                              | 2168.53                               | 2533                                  | 2580                   | 36.31                            | 80.67                             | 140.98                           | 3252                        |
| 1714.00                                     | 2182.71                              | 2171.81                               | 2534                                  | 2581                   | 36.24                            | 80.52                             | 140.73                           | 3281                        |
| 1716.00                                     | 2185.59                              | 2174.69                               | 2535                                  | 2581                   | 36.19                            | 80.41                             | 140.54                           | 2877                        |
| 1718.00                                     | 2188.47                              | 2177.57                               | 2535                                  | 2581                   | 36.14                            | 80.30                             | 140.35                           | 2885                        |
| 1720.00                                     | 2191.86                              | 2180.96                               | 2536                                  | 2582                   | 36.07                            | 80.14                             | 140.09                           | 3392                        |
| 1722.00                                     | 2195.11                              | 2184.20                               | 2537                                  | 2583                   | 36.00                            | 80.00                             | 139.85                           | 3240                        |
| 1724.00                                     | 2198.08                              | 2187.18                               | 2537                                  | 2584                   | 35.95                            | 79.88                             | 139.64                           | 2977                        |
| 1726.00                                     | 2200.76                              | 2189.86                               | 2537                                  | 2584                   | 35.91                            | 79.79                             | 139.48                           | 2676                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1728.00                                     | 2203.91                              | 2193.01                               | 2538                                  | 2585                   | 35.85                            | 79.65                             | 139.26                           | 3150                        |
| 1730.00                                     | 2206.96                              | 2196.06                               | 2539                                  | 2585                   | 35.79                            | 79.53                             | 139.05                           | 3055                        |
| 1732.00                                     | 2209.87                              | 2198.97                               | 2539                                  | 2586                   | 35.74                            | 79.42                             | 138.86                           | 2908                        |
| 1734.00                                     | 2213.07                              | 2202.17                               | 2540                                  | 2586                   | 35.68                            | 79.28                             | 138.63                           | 3194                        |
| 1736.00                                     | 2216.25                              | 2205.35                               | 2541                                  | 2587                   | 35.61                            | 79.15                             | 138.40                           | 3183                        |
| 1738.00                                     | 2219.42                              | 2208.52                               | 2541                                  | 2588                   | 35.55                            | 79.02                             | 138.18                           | 3173                        |
| 1740.00                                     | 2222.71                              | 2211.81                               | 2542                                  | 2589                   | 35.49                            | 78.88                             | 137.94                           | 3285                        |
| 1742.00                                     | 2226.08                              | 2215.18                               | 2543                                  | 2590                   | 35.42                            | 78.73                             | 137.68                           | 3376                        |
| 1744.00                                     | 2229.44                              | 2218.54                               | 2544                                  | 2591                   | 35.35                            | 78.58                             | 137.43                           | 3360                        |
| 1746.00                                     | 2232.55                              | 2221.65                               | 2545                                  | 2591                   | 35.30                            | 78.46                             | 137.22                           | 3103                        |
| 1748.00                                     | 2235.72                              | 2224.82                               | 2546                                  | 2592                   | 35.24                            | 78.33                             | 137.00                           | 3174                        |
| 1750.00                                     | 2238.65                              | 2227.75                               | 2546                                  | 2593                   | 35.19                            | 78.22                             | 136.81                           | 2927                        |
| 1752.00                                     | 2241.90                              | 2231.00                               | 2547                                  | 2593                   | 35.12                            | 78.08                             | 136.58                           | 3249                        |
| 1754.00                                     | 2244.63                              | 2233.73                               | 2547                                  | 2594                   | 35.08                            | 77.99                             | 136.42                           | 2736                        |
| 1756.00                                     | 2247.62                              | 2236.72                               | 2548                                  | 2594                   | 35.03                            | 77.87                             | 136.23                           | 2986                        |
| 1758.00                                     | 2250.16                              | 2239.26                               | 2548                                  | 2594                   | 34.99                            | 77.79                             | 136.09                           | 2546                        |
| 1760.00                                     | 2253.28                              | 2242.38                               | 2548                                  | 2595                   | 34.93                            | 77.67                             | 135.88                           | 3120                        |
| 1762.00                                     | 2256.33                              | 2245.43                               | 2549                                  | 2595                   | 34.88                            | 77.55                             | 135.68                           | 3047                        |
| 1764.00                                     | 2258.79                              | 2247.89                               | 2549                                  | 2595                   | 34.85                            | 77.48                             | 135.55                           | 2463                        |
| 1766.00                                     | 2261.96                              | 2251.06                               | 2549                                  | 2596                   | 34.79                            | 77.35                             | 135.34                           | 3162                        |
| 1768.00                                     | 2265.30                              | 2254.40                               | 2550                                  | 2597                   | 34.72                            | 77.21                             | 135.10                           | 3346                        |
| 1770.00                                     | 2268.65                              | 2257.75                               | 2551                                  | 2598                   | 34.66                            | 77.07                             | 134.86                           | 3346                        |
| 1772.00                                     | 2271.94                              | 2261.04                               | 2552                                  | 2599                   | 34.60                            | 76.94                             | 134.63                           | 3290                        |
| 1774.00                                     | 2275.24                              | 2264.34                               | 2553                                  | 2600                   | 34.54                            | 76.80                             | 134.40                           | 3302                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1776.00                                     | 2278.50                              | 2267.60                               | 2554                                  | 2600                   | 34.48                            | 76.67                             | 134.17                           | 3263                        |
| 1778.00                                     | 2281.87                              | 2270.97                               | 2555                                  | 2601                   | 34.41                            | 76.53                             | 133.94                           | 3371                        |
| 1780.00                                     | 2285.25                              | 2274.35                               | 2555                                  | 2602                   | 34.35                            | 76.39                             | 133.70                           | 3371                        |
| 1782.00                                     | 2288.18                              | 2277.28                               | 2556                                  | 2603                   | 34.30                            | 76.28                             | 133.52                           | 2939                        |
| 1784.00                                     | 2291.39                              | 2280.49                               | 2557                                  | 2604                   | 34.24                            | 76.16                             | 133.30                           | 3207                        |
| 1786.00                                     | 2294.67                              | 2283.77                               | 2557                                  | 2604                   | 34.18                            | 76.03                             | 133.08                           | 3279                        |
| 1788.00                                     | 2297.85                              | 2286.95                               | 2558                                  | 2605                   | 34.13                            | 75.91                             | 132.87                           | 3175                        |
| 1790.00                                     | 2301.19                              | 2290.29                               | 2559                                  | 2606                   | 34.06                            | 75.77                             | 132.64                           | 3344                        |
| 1792.00                                     | 2304.01                              | 2293.11                               | 2559                                  | 2606                   | 34.02                            | 75.68                             | 132.48                           | 2822                        |
| 1794.00                                     | 2307.35                              | 2296.45                               | 2560                                  | 2607                   | 33.96                            | 75.54                             | 132.25                           | 3342                        |
| 1796.00                                     | 2310.61                              | 2299.71                               | 2561                                  | 2608                   | 33.90                            | 75.42                             | 132.03                           | 3252                        |
| 1798.00                                     | 2313.44                              | 2302.54                               | 2561                                  | 2608                   | 33.86                            | 75.32                             | 131.87                           | 2836                        |
| 1800.00                                     | 2316.80                              | 2305.90                               | 2562                                  | 2609                   | 33.80                            | 75.19                             | 131.64                           | 3362                        |
| 1802.00                                     | 2320.09                              | 2309.19                               | 2563                                  | 2610                   | 33.74                            | 75.06                             | 131.42                           | 3286                        |
| 1804.00                                     | 2323.33                              | 2312.43                               | 2564                                  | 2611                   | 33.68                            | 74.93                             | 131.21                           | 3240                        |
| 1806.00                                     | 2326.50                              | 2315.60                               | 2564                                  | 2612                   | 33.63                            | 74.81                             | 131.01                           | 3175                        |
| 1808.00                                     | 2329.60                              | 2318.70                               | 2565                                  | 2612                   | 33.58                            | 74.70                             | 130.82                           | 3092                        |
| 1810.00                                     | 2332.87                              | 2321.97                               | 2566                                  | 2613                   | 33.52                            | 74.58                             | 130.60                           | 3272                        |
| 1812.00                                     | 2336.08                              | 2325.18                               | 2566                                  | 2614                   | 33.46                            | 74.46                             | 130.40                           | 3215                        |
| 1814.00                                     | 2339.22                              | 2328.32                               | 2567                                  | 2614                   | 33.41                            | 74.34                             | 130.20                           | 3137                        |
| 1816.00                                     | 2342.44                              | 2331.54                               | 2568                                  | 2615                   | 33.36                            | 74.22                             | 130.00                           | 3219                        |
| 1818.00                                     | 2345.67                              | 2334.77                               | 2569                                  | 2616                   | 33.30                            | 74.10                             | 129.79                           | 3230                        |
| 1820.00                                     | 2348.91                              | 2338.01                               | 2569                                  | 2617                   | 33.25                            | 73.98                             | 129.58                           | 3237                        |
| 1822.00                                     | 2351.79                              | 2340.89                               | 2570                                  | 2617                   | 33.20                            | 73.89                             | 129.42                           | 2883                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1824.00                                     | 2355.15                              | 2344.25                               | 2570                                  | 2618                   | 33.14                            | 73.76                             | 129.20                           | 3363                        |
| 1826.00                                     | 2358.27                              | 2347.37                               | 2571                                  | 2618                   | 33.09                            | 73.65                             | 129.01                           | 3113                        |
| 1828.00                                     | 2361.31                              | 2350.41                               | 2572                                  | 2619                   | 33.04                            | 73.54                             | 128.83                           | 3041                        |
| 1830.00                                     | 2364.62                              | 2353.72                               | 2572                                  | 2620                   | 32.99                            | 73.42                             | 128.62                           | 3314                        |
| 1832.00                                     | 2367.88                              | 2356.98                               | 2573                                  | 2621                   | 32.93                            | 73.30                             | 128.41                           | 3260                        |
| 1834.00                                     | 2371.24                              | 2360.34                               | 2574                                  | 2622                   | 32.87                            | 73.17                             | 128.19                           | 3361                        |
| 1836.00                                     | 2374.51                              | 2363.61                               | 2575                                  | 2622                   | 32.82                            | 73.05                             | 127.99                           | 3265                        |
| 1838.00                                     | 2377.66                              | 2366.76                               | 2575                                  | 2623                   | 32.77                            | 72.94                             | 127.80                           | 3158                        |
| 1840.00                                     | 2380.78                              | 2369.88                               | 2576                                  | 2624                   | 32.72                            | 72.83                             | 127.61                           | 3114                        |
| 1842.00                                     | 2384.18                              | 2373.28                               | 2577                                  | 2625                   | 32.66                            | 72.70                             | 127.39                           | 3403                        |
| 1844.00                                     | 2387.34                              | 2376.44                               | 2577                                  | 2625                   | 32.61                            | 72.59                             | 127.20                           | 3163                        |
| 1846.00                                     | 2390.45                              | 2379.55                               | 2578                                  | 2626                   | 32.56                            | 72.48                             | 127.02                           | 3104                        |
| 1848.00                                     | 2393.70                              | 2382.80                               | 2579                                  | 2627                   | 32.51                            | 72.37                             | 126.82                           | 3257                        |
| 1850.00                                     | 2396.96                              | 2386.06                               | 2580                                  | 2627                   | 32.45                            | 72.25                             | 126.62                           | 3255                        |
| 1852.00                                     | 2400.29                              | 2389.39                               | 2580                                  | 2628                   | 32.40                            | 72.13                             | 126.41                           | 3329                        |
| 1854.00                                     | 2403.90                              | 2393.00                               | 2581                                  | 2629                   | 32.33                            | 71.99                             | 126.17                           | 3613                        |
| 1856.00                                     | 2407.34                              | 2396.44                               | 2582                                  | 2630                   | 32.27                            | 71.86                             | 125.95                           | 3434                        |
| 1858.00                                     | 2410.70                              | 2399.80                               | 2583                                  | 2631                   | 32.22                            | 71.74                             | 125.74                           | 3365                        |
| 1860.00                                     | 2414.04                              | 2403.14                               | 2584                                  | 2632                   | 32.16                            | 71.62                             | 125.53                           | 3340                        |
| 1862.00                                     | 2418.17                              | 2407.27                               | 2586                                  | 2634                   | 32.08                            | 71.43                             | 125.21                           | 4131                        |
| 1864.00                                     | 2422.37                              | 2411.47                               | 2587                                  | 2636                   | 31.99                            | 71.24                             | 124.89                           | 4199                        |
| 1866.00                                     | 2426.14                              | 2415.24                               | 2589                                  | 2638                   | 31.92                            | 71.09                             | 124.63                           | 3766                        |
| 1868.00                                     | 2429.59                              | 2418.69                               | 2590                                  | 2639                   | 31.87                            | 70.96                             | 124.41                           | 3448                        |
| 1870.00                                     | 2433.29                              | 2422.39                               | 2591                                  | 2640                   | 31.80                            | 70.82                             | 124.16                           | 3703                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1872.00                                     | 2437.22                              | 2426.32                               | 2592                                  | 2642                   | 31.73                            | 70.66                             | 123.88                           | 3927                        |
| 1874.00                                     | 2440.76                              | 2429.86                               | 2593                                  | 2643                   | 31.67                            | 70.52                             | 123.66                           | 3546                        |
| 1876.00                                     | 2444.46                              | 2433.56                               | 2594                                  | 2644                   | 31.60                            | 70.38                             | 123.41                           | 3695                        |
| 1878.00                                     | 2448.31                              | 2437.41                               | 2596                                  | 2646                   | 31.53                            | 70.23                             | 123.15                           | 3853                        |
| 1880.00                                     | 2452.07                              | 2441.17                               | 2597                                  | 2647                   | 31.46                            | 70.08                             | 122.89                           | 3764                        |
| 1882.00                                     | 2455.95                              | 2445.05                               | 2598                                  | 2649                   | 31.39                            | 69.92                             | 122.63                           | 3878                        |
| 1884.00                                     | 2459.90                              | 2449.00                               | 2600                                  | 2651                   | 31.32                            | 69.76                             | 122.35                           | 3946                        |
| 1886.00                                     | 2463.73                              | 2452.83                               | 2601                                  | 2652                   | 31.25                            | 69.61                             | 122.09                           | 3829                        |
| 1888.00                                     | 2467.51                              | 2456.61                               | 2602                                  | 2654                   | 31.19                            | 69.47                             | 121.84                           | 3788                        |
| 1890.00                                     | 2470.24                              | 2459.34                               | 2602                                  | 2654                   | 31.15                            | 69.39                             | 121.71                           | 2728                        |
| 1892.00                                     | 2473.57                              | 2462.67                               | 2603                                  | 2655                   | 31.10                            | 69.28                             | 121.52                           | 3327                        |
| 1894.00                                     | 2477.22                              | 2466.32                               | 2604                                  | 2656                   | 31.04                            | 69.15                             | 121.29                           | 3656                        |
| 1896.00                                     | 2480.89                              | 2469.99                               | 2605                                  | 2657                   | 30.98                            | 69.01                             | 121.06                           | 3664                        |
| 1898.00                                     | 2484.82                              | 2473.92                               | 2607                                  | 2659                   | 30.91                            | 68.86                             | 120.79                           | 3932                        |
| 1900.00                                     | 2488.73                              | 2477.83                               | 2608                                  | 2660                   | 30.84                            | 68.70                             | 120.53                           | 3912                        |
| 1902.00                                     | 2492.60                              | 2481.70                               | 2610                                  | 2662                   | 30.77                            | 68.56                             | 120.27                           | 3866                        |
| 1904.00                                     | 2496.54                              | 2485.64                               | 2611                                  | 2664                   | 30.70                            | 68.40                             | 120.01                           | 3942                        |
| 1906.00                                     | 2500.51                              | 2489.61                               | 2612                                  | 2665                   | 30.63                            | 68.25                             | 119.74                           | 3974                        |
| 1908.00                                     | 2504.36                              | 2493.46                               | 2614                                  | 2667                   | 30.56                            | 68.10                             | 119.49                           | 3852                        |
| 1910.00                                     | 2508.10                              | 2497.20                               | 2615                                  | 2668                   | 30.50                            | 67.96                             | 119.25                           | 3732                        |
| 1912.00                                     | 2511.86                              | 2500.96                               | 2616                                  | 2670                   | 30.44                            | 67.83                             | 119.02                           | 3766                        |
| 1914.00                                     | 2515.68                              | 2504.78                               | 2617                                  | 2671                   | 30.37                            | 67.69                             | 118.77                           | 3813                        |
| 1916.00                                     | 2519.49                              | 2508.59                               | 2619                                  | 2673                   | 30.31                            | 67.55                             | 118.53                           | 3817                        |
| 1918.00                                     | 2523.25                              | 2512.35                               | 2620                                  | 2674                   | 30.25                            | 67.41                             | 118.30                           | 3760                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1920.00                                     | 2526.73                              | 2515.83                               | 2621                                  | 2675                   | 30.20                            | 67.29                             | 118.10                           | 3479                        |
| 1922.00                                     | 2529.76                              | 2518.86                               | 2621                                  | 2675                   | 30.16                            | 67.21                             | 117.95                           | 3025                        |
| 1924.00                                     | 2533.15                              | 2522.25                               | 2622                                  | 2676                   | 30.11                            | 67.10                             | 117.76                           | 3394                        |
| 1926.00                                     | 2537.16                              | 2526.26                               | 2623                                  | 2678                   | 30.04                            | 66.95                             | 117.50                           | 4009                        |
| 1928.00                                     | 2540.97                              | 2530.07                               | 2625                                  | 2679                   | 29.97                            | 66.81                             | 117.26                           | 3812                        |
| 1930.00                                     | 2544.71                              | 2533.81                               | 2626                                  | 2681                   | 29.91                            | 66.68                             | 117.04                           | 3735                        |
| 1932.00                                     | 2548.36                              | 2537.46                               | 2627                                  | 2682                   | 29.86                            | 66.55                             | 116.82                           | 3655                        |
| 1934.00                                     | 2551.92                              | 2541.02                               | 2628                                  | 2683                   | 29.80                            | 66.43                             | 116.62                           | 3558                        |
| 1936.00                                     | 2555.50                              | 2544.60                               | 2629                                  | 2684                   | 29.75                            | 66.32                             | 116.41                           | 3583                        |
| 1938.00                                     | 2559.19                              | 2548.29                               | 2630                                  | 2685                   | 29.69                            | 66.19                             | 116.20                           | 3682                        |
| 1940.00                                     | 2563.04                              | 2552.14                               | 2631                                  | 2687                   | 29.63                            | 66.05                             | 115.96                           | 3853                        |
| 1942.00                                     | 2567.00                              | 2556.10                               | 2632                                  | 2688                   | 29.57                            | 65.91                             | 115.71                           | 3961                        |
| 1944.00                                     | 2570.19                              | 2559.30                               | 2633                                  | 2689                   | 29.52                            | 65.82                             | 115.55                           | 3195                        |
| 1946.00                                     | 2573.76                              | 2562.86                               | 2634                                  | 2690                   | 29.47                            | 65.70                             | 115.35                           | 3566                        |
| 1948.00                                     | 2577.99                              | 2567.09                               | 2636                                  | 2692                   | 29.40                            | 65.54                             | 115.07                           | 4227                        |
| 1950.00                                     | 2582.07                              | 2571.17                               | 2637                                  | 2694                   | 29.33                            | 65.39                             | 114.81                           | 4078                        |
| 1952.00                                     | 2586.36                              | 2575.46                               | 2639                                  | 2696                   | 29.25                            | 65.22                             | 114.53                           | 4298                        |
| 1954.00                                     | 2592.05                              | 2581.15                               | 2642                                  | 2701                   | 29.12                            | 64.93                             | 114.02                           | 5681                        |
| 1956.00                                     | 2598.09                              | 2587.19                               | 2645                                  | 2706                   | 28.97                            | 64.61                             | 113.46                           | 6043                        |
| 1958.00                                     | 2604.03                              | 2593.13                               | 2649                                  | 2711                   | 28.83                            | 64.30                             | 112.92                           | 5947                        |
| 1960.00                                     | 2609.74                              | 2598.84                               | 2652                                  | 2716                   | 28.70                            | 64.01                             | 112.43                           | 5701                        |
| 1962.00                                     | 2615.17                              | 2604.27                               | 2655                                  | 2720                   | 28.59                            | 63.76                             | 111.99                           | 5431                        |
| 1964.00                                     | 2620.50                              | 2609.60                               | 2657                                  | 2724                   | 28.48                            | 63.51                             | 111.57                           | 5329                        |
| 1966.00                                     | 2625.73                              | 2614.83                               | 2660                                  | 2728                   | 28.37                            | 63.28                             | 111.17                           | 5232                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 1968.00                                     | 2630.84                              | 2619.94                               | 2663                                  | 2731                   | 28.27                            | 63.06                             | 110.78                           | 5115                        |
| 1970.00                                     | 2635.79                              | 2624.89                               | 2665                                  | 2734                   | 28.18                            | 62.85                             | 110.43                           | 4949                        |
| 1972.00                                     | 2640.59                              | 2629.69                               | 2667                                  | 2737                   | 28.09                            | 62.66                             | 110.10                           | 4797                        |
| 1974.00                                     | 2645.25                              | 2634.35                               | 2669                                  | 2740                   | 28.01                            | 62.48                             | 109.78                           | 4659                        |
| 1976.00                                     | 2649.77                              | 2638.87                               | 2671                                  | 2742                   | 27.93                            | 62.31                             | 109.49                           | 4526                        |
| 1978.00                                     | 2654.15                              | 2643.25                               | 2673                                  | 2745                   | 27.86                            | 62.16                             | 109.22                           | 4381                        |
| 1980.00                                     | 2658.37                              | 2647.47                               | 2674                                  | 2746                   | 27.80                            | 62.01                             | 108.97                           | 4213                        |
| 1982.00                                     | 2662.62                              | 2651.72                               | 2676                                  | 2748                   | 27.73                            | 61.87                             | 108.72                           | 4254                        |
| 1984.00                                     | 2666.89                              | 2655.99                               | 2677                                  | 2750                   | 27.66                            | 61.72                             | 108.46                           | 4270                        |
| 1986.00                                     | 2671.05                              | 2660.15                               | 2679                                  | 2752                   | 27.60                            | 61.58                             | 108.22                           | 4161                        |
| 1988.00                                     | 2675.12                              | 2664.22                               | 2680                                  | 2754                   | 27.54                            | 61.45                             | 107.99                           | 4066                        |
| 1990.00                                     | 2679.10                              | 2668.20                               | 2682                                  | 2755                   | 27.48                            | 61.32                             | 107.78                           | 3977                        |
| 1992.00                                     | 2682.97                              | 2672.07                               | 2683                                  | 2757                   | 27.43                            | 61.20                             | 107.57                           | 3869                        |
| 1994.00                                     | 2686.91                              | 2676.01                               | 2684                                  | 2758                   | 27.37                            | 61.08                             | 107.36                           | 3940                        |
| 1996.00                                     | 2690.85                              | 2679.95                               | 2685                                  | 2759                   | 27.32                            | 60.96                             | 107.15                           | 3943                        |
| 1998.00                                     | 2694.85                              | 2683.95                               | 2687                                  | 2761                   | 27.26                            | 60.83                             | 106.93                           | 3997                        |
| 2000.00                                     | 2698.85                              | 2687.95                               | 2688                                  | 2763                   | 27.21                            | 60.71                             | 106.72                           | 4003                        |
| 2002.00                                     | 2702.74                              | 2691.84                               | 2689                                  | 2764                   | 27.15                            | 60.59                             | 106.51                           | 3891                        |
| 2004.00                                     | 2706.45                              | 2695.55                               | 2690                                  | 2765                   | 27.10                            | 60.48                             | 106.33                           | 3709                        |
| 2006.00                                     | 2710.51                              | 2699.61                               | 2692                                  | 2767                   | 27.05                            | 60.36                             | 106.11                           | 4063                        |
| 2008.00                                     | 2714.54                              | 2703.64                               | 2693                                  | 2768                   | 26.99                            | 60.23                             | 105.89                           | 4023                        |
| 2010.00                                     | 2718.56                              | 2707.66                               | 2694                                  | 2770                   | 26.93                            | 60.11                             | 105.68                           | 4025                        |
| 2012.00                                     | 2722.57                              | 2711.67                               | 2695                                  | 2771                   | 26.88                            | 59.99                             | 105.47                           | 4010                        |
| 2014.00                                     | 2726.44                              | 2715.54                               | 2697                                  | 2772                   | 26.83                            | 59.87                             | 105.27                           | 3870                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2016.00                                     | 2730.55                              | 2719.65                               | 2698                                  | 2774                   | 26.77                            | 59.74                             | 105.05                           | 4114                        |
| 2018.00                                     | 2734.11                              | 2723.21                               | 2699                                  | 2775                   | 26.73                            | 59.65                             | 104.89                           | 3559                        |
| 2020.00                                     | 2737.97                              | 2727.07                               | 2700                                  | 2776                   | 26.68                            | 59.54                             | 104.69                           | 3855                        |
| 2022.00                                     | 2741.90                              | 2731.00                               | 2701                                  | 2778                   | 26.62                            | 59.42                             | 104.49                           | 3931                        |
| 2024.00                                     | 2745.87                              | 2734.97                               | 2703                                  | 2779                   | 26.57                            | 59.31                             | 104.29                           | 3970                        |
| 2026.00                                     | 2749.72                              | 2738.82                               | 2704                                  | 2780                   | 26.52                            | 59.20                             | 104.10                           | 3848                        |
| 2028.00                                     | 2753.34                              | 2742.44                               | 2705                                  | 2781                   | 26.48                            | 59.10                             | 103.93                           | 3625                        |
| 2030.00                                     | 2756.91                              | 2746.01                               | 2705                                  | 2782                   | 26.43                            | 59.01                             | 103.77                           | 3571                        |
| 2032.00                                     | 2760.56                              | 2749.66                               | 2706                                  | 2783                   | 26.39                            | 58.91                             | 103.60                           | 3651                        |
| 2034.00                                     | 2764.15                              | 2753.25                               | 2707                                  | 2784                   | 26.35                            | 58.81                             | 103.44                           | 3581                        |
| 2036.00                                     | 2768.09                              | 2757.19                               | 2708                                  | 2785                   | 26.30                            | 58.70                             | 103.24                           | 3939                        |
| 2038.00                                     | 2771.97                              | 2761.07                               | 2710                                  | 2787                   | 26.25                            | 58.59                             | 103.05                           | 3889                        |
| 2040.00                                     | 2775.84                              | 2764.94                               | 2711                                  | 2788                   | 26.20                            | 58.48                             | 102.87                           | 3862                        |
| 2042.00                                     | 2779.70                              | 2768.80                               | 2712                                  | 2789                   | 26.15                            | 58.38                             | 102.68                           | 3862                        |
| 2044.00                                     | 2783.47                              | 2772.57                               | 2713                                  | 2790                   | 26.10                            | 58.27                             | 102.50                           | 3772                        |
| 2046.00                                     | 2787.38                              | 2776.48                               | 2714                                  | 2792                   | 26.05                            | 58.16                             | 102.31                           | 3911                        |
| 2048.00                                     | 2791.16                              | 2780.26                               | 2715                                  | 2793                   | 26.01                            | 58.06                             | 102.14                           | 3782                        |
| 2050.00                                     | 2795.07                              | 2784.17                               | 2716                                  | 2794                   | 25.96                            | 57.95                             | 101.95                           | 3907                        |
| 2052.00                                     | 2799.14                              | 2788.24                               | 2718                                  | 2796                   | 25.90                            | 57.84                             | 101.75                           | 4073                        |
| 2054.00                                     | 2803.24                              | 2792.34                               | 2719                                  | 2797                   | 25.85                            | 57.72                             | 101.54                           | 4100                        |
| 2056.00                                     | 2807.29                              | 2796.39                               | 2720                                  | 2799                   | 25.80                            | 57.60                             | 101.34                           | 4041                        |
| 2058.00                                     | 2811.06                              | 2800.16                               | 2721                                  | 2800                   | 25.75                            | 57.50                             | 101.17                           | 3776                        |
| 2060.00                                     | 2814.71                              | 2803.81                               | 2722                                  | 2801                   | 25.71                            | 57.41                             | 101.01                           | 3645                        |
| 2062.00                                     | 2818.59                              | 2807.69                               | 2723                                  | 2802                   | 25.66                            | 57.31                             | 100.83                           | 3885                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2064.00                                     | 2822.17                              | 2811.27                               | 2724                                  | 2803                   | 25.62                            | 57.22                             | 100.67                           | 3583                        |
| 2066.00                                     | 2825.82                              | 2814.92                               | 2725                                  | 2804                   | 25.58                            | 57.12                             | 100.51                           | 3646                        |
| 2068.00                                     | 2829.63                              | 2818.73                               | 2726                                  | 2805                   | 25.54                            | 57.03                             | 100.34                           | 3809                        |
| 2070.00                                     | 2833.57                              | 2822.67                               | 2727                                  | 2806                   | 25.49                            | 56.92                             | 100.16                           | 3942                        |
| 2072.00                                     | 2837.65                              | 2826.75                               | 2729                                  | 2808                   | 25.44                            | 56.81                             | 99.96                            | 4078                        |
| 2074.00                                     | 2841.69                              | 2830.79                               | 2730                                  | 2809                   | 25.39                            | 56.69                             | 99.77                            | 4026                        |
| 2076.00                                     | 2845.72                              | 2834.82                               | 2731                                  | 2811                   | 25.34                            | 56.58                             | 99.58                            | 3821                        |
| 2078.00                                     | 2849.54                              | 2838.64                               | 2732                                  | 2812                   | 25.29                            | 56.49                             | 99.41                            | 4051                        |
| 2080.00                                     | 2853.59                              | 2842.69                               | 2733                                  | 2813                   | 25.24                            | 56.38                             | 99.21                            | 4113                        |
| 2082.00                                     | 2857.70                              | 2846.80                               | 2735                                  | 2815                   | 25.19                            | 56.26                             | 99.02                            | 4120                        |
| 2084.00                                     | 2861.82                              | 2850.92                               | 2736                                  | 2816                   | 25.14                            | 56.15                             | 98.82                            | 3848                        |
| 2086.00                                     | 2865.67                              | 2854.77                               | 2737                                  | 2818                   | 25.09                            | 56.05                             | 98.65                            | 3930                        |
| 2088.00                                     | 2869.60                              | 2858.70                               | 2738                                  | 2819                   | 25.05                            | 55.95                             | 98.47                            | 3945                        |
| 2090.00                                     | 2873.54                              | 2862.64                               | 2739                                  | 2820                   | 25.00                            | 55.85                             | 98.30                            | 3702                        |
| 2092.00                                     | 2877.25                              | 2866.35                               | 2740                                  | 2821                   | 24.96                            | 55.75                             | 98.14                            | 3718                        |
| 2094.00                                     | 2880.96                              | 2870.06                               | 2741                                  | 2822                   | 24.92                            | 55.66                             | 97.98                            | 3996                        |
| 2096.00                                     | 2884.96                              | 2874.06                               | 2742                                  | 2823                   | 24.87                            | 55.56                             | 97.80                            | 3856                        |
| 2098.00                                     | 2888.82                              | 2877.92                               | 2743                                  | 2825                   | 24.83                            | 55.46                             | 97.63                            | 3844                        |
| 2100.00                                     | 2892.66                              | 2881.76                               | 2745                                  | 2826                   | 24.79                            | 55.37                             | 97.47                            | 3792                        |
| 2102.00                                     | 2896.45                              | 2885.55                               | 2746                                  | 2827                   | 24.74                            | 55.27                             | 97.31                            | 3861                        |
| 2104.00                                     | 2900.31                              | 2889.41                               | 2747                                  | 2828                   | 24.70                            | 55.18                             | 97.14                            | 3839                        |
| 2106.00                                     | 2904.15                              | 2893.25                               | 2748                                  | 2829                   | 24.66                            | 55.08                             | 96.98                            | 3842                        |
| 2108.00                                     | 2907.99                              | 2897.09                               | 2749                                  | 2830                   | 24.61                            | 54.99                             | 96.81                            | 3812                        |
| 2110.00                                     | 2911.81                              | 2900.91                               | 2750                                  | 2831                   | 24.57                            | 54.90                             | 96.65                            |                             |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2112.00                                     | 2915.80                              | 2904.90                               | 2751                                  | 2833                   | 24.53                            | 54.80                             | 96.47                            | 3996                        |
| 2114.00                                     | 2919.77                              | 2908.87                               | 2752                                  | 2834                   | 24.48                            | 54.70                             | 96.30                            | 3970                        |
| 2116.00                                     | 2923.89                              | 2912.99                               | 2753                                  | 2835                   | 24.43                            | 54.59                             | 96.12                            | 4122                        |
| 2118.00                                     | 2928.00                              | 2917.10                               | 2755                                  | 2837                   | 24.39                            | 54.48                             | 95.93                            | 4105                        |
| 2120.00                                     | 2931.99                              | 2921.09                               | 2756                                  | 2838                   | 24.34                            | 54.38                             | 95.76                            | 3988                        |
| 2122.00                                     | 2935.99                              | 2925.09                               | 2757                                  | 2840                   | 24.30                            | 54.28                             | 95.58                            | 4006                        |
| 2124.00                                     | 2940.12                              | 2929.22                               | 2758                                  | 2841                   | 24.25                            | 54.18                             | 95.40                            | 4129                        |
| 2126.00                                     | 2944.23                              | 2933.33                               | 2759                                  | 2842                   | 24.20                            | 54.07                             | 95.22                            | 4109                        |
| 2128.00                                     | 2948.33                              | 2937.43                               | 2761                                  | 2844                   | 24.15                            | 53.97                             | 95.04                            | 4096                        |
| 2130.00                                     | 2952.48                              | 2941.59                               | 2762                                  | 2845                   | 24.11                            | 53.86                             | 94.85                            | 4156                        |
| 2132.00                                     | 2956.28                              | 2945.38                               | 2763                                  | 2846                   | 24.07                            | 53.77                             | 94.70                            | 3800                        |
| 2134.00                                     | 2960.46                              | 2949.56                               | 2764                                  | 2848                   | 24.02                            | 53.67                             | 94.52                            | 4173                        |
| 2136.00                                     | 2964.57                              | 2953.67                               | 2766                                  | 2849                   | 23.97                            | 53.57                             | 94.34                            | 4111                        |
| 2138.00                                     | 2968.73                              | 2957.83                               | 2767                                  | 2851                   | 23.92                            | 53.46                             | 94.16                            | 4160                        |
| 2140.00                                     | 2972.84                              | 2961.94                               | 2768                                  | 2852                   | 23.88                            | 53.36                             | 93.98                            | 4115                        |
| 2142.00                                     | 2976.69                              | 2965.79                               | 2769                                  | 2854                   | 23.84                            | 53.27                             | 93.82                            | 3843                        |
| 2144.00                                     | 2980.82                              | 2969.92                               | 2770                                  | 2855                   | 23.79                            | 53.17                             | 93.65                            | 4137                        |
| 2146.00                                     | 2984.87                              | 2973.97                               | 2772                                  | 2856                   | 23.75                            | 53.07                             | 93.48                            | 4042                        |
| 2148.00                                     | 2988.69                              | 2977.79                               | 2773                                  | 2857                   | 23.71                            | 52.98                             | 93.33                            | 3826                        |
| 2150.00                                     | 2992.13                              | 2981.23                               | 2773                                  | 2858                   | 23.68                            | 52.91                             | 93.21                            | 3434                        |
| 2152.00                                     | 2995.79                              | 2984.89                               | 2774                                  | 2859                   | 23.64                            | 52.83                             | 93.07                            | 3661                        |
| 2154.00                                     | 2999.90                              | 2989.00                               | 2775                                  | 2860                   | 23.60                            | 52.73                             | 92.90                            | 4109                        |
| 2156.00                                     | 3003.89                              | 2992.99                               | 2776                                  | 2861                   | 23.55                            | 52.64                             | 92.73                            | 3989                        |
| 2158.00                                     | 3008.03                              | 2997.13                               | 2778                                  | 2863                   | 23.51                            | 52.54                             | 92.56                            | 4142                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2160.00                                     | 3012.13                              | 3001.23                               | 2779                                  | 2864                   | 23.46                            | 52.44                             | 92.39                            | 4106                        |
| 2162.00                                     | 3016.09                              | 3005.19                               | 2780                                  | 2866                   | 23.42                            | 52.35                             | 92.23                            | 3953                        |
| 2164.00                                     | 3019.68                              | 3008.78                               | 2781                                  | 2866                   | 23.39                            | 52.28                             | 92.10                            | 3591                        |
| 2166.00                                     | 3023.20                              | 3012.30                               | 2781                                  | 2867                   | 23.36                            | 52.21                             | 91.98                            | 3519                        |
| 2168.00                                     | 3027.39                              | 3016.49                               | 2783                                  | 2868                   | 23.31                            | 52.11                             | 91.80                            | 4188                        |
| 2170.00                                     | 3031.63                              | 3020.73                               | 2784                                  | 2870                   | 23.26                            | 52.00                             | 91.62                            | 4241                        |
| 2172.00                                     | 3035.96                              | 3025.06                               | 2786                                  | 2872                   | 23.22                            | 51.90                             | 91.44                            | 4331                        |
| 2174.00                                     | 3040.11                              | 3029.21                               | 2787                                  | 2873                   | 23.17                            | 51.80                             | 91.27                            | 4151                        |
| 2176.00                                     | 3043.82                              | 3032.92                               | 2788                                  | 2874                   | 23.14                            | 51.72                             | 91.13                            | 3708                        |
| 2178.00                                     | 3047.68                              | 3036.78                               | 2789                                  | 2875                   | 23.10                            | 51.64                             | 90.98                            | 3861                        |
| 2180.00                                     | 3052.41                              | 3041.51                               | 2790                                  | 2877                   | 23.04                            | 51.51                             | 90.76                            | 4735                        |
| 2182.00                                     | 3057.79                              | 3046.89                               | 2793                                  | 2881                   | 22.97                            | 51.35                             | 90.48                            | 5373                        |
| 2184.00                                     | 3063.29                              | 3052.39                               | 2795                                  | 2884                   | 22.89                            | 51.18                             | 90.19                            | 5504                        |
| 2186.00                                     | 3067.23                              | 3056.33                               | 2796                                  | 2885                   | 22.85                            | 51.09                             | 90.04                            | 3939                        |
| 2188.00                                     | 3072.01                              | 3061.11                               | 2798                                  | 2888                   | 22.80                            | 50.97                             | 89.82                            | 4778                        |
| 2190.00                                     | 3076.90                              | 3066.00                               | 2800                                  | 2890                   | 22.74                            | 50.84                             | 89.59                            | 4894                        |
| 2192.00                                     | 3081.29                              | 3070.39                               | 2801                                  | 2892                   | 22.69                            | 50.73                             | 89.41                            | 4391                        |
| 2194.00                                     | 3085.81                              | 3074.91                               | 2803                                  | 2894                   | 22.64                            | 50.62                             | 89.21                            | 4522                        |
| 2196.00                                     | 3089.83                              | 3078.93                               | 2804                                  | 2895                   | 22.60                            | 50.53                             | 89.06                            | 4017                        |
| 2198.00                                     | 3093.99                              | 3083.09                               | 2805                                  | 2896                   | 22.56                            | 50.44                             | 88.90                            | 4162                        |
| 2200.00                                     | 3097.75                              | 3086.85                               | 2806                                  | 2897                   | 22.52                            | 50.36                             | 88.77                            | 3753                        |
| 2202.00                                     | 3101.31                              | 3090.41                               | 2807                                  | 2898                   | 22.49                            | 50.30                             | 88.65                            | 3562                        |
| 2204.00                                     | 3105.30                              | 3094.40                               | 2808                                  | 2899                   | 22.46                            | 50.21                             | 88.50                            | 3990                        |
| 2206.00                                     | 3108.89                              | 3097.99                               | 2809                                  | 2900                   | 22.42                            | 50.14                             | 88.38                            | 3595                        |

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2208.00                                     | 3112.85                              | 3101.95                               | 2810                                  | 2901                   | 22.39                            | 50.06                             | 88.24                            | 3961                        |
| 2210.00                                     | 3116.66                              | 3105.76                               | 2811                                  | 2902                   | 22.35                            | 49.98                             | 88.10                            | 3810                        |
| 2212.00                                     | 3120.59                              | 3109.69                               | 2812                                  | 2903                   | 22.32                            | 49.90                             | 87.96                            | 3928                        |
| 2214.00                                     | 3124.51                              | 3113.61                               | 2813                                  | 2904                   | 22.28                            | 49.82                             | 87.82                            | 3918                        |
| 2216.00                                     | 3129.10                              | 3118.20                               | 2814                                  | 2906                   | 22.23                            | 49.71                             | 87.63                            | 4588                        |
| 2218.00                                     | 3132.88                              | 3121.98                               | 2815                                  | 2907                   | 22.20                            | 49.63                             | 87.50                            | 3784                        |
| 2220.00                                     | 3136.56                              | 3125.66                               | 2816                                  | 2908                   | 22.16                            | 49.56                             | 87.38                            | 3675                        |
| 2222.00                                     | 3140.39                              | 3129.49                               | 2817                                  | 2909                   | 22.13                            | 49.49                             | 87.25                            | 3828                        |
| 2224.00                                     | 3145.57                              | 3134.67                               | 2819                                  | 2911                   | 22.07                            | 49.35                             | 87.00                            | 5187                        |
| 2226.00                                     | 3150.72                              | 3139.82                               | 2821                                  | 2914                   | 22.01                            | 49.21                             | 86.77                            | 5150                        |
| 2228.00                                     | 3154.79                              | 3143.89                               | 2822                                  | 2915                   | 21.97                            | 49.13                             | 86.62                            | 4071                        |
| 2230.00                                     | 3159.00                              | 3148.10                               | 2823                                  | 2917                   | 21.93                            | 49.04                             | 86.46                            | 4206                        |
| 2232.00                                     | 3162.86                              | 3151.96                               | 2824                                  | 2918                   | 21.89                            | 48.96                             | 86.33                            | 3864                        |
| 2234.00                                     | 3167.49                              | 3156.59                               | 2826                                  | 2920                   | 21.84                            | 48.85                             | 86.14                            | 4629                        |
| 2236.00                                     | 3171.75                              | 3160.85                               | 2827                                  | 2921                   | 21.80                            | 48.76                             | 85.98                            | 4262                        |
| 2238.00                                     | 3176.25                              | 3165.36                               | 2829                                  | 2923                   | 21.76                            | 48.66                             | 85.80                            | 4501                        |
| 2240.00                                     | 3179.70                              | 3168.80                               | 2829                                  | 2924                   | 21.73                            | 48.60                             | 85.70                            | 3448                        |
| 2242.00                                     | 3184.02                              | 3173.12                               | 2831                                  | 2925                   | 21.69                            | 48.51                             | 85.54                            | 4318                        |
| 2244.00                                     | 3187.74                              | 3176.84                               | 2831                                  | 2926                   | 21.66                            | 48.44                             | 85.42                            | 3721                        |
| 2246.00                                     | 3190.80                              | 3179.91                               | 2832                                  | 2926                   | 21.64                            | 48.39                             | 85.34                            | 3063                        |
| 2248.00                                     | 3195.24                              | 3184.34                               | 2833                                  | 2928                   | 21.59                            | 48.30                             | 85.17                            | 4439                        |
| 2250.00                                     | 3199.97                              | 3189.07                               | 2835                                  | 2930                   | 21.54                            | 48.19                             | 84.98                            | 4726                        |
| 2252.00                                     | 3204.71                              | 3193.81                               | 2836                                  | 2932                   | 21.49                            | 48.08                             | 84.78                            | 4737                        |
| 2254.00                                     | 3208.87                              | 3197.97                               | 2838                                  | 2933                   | 21.45                            | 47.99                             | 84.64                            | 4163                        |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2256.00                                     | 3212.93                              | 3202.03                               | 2839                                  | 2934                   | 21.42                            | 47.91                             | 84.50                            | 4060                        |
| 2258.00                                     | 3216.28                              | 3205.38                               | 2839                                  | 2935                   | 21.39                            | 47.86                             | 84.40                            | 3348                        |
| 2260.00                                     | 3220.47                              | 3209.57                               | 2840                                  | 2936                   | 21.36                            | 47.77                             | 84.25                            | 4195                        |
| 2262.00                                     | 3224.34                              | 3213.44                               | 2841                                  | 2937                   | 21.32                            | 47.70                             | 84.13                            | 3869                        |
| 2264.00                                     | 3227.77                              | 3216.87                               | 2842                                  | 2938                   | 21.30                            | 47.64                             | 84.03                            | 3432                        |
| 2266.00                                     | 3231.16                              | 3220.26                               | 2842                                  | 2938                   | 21.27                            | 47.59                             | 83.93                            | 3388                        |
| 2268.00                                     | 3234.42                              | 3223.52                               | 2843                                  | 2938                   | 21.25                            | 47.54                             | 83.85                            | 3262                        |
| 2270.00                                     | 3238.05                              | 3227.15                               | 2843                                  | 2939                   | 21.22                            | 47.47                             | 83.74                            | 3621                        |
| 2272.00                                     | 3241.67                              | 3230.77                               | 2844                                  | 2940                   | 21.19                            | 47.41                             | 83.63                            | 3627                        |
| 2274.00                                     | 3245.40                              | 3234.50                               | 2845                                  | 2941                   | 21.16                            | 47.35                             | 83.51                            | 3729                        |
| 2276.00                                     | 3249.14                              | 3238.24                               | 2846                                  | 2941                   | 21.13                            | 47.28                             | 83.40                            | 3739                        |
| 2278.00                                     | 3253.35                              | 3242.45                               | 2847                                  | 2943                   | 21.10                            | 47.20                             | 83.25                            | 4213                        |
| 2280.00                                     | 3257.70                              | 3246.80                               | 2848                                  | 2944                   | 21.06                            | 47.11                             | 83.10                            | 4343                        |
| 2282.00                                     | 3261.29                              | 3250.39                               | 2849                                  | 2945                   | 21.03                            | 47.05                             | 82.99                            | 3595                        |
| 2284.00                                     | 3264.49                              | 3253.59                               | 2849                                  | 2945                   | 21.01                            | 47.00                             | 82.91                            | 3202                        |
| 2286.00                                     | 3268.00                              | 3257.10                               | 2850                                  | 2946                   | 20.98                            | 46.94                             | 82.81                            | 3503                        |
| 2288.00                                     | 3271.26                              | 3260.36                               | 2850                                  | 2946                   | 20.96                            | 46.89                             | 82.72                            | 3265                        |
| 2290.00                                     | 3274.67                              | 3263.77                               | 2850                                  | 2946                   | 20.93                            | 46.84                             | 82.63                            | 3406                        |
| 2292.00                                     | 3278.16                              | 3267.26                               | 2851                                  | 2947                   | 20.91                            | 46.78                             | 82.53                            | 3494                        |
| 2294.00                                     | 3281.90                              | 3271.00                               | 2852                                  | 2948                   | 20.88                            | 46.72                             | 82.42                            | 3734                        |
| 2296.00                                     | 3285.87                              | 3274.97                               | 2853                                  | 2949                   | 20.85                            | 46.65                             | 82.29                            | 3970                        |
| 2298.00                                     | 3289.40                              | 3278.50                               | 2853                                  | 2949                   | 20.82                            | 46.59                             | 82.19                            | 3533                        |
| 2300.00                                     | 3292.91                              | 3282.01                               | 2854                                  | 2950                   | 20.80                            | 46.53                             | 82.09                            | 3514                        |
| 2302.00                                     | 3296.23                              | 3285.33                               | 2854                                  | 2950                   | 20.77                            | 46.48                             | 82.01                            | 3317                        |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO-WAY<br>TRAVEL<br>TIME<br>FROM SRD<br>MS | MEASURED<br>DEPTH<br>FROM<br>KB<br>M | VERTICAL<br>DEPTH<br>FROM<br>SRD<br>M | AVERAGE<br>VELOCITY<br>SRD/GEO<br>M/S | RMS<br>VELOCITY<br>M/S | FIRST<br>NORMAL<br>MOVEOUT<br>MS | SECOND<br>NORMAL<br>MOVEOUT<br>MS | THIRD<br>NORMAL<br>MOVEOUT<br>MS | INTERVAL<br>VELOCITY<br>M/S |
|---|--------------------------------------|---------------------------------------|---------------------------------------|------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------|
| 2304.00                                     | 3300.99                              | 3290.09                               | 2856                                  | 2952                   | 20.73                            | 46.38                             | 81.83                            | 4758                        |
| 2306.00                                     | 3304.28                              | 3293.38                               | 2856                                  | 2952                   | 20.70                            | 46.33                             | 81.74                            | 3286                        |
| 2308.00                                     | 3307.71                              | 3296.81                               | 2857                                  | 2953                   | 20.68                            | 46.28                             | 81.65                            | 3437                        |
| 2310.00                                     | 3311.18                              | 3300.28                               | 2857                                  | 2953                   | 20.66                            | 46.22                             | 81.55                            | 3465                        |
| 2312.00                                     | 3314.39                              | 3303.49                               | 2858                                  | 2954                   | 20.63                            | 46.17                             | 81.47                            | 3212                        |
| 2314.00                                     | 3317.50                              | 3306.60                               | 2858                                  | 2954                   | 20.62                            | 46.13                             | 81.40                            | 3107                        |
| 2316.00                                     | 3320.82                              | 3309.92                               | 2858                                  | 2954                   | 20.59                            | 46.08                             | 81.31                            | 3321                        |
| 2318.00                                     | 3324.92                              | 3314.02                               | 2859                                  | 2955                   | 20.56                            | 46.01                             | 81.18                            | 4105                        |
| 2320.00                                     | 3329.68                              | 3318.78                               | 2861                                  | 2957                   | 20.51                            | 45.90                             | 81.00                            | 4759                        |
| 2322.00                                     | 3333.50                              | 3322.60                               | 2862                                  | 2958                   | 20.48                            | 45.84                             | 80.89                            | 3817                        |
| 2324.00                                     | 3337.06                              | 3326.16                               | 2862                                  | 2959                   | 20.46                            | 45.78                             | 80.79                            | 3560                        |
| 2326.00                                     | 3340.50                              | 3329.60                               | 2863                                  | 2959                   | 20.44                            | 45.73                             | 80.70                            | 3444                        |
| 2328.00                                     | 3343.61                              | 3332.71                               | 2863                                  | 2959                   | 20.42                            | 45.69                             | 80.63                            | 3105                        |
| 2330.00                                     | 3346.71                              | 3335.81                               | 2863                                  | 2959                   | 20.40                            | 45.65                             | 80.55                            | 3098                        |
| 2332.00                                     | 3349.80                              | 3338.90                               | 2864                                  | 2960                   | 20.38                            | 45.60                             | 80.48                            | 3094                        |

ANALYST: M. SANDERS

25-SEP-85 22:48:07

PROGRAM: GTRFRM 007.E08

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*****  
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*  
*  
*****  
*  
*   SCHLUMBERGER   *  
*  
*  
*****
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SYNTHETIC SEISMOGRAM TABLE

COMPANY : AMOCO AUSTRALIA PETROLEUM CO  
WELL : YOLLA #1  
FIELD : WILDCAT  
STATE : TASMANIA  
COUNTRY : AUSTRALIA  
REFERENCE: 540,388

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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THE HEADINGS AND FLAGS SHOWN IN THE DATA LIST ARE DEFINED AS FOLLOWS:

IGEOFL- FLAG INDICATING MODE OF PROCESSING  
 IGEOFL = 0 WST DATA AVAILABLE AND PROCESSED  
 IGEOFL = 1 WST DATA NOT AVAILABLE

LOG INPUT DATA :  
 GRFO01- CHANNEL NAME FOR INPUT DENSITY LOG DATA  
 GTRO01- CHANNEL NAME FOR INPUT SONIC LOG DATA  
 GCURVE- CORRELATION LOG NAMES

USER DEFINED MODELING

LOFVEL- LAYER OPTION FLAG FOR VELOCITY  
 LOFDEN- LAYER OPTION FLAG FOR DENSITY  
 LAYVEL- LAYERED VELOCITY VALUES FOR USER SUPPLIED ZONE LIMIT  
 WITH RESPECT TO SONIC LOG DATA  
 LAYDEN- LAYERED DENSITY VALUES FOR USER SUPPLIED ZONE LIMITS  
 WITH RESPECT TO SONIC LOG DATA  
 UNERTH- UNIFORM EARTH VELOCITY  
 UNFDEN- UNIFORM EARTH DENSITY  
 SRATE SAMPLING RATE IN MS  
 INIDEP START DEPTH FOR COMPUTING SYNTHETIC SEISMOGRAM  
 WITH RESPECT TO SONIC LOG DATA  
 IGESTP STOP DEPTH FOR COMPUTING SYNTHETIC SEISMOGRAM  
 WITH RESPECT TO SONIC LOG DATA  
 INITAU TWO WAY TRAVEL TIME FROM TOP SONIC TO SRD  
 EKB ELEVATION OF KELLY BUSHING WITH RESPECT TO  
 MEAN SEA LEVEL  
 SRDGEO SEISMIC REFERENCE DEPTH WITH RESPECT TO  
 MEAN SEA LEVEL  
 ICDP FLAG FOR COMPUTING RESIDUAL MULTIPLES  
 CDPTIM TWO WAY TIME INTERVAL FOR COMPUTATION OF  
 RESIDUAL MULTIPLES  
 SCRTIM SURFACE REFLECTOR TWO WAY TIME ABOVE INITAU  
 SCREFL SURFACE REFLECTION COEFFICIENT  
 RCMAX REFLECTION COEFFICIENTS THAT ARE EQUAL TO OR  
 GREATER THAN THIS VALUE SHALL BE FLAGGED

\*NOTE\* IN CASE OF MODELING A SYNTHETIC SEISMOGRAM WITHOUT  
 SONIC LOG DATA ,THE DEPTH REFERENCES SHALL BE USER  
 DEFINED

OUTPUT DATA

RMSVWE ROOT MEAN SQUARE VELOCITY FOUND FOR THE WELL  
 SRDTIM TWO WAY TRANSIT TIME BETWEEN INIDEP AND SRDGEO

CHANNEL NAMES

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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TWOT- TWO WAY TRAVEL TIME  
 DSRD- DEPTH OF COMPUTED DATA WITH RESPECT TO SRD  
 INTV- INTERVAL VELOCITY ON A TIME SCALE  
 RHOT- INTERVAL DENSITY ON A TIME SCALE  
 REFL- REFLECTION COEFFICIENT AT GIVEN TWO WAY TRAVEL TIMES  
 ATTE- ATTENUATION COEFFICIENT AT GIVEN TWO WAY TRAVEL TIMES  
 PRIM- SYNTHETIC SEISMOGRAM - PRIMARIES  
 MULT- SYNTHETIC SEISMOGRAM - PRIMARIES + MULTIPLES  
 MUON- MULTIPLES ONLY

## CHANNEL NAMES

CHAN 1 - TWOT.GMU.002.\*  
 CHAN 2 - DSRD.GRF.006.\*  
 CHAN 3 - INTV.GRF.007.\*  
 CHAN 4 - RHOT.GRF.001.\*  
 CHAN 5 - REFL.GRF.001.\*  
 CHAN 6 - ATTE.GRF.001.\*  
 CHAN 7 - PRIM.GRF.001.\*  
 CHAN 8 - MULT.GMU.001.\*  
 CHAN 9 - MUON.GMU.001.\*

## (GLOBAL PARAMETERS)

## (VALUE)

|                            |        |   |          |      |
|----------------------------|--------|---|----------|------|
| MODE OF PROC (GEOGRAM)     | IGEOF  | : | 0        |      |
| INITIALIZE CDP LOGIC       | ICDP   | : | 0        |      |
| CDP TIME                   | CDPTIM | : | .200000  | S    |
| TIME SAMPLING (WST)        | SRATE  | : | 2.00000  | MS   |
| TOP DEPTH OF PROCESSING    | INIDEP | : | 405.540  | M    |
| BOTTOM DEPTH OF PROCESSING | IGESTP | : | 3337.47  | M    |
| INITIAL TWO WAY TRAVEL T   | INITAU | : | .386000  | S    |
| SRD FOR GEOGRAM            | SRDGEO | : | -30479.7 | M    |
| ELEVATION OF KELLY BUSHI   | EKB    | : | 0        | M    |
| SRD TIME                   | SRDTIM | : | 0        | MS   |
| SURFACE COEFFICIENT OF R   | SCRTIM | : | 0        | MS   |
| SURFACE COEFFICIENT OF R   | SCREFL | : | -1.00000 |      |
| REFLECTION COEFF MAXIMUM   | RCMAX  | : | .300000  |      |
| RMS VELOCITY IN WELL       | RMSVWE | : | 3103.94  | M/S  |
| UNIFORM EARTH VELOCITY     | UNERTH | : | 2133.60  | M/S  |
| UNIFORM DENSITY VALUE      | UNFDEN | : | 2.30000  | G/C3 |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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## (MATRIX PARAMETERS)

1 GR\*  
2 CALI\*

## (ZONED PARAMETERS)

|                          |        | (VALUE)    | (LIMITS) |           |
|--------------------------|--------|------------|----------|-----------|
| LAYER OPTION FLAG DENS   | LOFDEN | :-1.000000 | 30479.7  | = 0       |
| LAYER OPTION FLAG VELOC  | LOFVEL | :-1.000000 | 30479.7  | = 0       |
| USER SUPPLIED DENSITY DA | LAYDEN | :-999.2500 | 30479.7  | = 0       |
| USER VELOC (WST)         | LAYVEL | :-2471.000 | 940.000  | = 415.000 |
|                          |        | 2287.000   | 415.000  | 79.5000   |
|                          |        | 1500.000   | 79.5000  | 0         |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 388.0                           | 408.05                             | 2510                        | 2.200                       | -.009              | .99992                      | -.00882                         | -.00882                   | 0                 |
| 390.0                           | 410.52                             | 2466                        | 2.200                       | .001               | .99992                      | .00095                          | .00088                    | -.00008           |
| 392.0                           | 412.99                             | 2471                        | 2.200                       | .010               | .99982                      | .01029                          | .01030                    | .00002            |
| 394.0                           | 415.51                             | 2522                        | 2.200                       | -.002              | .99981                      | -.00243                         | -.00225                   | .00018            |
| 396.0                           | 418.02                             | 2510                        | 2.200                       | -.002              | .99980                      | -.00224                         | -.00230                   | -.00006           |
| 398.0                           | 420.52                             | 2499                        | 2.200                       | -.003              | .99979                      | -.00311                         | -.00325                   | -.00014           |
| 400.0                           | 423.00                             | 2483                        | 2.200                       | .004               | .99978                      | .00406                          | .00405                    | 0                 |
| 402.0                           | 425.51                             | 2504                        | 2.200                       | .009               | .99969                      | .00934                          | .00946                    | .00012            |
| 404.0                           | 428.06                             | 2551                        | 2.200                       | -.004              | .99968                      | -.00383                         | -.00361                   | .00021            |
| 406.0                           | 430.59                             | 2531                        | 2.200                       | .002               | .99967                      | .00159                          | .00140                    | -.00018           |
| 408.0                           | 433.13                             | 2539                        | 2.200                       | .003               | .99967                      | .00261                          | .00245                    | -.00016           |
| 410.0                           | 435.68                             | 2553                        | 2.200                       | -.002              | .99966                      | -.00193                         | -.00176                   | .00017            |
| 412.0                           | 438.22                             | 2543                        | 2.200                       | .002               | .99966                      | .00222                          | .00220                    | -.00002           |
| 414.0                           | 440.78                             | 2554                        | 2.200                       | .003               | .99965                      | .00289                          | .00291                    | .00002            |
| 416.0                           | 443.35                             | 2569                        | 2.200                       | .003               | .99964                      | .00291                          | .00291                    | 0                 |
| 418.0                           | 445.93                             | 2584                        | 2.200                       | .001               | .99964                      | .00116                          | .00111                    | -.00005           |
| 420.0                           | 448.52                             | 2590                        | 2.200                       | .012               | .99951                      | .01160                          | .01163                    | .00003            |
| 422.0                           | 451.17                             | 2651                        | 2.200                       | -.012              | .99937                      | -.01171                         | -.01161                   | .00009            |
| 424.0                           | 453.76                             | 2589                        | 2.200                       | .010               | .99926                      | .01034                          | .01011                    | -.00023           |
| 426.0                           | 456.40                             | 2644                        | 2.200                       | .002               | .99926                      | .00179                          | .00183                    | .00003            |
| 428.0                           | 459.06                             | 2653                        | 2.200                       | -.017              | .99896                      | -.01738                         | -.01713                   | .00025            |
| 430.0                           | 461.62                             | 2562                        | 2.200                       | .004               | .99894                      | .00436                          | .00378                    | -.00059           |
| 432.0                           | 464.21                             | 2585                        | 2.200                       | 0                  | .99894                      | .00023                          | .00033                    | .00010            |
| 434.0                           | 466.79                             | 2586                        | 2.200                       | .001               | .99894                      | .00060                          | .00082                    | .00022            |
|                                 |                                    | 2589                        | 2.200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 436.0                           | 469.38                             |                             |                             | .004               | .99892                      | .00412                          | .00390                    | -.00022           |
| 438.0                           | 471.99                             | 2611                        | 2.200                       | -.005              | .99890                      | -.00474                         | -.00451                   | .00024            |
| 440.0                           | 474.58                             | 2586                        | 2.200                       | .002               | .99889                      | .00156                          | .00102                    | -.00053           |
| 442.0                           | 477.17                             | 2594                        | 2.200                       | 0                  | .99889                      | .00021                          | .00032                    | .00011            |
| 444.0                           | 479.77                             | 2595                        | 2.200                       | .001               | .99889                      | .00060                          | .00108                    | .00048            |
| 446.0                           | 482.36                             | 2598                        | 2.200                       | -.004              | .99888                      | -.00430                         | -.00468                   | -.00038           |
| 448.0                           | 484.94                             | 2576                        | 2.200                       | 0                  | .99888                      | .00005                          | .00004                    | -.00001           |
| 450.0                           | 487.52                             | 2576                        | 2.200                       | .009               | .99880                      | .00877                          | .00873                    | -.00004           |
| 452.0                           | 490.14                             | 2622                        | 2.200                       | .003               | .99879                      | .00304                          | .00316                    | .00013            |
| 454.0                           | 492.78                             | 2638                        | 2.200                       | -.007              | .99874                      | -.00669                         | -.00665                   | .00004            |
| 456.0                           | 495.38                             | 2603                        | 2.200                       | .002               | .99874                      | .00200                          | .00192                    | -.00007           |
| 458.0                           | 497.99                             | 2613                        | 2.200                       | .007               | .99869                      | .00739                          | .00707                    | -.00032           |
| 460.0                           | 500.64                             | 2652                        | 2.200                       | -.002              | .99868                      | -.00222                         | -.00164                   | .00059            |
| 462.0                           | 503.28                             | 2640                        | 2.200                       | .015               | .99847                      | .01467                          | .01500                    | .00033            |
| 464.0                           | 506.00                             | 2719                        | 2.200                       | .003               | .99846                      | .00255                          | .00203                    | -.00053           |
| 466.0                           | 508.74                             | 2733                        | 2.200                       | .010               | .99837                      | .00965                          | .00997                    | .00032            |
| 468.0                           | 511.52                             | 2786                        | 2.200                       | -.005              | .99834                      | -.00527                         | -.00531                   | -.00005           |
| 470.0                           | 514.28                             | 2757                        | 2.200                       | .011               | .99821                      | .01138                          | .01103                    | -.00035           |
| 472.0                           | 517.10                             | 2821                        | 2.200                       | -.003              | .99820                      | -.00312                         | -.00291                   | .00021            |
| 474.0                           | 519.90                             | 2803                        | 2.200                       | -.007              | .99815                      | -.00668                         | -.00678                   | -.00010           |
| 476.0                           | 522.67                             | 2766                        | 2.200                       | -.001              | .99815                      | -.00070                         | -.00090                   | -.00021           |
| 478.0                           | 525.43                             | 2762                        | 2.200                       | -.006              | .99811                      | -.00637                         | -.00652                   | -.00015           |
| 480.0                           | 528.16                             | 2727                        | 2.200                       | 0                  | .99811                      | .00007                          | -.00006                   | -.00013           |
| 482.0                           | 530.89                             | 2727                        | 2.200                       | -.005              | .99809                      | -.00464                         | -.00478                   | -.00014           |
| 484.0                           | 533.59                             | 2702                        | 2.200                       | .001               | .99809                      | .00079                          | .00065                    | -.00014           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 486.0                           | 536.29                             | 2706                        | 2.200                       | -.007              | .99805                      | -.00661                         | -.00674                   | -.00013           |
| 488.0                           | 538.96                             | 2671                        | 2.200                       | .002               | .99804                      | .00213                          | .00206                    | -.00007           |
| 490.0                           | 541.65                             | 2682                        | 2.200                       | .002               | .99804                      | .00201                          | .00172                    | -.00029           |
| 492.0                           | 544.34                             | 2693                        | 2.200                       | .007               | .99799                      | .00691                          | .00720                    | .00029            |
| 494.0                           | 547.07                             | 2731                        | 2.200                       | -.008              | .99793                      | -.00770                         | -.00733                   | .00037            |
| 496.0                           | 549.76                             | 2689                        | 2.200                       | -.005              | .99791                      | -.00482                         | -.00586                   | -.00103           |
| 498.0                           | 552.42                             | 2663                        | 2.200                       | -.012              | .99776                      | -.01232                         | -.01217                   | .00015            |
| 500.0                           | 555.02                             | 2598                        | 2.200                       | .011               | .99764                      | .01093                          | .01066                    | -.00027           |
| 502.0                           | 557.68                             | 2655                        | 2.200                       | -.005              | .99761                      | -.00508                         | -.00441                   | .00067            |
| 504.0                           | 560.30                             | 2629                        | 2.200                       | .001               | .99761                      | .00086                          | .00099                    | .00012            |
| 506.0                           | 562.94                             | 2633                        | 2.200                       | 0                  | .99761                      | -.00002                         | -.00012                   | -.00010           |
| 508.0                           | 565.57                             | 2633                        | 2.200                       | .006               | .99757                      | .00611                          | .00634                    | .00023            |
| 510.0                           | 568.24                             | 2665                        | 2.200                       | -.002              | .99757                      | -.00224                         | -.00222                   | .00002            |
| 512.0                           | 570.89                             | 2653                        | 2.200                       | .003               | .99756                      | .00332                          | .00407                    | .00075            |
| 514.0                           | 573.56                             | 2671                        | 2.200                       | -.003              | .99755                      | -.00267                         | -.00295                   | -.00028           |
| 516.0                           | 576.22                             | 2657                        | 2.200                       | .001               | .99755                      | .00060                          | .00036                    | -.00025           |
| 518.0                           | 578.88                             | 2660                        | 2.200                       | .007               | .99750                      | .00674                          | .00706                    | .00031            |
| 520.0                           | 581.57                             | 2696                        | 2.200                       | -.009              | .99742                      | -.00893                         | -.00890                   | .00003            |
| 522.0                           | 584.22                             | 2649                        | 2.200                       | .002               | .99742                      | .00196                          | .00158                    | -.00038           |
| 524.0                           | 586.88                             | 2659                        | 2.200                       | .003               | .99741                      | .00310                          | .00310                    | .00001            |
| 526.0                           | 589.56                             | 2675                        | 2.200                       | .008               | .99735                      | .00768                          | .00786                    | .00018            |
| 528.0                           | 592.27                             | 2717                        | 2.200                       | .006               | .99731                      | .00621                          | .00616                    | -.00005           |
| 530.0                           | 595.02                             | 2751                        | 2.200                       | -.004              | .99729                      | -.00442                         | -.00439                   | .00003            |
| 532.0                           | 597.75                             | 2727                        | 2.200                       | -.004              | .99728                      | -.00386                         | -.00380                   | .00006            |
|                                 |                                    | 2706                        | 2.200                       |                    |                             |                                 |                           |                   |

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WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 534.0                           | 600.46                             |                             |                             | .005               | .99725                      | .00494                          | .00417                    | -.00077           |
| 536.0                           | 603.19                             | 2733                        | 2.200                       | 0                  | .99725                      | -.00032                         | .00045                    | .00078            |
| 538.0                           | 605.92                             | 2731                        | 2.200                       | -.006              | .99722                      | -.00600                         | -.00669                   | -.00069           |
| 540.0                           | 608.62                             | 2698                        | 2.200                       | .009               | .99714                      | .00855                          | .00796                    | -.00059           |
| 542.0                           | 611.36                             | 2745                        | 2.200                       | .017               | .99684                      | .01743                          | .01727                    | -.00015           |
| 544.0                           | 614.21                             | 2843                        | 2.200                       | .008               | .99677                      | .00831                          | .00901                    | .00071            |
| 546.0                           | 617.10                             | 2890                        | 2.200                       | .009               | .99670                      | .00849                          | .00796                    | -.00053           |
| 548.0                           | 620.04                             | 2940                        | 2.200                       | -.008              | .99664                      | -.00760                         | -.00744                   | .00016            |
| 550.0                           | 622.93                             | 2896                        | 2.200                       | 0                  | .99664                      | .00045                          | .00009                    | -.00037           |
| 552.0                           | 625.83                             | 2898                        | 2.200                       | -.008              | .99657                      | -.00800                         | -.00763                   | .00037            |
| 554.0                           | 628.68                             | 2852                        | 2.200                       | .011               | .99645                      | .01122                          | .01187                    | .00065            |
| 556.0                           | 631.60                             | 2917                        | 2.200                       | 0                  | .99645                      | -.00012                         | -.00089                   | -.00077           |
| 558.0                           | 634.52                             | 2916                        | 2.200                       | -.001              | .99645                      | -.00140                         | -.00098                   | .00042            |
| 560.0                           | 637.42                             | 2908                        | 2.200                       | .002               | .99644                      | .00165                          | .00159                    | -.00006           |
| 562.0                           | 640.34                             | 2918                        | 2.200                       | .001               | .99644                      | .00115                          | .00106                    | -.00009           |
| 564.0                           | 643.27                             | 2924                        | 2.200                       | -.002              | .99644                      | -.00184                         | -.00179                   | .00005            |
| 566.0                           | 646.18                             | 2914                        | 2.200                       | -.003              | .99643                      | -.00259                         | -.00262                   | -.00003           |
| 568.0                           | 649.08                             | 2899                        | 2.200                       | -.003              | .99642                      | -.00328                         | -.00338                   | -.00010           |
| 570.0                           | 651.96                             | 2880                        | 2.200                       | .008               | .99636                      | .00750                          | .00786                    | .00036            |
| 572.0                           | 654.88                             | 2923                        | 2.200                       | -.008              | .99631                      | -.00764                         | -.00805                   | -.00041           |
| 574.0                           | 657.76                             | 2879                        | 2.200                       | -.010              | .99621                      | -.01001                         | -.01015                   | -.00014           |
| 576.0                           | 660.58                             | 2821                        | 2.200                       | -.008              | .99615                      | -.00770                         | -.00853                   | -.00083           |
| 578.0                           | 663.36                             | 2778                        | 2.200                       | -.002              | .99614                      | -.00188                         | -.00122                   | .00066            |
| 580.0                           | 666.13                             | 2768                        | 2.200                       | .005               | .99612                      | .00470                          | .00418                    | -.00053           |
| 582.0                           | 668.92                             | 2794                        | 2.200                       | -.015              | .99589                      | -.01509                         | -.01420                   | .00089            |

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WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 584.0                           | 671.63                             | 2711                        | 2,200                       | .005               | .99587                      | .00472                          | .00391                    | -.00081           |
| 586.0                           | 674.37                             | 2736                        | 2,200                       | .004               | .99585                      | .00432                          | .00482                    | .00049            |
| 588.0                           | 677.13                             | 2760                        | 2,200                       | -.014              | .99567                      | -.01355                         | -.01342                   | .00013            |
| 590.0                           | 679.81                             | 2686                        | 2,200                       | -.011              | .99555                      | -.01056                         | -.01110                   | -.00054           |
| 592.0                           | 682.44                             | 2630                        | 2,200                       | .015               | .99533                      | .01484                          | .01437                    | -.00048           |
| 594.0                           | 685.15                             | 2709                        | 2,200                       | .001               | .99533                      | .00086                          | .00094                    | .00008            |
| 596.0                           | 687.87                             | 2714                        | 2,200                       | -.005              | .99531                      | -.00449                         | -.00339                   | .00109            |
| 598.0                           | 690.56                             | 2690                        | 2,200                       | .034               | .99414                      | .03414                          | .03342                    | -.00072           |
| 600.0                           | 693.44                             | 2881                        | 2,200                       | .018               | .99381                      | .01802                          | .01873                    | .00070            |
| 602.0                           | 696.43                             | 2987                        | 2,200                       | -.005              | .99379                      | -.00507                         | -.00453                   | .00053            |
| 604.0                           | 699.38                             | 2957                        | 2,200                       | -.031              | .99282                      | -.03102                         | -.03138                   | -.00036           |
| 606.0                           | 702.16                             | 2778                        | 2,200                       | -.011              | .99270                      | -.01070                         | -.01194                   | -.00124           |
| 608.0                           | 704.88                             | 2719                        | 2,200                       | -.019              | .99235                      | -.01868                         | -.01901                   | -.00034           |
| 610.0                           | 707.50                             | 2618                        | 2,200                       | .019               | .99200                      | .01881                          | .01953                    | .00071            |
| 612.0                           | 710.22                             | 2719                        | 2,200                       | -.032              | .99099                      | -.03157                         | -.03087                   | .00070            |
| 614.0                           | 712.77                             | 2552                        | 2,200                       | .018               | .99069                      | .01737                          | .01578                    | -.00159           |
| 616.0                           | 715.41                             | 2643                        | 2,200                       | .007               | .99064                      | .00659                          | .00663                    | .00004            |
| 618.0                           | 718.09                             | 2678                        | 2,200                       | -.043              | .98882                      | -.04251                         | -.04281                   | -.00030           |
| 620.0                           | 720.55                             | 2458                        | 2,200                       | .062               | .98496                      | .06176                          | .06069                    | -.00107           |
| 622.0                           | 723.33                             | 2785                        | 2,200                       | -.011              | .98483                      | -.01126                         | -.00936                   | .00190            |
| 624.0                           | 726.05                             | 2722                        | 2,200                       | .002               | .98483                      | .00172                          | .00178                    | .00007            |
| 626.0                           | 728.79                             | 2732                        | 2,200                       | .019               | .98447                      | .01870                          | .01632                    | -.00238           |
| 628.0                           | 731.62                             | 2838                        | 2,200                       | -.005              | .98445                      | -.00537                         | -.00284                   | .00254            |
| 630.0                           | 734.43                             | 2807                        | 2,200                       | .006               | .98441                      | .00611                          | .00425                    | -.00185           |
|                                 |                                    | 2842                        | 2,200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 632.0                           | 737.27                             | 2855                        | 2,200                       | .002               | .98440                      | .00225                          | .00199                    | -.00026           |
| 634.0                           | 740.13                             | 2780                        | 2,200                       | -.013              | .98423                      | -.01310                         | -.01093                   | .00217            |
| 636.0                           | 742.91                             | 2863                        | 2,200                       | .015               | .98401                      | .01450                          | .01298                    | -.00153           |
| 638.0                           | 745.77                             | 2732                        | 2,200                       | -.023              | .98348                      | -.02298                         | -.02110                   | .00188            |
| 640.0                           | 748.50                             | 2725                        | 2,200                       | -.001              | .98348                      | -.00130                         | -.00087                   | .00043            |
| 642.0                           | 751.23                             | 2706                        | 2,200                       | -.003              | .98346                      | -.00339                         | -.00346                   | -.00007           |
| 644.0                           | 753.93                             | 2608                        | 2,200                       | -.018              | .98313                      | -.01819                         | -.01761                   | .00057            |
| 646.0                           | 756.54                             | 2535                        | 2,200                       | -.014              | .98293                      | -.01387                         | -.01394                   | -.00007           |
| 648.0                           | 759.08                             | 2506                        | 2,200                       | -.006              | .98290                      | -.00566                         | -.00824                   | -.00258           |
| 650.0                           | 761.58                             | 2474                        | 2,200                       | -.007              | .98286                      | -.00639                         | -.00608                   | .00032            |
| 652.0                           | 764.06                             | 2536                        | 2,200                       | .012               | .98271                      | .01208                          | .01508                    | .00300            |
| 654.0                           | 766.59                             | 2461                        | 2,200                       | -.015              | .98249                      | -.01472                         | -.01646                   | -.00173           |
| 656.0                           | 769.05                             | 2607                        | 2,200                       | .029               | .98167                      | .02830                          | .03001                    | .00171            |
| 658.0                           | 771.66                             | 2351                        | 2,200                       | -.052              | .97907                      | -.05059                         | -.05065                   | -.00007           |
| 660.0                           | 774.01                             | 2457                        | 2,200                       | .022               | .97859                      | .02162                          | .01909                    | -.00253           |
| 662.0                           | 776.47                             | 2485                        | 2,200                       | .006               | .97856                      | .00539                          | .00880                    | .00341            |
| 664.0                           | 778.95                             | 2390                        | 2,200                       | -.019              | .97819                      | -.01905                         | -.02058                   | -.00153           |
| 666.0                           | 781.34                             | 2303                        | 2,200                       | -.019              | .97785                      | -.01814                         | -.01858                   | -.00044           |
| 668.0                           | 783.64                             | 2295                        | 2,200                       | -.002              | .97785                      | -.00158                         | -.00085                   | .00072            |
| 670.0                           | 785.94                             | 2347                        | 2,200                       | .011               | .97773                      | .01093                          | .00977                    | -.00117           |
| 672.0                           | 788.29                             | 2322                        | 2,200                       | -.005              | .97770                      | -.00529                         | -.00354                   | .00175            |
| 674.0                           | 790.61                             | 2368                        | 2,200                       | .010               | .97760                      | .00964                          | .00926                    | -.00039           |
| 676.0                           | 792.98                             | 2502                        | 2,200                       | .028               | .97686                      | .02693                          | .02487                    | -.00206           |
| 678.0                           | 795.48                             | 2496                        | 2,200                       | -.001              | .97686                      | -.00123                         | .00040                    | .00162            |
| 680.0                           | 797.98                             |                             | 2,200                       | .012               | .97671                      | .01211                          | .01318                    | .00107            |

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WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 682.0                           | 800.53                             | 2559                        | 2,200                       | -.025              | .97610                      | -.02449                         | -.02487                   | -.00037           |
| 684.0                           | 802.97                             | 2434                        | 2,200                       | .005               | .97607                      | .00478                          | .00461                    | -.00017           |
| 686.0                           | 805.43                             | 2457                        | 2,200                       | -.018              | .97574                      | -.01789                         | -.02026                   | -.00237           |
| 688.0                           | 807.79                             | 2369                        | 2,200                       | -.009              | .97567                      | -.00831                         | -.00294                   | .00537            |
| 690.0                           | 810.12                             | 2329                        | 2,200                       | -.032              | .97465                      | -.03155                         | -.03524                   | -.00369           |
| 692.0                           | 812.31                             | 2183                        | 2,200                       | .060               | .97111                      | .05880                          | .05979                    | .00099            |
| 694.0                           | 814.77                             | 2463                        | 2,200                       | -.030              | .97022                      | -.02941                         | -.02755                   | .00186            |
| 696.0                           | 817.09                             | 2319                        | 2,200                       | .013               | .97006                      | .01230                          | .01014                    | -.00216           |
| 698.0                           | 819.47                             | 2378                        | 2,200                       | -.003              | .97005                      | -.00271                         | -.00170                   | .00101            |
| 700.0                           | 821.83                             | 2365                        | 2,200                       | .001               | .97005                      | .00117                          | -.00356                   | -.00472           |
| 702.0                           | 824.20                             | 2371                        | 2,200                       | .003               | .97004                      | .00271                          | .00429                    | .00158            |
| 704.0                           | 826.59                             | 2384                        | 2,200                       | -.074              | .96474                      | -.07170                         | -.07197                   | -.00027           |
| 706.0                           | 828.64                             | 2056                        | 2,200                       | -.038              | .96336                      | -.03654                         | -.04108                   | -.00454           |
| 708.0                           | 830.55                             | 1906                        | 2,200                       | .016               | .96313                      | .01506                          | .01417                    | -.00089           |
| 710.0                           | 832.51                             | 1966                        | 2,200                       | 0                  | .96313                      | -.00024                         | .00471                    | .00495            |
| 712.0                           | 834.48                             | 1965                        | 2,200                       | .016               | .96289                      | .01515                          | .01492                    | -.00023           |
| 714.0                           | 836.51                             | 2028                        | 2,200                       | -.022              | .96243                      | -.02102                         | -.02137                   | -.00035           |
| 716.0                           | 838.45                             | 1941                        | 2,200                       | -.018              | .96213                      | -.01690                         | -.01775                   | -.00085           |
| 718.0                           | 840.32                             | 1874                        | 2,200                       | .019               | .96179                      | .01818                          | .01792                    | -.00026           |
| 720.0                           | 842.27                             | 1947                        | 2,200                       | -.008              | .96173                      | -.00741                         | -.00305                   | .00436            |
| 722.0                           | 844.19                             | 1917                        | 2,200                       | .021               | .96130                      | .02041                          | .02299                    | .00258            |
| 724.0                           | 846.19                             | 2000                        | 2,200                       | -.017              | .96103                      | -.01611                         | -.01662                   | -.00051           |
| 726.0                           | 848.12                             | 1934                        | 2,200                       | .010               | .96094                      | .00930                          | .00789                    | -.00142           |
| 728.0                           | 850.09                             | 1972                        | 2,200                       | .015               | .96073                      | .01407                          | .01544                    | .00137            |
|                                 |                                    | 2030                        | 2,200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 730.0                           | 852.12                             | 1965                        | 2.200                       | -.016              | .96048                      | -.01563                         | -.01313                   | .00251            |
| 732.0                           | 854.09                             | 1911                        | 2.200                       | -.014              | .96029                      | -.01350                         | -.01428                   | -.00078           |
| 734.0                           | 856.00                             | 1761                        | 2.200                       | -.041              | .95869                      | -.03919                         | -.03803                   | .00116            |
| 736.0                           | 857.76                             | 1833                        | 2.200                       | .020               | .95831                      | .01916                          | .01828                    | -.00088           |
| 738.0                           | 859.59                             | 1796                        | 2.200                       | -.010              | .95820                      | -.00983                         | -.00712                   | .00270            |
| 740.0                           | 861.39                             | 1900                        | 2.200                       | .028               | .95745                      | .02693                          | .02590                    | -.00103           |
| 742.0                           | 863.29                             | 1844                        | 2.200                       | -.015              | .95724                      | -.01420                         | -.01537                   | -.00117           |
| 744.0                           | 865.13                             | 1903                        | 2.200                       | .016               | .95700                      | .01503                          | .02106                    | .00603            |
| 746.0                           | 867.03                             | 2002                        | 2.200                       | .026               | .95638                      | .02441                          | .01972                    | -.00469           |
| 748.0                           | 869.04                             | 1892                        | 2.200                       | -.028              | .95562                      | -.02701                         | -.02510                   | .00191            |
| 750.0                           | 870.93                             | 1996                        | 2.200                       | .027               | .95494                      | .02538                          | .02434                    | -.00104           |
| 752.0                           | 872.93                             | 1998                        | 2.200                       | .001               | .95494                      | .00054                          | -.00087                   | -.00141           |
| 754.0                           | 874.92                             | 2020                        | 2.200                       | .006               | .95491                      | .00535                          | .00649                    | .00114            |
| 756.0                           | 876.94                             | 2025                        | 2.200                       | .001               | .95491                      | .00105                          | -.00468                   | -.00574           |
| 758.0                           | 878.97                             | 1963                        | 2.200                       | -.016              | .95468                      | -.01484                         | -.01510                   | -.00026           |
| 760.0                           | 880.93                             | 2009                        | 2.200                       | .012               | .95455                      | .01103                          | .01283                    | .00180            |
| 762.0                           | 882.94                             | 1889                        | 2.200                       | -.031              | .95366                      | -.02923                         | -.02795                   | .00129            |
| 764.0                           | 884.83                             | 2060                        | 2.200                       | .043               | .95188                      | .04116                          | .04406                    | .00289            |
| 766.0                           | 886.89                             | 1901                        | 2.200                       | -.040              | .95035                      | -.03817                         | -.03665                   | .00152            |
| 768.0                           | 888.79                             | 1846                        | 2.200                       | -.015              | .95015                      | -.01385                         | -.01613                   | -.00228           |
| 770.0                           | 890.64                             | 1934                        | 2.200                       | .023               | .94964                      | .02198                          | .02087                    | -.00111           |
| 772.0                           | 892.57                             | 1897                        | 2.200                       | -.010              | .94955                      | -.00921                         | -.00453                   | .00468            |
| 774.0                           | 894.47                             | 1866                        | 2.200                       | -.008              | .94949                      | -.00787                         | -.01135                   | -.00348           |
| 776.0                           | 896.33                             | 1893                        | 2.200                       | .007               | .94944                      | .00683                          | .00494                    | -.00189           |
| 778.0                           | 898.23                             |                             |                             | .013               | .94928                      | .01232                          | .01155                    | -.00076           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 780.0                           | 900.17                             | 1942                        | 2.200                       | .007               | .94923                      | .00689                          | .01014                    | .00325            |
| 782.0                           | 902.14                             | 1971                        | 2.200                       | .012               | .94909                      | .01127                          | .01485                    | .00358            |
| 784.0                           | 904.16                             | 2018                        | 2.200                       | .017               | .94881                      | .01646                          | .01460                    | -.00186           |
| 786.0                           | 906.25                             | 2089                        | 2.200                       | -.025              | .94821                      | -.02390                         | -.02009                   | .00381            |
| 788.0                           | 908.23                             | 1987                        | 2.200                       | .006               | .94818                      | .00522                          | .00837                    | .00315            |
| 790.0                           | 910.24                             | 2009                        | 2.200                       | .036               | .94696                      | .03400                          | .03336                    | -.00064           |
| 792.0                           | 912.40                             | 2158                        | 2.200                       | -.052              | .94435                      | -.04967                         | -.04812                   | .00155            |
| 794.0                           | 914.34                             | 1943                        | 2.200                       | -.035              | .94317                      | -.03342                         | -.04032                   | -.00690           |
| 796.0                           | 916.15                             | 1810                        | 2.200                       | .023               | .94266                      | .02196                          | .02403                    | .00208            |
| 798.0                           | 918.05                             | 1897                        | 2.200                       | .042               | .94096                      | .04002                          | .03804                    | -.00197           |
| 800.0                           | 920.12                             | 2065                        | 2.200                       | -.029              | .94014                      | -.02773                         | -.02456                   | .00316            |
| 802.0                           | 922.06                             | 1946                        | 2.200                       | -.018              | .93985                      | -.01672                         | -.01645                   | .00027            |
| 804.0                           | 923.94                             | 1878                        | 2.200                       | -.009              | .93977                      | -.00854                         | -.01348                   | -.00495           |
| 806.0                           | 925.78                             | 1845                        | 2.200                       | .020               | .93940                      | .01849                          | .01921                    | .00072            |
| 808.0                           | 927.70                             | 1919                        | 2.200                       | -.025              | .93880                      | -.02374                         | -.02086                   | .00288            |
| 810.0                           | 929.53                             | 1824                        | 2.200                       | .059               | .93552                      | .05554                          | .05401                    | -.00153           |
| 812.0                           | 931.58                             | 2053                        | 2.200                       | .006               | .93548                      | .00558                          | .00794                    | .00236            |
| 814.0                           | 933.66                             | 2078                        | 2.200                       | -.012              | .93534                      | -.01157                         | -.01102                   | .00055            |
| 816.0                           | 935.69                             | 2027                        | 2.200                       | .014               | .93515                      | .01329                          | .00845                    | -.00483           |
| 818.0                           | 937.77                             | 2086                        | 2.200                       | -.033              | .93416                      | -.03049                         | -.02307                   | .00742            |
| 820.0                           | 939.73                             | 1954                        | 2.200                       | .033               | .93314                      | .03083                          | .02847                    | -.00236           |
| 822.0                           | 941.81                             | 2087                        | 2.200                       | -.005              | .93312                      | -.00451                         | -.00150                   | .00301            |
| 824.0                           | 943.88                             | 2067                        | 2.200                       | -.030              | .93228                      | -.02804                         | -.02623                   | .00181            |
| 826.0                           | 945.83                             | 1947                        | 2.200                       | .014               | .93210                      | .01272                          | .00718                    | -.00554           |
|                                 |                                    | 2001                        | 2.200                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 828.0                           | 947.83                             |                             |                             | -.006              | .93206                      | -.00601                         | -.00490                   | .00110            |
| 830.0                           | 949.80                             | 1975                        | 2.200                       | -.007              | .93202                      | -.00653                         | -.00901                   | -.00249           |
| 832.0                           | 951.75                             | 1947                        | 2.200                       | .020               | .93166                      | .01827                          | .01879                    | .00052            |
| 834.0                           | 953.78                             | 2025                        | 2.200                       | .005               | .93163                      | .00499                          | .00179                    | -.00320           |
| 836.0                           | 955.82                             | 2047                        | 2.200                       | 0                  | .93163                      | .00012                          | -.00473                   | -.00484           |
| 838.0                           | 957.87                             | 2048                        | 2.200                       | -.018              | .93134                      | -.01642                         | -.00990                   | .00652            |
| 840.0                           | 959.85                             | 1977                        | 2.200                       | .014               | .93115                      | .01331                          | .00898                    | -.00433           |
| 842.0                           | 961.88                             | 2034                        | 2.200                       | -.007              | .93111                      | -.00619                         | -.00021                   | .00598            |
| 844.0                           | 963.89                             | 2007                        | 2.200                       | -.008              | .93106                      | -.00714                         | -.01105                   | -.00390           |
| 846.0                           | 965.87                             | 1977                        | 2.200                       | .001               | .93106                      | .00082                          | .00777                    | .00695            |
| 848.0                           | 967.85                             | 1980                        | 2.200                       | .015               | .93085                      | .01405                          | .00995                    | -.00410           |
| 850.0                           | 969.89                             | 2041                        | 2.200                       | -.029              | .93008                      | -.02669                         | -.03021                   | -.00352           |
| 852.0                           | 971.81                             | 1927                        | 2.200                       | .013               | .92992                      | .01225                          | .02168                    | .00943            |
| 854.0                           | 973.79                             | 1978                        | 2.200                       | -.002              | .92992                      | -.00192                         | -.00984                   | -.00792           |
| 856.0                           | 975.76                             | 1970                        | 2.200                       | .018               | .92963                      | .01631                          | .01924                    | .00293            |
| 858.0                           | 977.80                             | 2041                        | 2.200                       | .004               | .92961                      | .00377                          | .01267                    | .00890            |
| 860.0                           | 979.86                             | 2057                        | 2.200                       | -.001              | .92961                      | -.00097                         | -.00888                   | -.00791           |
| 862.0                           | 981.91                             | 2053                        | 2.200                       | 0                  | .92961                      | .00013                          | .00328                    | .00314            |
| 864.0                           | 983.97                             | 2054                        | 2.200                       | -.001              | .92961                      | -.00128                         | .00291                    | .00419            |
| 866.0                           | 986.01                             | 2048                        | 2.200                       | .003               | .92961                      | .00234                          | -.00290                   | -.00524           |
| 868.0                           | 988.07                             | 2058                        | 2.200                       | .030               | .92874                      | .02834                          | .02551                    | -.00282           |
| 870.0                           | 990.26                             | 2188                        | 2.200                       | -.019              | .92839                      | -.01810                         | -.01556                   | .00255            |
| 872.0                           | 992.36                             | 2104                        | 2.200                       | -.003              | .92838                      | -.00238                         | .00268                    | .00506            |
| 874.0                           | 994.46                             | 2093                        | 2.200                       | -.008              | .92832                      | -.00738                         | -.00612                   | .00125            |
| 876.0                           | 996.52                             | 2060                        | 2.200                       | .019               | .92799                      | .01766                          | .01080                    | -.00687           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 878.0                           | 998.66                             | 2140                        | 2.200                       | -.024              | .92743                      | -.02270                         | -.01624                   | .00645            |
| 880.0                           | 1000.70                            | 2038                        | 2.200                       | .025               | .92685                      | .02317                          | .02415                    | .00098            |
| 882.0                           | 1002.84                            | 2142                        | 2.200                       | -.018              | .92655                      | -.01690                         | -.01878                   | -.00189           |
| 884.0                           | 1004.90                            | 2066                        | 2.200                       | -.001              | .92655                      | -.00086                         | -.00178                   | -.00091           |
| 886.0                           | 1006.97                            | 2062                        | 2.200                       | .051               | .92417                      | .04687                          | .03517                    | -.01171           |
| 888.0                           | 1009.25                            | 2282                        | 2.200                       | -.058              | .92105                      | -.05374                         | -.03793                   | .01581            |
| 890.0                           | 1011.28                            | 2031                        | 2.200                       | .023               | .92056                      | .02130                          | .00653                    | -.01477           |
| 892.0                           | 1013.40                            | 2127                        | 2.200                       | -.042              | .91895                      | -.03849                         | -.03547                   | .00302            |
| 894.0                           | 1015.36                            | 1956                        | 2.200                       | .023               | .91847                      | .02098                          | .02313                    | .00215            |
| 896.0                           | 1017.41                            | 2048                        | 2.200                       | -.003              | .91846                      | -.00309                         | -.00924                   | -.00615           |
| 898.0                           | 1019.44                            | 2034                        | 2.200                       | .022               | .91800                      | .02061                          | .03034                    | .00972            |
| 900.0                           | 1021.57                            | 2127                        | 2.200                       | -.002              | .91799                      | -.00176                         | -.00540                   | -.00364           |
| 902.0                           | 1023.69                            | 2119                        | 2.200                       | -.013              | .91783                      | -.01208                         | -.00793                   | .00415            |
| 904.0                           | 1025.75                            | 2064                        | 2.200                       | .005               | .91781                      | .00444                          | -.00587                   | -.01030           |
| 906.0                           | 1027.84                            | 2084                        | 2.200                       | -.012              | .91767                      | -.01133                         | -.01184                   | -.00051           |
| 908.0                           | 1029.87                            | 2033                        | 2.200                       | -.013              | .91752                      | -.01161                         | -.01243                   | -.00082           |
| 910.0                           | 1029.87                            | 1983                        | 2.200                       | .002               | .91752                      | .00199                          | -.00024                   | -.00223           |
| 912.0                           | 1031.85                            | 1991                        | 2.200                       | .008               | .91747                      | .00710                          | .00563                    | -.00146           |
| 914.0                           | 1033.84                            | 2022                        | 2.200                       | .017               | .91720                      | .01556                          | .01573                    | .00017            |
| 916.0                           | 1035.87                            | 2092                        | 2.200                       | -.024              | .91668                      | -.02188                         | -.01448                   | .00740            |
| 918.0                           | 1037.96                            | 1994                        | 2.200                       | .012               | .91656                      | .01056                          | .01308                    | .00252            |
| 920.0                           | 1039.95                            | 2041                        | 2.200                       | .006               | .91653                      | .00504                          | -.00066                   | -.00570           |
| 922.0                           | 1041.99                            | 2063                        | 2.200                       | .007               | .91648                      | .00645                          | .00893                    | .00248            |
| 924.0                           | 1044.06                            | 2093                        | 2.200                       | -.017              | .91622                      | -.01562                         | -.01555                   | .00006            |
|                                 | 1046.15                            | 2023                        | 2.200                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 926.0                           | 1048.17                            |                             |                             | .011               | .91612                      | .00966                          | -.00269                   | -.01235           |
| 928.0                           | 1050.24                            | 2066                        | 2.200                       | -.010              | .91603                      | -.00875                         | .00335                    | .01209            |
| 930.0                           | 1052.26                            | 2027                        | 2.200                       | .002               | .91603                      | .00219                          | -.00497                   | -.00715           |
| 932.0                           | 1054.30                            | 2036                        | 2.200                       | .008               | .91597                      | .00710                          | .00706                    | -.00005           |
| 934.0                           | 1056.37                            | 2068                        | 2.200                       | -.002              | .91597                      | -.00199                         | .00192                    | .00391            |
| 936.0                           | 1058.43                            | 2059                        | 2.200                       | .005               | .91595                      | .00446                          | -.00556                   | -.01002           |
| 938.0                           | 1060.51                            | 2079                        | 2.200                       | 0                  | .91595                      | .00044                          | .00283                    | .00238            |
| 940.0                           | 1062.59                            | 2081                        | 2.200                       | -.001              | .91595                      | -.00097                         | .00585                    | .00682            |
| 942.0                           | 1064.67                            | 2077                        | 2.200                       | .009               | .91588                      | .00794                          | .00424                    | -.00370           |
| 944.0                           | 1066.78                            | 2113                        | 2.200                       | -.003              | .91587                      | -.00265                         | .00796                    | .01061            |
| 946.0                           | 1068.88                            | 2101                        | 2.200                       | .006               | .91583                      | .00580                          | -.00240                   | -.00820           |
| 948.0                           | 1071.01                            | 2128                        | 2.200                       | .001               | .91583                      | .00108                          | .00967                    | .00859            |
| 950.0                           | 1073.14                            | 2133                        | 2.200                       | 0                  | .91583                      | -.00025                         | .00037                    | .00061            |
| 952.0                           | 1075.27                            | 2132                        | 2.200                       | -.009              | .91575                      | -.00839                         | -.01728                   | -.00890           |
| 954.0                           | 1077.37                            | 2093                        | 2.200                       | .002               | .91575                      | .00214                          | .00729                    | .00515            |
| 956.0                           | 1079.47                            | 2103                        | 2.200                       | -.002              | .91575                      | -.00166                         | -.00882                   | -.00717           |
| 958.0                           | 1081.56                            | 2095                        | 2.200                       | -.001              | .91575                      | -.00112                         | -.00224                   | -.00112           |
| 960.0                           | 1083.65                            | 2090                        | 2.200                       | .003               | .91574                      | .00261                          | .00627                    | .00366            |
| 962.0                           | 1085.76                            | 2102                        | 2.200                       | .020               | .91538                      | .01805                          | .00709                    | -.01097           |
| 964.0                           | 1087.94                            | 2187                        | 2.200                       | -.033              | .91439                      | -.03010                         | -.02234                   | .00776            |
| 966.0                           | 1089.99                            | 2047                        | 2.200                       | -.004              | .91438                      | -.00347                         | -.01911                   | -.01564           |
| 968.0                           | 1092.02                            | 2032                        | 2.200                       | .019               | .91405                      | .01725                          | .02511                    | .00786            |
| 970.0                           | 1094.13                            | 2110                        | 2.200                       | .010               | .91396                      | .00907                          | .00500                    | -.00407           |
| 972.0                           | 1096.28                            | 2152                        | 2.200                       | -.023              | .91346                      | -.02139                         | -.00615                   | .01525            |
| 974.0                           | 1098.34                            | 2054                        | 2.200                       | .017               | .91320                      | .01550                          | .00810                    | -.00740           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 976.0                           | 1100.46                            | 2125                        | 2,200                       | .002               | .91320                      | .00206                          | .00242                    | .00035            |
| 978.0                           | 1102.60                            | 2134                        | 2,200                       | -.006              | .91316                      | -.00569                         | -.00612                   | -.00043           |
| 980.0                           | 1104.70                            | 2108                        | 2,200                       | .050               | .91090                      | .04545                          | .04978                    | .00433            |
| 982.0                           | 1107.03                            | 2329                        | 2,200                       | -.055              | .90819                      | -.04968                         | -.04899                   | .00069            |
| 984.0                           | 1109.12                            | 2088                        | 2,200                       | .005               | .90816                      | .00489                          | -.00886                   | -.01375           |
| 986.0                           | 1111.23                            | 2111                        | 2,200                       | .007               | .90812                      | .00590                          | .00881                    | .00290            |
| 988.0                           | 1113.37                            | 2138                        | 2,200                       | .005               | .90810                      | .00435                          | .00125                    | -.00310           |
| 990.0                           | 1115.53                            | 2159                        | 2,200                       | -.024              | .90760                      | -.02142                         | -.02690                   | -.00548           |
| 992.0                           | 1117.59                            | 2059                        | 2,200                       | .011               | .90749                      | .00983                          | .01754                    | .00770            |
| 994.0                           | 1119.69                            | 2104                        | 2,200                       | -.009              | .90741                      | -.00832                         | -.01604                   | -.00772           |
| 996.0                           | 1121.76                            | 2066                        | 2,200                       | -.005              | .90739                      | -.00432                         | .00189                    | .00621            |
| 998.0                           | 1123.81                            | 2047                        | 2,200                       | .013               | .90723                      | .01221                          | .00851                    | -.00370           |
| 1000.0                          | 1125.91                            | 2102                        | 2,200                       | .018               | .90694                      | .01621                          | .02591                    | .00970            |
| 1002.0                          | 1128.09                            | 2179                        | 2,200                       | -.015              | .90673                      | -.01365                         | -.01379                   | -.00014           |
| 1004.0                          | 1130.20                            | 2114                        | 2,200                       | .019               | .90640                      | .01742                          | .01415                    | -.00327           |
| 1006.0                          | 1132.40                            | 2197                        | 2,200                       | .020               | .90602                      | .01849                          | .01994                    | .00145            |
| 1008.0                          | 1134.69                            | 2289                        | 2,200                       | -.027              | .90535                      | -.02471                         | -.01794                   | .00677            |
| 1010.0                          | 1136.85                            | 2167                        | 2,200                       | .005               | .90532                      | .00494                          | -.00044                   | -.00538           |
| 1012.0                          | 1139.04                            | 2191                        | 2,200                       | .007               | .90527                      | .00670                          | .00360                    | -.00310           |
| 1014.0                          | 1141.27                            | 2224                        | 2,200                       | -.010              | .90519                      | -.00867                         | -.00852                   | .00015            |
| 1016.0                          | 1143.45                            | 2181                        | 2,200                       | .014               | .90501                      | .01257                          | .01347                    | .00090            |
| 1018.0                          | 1145.69                            | 2243                        | 2,200                       | -.002              | .90501                      | -.00194                         | -.00339                   | -.00145           |
| 1020.0                          | 1147.93                            | 2233                        | 2,200                       | .008               | .90496                      | .00692                          | -.00108                   | -.00800           |
| 1022.0                          | 1150.19                            | 2268                        | 2,200                       | .005               | .90493                      | .00454                          | .01366                    | .00912            |
|                                 |                                    | 2290                        | 2,200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY TRAVEL TIME MS | DEPTH FROM SRD (OR TOP) M | INTERVAL VELOCITY M/S | INTERVAL DENSITY G/C3 | REFLECT. COEFF. | TWO WAY ATTN. COEFF. | SYNTHETIC SEISMO. PRIMARY | PRIMARY + MULTIPLES | MULTIPLES ONLY |
|------------------------|---------------------------|-----------------------|-----------------------|-----------------|----------------------|---------------------------|---------------------|----------------|
| 1024.0                 | 1152.48                   |                       |                       | .006            | .90490               | .00528                    | -.01032             | -.01560        |
| 1026.0                 | 1154.80                   | 2317                  | 2.200                 | -.014           | .90474               | -.01236                   | -.01684             | -.00449        |
| 1028.0                 | 1157.06                   | 2255                  | 2.200                 | -.014           | .90457               | -.01229                   | .00064              | .01293         |
| 1030.0                 | 1159.25                   | 2194                  | 2.200                 | .022            | .90413               | .01980                    | .01876              | -.00104        |
| 1032.0                 | 1161.54                   | 2293                  | 2.200                 | .016            | .90391               | .01436                    | .01859              | .00423         |
| 1034.0                 | 1163.91                   | 2367                  | 2.200                 | -.014           | .90374               | -.01236                   | -.03022             | -.01787        |
| 1036.0                 | 1166.21                   | 2303                  | 2.200                 | -.008           | .90369               | -.00681                   | .00757              | .01438         |
| 1038.0                 | 1168.48                   | 2268                  | 2.200                 | .004            | .90367               | .00385                    | .00145              | -.00240        |
| 1040.0                 | 1170.77                   | 2288                  | 2.200                 | -.023           | .90320               | -.02060                   | -.02370             | -.00310        |
| 1042.0                 | 1172.95                   | 2186                  | 2.200                 | .008            | .90314               | .00724                    | .02295              | .01572         |
| 1044.0                 | 1175.18                   | 2221                  | 2.200                 | .008            | .90308               | .00737                    | -.00478             | -.01214        |
| 1046.0                 | 1177.43                   | 2258                  | 2.200                 | .004            | .90307               | .00352                    | .00149              | -.00204        |
| 1048.0                 | 1179.71                   | 2275                  | 2.200                 | 0               | .90307               | -.00030                   | .01064              | .01094         |
| 1050.0                 | 1181.98                   | 2274                  | 2.200                 | -.013           | .90292               | -.01150                   | -.02092             | -.00942        |
| 1052.0                 | 1184.20                   | 2217                  | 2.200                 | .009            | .90285               | .00797                    | .00277              | -.00520        |
| 1054.0                 | 1186.46                   | 2256                  | 2.200                 | .009            | .90278               | .00801                    | .00495              | -.00306        |
| 1056.0                 | 1188.75                   | 2297                  | 2.200                 | -.018           | .90248               | -.01648                   | -.01548             | .00100         |
| 1058.0                 | 1190.97                   | 2214                  | 2.200                 | .024            | .90198               | .02127                    | .03046              | .00919         |
| 1060.0                 | 1193.29                   | 2321                  | 2.200                 | -.014           | .90180               | -.01263                   | -.01377             | -.00114        |
| 1062.0                 | 1195.54                   | 2257                  | 2.200                 | -.025           | .90123               | -.02262                   | -.02045             | .00217         |
| 1064.0                 | 1197.69                   | 2147                  | 2.200                 | .001            | .90123               | .00071                    | .00306              | .00235         |
| 1066.0                 | 1199.84                   | 2150                  | 2.200                 | .033            | .90023               | .03011                    | .02393              | -.00618        |
| 1068.0                 | 1199.84                   | 2299                  | 2.200                 | .033            | .90023               | .03011                    | .02393              | -.00618        |
| 1068.0                 | 1202.14                   | 2202                  | 2.200                 | -.022           | .89981               | -.01936                   | -.00835             | .01101         |
| 1070.0                 | 1204.34                   | 2202                  | 2.200                 | -.022           | .89981               | -.01936                   | -.00835             | .01101         |
| 1070.0                 | 1204.34                   | 2314                  | 2.200                 | .025            | .89925               | .02242                    | .01576              | -.00666        |
| 1072.0                 | 1206.66                   | 2314                  | 2.200                 | -.025           | .89867               | -.02290                   | -.02141             | .00149         |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1074.0                          | 1208.85                            | 2199                        | 2.200                       |                    |                             |                                 |                           |                   |
|                                 |                                    | 2307                        | 2.200                       | .024               | .89815                      | .02155                          | .02648                    | .00493            |
| 1076.0                          | 1211.16                            | 2349                        | 2.200                       | .009               | .89808                      | .00810                          | -.00538                   | -.01348           |
| 1078.0                          | 1213.51                            | 2177                        | 2.200                       | -.038              | .89678                      | -.03419                         | -.01833                   | .01586            |
| 1080.0                          | 1215.69                            | 2156                        | 2.200                       | -.005              | .89676                      | -.00428                         | -.02004                   | -.01576           |
| 1082.0                          | 1217.85                            | 2188                        | 2.200                       | .007               | .89671                      | .00656                          | .00434                    | -.00221           |
| 1084.0                          | 1220.03                            | 2200                        | 2.200                       | .003               | .89670                      | .00248                          | .02069                    | .01821            |
| 1086.0                          | 1222.23                            | 2203                        | 2.200                       | 0                  | .89670                      | .00044                          | -.01850                   | -.01894           |
| 1088.0                          | 1224.44                            | 2213                        | 2.200                       | .002               | .89670                      | .00217                          | .01434                    | .01217            |
| 1090.0                          | 1226.65                            | 2247                        | 2.200                       | .008               | .89665                      | .00673                          | -.00076                   | -.00749           |
| 1092.0                          | 1228.90                            | 2369                        | 2.200                       | .027               | .89602                      | .02377                          | .02961                    | .00584            |
| 1094.0                          | 1231.27                            | 2402                        | 2.200                       | .007               | .89597                      | .00617                          | .01510                    | .00893            |
| 1096.0                          | 1233.67                            | 2351                        | 2.200                       | -.011              | .89587                      | -.00958                         | -.02865                   | -.01907           |
| 1098.0                          | 1236.02                            | 2221                        | 2.200                       | -.028              | .89515                      | -.02539                         | -.01280                   | .01260            |
| 1100.0                          | 1238.24                            | 2451                        | 2.200                       | .049               | .89300                      | .04393                          | .04435                    | .00042            |
| 1102.0                          | 1240.69                            | 2362                        | 2.200                       | -.018              | .89269                      | -.01644                         | -.01271                   | .00373            |
| 1104.0                          | 1243.05                            | 2431                        | 2.200                       | .014               | .89251                      | .01290                          | .00213                    | -.01076           |
| 1106.0                          | 1245.48                            | 2388                        | 2.200                       | -.009              | .89243                      | -.00808                         | -.00282                   | .00526            |
| 1108.0                          | 1247.87                            | 2560                        | 2.200                       | .035               | .89135                      | .03112                          | .04051                    | .00939            |
| 1110.0                          | 1250.43                            | 2383                        | 2.200                       | -.036              | .89021                      | -.03191                         | -.04692                   | -.01501           |
| 1112.0                          | 1252.82                            | 2602                        | 2.200                       | .044               | .88849                      | .03912                          | .04650                    | .00739            |
| 1114.0                          | 1255.42                            | 3109                        | 2.200                       | .089               | .88151                      | .07875                          | .07173                    | -.00703           |
| 1116.0                          | 1258.53                            | 3188                        | 2.200                       | .013               | .88137                      | .01112                          | .03516                    | .02404            |
| 1118.0                          | 1261.71                            | 2638                        | 2.200                       | -.094              | .87351                      | -.08321                         | -.08203                   | .00118            |
| 1120.0                          | 1264.35                            | 3066                        | 2.200                       | .075               | .86859                      | .06555                          | .04865                    | -.01690           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1122.0                          | 1267.42                            |                             |                             | .006               | .86856                      | .00557                          | .00542                    | -.00016           |
| 1124.0                          | 1270.52                            | 3106                        | 2.200                       | -.102              | .85944                      | -.08900                         | -.08414                   | .00487            |
| 1126.0                          | 1273.05                            | 2528                        | 2.200                       | .019               | .85913                      | .01618                          | .01229                    | -.00389           |
| 1128.0                          | 1275.68                            | 2625                        | 2.200                       | -.028              | .85845                      | -.02412                         | -.02256                   | .00156            |
| 1130.0                          | 1278.16                            | 2482                        | 2.200                       | .031               | .85762                      | .02681                          | .03406                    | .00725            |
| 1132.0                          | 1280.80                            | 2642                        | 2.200                       | .010               | .85754                      | .00822                          | .00850                    | .00027            |
| 1134.0                          | 1283.50                            | 2693                        | 2.200                       | .040               | .85620                      | .03392                          | .03244                    | -.00148           |
| 1136.0                          | 1286.41                            | 2915                        | 2.200                       | .002               | .85619                      | .00150                          | .00560                    | .00411            |
| 1138.0                          | 1289.34                            | 2925                        | 2.200                       | .023               | .85574                      | .01966                          | .01828                    | -.00138           |
| 1140.0                          | 1292.40                            | 3063                        | 2.200                       | -.082              | .85000                      | -.07011                         | -.06177                   | .00834            |
| 1142.0                          | 1295.00                            | 2599                        | 2.200                       | .009               | .84993                      | .00751                          | -.01684                   | -.02435           |
| 1144.0                          | 1297.64                            | 2645                        | 2.200                       | .026               | .84936                      | .02197                          | .03668                    | .01471            |
| 1146.0                          | 1300.43                            | 2786                        | 2.200                       | .010               | .84928                      | .00826                          | .00183                    | -.00643           |
| 1148.0                          | 1303.27                            | 2840                        | 2.200                       | .018               | .84902                      | .01490                          | .01415                    | -.00076           |
| 1150.0                          | 1306.21                            | 2942                        | 2.200                       | -.005              | .84900                      | -.00400                         | -.00012                   | .00388            |
| 1152.0                          | 1309.12                            | 2914                        | 2.200                       | .026               | .84845                      | .02172                          | .02042                    | -.00130           |
| 1154.0                          | 1312.19                            | 3067                        | 2.200                       | -.040              | .84706                      | -.03426                         | -.03397                   | .00029            |
| 1156.0                          | 1315.02                            | 2829                        | 2.200                       | .047               | .84521                      | .03960                          | .03571                    | -.00389           |
| 1158.0                          | 1318.13                            | 3107                        | 2.200                       | -.007              | .84517                      | -.00587                         | .01302                    | .01889            |
| 1160.0                          | 1321.19                            | 3064                        | 2.200                       | .017               | .84492                      | .01460                          | .00587                    | -.00873           |
| 1162.0                          | 1324.36                            | 3171                        | 2.200                       | .006               | .84489                      | .00484                          | .01210                    | .00726            |
| 1164.0                          | 1327.57                            | 3208                        | 2.200                       | .002               | .84489                      | .00160                          | -.00710                   | -.00870           |
| 1166.0                          | 1330.79                            | 3220                        | 2.200                       | .009               | .84481                      | .00802                          | .01584                    | .00782            |
| 1168.0                          | 1334.07                            | 3282                        | 2.200                       | -.008              | .84476                      | -.00687                         | -.01305                   | -.00618           |
| 1170.0                          | 1337.30                            | 3229                        | 2.200                       | -.002              | .84476                      | -.00154                         | -.00480                   | -.00326           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1172.0                          | 1340.52                            | 3217                        | 2.200                       | .021               | .84438                      | .01772                          | .02192                    | .00420            |
| 1174.0                          | 1343.87                            | 3355                        | 2.200                       | -.035              | .84334                      | -.02964                         | -.04085                   | -.01121           |
| 1176.0                          | 1347.00                            | 3128                        | 2.200                       | .001               | .84334                      | .00045                          | .00450                    | .00405            |
| 1178.0                          | 1350.13                            | 3131                        | 2.200                       | -.033              | .84241                      | -.02807                         | -.02597                   | .00210            |
| 1180.0                          | 1353.06                            | 2929                        | 2.200                       | .022               | .84200                      | .01858                          | .01025                    | -.00833           |
| 1182.0                          | 1356.12                            | 3061                        | 2.200                       | .040               | .84064                      | .03384                          | .04170                    | .00786            |
| 1184.0                          | 1359.44                            | 3318                        | 2.200                       | -.032              | .83978                      | -.02683                         | -.03162                   | -.00479           |
| 1186.0                          | 1362.55                            | 3112                        | 2.200                       | .023               | .83935                      | .01910                          | .02647                    | .00737            |
| 1188.0                          | 1365.81                            | 3257                        | 2.200                       | -.031              | .83856                      | -.02574                         | -.03320                   | -.00746           |
| 1190.0                          | 1368.87                            | 3064                        | 2.200                       | -.019              | .83824                      | -.01622                         | -.01594                   | .00027            |
| 1192.0                          | 1371.82                            | 2947                        | 2.200                       | -.017              | .83799                      | -.01456                         | -.03163                   | -.01707           |
| 1194.0                          | 1374.67                            | 2847                        | 2.200                       | .040               | .83665                      | .03359                          | .05038                    | .01679            |
| 1196.0                          | 1377.75                            | 3084                        | 2.200                       | .006               | .83661                      | .00518                          | .00577                    | .00058            |
| 1198.0                          | 1380.88                            | 3123                        | 2.200                       | .011               | .83652                      | .00896                          | .02237                    | .01341            |
| 1200.0                          | 1384.07                            | 3191                        | 2.200                       | -.023              | .83608                      | -.01919                         | -.02600                   | -.00681           |
| 1202.0                          | 1387.11                            | 3047                        | 2.200                       | .028               | .83542                      | .02344                          | .02183                    | -.00161           |
| 1204.0                          | 1390.34                            | 3223                        | 2.200                       | -.026              | .83485                      | -.02184                         | -.01174                   | .01010            |
| 1206.0                          | 1393.40                            | 3059                        | 2.200                       | -.020              | .83452                      | -.01647                         | -.01735                   | -.00088           |
| 1208.0                          | 1396.34                            | 2941                        | 2.200                       | -.008              | .83447                      | -.00695                         | -.01545                   | -.00850           |
| 1210.0                          | 1399.23                            | 2892                        | 2.200                       | .031               | .83369                      | .02548                          | .01070                    | -.01477           |
| 1212.0                          | 1402.30                            | 3074                        | 2.200                       | -.011              | .83359                      | -.00912                         | .00256                    | .01168            |
| 1214.0                          | 1405.31                            | 3008                        | 2.200                       | .002               | .83358                      | .00176                          | -.00465                   | -.00641           |
| 1216.0                          | 1408.33                            | 3020                        | 2.200                       | -.028              | .83292                      | -.02359                         | -.02033                   | .00326            |
| 1218.0                          | 1411.18                            | 2854                        | 2.200                       | .030               | .83219                      | .02462                          | .02957                    | .00496            |
|                                 |                                    | 3028                        | 2.200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1220.0                          | 1414.21                            |                             |                             | .016               | .83198                      | .01327                          | .01311                    | -.00016           |
| 1222.0                          | 1417.34                            | 3126                        | 2.200                       | -.022              | .83157                      | -.01852                         | -.02037                   | -.00185           |
| 1224.0                          | 1420.33                            | 2990                        | 2.200                       | -.002              | .83156                      | -.00142                         | -.00081                   | .00061            |
| 1226.0                          | 1423.31                            | 2980                        | 2.200                       | .001               | .83156                      | .00121                          | -.00306                   | -.00427           |
| 1228.0                          | 1426.30                            | 2988                        | 2.200                       | .009               | .83149                      | .00788                          | .01375                    | .00587            |
| 1230.0                          | 1429.34                            | 3046                        | 2.200                       | -.014              | .83132                      | -.01180                         | -.01651                   | -.00471           |
| 1232.0                          | 1432.30                            | 2960                        | 2.200                       | -.004              | .83131                      | -.00308                         | -.00035                   | .00273            |
| 1234.0                          | 1435.24                            | 2938                        | 2.200                       | .010               | .83123                      | .00823                          | .00116                    | -.00707           |
| 1236.0                          | 1438.24                            | 2997                        | 2.200                       | -.025              | .83072                      | -.02054                         | -.03095                   | -.01041           |
| 1238.0                          | 1441.09                            | 2853                        | 2.200                       | .018               | .83046                      | .01479                          | .02942                    | .01462            |
| 1240.0                          | 1444.05                            | 2956                        | 2.200                       | .004               | .83044                      | .00353                          | -.00310                   | -.00663           |
| 1242.0                          | 1447.03                            | 2981                        | 2.200                       | -.002              | .83044                      | -.00167                         | .01002                    | .01168            |
| 1244.0                          | 1450.00                            | 2969                        | 2.200                       | .015               | .83026                      | .01227                          | -.00430                   | -.01656           |
| 1246.0                          | 1453.06                            | 3058                        | 2.200                       | .005               | .83024                      | .00394                          | .00757                    | .00363            |
| 1248.0                          | 1456.14                            | 3088                        | 2.200                       | -.010              | .83015                      | -.00840                         | .00665                    | .01505            |
| 1250.0                          | 1459.17                            | 3026                        | 2.200                       | .004               | .83014                      | .00291                          | -.01312                   | -.01603           |
| 1252.0                          | 1462.22                            | 3047                        | 2.200                       | .001               | .83014                      | .00109                          | .01195                    | .01086            |
| 1254.0                          | 1465.27                            | 3055                        | 2.200                       | .001               | .83014                      | .00102                          | -.00527                   | -.00629           |
| 1256.0                          | 1468.33                            | 3063                        | 2.200                       | .019               | .82983                      | .01593                          | .01941                    | .00348            |
| 1258.0                          | 1471.52                            | 3182                        | 2.200                       | .004               | .82982                      | .00291                          | .00108                    | -.00183           |
| 1260.0                          | 1474.72                            | 3205                        | 2.200                       | -.011              | .82972                      | -.00931                         | -.00692                   | .00239            |
| 1262.0                          | 1477.86                            | 3134                        | 2.200                       | -.009              | .82965                      | -.00752                         | .00114                    | .00866            |
| 1264.0                          | 1480.93                            | 3077                        | 2.200                       | .004               | .82964                      | .00357                          | -.00497                   | -.00854           |
| 1266.0                          | 1484.04                            | 3104                        | 2.200                       | .002               | .82963                      | .00193                          | .00649                    | .00456            |
| 1268.0                          | 1487.16                            | 3118                        | 2.200                       | .015               | .82944                      | .01249                          | .01265                    | .00016            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1270.0                          | 1490.37                            | 3214                        | 2.200                       | -.007              | .82940                      | -.00586                         | -.00900                   | -.00314           |
| 1272.0                          | 1493.54                            | 3169                        | 2.200                       | -.012              | .82928                      | -.01016                         | -.02167                   | -.01151           |
| 1274.0                          | 1496.63                            | 3092                        | 2.200                       | .027               | .82868                      | .02217                          | .03523                    | .01306            |
| 1276.0                          | 1499.89                            | 3262                        | 2.200                       | .008               | .82863                      | .00687                          | .00564                    | -.00123           |
| 1278.0                          | 1503.21                            | 3316                        | 2.200                       | -.017              | .82838                      | -.01439                         | -.00774                   | .00664            |
| 1280.0                          | 1506.41                            | 3203                        | 2.200                       | -.007              | .82833                      | -.00597                         | -.00747                   | -.00150           |
| 1282.0                          | 1509.57                            | 3157                        | 2.200                       | 0                  | .82833                      | -.00005                         | -.01077                   | -.01072           |
| 1284.0                          | 1512.73                            | 3157                        | 2.200                       | -.013              | .82819                      | -.01100                         | -.00013                   | .01086            |
| 1286.0                          | 1515.80                            | 3074                        | 2.200                       | -.005              | .82817                      | -.00431                         | -.01233                   | -.00802           |
| 1288.0                          | 1518.84                            | 3042                        | 2.200                       | .028               | .82750                      | .02350                          | .02746                    | .00396            |
| 1290.0                          | 1522.06                            | 3220                        | 2.200                       | -.029              | .82678                      | -.02439                         | -.02613                   | -.00174           |
| 1292.0                          | 1525.10                            | 3036                        | 2.200                       | .017               | .82654                      | .01423                          | .00846                    | -.00578           |
| 1294.0                          | 1528.24                            | 3142                        | 2.200                       | -.007              | .82649                      | -.00619                         | .00107                    | .00727            |
| 1296.0                          | 1531.34                            | 3095                        | 2.200                       | -.005              | .82647                      | -.00385                         | .00198                    | .00583            |
| 1298.0                          | 1534.40                            | 3067                        | 2.200                       | .015               | .82628                      | .01259                          | .00753                    | -.00506           |
| 1300.0                          | 1537.56                            | 3161                        | 2.200                       | .005               | .82626                      | .00396                          | .00573                    | .00177            |
| 1302.0                          | 1540.76                            | 3192                        | 2.200                       | -.024              | .82580                      | -.01943                         | -.01801                   | .00142            |
| 1304.0                          | 1543.80                            | 3045                        | 2.200                       | .025               | .82527                      | .02094                          | .01617                    | -.00477           |
| 1306.0                          | 1547.00                            | 3204                        | 2.200                       | -.019              | .82499                      | -.01537                         | -.02153                   | -.00616           |
| 1308.0                          | 1550.09                            | 3087                        | 2.200                       | -.016              | .82479                      | -.01287                         | -.00065                   | .01222            |
| 1310.0                          | 1553.08                            | 2992                        | 2.200                       | .013               | .82464                      | .01101                          | -.00180                   | -.01280           |
| 1312.0                          | 1556.16                            | 3073                        | 2.200                       | .008               | .82458                      | .00683                          | .00865                    | .00181            |
| 1314.0                          | 1559.28                            | 3124                        | 2.200                       | -.010              | .82450                      | -.00836                         | -.00851                   | -.00016           |
| 1316.0                          | 1562.34                            | 3061                        | 2.200                       | .002               | .82449                      | .00205                          | .00279                    | .00074            |
|                                 |                                    | 3077                        | 2.200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1318.0                          | 1565.42                            |                             |                             | -.004              | .82448                      | -.00317                         | .01112                    | .01429            |
| 1320.0                          | 1568.47                            | 3053                        | 2.200                       | .004               | .82447                      | .00305                          | -.00878                   | -.01184           |
| 1322.0                          | 1571.55                            | 3076                        | 2.200                       | -.008              | .82441                      | -.00675                         | -.00901                   | -.00226           |
| 1324.0                          | 1574.57                            | 3026                        | 2.200                       | .018               | .82414                      | .01505                          | .02378                    | .00872            |
| 1326.0                          | 1577.71                            | 3138                        | 2.200                       | .003               | .82413                      | .00249                          | -.00132                   | -.00381           |
| 1328.0                          | 1580.87                            | 3157                        | 2.200                       | .003               | .82412                      | .00247                          | -.00932                   | -.01179           |
| 1330.0                          | 1584.04                            | 3176                        | 2.200                       | -.010              | .82404                      | -.00851                         | .00640                    | .01490            |
| 1332.0                          | 1587.15                            | 3111                        | 2.200                       | 0                  | .82404                      | .00021                          | .00425                    | .00404            |
| 1334.0                          | 1590.27                            | 3113                        | 2.200                       | -.002              | .82403                      | -.00130                         | -.00281                   | -.00151           |
| 1336.0                          | 1593.37                            | 3103                        | 2.200                       | -.008              | .82398                      | -.00673                         | -.00495                   | .00179            |
| 1338.0                          | 1596.42                            | 3053                        | 2.200                       | .014               | .82382                      | .01143                          | .01472                    | .00329            |
| 1340.0                          | 1599.56                            | 3139                        | 2.200                       | -.018              | .82357                      | -.01443                         | -.01374                   | .00069            |
| 1342.0                          | 1602.59                            | 3031                        | 2.200                       | .019               | .82327                      | .01565                          | .00894                    | -.00671           |
| 1344.0                          | 1605.74                            | 3148                        | 2.200                       | -.007              | .82323                      | -.00540                         | -.01141                   | -.00601           |
| 1346.0                          | 1608.85                            | 3107                        | 2.200                       | .017               | .82298                      | .01436                          | .01850                    | .00414            |
| 1348.0                          | 1612.07                            | 3217                        | 2.200                       | -.020              | .82264                      | -.01676                         | -.01155                   | .00521            |
| 1350.0                          | 1615.15                            | 3089                        | 2.200                       | .018               | .82238                      | .01483                          | .00469                    | -.01014           |
| 1352.0                          | 1618.36                            | 3202                        | 2.200                       | -.007              | .82233                      | -.00595                         | .01959                    | .02554            |
| 1354.0                          | 1621.51                            | 3156                        | 2.200                       | -.007              | .82229                      | -.00589                         | -.01788                   | -.01199           |
| 1356.0                          | 1624.63                            | 3112                        | 2.200                       | .022               | .82191                      | .01774                          | .01496                    | -.00278           |
| 1358.0                          | 1627.87                            | 3249                        | 2.200                       | -.022              | .82153                      | -.01768                         | -.02267                   | -.00499           |
| 1360.0                          | 1630.99                            | 3112                        | 2.200                       | .008               | .82148                      | .00631                          | .00972                    | .00341            |
| 1362.0                          | 1634.15                            | 3160                        | 2.200                       | .006               | .82145                      | .00502                          | .01718                    | .01216            |
| 1364.0                          | 1637.35                            | 3199                        | 2.200                       | -.007              | .82141                      | -.00589                         | -.01181                   | -.00592           |
| 1366.0                          | 1640.50                            | 3153                        | 2.200                       | .008               | .82135                      | .00688                          | .00929                    | .00241            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1368.0                          | 1643.71                            | 3207                        | 2,200                       | -.011              | .82124                      | -.00925                         | .00038                    | .00963            |
| 1370.0                          | 1646.84                            | 3135                        | 2,200                       | .002               | .82124                      | .00149                          | -.00839                   | -.00988           |
| 1372.0                          | 1649.99                            | 3147                        | 2,200                       | .012               | .82112                      | .01012                          | .00139                    | -.00873           |
| 1374.0                          | 1653.21                            | 3225                        | 2,200                       | .003               | .82111                      | .00273                          | .02002                    | .01729            |
| 1376.0                          | 1656.46                            | 3247                        | 2,200                       | .012               | .82098                      | .01006                          | .01256                    | .00251            |
| 1378.0                          | 1659.79                            | 3327                        | 2,200                       | .027               | .82038                      | .02224                          | .02280                    | .00056            |
| 1380.0                          | 1663.30                            | 3513                        | 2,200                       | -.082              | .81490                      | -.06709                         | -.06730                   | -.00021           |
| 1382.0                          | 1666.28                            | 2981                        | 2,200                       | -.019              | .81460                      | -.01540                         | -.03726                   | -.02186           |
| 1384.0                          | 1669.15                            | 2871                        | 2,200                       | -.009              | .81453                      | -.00757                         | -.00499                   | .00258            |
| 1386.0                          | 1671.97                            | 2818                        | 2,200                       | .020               | .81420                      | .01656                          | .03210                    | .01553            |
| 1388.0                          | 1674.90                            | 2935                        | 2,200                       | -.006              | .81417                      | -.00481                         | .00902                    | .01383            |
| 1390.0                          | 1677.81                            | 2900                        | 2,200                       | .016               | .81397                      | .01265                          | -.01089                   | -.02354           |
| 1392.0                          | 1680.80                            | 2992                        | 2,200                       | -.017              | .81375                      | -.01345                         | -.00334                   | .01010            |
| 1394.0                          | 1683.69                            | 2895                        | 2,200                       | -.018              | .81349                      | -.01463                         | -.00299                   | .01164            |
| 1396.0                          | 1686.48                            | 2792                        | 2,200                       | .021               | .81313                      | .01703                          | -.01070                   | -.02774           |
| 1398.0                          | 1689.40                            | 2912                        | 2,200                       | -.015              | .81294                      | -.01251                         | -.01177                   | .00074            |
| 1400.0                          | 1692.22                            | 2824                        | 2,200                       | .006               | .81291                      | .00460                          | .00345                    | -.00114           |
| 1402.0                          | 1695.08                            | 2856                        | 2,200                       | -.001              | .81291                      | -.00116                         | -.00118                   | -.00002           |
| 1404.0                          | 1697.92                            | 2848                        | 2,200                       | -.006              | .81288                      | -.00480                         | -.00373                   | .00107            |
| 1406.0                          | 1700.74                            | 2814                        | 2,200                       | .012               | .81276                      | .00990                          | .00697                    | -.00293           |
| 1408.0                          | 1703.62                            | 2884                        | 2,200                       | .023               | .81232                      | .01888                          | .02338                    | .00451            |
| 1410.0                          | 1706.64                            | 3021                        | 2,200                       | -.039              | .81111                      | -.03142                         | -.03664                   | -.00522           |
| 1412.0                          | 1709.44                            | 2796                        | 2,200                       | .032               | .81029                      | .02577                          | .04908                    | .02331            |
| 1414.0                          | 1712.42                            | 2979                        | 2,200                       | -.014              | .81013                      | -.01123                         | -.01376                   | -.00253           |
|                                 |                                    | 2898                        | 2,200                       |                    |                             |                                 |                           |                   |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1416.0                          | 1715.31                            |                             |                             | -.009              | .81007                      | -.00741                         | -.00501                   | .00239            |
| 1418.0                          | 1718.16                            | 2845                        | 2.200                       | -.004              | .81005                      | -.00356                         | .01047                    | .01403            |
| 1420.0                          | 1720.98                            | 2820                        | 2.200                       | .006               | .81002                      | .00515                          | .00065                    | -.00450           |
| 1422.0                          | 1723.84                            | 2857                        | 2.200                       | .001               | .81002                      | .00096                          | -.01280                   | -.01375           |
| 1424.0                          | 1726.70                            | 2863                        | 2.200                       | .015               | .80985                      | .01177                          | .02726                    | .01549            |
| 1426.0                          | 1729.65                            | 2948                        | 2.200                       | -.011              | .80974                      | -.00913                         | -.02951                   | -.02039           |
| 1428.0                          | 1732.53                            | 2882                        | 2.200                       | -.006              | .80972                      | -.00465                         | -.00347                   | .00118            |
| 1430.0                          | 1735.38                            | 2849                        | 2.200                       | -.024              | .80925                      | -.01938                         | .00268                    | .02206            |
| 1432.0                          | 1738.10                            | 2716                        | 2.200                       | .011               | .80916                      | .00854                          | .00091                    | -.00763           |
| 1434.0                          | 1740.87                            | 2774                        | 2.200                       | .020               | .80885                      | .01596                          | .03722                    | .02126            |
| 1436.0                          | 1743.75                            | 2885                        | 2.200                       | -.002              | .80884                      | -.00132                         | -.01783                   | -.01651           |
| 1438.0                          | 1746.63                            | 2876                        | 2.200                       | -.005              | .80882                      | -.00431                         | .01360                    | .01791            |
| 1440.0                          | 1749.48                            | 2847                        | 2.199                       | -.013              | .80868                      | -.01064                         | -.02001                   | -.00937           |
| 1442.0                          | 1752.19                            | 2708                        | 2.251                       | 0                  | .80868                      | .00009                          | -.00866                   | -.00875           |
| 1444.0                          | 1754.89                            | 2706                        | 2.254                       | .011               | .80858                      | .00893                          | .00670                    | -.00222           |
| 1446.0                          | 1757.61                            | 2715                        | 2.296                       | .007               | .80855                      | .00532                          | .00557                    | .00025            |
| 1448.0                          | 1760.35                            | 2747                        | 2.300                       | -.014              | .80840                      | -.01112                         | -.00733                   | .00378            |
| 1450.0                          | 1763.14                            | 2786                        | 2.207                       | .034               | .80748                      | .02712                          | .03114                    | .00401            |
| 1452.0                          | 1765.98                            | 2841                        | 2.313                       | -.002              | .80748                      | -.00127                         | -.00055                   | .00072            |
| 1454.0                          | 1768.78                            | 2797                        | 2.342                       | 0                  | .80748                      | -.00037                         | .00172                    | .00209            |
| 1456.0                          | 1771.60                            | 2824                        | 2.318                       | -.016              | .80729                      | -.01255                         | -.00877                   | .00378            |
| 1458.0                          | 1774.45                            | 2846                        | 2.230                       | .016               | .80707                      | .01314                          | -.00721                   | -.02035           |
| 1460.0                          | 1777.30                            | 2855                        | 2.296                       | .002               | .80707                      | .00126                          | .02694                    | .02569            |
| 1462.0                          | 1780.15                            | 2847                        | 2.310                       | -.008              | .80702                      | -.00643                         | -.01426                   | -.00783           |
| 1464.0                          | 1782.97                            | 2821                        | 2.294                       | .008               | .80697                      | .00658                          | .02950                    | .02293            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1466.0                          | 1785.80                            | 2826                        | 2.328                       |                    |                             |                                 |                           |                   |
|                                 |                                    | 2894                        | 2.414                       | .030               | .80624                      | .02421                          | .02119                    | -.00302           |
| 1468.0                          | 1788.69                            | 3130                        | 2.367                       | .029               | .80554                      | .02370                          | .01269                    | -.01101           |
| 1470.0                          | 1791.82                            | 3110                        | 2.422                       | .008               | .80549                      | .00656                          | .01237                    | .00580            |
| 1472.0                          | 1794.93                            | 3118                        | 2.401                       | -.003              | .80548                      | -.00235                         | -.01599                   | -.01364           |
| 1474.0                          | 1798.05                            | 3181                        | 2.349                       | -.001              | .80548                      | -.00078                         | .00956                    | .01034            |
| 1476.0                          | 1801.23                            | 3161                        | 2.342                       | -.005              | .80547                      | -.00371                         | .01388                    | .01759            |
| 1478.0                          | 1804.39                            | 3047                        | 2.354                       | -.016              | .80526                      | -.01283                         | -.02438                   | -.01155           |
| 1480.0                          | 1807.44                            | 3192                        | 2.299                       | .012               | .80515                      | .00938                          | .00623                    | -.00315           |
| 1482.0                          | 1810.63                            | 3159                        | 2.292                       | -.007              | .80511                      | -.00550                         | .01130                    | .01680            |
| 1484.0                          | 1813.79                            | 3101                        | 2.304                       | -.007              | .80508                      | -.00552                         | -.00620                   | -.00068           |
| 1486.0                          | 1816.89                            | 2948                        | 2.315                       | -.023              | .80466                      | -.01828                         | -.02977                   | -.01149           |
| 1488.0                          | 1819.84                            | 2531                        | 2.137                       | -.116              | .79385                      | -.09326                         | -.11846                   | -.02520           |
| 1490.0                          | 1822.37                            | 2635                        | 2.219                       | .039               | .79264                      | .03109                          | .03645                    | .00536            |
| 1492.0                          | 1825.01                            | 2704                        | 2.155                       | -.002              | .79263                      | -.00135                         | -.01485                   | -.01350           |
| 1494.0                          | 1827.71                            | 2761                        | 2.221                       | .025               | .79212                      | .02011                          | .03114                    | .01102            |
| 1496.0                          | 1830.47                            | 2801                        | 2.240                       | .011               | .79202                      | .00903                          | .01655                    | .00752            |
| 1498.0                          | 1833.27                            | 2825                        | 2.198                       | -.005              | .79200                      | -.00404                         | -.01592                   | -.01188           |
| 1500.0                          | 1836.10                            | 2814                        | 2.193                       | -.003              | .79199                      | -.00253                         | .00505                    | .00758            |
| 1502.0                          | 1838.91                            | 2818                        | 2.192                       | 0                  | .79199                      | .00031                          | .01677                    | .01647            |
| 1504.0                          | 1841.73                            | 2768                        | 2.194                       | -.008              | .79193                      | -.00670                         | -.03706                   | -.03036           |
| 1506.0                          | 1844.50                            | 2828                        | 2.246                       | .023               | .79153                      | .01785                          | .03070                    | .01284            |
| 1508.0                          | 1847.33                            | 3289                        | 2.469                       | .122               | .77973                      | .09667                          | .09244                    | -.00423           |
| 1510.0                          | 1850.61                            | 3215                        | 2.363                       | -.033              | .77887                      | -.02582                         | -.01072                   | .01510            |
| 1512.0                          | 1853.83                            | 3183                        | 2.347                       | -.008              | .77881                      | -.00660                         | -.02341                   | -.01682           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1514.0                          | 1857.01                            |                             |                             | -.031              | .77807                      | -.02405                         | .00105                    | .02510            |
| 1516.0                          | 1860.13                            | 3122                        | 2.249                       | .024               | .77762                      | .01882                          | .00311                    | -.01570           |
| 1518.0                          | 1863.29                            | 3156                        | 2.336                       | -.003              | .77761                      | -.00198                         | .00552                    | .00751            |
| 1520.0                          | 1866.46                            | 3169                        | 2.314                       | .004               | .77760                      | .00303                          | .01878                    | .01575            |
| 1522.0                          | 1869.62                            | 3162                        | 2.337                       | -.045              | .77602                      | -.03502                         | -.02605                   | .00897            |
| 1524.0                          | 1872.61                            | 2990                        | 2.259                       | .010               | .77594                      | .00801                          | -.01530                   | -.02332           |
| 1526.0                          | 1875.60                            | 2989                        | 2.306                       | -.021              | .77559                      | -.01647                         | -.03125                   | -.01478           |
| 1528.0                          | 1878.61                            | 3008                        | 2.197                       | .102               | .76755                      | .07895                          | .09367                    | .01472            |
| 1530.0                          | 1881.97                            | 3357                        | 2.415                       | -.016              | .76737                      | -.01199                         | .00030                    | .01230            |
| 1532.0                          | 1885.22                            | 3254                        | 2.415                       | .048               | .76560                      | .03679                          | .02253                    | -.01426           |
| 1534.0                          | 1888.73                            | 3511                        | 2.463                       | -.030              | .76490                      | -.02318                         | -.02069                   | .00249            |
| 1536.0                          | 1892.12                            | 3390                        | 2.401                       | -.043              | .76347                      | -.03314                         | -.03394                   | -.00081           |
| 1538.0                          | 1895.33                            | 3208                        | 2.327                       | -.031              | .76272                      | -.02391                         | -.01227                   | .01164            |
| 1540.0                          | 1898.40                            | 3074                        | 2.280                       | .057               | .76024                      | .04346                          | .02043                    | -.02303           |
| 1542.0                          | 1901.73                            | 3328                        | 2.361                       | -.002              | .76024                      | -.00122                         | .01386                    | .01508            |
| 1544.0                          | 1905.08                            | 3348                        | 2.340                       | -.036              | .75927                      | -.02712                         | -.02442                   | .00270            |
| 1546.0                          | 1908.26                            | 3183                        | 2.291                       | .034               | .75840                      | .02577                          | .00479                    | -.02098           |
| 1548.0                          | 1911.65                            | 3392                        | 2.301                       | -.018              | .75814                      | -.01392                         | .00551                    | .01943            |
| 1550.0                          | 1914.98                            | 3324                        | 2.263                       | -.005              | .75812                      | -.00349                         | -.00784                   | -.00435           |
| 1552.0                          | 1918.22                            | 3242                        | 2.300                       | .011               | .75803                      | .00840                          | .03482                    | .02642            |
| 1554.0                          | 1921.52                            | 3298                        | 2.311                       | -.097              | .75096                      | -.07324                         | -.10118                   | -.02794           |
| 1556.0                          | 1924.49                            | 2973                        | 2.112                       | .099               | .74359                      | .07435                          | .06099                    | -.01336           |
| 1558.0                          | 1927.73                            | 3245                        | 2.360                       | .034               | .74272                      | .02550                          | .03667                    | .01117            |
| 1560.0                          | 1931.14                            | 3410                        | 2.406                       | -.041              | .74146                      | -.03061                         | -.01664                   | .01397            |
| 1562.0                          | 1934.40                            | 3257                        | 2.319                       | -.027              | .74094                      | -.01968                         | -.04086                   | -.02118           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1564.0                          | 1937.57                            | 3165                        | 2.263                       | .055               | .73866                      | .04111                          | .05186                    | .01076            |
| 1566.0                          | 1940.97                            | 3403                        | 2.352                       | -.052              | .73664                      | -.03854                         | -.02486                   | .01368            |
| 1568.0                          | 1944.16                            | 3192                        | 2.259                       | .036               | .73568                      | .02665                          | .01292                    | -.01372           |
| 1570.0                          | 1947.45                            | 3289                        | 2.357                       | -.039              | .73454                      | -.02899                         | -.01711                   | .01189            |
| 1572.0                          | 1950.66                            | 3214                        | 2.229                       | -.023              | .73414                      | -.01701                         | -.01611                   | .00090            |
| 1574.0                          | 1953.75                            | 3084                        | 2.218                       | .022               | .73379                      | .01622                          | -.00051                   | -.01673           |
| 1576.0                          | 1956.91                            | 3158                        | 2.264                       | .018               | .73354                      | .01345                          | .02783                    | .01438            |
| 1578.0                          | 1960.13                            | 3224                        | 2.300                       | .011               | .73344                      | .00835                          | .01545                    | .00710            |
| 1580.0                          | 1963.33                            | 3204                        | 2.367                       | -.017              | .73323                      | -.01242                         | -.03715                   | -.02473           |
| 1582.0                          | 1966.52                            | 3182                        | 2.305                       | .024               | .73283                      | .01731                          | .01604                    | -.00128           |
| 1584.0                          | 1969.76                            | 3250                        | 2.366                       | -.082              | .72789                      | -.06015                         | -.05209                   | .00806            |
| 1586.0                          | 1972.69                            | 2922                        | 2.232                       | .033               | .72712                      | .02368                          | .00516                    | -.01852           |
| 1588.0                          | 1975.83                            | 3148                        | 2.211                       | .021               | .72680                      | .01529                          | .02570                    | .01041            |
| 1590.0                          | 1979.12                            | 3284                        | 2.211                       | .011               | .72671                      | .00780                          | .00252                    | -.00528           |
| 1592.0                          | 1982.41                            | 3292                        | 2.253                       | -.002              | .72671                      | -.00122                         | -.00556                   | -.00434           |
| 1594.0                          | 1985.67                            | 3255                        | 2.271                       | .032               | .72595                      | .02343                          | .03074                    | .00731            |
| 1596.0                          | 1989.01                            | 3339                        | 2.361                       | -.034              | .72512                      | -.02455                         | -.00329                   | .02127            |
| 1598.0                          | 1992.23                            | 3225                        | 2.285                       | .010               | .72505                      | .00748                          | -.01735                   | -.02484           |
| 1600.0                          | 1995.45                            | 3218                        | 2.337                       | .017               | .72485                      | .01204                          | .03156                    | .01951            |
| 1602.0                          | 1998.72                            | 3276                        | 2.374                       | -.009              | .72479                      | -.00666                         | -.01058                   | -.00392           |
| 1604.0                          | 2002.00                            | 3273                        | 2.333                       | .041               | .72354                      | .03006                          | .03732                    | .00726            |
| 1606.0                          | 2005.36                            | 3365                        | 2.465                       | -.405              | .60495                      | -.29292                         | -.31648                   | -.02356           |
| 1608.0                          | 2007.69                            | 2332                        | 1.507                       | .322               | .54230                      | .19468                          | .13867                    | -.05601           |
| 1610.0                          | 2010.66                            | 2971                        | 2.306                       | .076               | .53917                      | .04119                          | .11634                    | .07515            |
|                                 |                                    | 3380                        | 2.360                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1612.0                          | 2014.04                            |                             |                             | -.022              | .53891                      | -.01182                         | .00398                    | .01579            |
| 1614.0                          | 2017.28                            | 3234                        | 2.361                       | -.021              | .53867                      | -.01149                         | -.00185                   | .00964            |
| 1616.0                          | 2020.47                            | 3187                        | 2.295                       | -.015              | .53855                      | -.00799                         | -.02514                   | -.01714           |
| 1618.0                          | 2023.62                            | 3151                        | 2.254                       | .092               | .53397                      | .04963                          | .07356                    | .02392            |
| 1620.0                          | 2027.13                            | 3515                        | 2.431                       | .049               | .53271                      | .02597                          | .04076                    | .01478            |
| 1622.0                          | 2030.84                            | 3714                        | 2.535                       | -.102              | .52722                      | -.05408                         | -.02697                   | .02712            |
| 1624.0                          | 2034.12                            | 3270                        | 2.349                       | .003               | .52722                      | .00171                          | -.01967                   | -.02138           |
| 1626.0                          | 2037.35                            | 3238                        | 2.388                       | .038               | .52647                      | .01985                          | -.01541                   | -.03526           |
| 1628.0                          | 2040.75                            | 3398                        | 2.453                       | .011               | .52640                      | .00598                          | .04535                    | .03937            |
| 1630.0                          | 2044.23                            | 3476                        | 2.454                       | -.029              | .52595                      | -.01544                         | -.03132                   | -.01588           |
| 1632.0                          | 2047.56                            | 3332                        | 2.413                       | -.094              | .52128                      | -.04954                         | -.03720                   | .01235            |
| 1634.0                          | 2050.57                            | 3014                        | 2.208                       | .051               | .51993                      | .02651                          | -.00818                   | -.03469           |
| 1636.0                          | 2053.68                            | 3106                        | 2.373                       | .053               | .51846                      | .02763                          | .03200                    | .00437            |
| 1638.0                          | 2057.03                            | 3348                        | 2.448                       | .007               | .51844                      | .00361                          | .01993                    | .01632            |
| 1640.0                          | 2060.45                            | 3425                        | 2.427                       | -.027              | .51805                      | -.01419                         | .00909                    | .02328            |
| 1642.0                          | 2063.74                            | 3293                        | 2.390                       | .033               | .51748                      | .01722                          | -.00147                   | -.01868           |
| 1644.0                          | 2067.14                            | 3397                        | 2.476                       | -.196              | .49752                      | -.10163                         | -.08902                   | .01260            |
| 1646.0                          | 2070.05                            | 2904                        | 1.946                       | .062               | .49558                      | .03108                          | -.01582                   | -.04690           |
| 1648.0                          | 2072.91                            | 2865                        | 2.235                       | .043               | .49468                      | .02115                          | -.02680                   | -.04795           |
| 1650.0                          | 2075.87                            | 2957                        | 2.358                       | -.003              | .49467                      | -.00167                         | .03932                    | .04098            |
| 1652.0                          | 2078.82                            | 2948                        | 2.350                       | -.091              | .49059                      | -.04494                         | -.03950                   | .00544            |
| 1654.0                          | 2081.47                            | 2655                        | 2.175                       | .145               | .48027                      | .07114                          | .06099                    | -.01015           |
| 1656.0                          | 2084.63                            | 3157                        | 2.449                       | -.136              | .47138                      | -.06535                         | -.02732                   | .03803            |
| 1658.0                          | 2087.37                            | 2740                        | 2.146                       | .154               | .46021                      | .07256                          | .03098                    | -.04158           |
| 1660.0                          | 2090.61                            | 3240                        | 2.475                       | -.051              | .45900                      | -.02357                         | -.00226                   | .02130            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1662.0                          | 2093.74                            | 3132                        | 2,311                       | -.021              | .45881                      | -.00946                         | .00266                    | .01212            |
| 1664.0                          | 2096.78                            | 3038                        | 2,286                       | .040               | .45808                      | .01823                          | .00215                    | -.01609           |
| 1666.0                          | 2099.91                            | 3134                        | 2,399                       | -.017              | .45794                      | -.00800                         | -.01428                   | -.00627           |
| 1668.0                          | 2103.01                            | 3098                        | 2,344                       | -.018              | .45780                      | -.00806                         | .02324                    | .03129            |
| 1670.0                          | 2106.08                            | 3070                        | 2,283                       | -.069              | .45561                      | -.03167                         | -.04585                   | -.01418           |
| 1672.0                          | 2108.93                            | 2854                        | 2,139                       | .123               | .44873                      | .05598                          | .02448                    | -.03150           |
| 1674.0                          | 2112.11                            | 3182                        | 2,455                       | -.049              | .44765                      | -.02210                         | .02847                    | .05057            |
| 1676.0                          | 2115.18                            | 3065                        | 2,310                       | .025               | .44736                      | .01133                          | -.03116                   | -.04248           |
| 1678.0                          | 2118.30                            | 3117                        | 2,389                       | -.055              | .44602                      | -.02451                         | .02026                    | .04478            |
| 1680.0                          | 2121.32                            | 3022                        | 2,208                       | .021               | .44583                      | .00921                          | -.03927                   | -.04849           |
| 1682.0                          | 2124.36                            | 3044                        | 2,285                       | -.019              | .44566                      | -.00856                         | .01085                    | .01942            |
| 1684.0                          | 2127.32                            | 2962                        | 2,259                       | .023               | .44542                      | .01038                          | -.01663                   | -.02701           |
| 1686.0                          | 2130.33                            | 3004                        | 2,334                       | .049               | .44435                      | .02180                          | .05583                    | .03403            |
| 1688.0                          | 2133.50                            | 3168                        | 2,441                       | -.073              | .44195                      | -.03264                         | -.04493                   | -.01229           |
| 1690.0                          | 2136.68                            | 3189                        | 2,093                       | -.301              | .40179                      | -.13323                         | -.12341                   | .00982            |
| 1692.0                          | 2138.86                            | 2178                        | 1,645                       | .375               | .34542                      | .15050                          | .05025                    | -.10025           |
| 1694.0                          | 2142.03                            | 3164                        | 2,488                       | -.018              | .34531                      | -.00609                         | .05498                    | .06107            |
| 1696.0                          | 2145.18                            | 3155                        | 2,410                       | -.436              | .27980                      | -.15041                         | -.08418                   | .06623            |
| 1698.0                          | 2147.45                            | 2266                        | 1,319                       | .401               | .23480                      | .11221                          | -.02608                   | -.13829           |
| 1700.0                          | 2150.35                            | 2908                        | 2,404                       | .049               | .23424                      | .01148                          | .03794                    | .02646            |
| 1702.0                          | 2153.59                            | 3230                        | 2,386                       | -.338              | .20751                      | -.07912                         | .00006                    | .07919            |
| 1704.0                          | 2155.95                            | 2361                        | 1,617                       | .315               | .18691                      | .06537                          | -.00147                   | -.06684           |
| 1706.0                          | 2158.97                            | 3022                        | 2,425                       | -.149              | .18277                      | -.02784                         | -.00086                   | .02698            |
| 1708.0                          | 2162.10                            | 3130                        | 1,734                       | -.016              | .18272                      | -.00295                         | .03511                    | .03806            |
|                                 |                                    | 3163                        | 1,661                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1710.0                          | 2165.26                            |                             |                             | .192               | .17597                      | .03511                          | -.05832                   | -.09343           |
| 1712.0                          | 2168.51                            | 3248                        | 2.387                       | -.030              | .17582                      | -.00524                         | .09199                    | .09723            |
| 1714.0                          | 2171.79                            | 3286                        | 2.223                       | -.090              | .17439                      | -.01581                         | .00658                    | .02239            |
| 1716.0                          | 2174.68                            | 2890                        | 2.111                       | .034               | .17419                      | .00600                          | .02996                    | .02396            |
| 1718.0                          | 2177.55                            | 2868                        | 2.278                       | .123               | .17154                      | .02148                          | -.00173                   | -.02321           |
| 1720.0                          | 2180.93                            | 3381                        | 2.476                       | -.040              | .17127                      | -.00685                         | -.01935                   | -.01250           |
| 1722.0                          | 2184.19                            | 3254                        | 2.375                       | -.064              | .17058                      | -.01088                         | .02731                    | .03819            |
| 1724.0                          | 2187.18                            | 2992                        | 2.274                       | -.046              | .17021                      | -.00791                         | .01540                    | .02331            |
| 1726.0                          | 2189.84                            | 2663                        | 2.329                       | .090               | .16884                      | .01524                          | -.02340                   | -.03864           |
| 1728.0                          | 2192.99                            | 3150                        | 2.357                       | -.018              | .16879                      | -.00299                         | .01334                    | .01633            |
| 1730.0                          | 2196.06                            | 3068                        | 2.335                       | -.041              | .16851                      | -.00687                         | .01312                    | .01999            |
| 1732.0                          | 2198.95                            | 2893                        | 2.283                       | .088               | .16720                      | .01486                          | -.05974                   | -.07460           |
| 1734.0                          | 2202.15                            | 3196                        | 2.466                       | -.022              | .16712                      | -.00365                         | .05409                    | .05774            |
| 1736.0                          | 2205.33                            | 3186                        | 2.368                       | 0                  | .16712                      | -.00005                         | .09179                    | .09184            |
| 1738.0                          | 2208.50                            | 3170                        | 2.378                       | -.190              | .16110                      | -.03171                         | -.13734                   | -.10563           |
| 1740.0                          | 2211.78                            | 3280                        | 1.565                       | .232               | .15245                      | .03733                          | .02773                    | -.00960           |
| 1742.0                          | 2215.16                            | 3376                        | 2.438                       | .001               | .15245                      | .00016                          | .00984                    | .00969            |
| 1744.0                          | 2218.52                            | 3365                        | 2.451                       | -.047              | .15211                      | -.00718                         | -.01365                   | -.00647           |
| 1746.0                          | 2221.63                            | 3102                        | 2.419                       | .022               | .15204                      | .00337                          | .04849                    | .04513            |
| 1748.0                          | 2224.82                            | 3190                        | 2.460                       | -.102              | .15047                      | -.01543                         | .00200                    | .01743            |
| 1750.0                          | 2227.73                            | 2911                        | 2.199                       | .092               | .14921                      | .01378                          | -.03751                   | -.05129           |
| 1752.0                          | 2230.98                            | 3250                        | 2.366                       | -.194              | .14362                      | -.02887                         | -.02528                   | .00359            |
| 1754.0                          | 2233.74                            | 2758                        | 1.884                       | .156               | .14014                      | .02237                          | -.00096                   | -.02333           |
| 1756.0                          | 2236.71                            | 2977                        | 2.389                       | -.190              | .13508                      | -.02663                         | -.06271                   | -.03608           |
| 1758.0                          | 2239.26                            | 2544                        | 1.903                       | .240               | .12729                      | .03243                          | -.00917                   | -.04160           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1760.0                          | 2242.37                            | 3111                        | 2.540                       | -.048              | .12700                      | -.00607                         | .05809                    | .06416            |
| 1762.0                          | 2245.43                            | 3064                        | 2.344                       | -.268              | .11789                      | -.03402                         | -.00377                   | .03024            |
| 1764.0                          | 2247.90                            | 2467                        | 1.681                       | .319               | .10590                      | .03760                          | .00516                    | -.03244           |
| 1766.0                          | 2251.04                            | 3136                        | 2.561                       | .047               | .10567                      | .00494                          | -.00592                   | -.01087           |
| 1768.0                          | 2254.38                            | 3340                        | 2.641                       | -.018              | .10564                      | -.00188                         | .02081                    | .02269            |
| 1770.0                          | 2257.72                            | 3350                        | 2.541                       | -.007              | .10563                      | -.00074                         | .06018                    | .06092            |
| 1772.0                          | 2261.02                            | 3293                        | 2.549                       | .009               | .10562                      | .00092                          | .04564                    | .04472            |
| 1774.0                          | 2264.32                            | 3303                        | 2.586                       | -.045              | .10540                      | -.00480                         | .02319                    | .02799            |
| 1776.0                          | 2267.58                            | 3260                        | 2.392                       | -.013              | .10539                      | -.00141                         | -.06460                   | -.06318           |
| 1778.0                          | 2270.95                            | 3370                        | 2.253                       | .059               | .10502                      | .00623                          | .02016                    | .01393            |
| 1780.0                          | 2274.33                            | 3374                        | 2.533                       | -.092              | .10413                      | -.00967                         | -.00590                   | .00377            |
| 1782.0                          | 2277.28                            | 2951                        | 2.407                       | .048               | .10388                      | .00503                          | -.01461                   | -.01964           |
| 1784.0                          | 2280.47                            | 3197                        | 2.448                       | .011               | .10387                      | .00119                          | .02241                    | .02122            |
| 1786.0                          | 2283.75                            | 3277                        | 2.444                       | -.015              | .10385                      | -.00154                         | -.01706                   | -.01552           |
| 1788.0                          | 2286.92                            | 3173                        | 2.450                       | .043               | .10365                      | .00448                          | .01681                    | .01233            |
| 1790.0                          | 2290.27                            | 3346                        | 2.533                       | -.137              | .10172                      | -.01416                         | .02983                    | .04399            |
| 1792.0                          | 2293.10                            | 2826                        | 2.278                       | .133               | .09993                      | .01350                          | -.03906                   | -.05256           |
| 1794.0                          | 2296.43                            | 3335                        | 2.521                       | -.048              | .09970                      | -.00478                         | -.01460                   | -.00981           |
| 1796.0                          | 2299.70                            | 3270                        | 2.337                       | -.066              | .09926                      | -.00658                         | .01148                    | .01806            |
| 1798.0                          | 2302.52                            | 2819                        | 2.375                       | .113               | .09799                      | .01126                          | -.05184                   | -.06310           |
| 1800.0                          | 2305.88                            | 3363                        | 2.500                       | -.014              | .09797                      | -.00133                         | .04814                    | .04947            |
| 1802.0                          | 2309.17                            | 3288                        | 2.489                       | -.017              | .09794                      | -.00169                         | .02809                    | .02978            |
| 1804.0                          | 2312.41                            | 3241                        | 2.440                       | -.017              | .09791                      | -.00164                         | -.02170                   | -.02005           |
| 1806.0                          | 2315.59                            | 3178                        | 2.406                       | -.032              | .09781                      | -.00311                         | -.00618                   | -.00306           |
|                                 |                                    | 3091                        | 2.321                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1808.0                          | 2318.68                            |                             |                             | .063               | .09743                      | .00613                          | -.02784                   | -.03397           |
| 1810.0                          | 2321.95                            | 3268                        | 2.489                       | -.012              | .09741                      | -.00113                         | .01747                    | .01861            |
| 1812.0                          | 2325.17                            | 3218                        | 2.469                       | -.031              | .09732                      | -.00302                         | .00745                    | .01047            |
| 1814.0                          | 2328.31                            | 3139                        | 2.379                       | -.043              | .09714                      | -.00414                         | .01723                    | .02138            |
| 1816.0                          | 2331.52                            | 3215                        | 2.133                       | -.255              | .09085                      | -.02473                         | -.04102                   | -.01630           |
| 1818.0                          | 2334.75                            | 3230                        | 1.262                       | .242               | .08552                      | .02200                          | -.07953                   | -.10153           |
| 1820.0                          | 2337.99                            | 3236                        | 2.064                       | -.006              | .08552                      | -.00052                         | -.03982                   | -.03930           |
| 1822.0                          | 2340.89                            | 2904                        | 2.272                       | .119               | .08431                      | .01017                          | .01999                    | .00982            |
| 1824.0                          | 2344.23                            | 3334                        | 2.513                       | -.025              | .08426                      | -.00210                         | .08449                    | .08659            |
| 1826.0                          | 2347.36                            | 3133                        | 2.544                       | -.063              | .08392                      | -.00533                         | .01286                    | .01819            |
| 1828.0                          | 2350.39                            | 3029                        | 2.319                       | .082               | .08337                      | .00685                          | .03959                    | .03275            |
| 1830.0                          | 2353.70                            | 3316                        | 2.494                       | -.006              | .08336                      | -.00047                         | -.00372                   | -.00324           |
| 1832.0                          | 2356.96                            | 3256                        | 2.511                       | .011               | .08335                      | .00089                          | -.02743                   | -.02832           |
| 1834.0                          | 2360.32                            | 3356                        | 2.489                       | -.006              | .08335                      | -.00050                         | -.01418                   | -.01368           |
| 1836.0                          | 2363.59                            | 3276                        | 2.520                       | -.041              | .08321                      | -.00343                         | .03924                    | .04267            |
| 1838.0                          | 2366.76                            | 3167                        | 2.400                       | -.020              | .08318                      | -.00166                         | -.03373                   | -.03207           |
| 1840.0                          | 2369.85                            | 3091                        | 2.363                       | .103               | .08229                      | .00858                          | .05932                    | .05074            |
| 1842.0                          | 2373.26                            | 3407                        | 2.637                       | -.034              | .08219                      | -.00282                         | -.00372                   | -.00091           |
| 1844.0                          | 2376.43                            | 3177                        | 2.641                       | -.080              | .08167                      | -.00655                         | -.08568                   | -.07912           |
| 1846.0                          | 2379.52                            | 3087                        | 2.316                       | .069               | .08128                      | .00563                          | .12596                    | .12033            |
| 1848.0                          | 2382.79                            | 3266                        | 2.513                       | -.013              | .08127                      | -.00104                         | -.02159                   | -.02055           |
| 1850.0                          | 2386.04                            | 3252                        | 2.461                       | .021               | .08123                      | .00172                          | .00303                    | .00132            |
| 1852.0                          | 2389.37                            | 3325                        | 2.510                       | .052               | .08101                      | .00425                          | -.01614                   | -.02039           |
| 1854.0                          | 2392.97                            | 3600                        | 2.575                       | -.011              | .08100                      | -.00086                         | -.01658                   | -.01572           |
| 1856.0                          | 2396.41                            | 3449                        | 2.631                       | -.006              | .08100                      | -.00046                         | .06291                    | .06336            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1858.0                          | 2399.78                            | 3366                        | 2.666                       | -.013              | .08099                      | -.00102                         | .03167                    | .03270            |
| 1860.0                          | 2403.12                            | 3344                        | 2.617                       | .064               | .08066                      | .00517                          | .02024                    | .01507            |
| 1862.0                          | 2407.21                            | 4086                        | 2.434                       | .032               | .08057                      | .00259                          | -.08271                   | -.08530           |
| 1864.0                          | 2411.44                            | 4232                        | 2.506                       | -.030              | .08050                      | -.00239                         | .01482                    | .01721            |
| 1866.0                          | 2415.21                            | 3767                        | 2.652                       | -.115              | .07944                      | -.00924                         | .02278                    | .03202            |
| 1868.0                          | 2418.66                            | 3451                        | 2.299                       | .077               | .07897                      | .00613                          | -.01929                   | -.02542           |
| 1870.0                          | 2422.35                            | 3688                        | 2.511                       | .056               | .07872                      | .00443                          | .00479                    | .00036            |
| 1872.0                          | 2426.29                            | 3945                        | 2.627                       | -.057              | .07847                      | -.00447                         | -.01449                   | -.01002           |
| 1874.0                          | 2429.83                            | 3534                        | 2.618                       | .015               | .07845                      | .00119                          | .00033                    | -.00086           |
| 1876.0                          | 2433.52                            | 3691                        | 2.584                       | .025               | .07840                      | .00193                          | .06913                    | .06720            |
| 1878.0                          | 2437.38                            | 3857                        | 2.597                       | -.036              | .07830                      | -.00281                         | -.07602                   | -.07321           |
| 1880.0                          | 2441.14                            | 3762                        | 2.478                       | .029               | .07824                      | .00223                          | .03958                    | .03735            |
| 1882.0                          | 2445.01                            | 3874                        | 2.548                       | .033               | .07815                      | .00256                          | .04797                    | .04541            |
| 1884.0                          | 2448.96                            | 3944                        | 2.672                       | -.007              | .07815                      | -.00051                         | -.02692                   | -.02641           |
| 1886.0                          | 2452.79                            | 3838                        | 2.711                       | -.028              | .07809                      | -.00220                         | -.02866                   | -.02647           |
| 1888.0                          | 2456.59                            | 3796                        | 2.591                       | -.426              | .06395                      | -.03323                         | -.01618                   | .01705            |
| 1890.0                          | 2459.34                            | 2752                        | 1.440                       | .349               | .05616                      | .02232                          | -.04627                   | -.06859           |
| 1892.0                          | 2462.63                            | 3285                        | 2.499                       | .039               | .05608                      | .00218                          | -.09112                   | -.09330           |
| 1894.0                          | 2466.30                            | 3669                        | 2.419                       | .001               | .05608                      | .00005                          | -.01192                   | -.01198           |
| 1896.0                          | 2469.95                            | 3653                        | 2.434                       | .069               | .05581                      | .00386                          | .06157                    | .05771            |
| 1898.0                          | 2473.88                            | 3932                        | 2.595                       | -.016              | .05580                      | -.00088                         | .06115                    | .06202            |
| 1900.0                          | 2477.80                            | 3916                        | 2.525                       | -.003              | .05580                      | -.00019                         | .03646                    | .03665            |
| 1902.0                          | 2481.66                            | 3860                        | 2.544                       | .016               | .05578                      | .00088                          | .00669                    | .00580            |
| 1904.0                          | 2485.59                            | 3937                        | 2.575                       | .010               | .05578                      | .00054                          | .02506                    | .02451            |
|                                 |                                    | 3979                        | 2.597                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1906.0                          | 2489.57                            |                             |                             | -.017              | .05576                      | -.00093                         | -.04798                   | -.04705           |
| 1908.0                          | 2493.44                            | 3863                        | 2.587                       | -.036              | .05569                      | -.00203                         | .00114                    | .00316            |
| 1910.0                          | 2497.16                            | 3724                        | 2.496                       | .038               | .05561                      | .00210                          | .00928                    | .00718            |
| 1912.0                          | 2500.93                            | 3765                        | 2.662                       | .009               | .05561                      | .00048                          | .05706                    | .05658            |
| 1914.0                          | 2504.74                            | 3814                        | 2.673                       | -.011              | .05560                      | -.00064                         | -.00077                   | -.00013           |
| 1916.0                          | 2508.56                            | 3816                        | 2.611                       | -.029              | .05555                      | -.00160                         | -.02366                   | -.02206           |
| 1918.0                          | 2512.31                            | 3757                        | 2.504                       | -.074              | .05525                      | -.00409                         | .00350                    | .00760            |
| 1920.0                          | 2515.80                            | 3488                        | 2.327                       | -.178              | .05350                      | -.00983                         | -.07322                   | -.06339           |
| 1922.0                          | 2518.86                            | 3057                        | 1.853                       | .195               | .05147                      | .01043                          | .01359                    | .00316            |
| 1924.0                          | 2522.21                            | 3354                        | 2.507                       | .108               | .05087                      | .00556                          | -.09586                   | -.10143           |
| 1926.0                          | 2526.22                            | 4008                        | 2.606                       | -.071              | .05061                      | -.00359                         | -.02121                   | -.01761           |
| 1928.0                          | 2530.04                            | 3815                        | 2.376                       | -.047              | .05050                      | -.00240                         | .03388                    | .03628            |
| 1930.0                          | 2533.79                            | 3749                        | 2.199                       | -.019              | .05048                      | -.00097                         | .06582                    | .06678            |
| 1932.0                          | 2537.44                            | 3655                        | 2.171                       | .004               | .05048                      | .00018                          | -.02875                   | -.02892           |
| 1934.0                          | 2540.99                            | 3547                        | 2.253                       | .019               | .05046                      | .00095                          | -.00077                   | -.00172           |
| 1936.0                          | 2544.57                            | 3579                        | 2.318                       | .066               | .05024                      | .00333                          | -.00917                   | -.01251           |
| 1938.0                          | 2548.25                            | 3683                        | 2.571                       | .046               | .05013                      | .00233                          | .05137                    | .04904            |
| 1940.0                          | 2552.10                            | 3851                        | 2.699                       | .009               | .05013                      | .00044                          | .01278                    | .01234            |
| 1942.0                          | 2556.07                            | 3971                        | 2.663                       | -.339              | .04436                      | -.01701                         | -.01626                   | .00075            |
| 1944.0                          | 2559.28                            | 3208                        | 1.626                       | .256               | .04146                      | .01135                          | .01516                    | .00382            |
| 1946.0                          | 2562.81                            | 3534                        | 2.491                       | .122               | .04084                      | .00507                          | -.02056                   | -.02562           |
| 1948.0                          | 2567.04                            | 4227                        | 2.663                       | -.002              | .04084                      | -.00010                         | -.05403                   | -.05393           |
| 1950.0                          | 2571.13                            | 4090                        | 2.739                       | .016               | .04083                      | .00067                          | .04364                    | .04297            |
| 1952.0                          | 2575.39                            | 4256                        | 2.720                       | .154               | .03985                      | .00630                          | .06612                    | .05983            |
| 1954.0                          | 2581.04                            | 5654                        | 2.794                       | .038               | .03980                      | .00152                          | .04049                    | .03897            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 1956.0                          | 2587.08                            | 6043                        | 2.821                       | 0                  | .03980                      | .00001                          | .06426                    | .06426            |
| 1958.0                          | 2593.03                            | 5949                        | 2.866                       | -.085              | .03951                      | -.00338                         | .05503                    | .05841            |
| 1960.0                          | 2598.75                            | 5718                        | 2.515                       | -.023              | .03949                      | -.00090                         | -.00451                   | -.00361           |
| 1962.0                          | 2604.19                            | 5434                        | 2.528                       | -.015              | .03948                      | -.00059                         | -.01209                   | -.01150           |
| 1964.0                          | 2609.52                            | 5332                        | 2.501                       | -.031              | .03944                      | -.00124                         | -.01502                   | -.01378           |
| 1966.0                          | 2614.75                            | 5235                        | 2.392                       | .034               | .03940                      | .00134                          | .06470                    | .06336            |
| 1968.0                          | 2619.87                            | 5119                        | 2.618                       | -.032              | .03935                      | -.00126                         | -.07220                   | -.07094           |
| 1970.0                          | 2624.83                            | 4954                        | 2.537                       | -.026              | .03933                      | -.00103                         | -.02091                   | -.01989           |
| 1972.0                          | 2629.63                            | 4802                        | 2.485                       | -.021              | .03931                      | -.00085                         | .02910                    | .02995            |
| 1974.0                          | 2634.29                            | 4663                        | 2.451                       | -.174              | .03812                      | -.00685                         | -.02844                   | -.02159           |
| 1976.0                          | 2638.82                            | 4530                        | 1.774                       | .128               | .03750                      | .00486                          | -.00572                   | -.01059           |
| 1978.0                          | 2643.22                            | 4400                        | 2.361                       | .013               | .03749                      | .00050                          | -.03943                   | -.03993           |
| 1980.0                          | 2647.41                            | 4193                        | 2.544                       | .026               | .03746                      | .00098                          | -.02345                   | -.02443           |
| 1982.0                          | 2651.67                            | 4258                        | 2.639                       | -.224              | .03559                      | -.00838                         | -.04559                   | -.03721           |
| 1984.0                          | 2655.95                            | 4275                        | 1.668                       | -.029              | .03556                      | -.00104                         | .00107                    | .00211            |
| 1986.0                          | 2660.11                            | 4164                        | 1.615                       | .079               | .03534                      | .00282                          | -.03628                   | -.03910           |
| 1988.0                          | 2664.18                            | 4069                        | 1.937                       | .081               | .03510                      | .00286                          | -.04006                   | -.04292           |
| 1990.0                          | 2668.16                            | 3980                        | 2.329                       | .011               | .03510                      | .00038                          | .01414                    | .01376            |
| 1992.0                          | 2672.03                            | 3875                        | 2.444                       | .050               | .03501                      | .00176                          | -.00659                   | -.00836           |
| 1994.0                          | 2675.97                            | 3935                        | 2.662                       | -.007              | .03501                      | -.00024                         | -.01792                   | -.01768           |
| 1996.0                          | 2679.91                            | 3946                        | 2.619                       | .008               | .03501                      | .00029                          | .08886                    | .08858            |
| 1998.0                          | 2683.90                            | 3989                        | 2.633                       | .008               | .03500                      | .00029                          | .01834                    | .01805            |
| 2000.0                          | 2687.91                            | 4008                        | 2.665                       | -.015              | .03500                      | -.00053                         | .03384                    | .03437            |
| 2002.0                          | 2691.81                            | 3902                        | 2.655                       | -.088              | .03472                      | -.00309                         | -.03440                   | -.03130           |
|                                 |                                    | 3696                        | 2.347                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2004.0                          | 2695.51                            |                             |                             | .111               | .03429                      | .00387                          | .03317                    | .02930            |
| 2006.0                          | 2699.57                            | 4064                        | 2.670                       | -.008              | .03429                      | -.00028                         | -.07860                   | -.07832           |
| 2008.0                          | 2703.59                            | 4021                        | 2.655                       | .002               | .03429                      | .00008                          | .03832                    | .03824            |
| 2010.0                          | 2707.62                            | 4027                        | 2.664                       | -.023              | .03427                      | -.00077                         | -.00900                   | -.00823           |
| 2012.0                          | 2711.63                            | 4008                        | 2.559                       | -.032              | .03424                      | -.00110                         | -.03224                   | -.03114           |
| 2014.0                          | 2715.50                            | 3871                        | 2.484                       | .055               | .03413                      | .00190                          | -.04147                   | -.04337           |
| 2016.0                          | 2719.61                            | 4109                        | 2.615                       | -.108              | .03373                      | -.00369                         | .03545                    | .03914            |
| 2018.0                          | 2723.20                            | 3590                        | 2.409                       | .079               | .03352                      | .00267                          | -.05970                   | -.06237           |
| 2020.0                          | 2727.01                            | 3807                        | 2.663                       | .013               | .03351                      | .00045                          | .05572                    | .05527            |
| 2022.0                          | 2730.96                            | 3950                        | 2.636                       | .005               | .03351                      | .00018                          | .01186                    | .01167            |
| 2024.0                          | 2734.93                            | 3972                        | 2.651                       | -.024              | .03349                      | -.00082                         | -.04338                   | -.04257           |
| 2026.0                          | 2738.78                            | 3851                        | 2.604                       | -.032              | .03346                      | -.00108                         | .07260                    | .07368            |
| 2028.0                          | 2742.42                            | 3637                        | 2.585                       | -.020              | .03345                      | -.00066                         | -.04828                   | -.04762           |
| 2030.0                          | 2745.97                            | 3556                        | 2.541                       | .010               | .03344                      | .00034                          | .02478                    | .02444            |
| 2032.0                          | 2749.64                            | 3666                        | 2.515                       | -.035              | .03340                      | -.00118                         | .04829                    | .04947            |
| 2034.0                          | 2753.22                            | 3575                        | 2.404                       | .089               | .03314                      | .00298                          | -.03000                   | -.03298           |
| 2036.0                          | 2757.14                            | 3926                        | 2.618                       | .009               | .03313                      | .00028                          | -.02895                   | -.02923           |
| 2038.0                          | 2761.04                            | 3899                        | 2.682                       | -.025              | .03311                      | -.00082                         | -.03310                   | -.03228           |
| 2040.0                          | 2764.89                            | 3853                        | 2.583                       | .025               | .03309                      | .00083                          | .01777                    | .01693            |
| 2042.0                          | 2768.77                            | 3873                        | 2.702                       | -.012              | .03309                      | -.00040                         | .05369                    | .05409            |
| 2044.0                          | 2772.54                            | 3769                        | 2.710                       | .009               | .03308                      | .00030                          | .03200                    | .03171            |
| 2046.0                          | 2776.44                            | 3905                        | 2.663                       | -.039              | .03304                      | -.00127                         | .00924                    | .01051            |
| 2048.0                          | 2776.44                            | 3789                        | 2.541                       | .037               | .03299                      | .00121                          | -.01027                   | -.01148           |
| 2050.0                          | 2780.23                            | 3900                        | 2.656                       | .009               | .03299                      | .00030                          | .00811                    | .00782            |
| 2052.0                          | 2784.13                            | 4070                        | 2.591                       | .011               | .03298                      | .00038                          | -.03450                   | -.03488           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2054.0                          | 2792.30                            | 4104                        | 2,630                       | -.006              | .03298                      | -.00019                         | .04043                    | .04062            |
| 2056.0                          | 2796.34                            | 4035                        | 2,644                       | -.062              | .03286                      | -.00204                         | -.01445                   | -.01241           |
| 2058.0                          | 2800.14                            | 3798                        | 2,482                       | -.035              | .03282                      | -.00116                         | -.04980                   | -.04863           |
| 2060.0                          | 2803.77                            | 3633                        | 2,417                       | .055               | .03272                      | .00179                          | .01778                    | .01599            |
| 2062.0                          | 2807.66                            | 3886                        | 2,521                       | -.080              | .03251                      | -.00260                         | -.00730                   | -.00470           |
| 2064.0                          | 2811.24                            | 3588                        | 2,328                       | .025               | .03249                      | .00082                          | .00719                    | .00637            |
| 2066.0                          | 2814.89                            | 3646                        | 2,409                       | .040               | .03244                      | .00129                          | -.00539                   | -.00668           |
| 2068.0                          | 2818.69                            | 3801                        | 2,503                       | .034               | .03240                      | .00111                          | -.00317                   | -.00428           |
| 2070.0                          | 2822.63                            | 3939                        | 2,587                       | .037               | .03236                      | .00118                          | -.06304                   | -.06423           |
| 2072.0                          | 2826.71                            | 4076                        | 2,689                       | -.012              | .03235                      | -.00038                         | .01277                    | .01315            |
| 2074.0                          | 2830.75                            | 4044                        | 2,648                       | -.019              | .03234                      | -.00061                         | .04797                    | .04858            |
| 2076.0                          | 2834.78                            | 4031                        | 2,558                       | -.034              | .03230                      | -.00112                         | .00979                    | .01090            |
| 2078.0                          | 2838.60                            | 3816                        | 2,522                       | .043               | .03224                      | .00140                          | .01926                    | .01786            |
| 2080.0                          | 2842.65                            | 4048                        | 2,592                       | .022               | .03223                      | .00071                          | .01656                    | .01585            |
| 2082.0                          | 2846.76                            | 4112                        | 2,667                       | .009               | .03222                      | .00030                          | .01137                    | .01108            |
| 2084.0                          | 2850.88                            | 4125                        | 2,708                       | -.028              | .03220                      | -.00091                         | -.03542                   | -.03451           |
| 2086.0                          | 2854.74                            | 3854                        | 2,740                       | .010               | .03219                      | .00031                          | -.02501                   | -.02532           |
| 2088.0                          | 2858.66                            | 3927                        | 2,741                       | -.026              | .03217                      | -.00083                         | .08297                    | .08380            |
| 2090.0                          | 2862.61                            | 3943                        | 2,592                       | -.041              | .03212                      | -.00132                         | -.05989                   | -.05857           |
| 2092.0                          | 2866.31                            | 3705                        | 2,541                       | -.004              | .03212                      | -.00011                         | .02867                    | .02879            |
| 2094.0                          | 2870.03                            | 3718                        | 2,514                       | .061               | .03200                      | .00197                          | -.01810                   | -.02008           |
| 2096.0                          | 2874.02                            | 3993                        | 2,647                       | -.006              | .03200                      | -.00018                         | .00210                    | .00228            |
| 2098.0                          | 2877.88                            | 3858                        | 2,710                       | .003               | .03200                      | .00009                          | -.03088                   | -.03097           |
| 2100.0                          | 2881.73                            | 3846                        | 2,733                       | -.007              | .03199                      | -.00024                         | .02857                    | .02881            |
|                                 |                                    | 3790                        | 2,733                       |                    |                             |                                 |                           |                   |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2102.0                          | 2885.52                            |                             |                             | .006               | .03199                      | .00020                          | -.00574                   | -.00595           |
| 2104.0                          | 2889.37                            | 3858                        | 2.719                       | -.007              | .03199                      | -.00024                         | .01002                    | .01026            |
| 2106.0                          | 2893.22                            | 3841                        | 2.690                       | .004               | .03199                      | .00013                          | .04123                    | .04109            |
| 2108.0                          | 2897.06                            | 3843                        | 2.712                       | -.002              | .03199                      | -.00007                         | .01206                    | .01213            |
| 2110.0                          | 2900.87                            | 3812                        | 2.721                       | .025               | .03197                      | .00079                          | -.03472                   | -.03550           |
| 2112.0                          | 2904.85                            | 3984                        | 2.735                       | -.004              | .03197                      | -.00014                         | -.05534                   | -.05520           |
| 2114.0                          | 2908.83                            | 3975                        | 2.717                       | .014               | .03196                      | .00043                          | .02516                    | .02473            |
| 2116.0                          | 2912.95                            | 4122                        | 2.692                       | -.001              | .03196                      | -.00002                         | .00639                    | .00641            |
| 2118.0                          | 2917.06                            | 4106                        | 2.700                       | -.011              | .03196                      | -.00035                         | .04476                    | .04511            |
| 2120.0                          | 2921.05                            | 3991                        | 2.716                       | .006               | .03196                      | .00020                          | -.00682                   | -.00702           |
| 2122.0                          | 2925.05                            | 4004                        | 2.741                       | .007               | .03196                      | .00022                          | .00966                    | .00944            |
| 2124.0                          | 2929.18                            | 4125                        | 2.699                       | .001               | .03196                      | .00002                          | .00625                    | .00622            |
| 2126.0                          | 2933.29                            | 4113                        | 2.711                       | 0                  | .03196                      | 0                               | -.02513                   | -.02513           |
| 2128.0                          | 2937.39                            | 4096                        | 2.721                       | -.002              | .03196                      | -.00007                         | -.00175                   | -.00168           |
| 2130.0                          | 2941.54                            | 4159                        | 2.669                       | -.075              | .03178                      | -.00240                         | .01856                    | .02096            |
| 2132.0                          | 2945.34                            | 3794                        | 2.517                       | .066               | .03164                      | .00209                          | .01073                    | .00863            |
| 2134.0                          | 2949.51                            | 4175                        | 2.610                       | -.004              | .03164                      | -.00012                         | .02001                    | .02012            |
| 2136.0                          | 2953.62                            | 4110                        | 2.632                       | .019               | .03163                      | .00059                          | -.04021                   | -.04080           |
| 2138.0                          | 2957.78                            | 4160                        | 2.699                       | -.006              | .03163                      | -.00018                         | -.00742                   | -.00724           |
| 2140.0                          | 2961.90                            | 4114                        | 2.698                       | -.074              | .03146                      | -.00233                         | -.01782                   | -.01550           |
| 2142.0                          | 2965.74                            | 3844                        | 2.492                       | .054               | .03136                      | .00170                          | .03127                    | .02957            |
| 2144.0                          | 2969.88                            | 4135                        | 2.582                       | -.020              | .03135                      | -.00064                         | .01072                    | .01136            |
| 2146.0                          | 2973.92                            | 4045                        | 2.533                       | -.041              | .03130                      | -.00129                         | -.05906                   | -.05777           |
| 2148.0                          | 2977.77                            | 3852                        | 2.449                       | -.077              | .03111                      | -.00242                         | -.00862                   | -.00620           |
| 2150.0                          | 2981.21                            | 3432                        | 2.355                       | .038               | .03107                      | .00118                          | .00983                    | .00864            |

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| TWO WAY TRAVEL TIME MS | DEPTH FROM SRD (OR TOP) M | INTERVAL VELOCITY M/S | INTERVAL DENSITY G/C3 | REFLECT. COEFF. | TWO WAY ATTEN. COEFF. | SYNTHETIC SEISMO. PRIMARY | PRIMARY + MULTIPLES | MULTIPLES ONLY |
|------------------------|---------------------------|-----------------------|-----------------------|-----------------|-----------------------|---------------------------|---------------------|----------------|
| 2152.0                 | 2984.85                   | 3646                  | 2.392                 | .097            | .03077                | .00301                    | -.01859             | -.02161        |
| 2154.0                 | 2988.95                   | 4103                  | 2.582                 | -.024           | .03076                | -.00074                   | .01845              | .01919         |
| 2156.0                 | 2992.95                   | 3993                  | 2.528                 | .029            | .03073                | .00089                    | .02998              | .02909         |
| 2158.0                 | 2997.08                   | 4130                  | 2.590                 | -.002           | .03073                | -.00007                   | -.00191             | -.00184        |
| 2160.0                 | 3001.19                   | 4111                  | 2.590                 | -.029           | .03071                | -.00088                   | .02928              | .03016         |
| 2162.0                 | 3005.16                   | 3972                  | 2.532                 | -.083           | .03049                | -.00256                   | .02964              | .03219         |
| 2164.0                 | 3008.76                   | 3602                  | 2.363                 | .015            | .03049                | .00045                    | -.07994             | -.08039        |
| 2166.0                 | 3012.27                   | 3512                  | 2.495                 | .112            | .03010                | .00341                    | -.01292             | -.01633        |
| 2168.0                 | 3016.44                   | 4163                  | 2.636                 | .004            | .03010                | .00013                    | .00049              | .00036         |
| 2170.0                 | 3020.68                   | 4243                  | 2.608                 | .026            | .03008                | .00079                    | -.02542             | -.02621        |
| 2172.0                 | 3025.01                   | 4329                  | 2.695                 | -.026           | .03006                | -.00079                   | .03166              | .03245         |
| 2174.0                 | 3029.16                   | 4156                  | 2.664                 | -.082           | .02986                | -.00248                   | .01613              | .01860         |
| 2176.0                 | 3032.90                   | 3738                  | 2.510                 | .031            | .02983                | .00091                    | .03302              | .03211         |
| 2178.0                 | 3036.74                   | 3836                  | 2.600                 | .124            | .02937                | .00370                    | .07062              | .06692         |
| 2180.0                 | 3041.43                   | 4695                  | 2.726                 | .078            | .02919                | .00230                    | -.01837             | -.02067        |
| 2182.0                 | 3046.81                   | 5376                  | 2.785                 | .009            | .02919                | .00025                    | -.04198             | -.04224        |
| 2184.0                 | 3052.31                   | 5500                  | 2.770                 | -.217           | .02782                | -.00633                   | .05850              | .06483         |
| 2186.0                 | 3056.30                   | 3991                  | 2.457                 | .135            | .02731                | .00375                    | .00050              | -.00326        |
| 2188.0                 | 3061.03                   | 4730                  | 2.720                 | .018            | .02730                | .00049                    | .00474              | .00425         |
| 2190.0                 | 3065.95                   | 4918                  | 2.712                 | -.065           | .02719                | -.00178                   | -.00595             | -.00417        |
| 2192.0                 | 3070.35                   | 4399                  | 2.661                 | .016            | .02718                | .00044                    | -.01403             | -.01448        |
| 2194.0                 | 3074.87                   | 4520                  | 2.676                 | -.068           | .02705                | -.00184                   | .00246              | .00430         |
| 2196.0                 | 3078.90                   | 4031                  | 2.619                 | .016            | .02705                | .00043                    | -.04570             | -.04613        |
| 2198.0                 | 3083.04                   | 4145                  | 2.631                 | -.098           | .02679                | -.00265                   | .02271              | .02536         |
|                        |                           | 3776                  | 2.373                 |                 |                       |                           |                     |                |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2200.0                          | 3086.82                            |                             |                             | -.048              | .02673                      | -.00128                         | -.02637                   | -.02509           |
| 2202.0                          | 3090.38                            | 3564                        | 2.285                       | .116               | .02637                      | .00309                          | -.04805                   | -.05115           |
| 2204.0                          | 3094.36                            | 3979                        | 2.582                       | -.064              | .02626                      | -.00169                         | -.01064                   | -.00895           |
| 2206.0                          | 3097.97                            | 3609                        | 2.505                       | .056               | .02618                      | .00146                          | -.03501                   | -.03647           |
| 2208.0                          | 3101.92                            | 3949                        | 2.559                       | -.028              | .02616                      | -.00072                         | .00187                    | .00260            |
| 2210.0                          | 3105.74                            | 3822                        | 2.502                       | -.014              | .02615                      | -.00038                         | .02147                    | .02185            |
| 2212.0                          | 3109.65                            | 3910                        | 2.376                       | .022               | .02614                      | .00059                          | .00488                    | .00429            |
| 2214.0                          | 3113.56                            | 3908                        | 2.486                       | .104               | .02586                      | .00272                          | .01645                    | .01372            |
| 2216.0                          | 3118.14                            | 4583                        | 2.613                       | -.139              | .02536                      | -.00360                         | .02313                    | .02673            |
| 2218.0                          | 3121.96                            | 3817                        | 2.371                       | -.031              | .02533                      | -.00078                         | .00971                    | .01049            |
| 2220.0                          | 3125.63                            | 3674                        | 2.316                       | .043               | .02528                      | .00110                          | -.00010                   | -.00120           |
| 2222.0                          | 3129.43                            | 3793                        | 2.446                       | .175               | .02451                      | .00441                          | .02209                    | .01768            |
| 2224.0                          | 3134.59                            | 5167                        | 2.556                       | .021               | .02450                      | .00052                          | -.01701                   | -.01753           |
| 2226.0                          | 3139.76                            | 5163                        | 2.669                       | -.138              | .02403                      | -.00339                         | .03219                    | .03558            |
| 2228.0                          | 3143.87                            | 4110                        | 2.538                       | .025               | .02402                      | .00059                          | -.00759                   | -.00818           |
| 2230.0                          | 3148.04                            | 4168                        | 2.629                       | -.054              | .02395                      | -.00130                         | -.01737                   | -.01608           |
| 2232.0                          | 3151.93                            | 3899                        | 2.522                       | .095               | .02373                      | .00227                          | .07568                    | .07341            |
| 2234.0                          | 3156.52                            | 4585                        | 2.594                       | -.059              | .02365                      | -.00139                         | -.05425                   | -.05285           |
| 2236.0                          | 3160.85                            | 4333                        | 2.440                       | -.027              | .02363                      | -.00063                         | -.03788                   | -.03725           |
| 2238.0                          | 3165.26                            | 4413                        | 2.272                       | -.081              | .02348                      | -.00192                         | .00075                    | .00267            |
| 2240.0                          | 3168.78                            | 3514                        | 2.425                       | .086               | .02330                      | .00203                          | -.05211                   | -.05414           |
| 2242.0                          | 3173.03                            | 4253                        | 2.383                       | -.058              | .02323                      | -.00134                         | .00162                    | .00296            |
| 2244.0                          | 3176.83                            | 3803                        | 2.375                       | -.090              | .02304                      | -.00208                         | -.03817                   | -.03610           |
| 2246.0                          | 3179.88                            | 3051                        | 2.474                       | .223               | .02189                      | .00515                          | .00336                    | -.00179           |
| 2248.0                          | 3184.27                            | 4390                        | 2.708                       | .031               | .02187                      | .00068                          | -.01229                   | -.01298           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
|                                 |                                    | 4724                        | 2,678                       |                    |                             |                                 |                           |                   |
| 2250.0                          | 3189.00                            | 4765                        | 2,717                       | .011               | .02187                      | .00025                          | .03360                    | .03335            |
| 2252.0                          | 3193.76                            | 4160                        | 2,674                       | -.076              | .02174                      | -.00165                         | .05709                    | .05874            |
| 2254.0                          | 3197.92                            | 4089                        | 2,412                       | -.060              | .02166                      | -.00131                         | .00538                    | .00668            |
| 2256.0                          | 3202.01                            | 3317                        | 2,572                       | -.072              | .02155                      | -.00157                         | .02204                    | .02361            |
| 2258.0                          | 3205.33                            | 4203                        | 2,584                       | .120               | .02124                      | .00259                          | -.00824                   | -.01083           |
| 2260.0                          | 3209.53                            | 3899                        | 2,371                       | -.080              | .02110                      | -.00171                         | -.06095                   | -.05925           |
| 2262.0                          | 3213.43                            | 3419                        | 2,674                       | -.005              | .02110                      | -.00012                         | .02466                    | .02478            |
| 2264.0                          | 3216.85                            | 3387                        | 2,468                       | -.045              | .02106                      | -.00095                         | .03352                    | .03447            |
| 2266.0                          | 3220.24                            | 3266                        | 2,359                       | -.041              | .02102                      | -.00086                         | -.04190                   | -.04104           |
| 2268.0                          | 3223.50                            | 3604                        | 2,714                       | .119               | .02073                      | .00250                          | -.00236                   | -.00486           |
| 2270.0                          | 3227.11                            | 3636                        | 2,707                       | .003               | .02073                      | .00006                          | -.03170                   | -.03176           |
| 2272.0                          | 3230.74                            | 3725                        | 2,671                       | .005               | .02073                      | .00011                          | -.00470                   | -.00481           |
| 2274.0                          | 3234.47                            | 3731                        | 2,481                       | -.036              | .02070                      | -.00075                         | .04283                    | .04358            |
| 2276.0                          | 3238.20                            | 4192                        | 2,600                       | .081               | .02056                      | .00169                          | -.02218                   | -.02387           |
| 2278.0                          | 3242.39                            | 4346                        | 2,428                       | -.016              | .02056                      | -.00033                         | .02737                    | .02771            |
| 2280.0                          | 3246.74                            | 3575                        | 2,259                       | -.133              | .02019                      | -.00273                         | -.01081                   | -.00807           |
| 2282.0                          | 3250.31                            | 3267                        | 2,332                       | -.029              | .02018                      | -.00059                         | .01107                    | .01166            |
| 2284.0                          | 3253.58                            | 3502                        | 2,554                       | .080               | .02005                      | .00161                          | .01597                    | .01436            |
| 2286.0                          | 3257.08                            | 3253                        | 2,378                       | -.072              | .01994                      | -.00145                         | -.01275                   | -.01130           |
| 2288.0                          | 3260.33                            | 3367                        | 2,431                       | .028               | .01993                      | .00056                          | -.03528                   | -.03584           |
| 2290.0                          | 3263.70                            | 3511                        | 2,513                       | .037               | .01990                      | .00075                          | -.00698                   | -.00772           |
| 2292.0                          | 3267.21                            | 3751                        | 2,521                       | .035               | .01987                      | .00069                          | -.06784                   | -.06853           |
| 2294.0                          | 3270.96                            | 3950                        | 2,582                       | .038               | .01985                      | .00075                          | .02549                    | .02474            |
| 2296.0                          | 3274.91                            | 3544                        | 2,570                       | -.057              | .01978                      | -.00112                         | .03197                    | .03309            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2298.0                          | 3278.46                            |                             |                             | .001               | .01978                      | .00001                          | .00666                    | .00665            |
| 2300.0                          | 3281.99                            | 3535                        | 2,579                       | -.030              | .01977                      | -.00060                         | -.02247                   | -.02188           |
| 2302.0                          | 3285.31                            | 3321                        | 2,585                       | .201               | .01897                      | .00397                          | .02576                    | .02179            |
| 2304.0                          | 3290.04                            | 4723                        | 2,731                       | -.232              | .01795                      | -.00440                         | .05093                    | .05533            |
| 2306.0                          | 3293.36                            | 3329                        | 2,416                       | -.036              | .01792                      | -.00065                         | -.05410                   | -.05345           |
| 2308.0                          | 3296.77                            | 3408                        | 2,195                       | -.001              | .01792                      | -.00001                         | -.04636                   | -.04635           |
| 2310.0                          | 3300.26                            | 3484                        | 2,145                       | -.028              | .01791                      | -.00050                         | .03260                    | .03310            |
| 2312.0                          | 3303.48                            | 3221                        | 2,193                       | -.034              | .01789                      | -.00061                         | .00243                    | .00304            |
| 2314.0                          | 3306.58                            | 3098                        | 2,130                       | .114               | .01766                      | .00203                          | -.01483                   | -.01686           |
| 2316.0                          | 3309.89                            | 3313                        | 2,502                       | .125               | .01738                      | .00220                          | -.06829                   | -.07050           |
| 2318.0                          | 3313.97                            | 4085                        | 2,608                       | .063               | .01731                      | .00109                          | .02015                    | .01906            |
| 2320.0                          | 3318.74                            | 4765                        | 2,536                       | -.136              | .01699                      | -.00236                         | .09692                    | .09928            |
| 2322.0                          | 3322.57                            | 3833                        | 2,397                       | -.153              | .01659                      | -.00261                         | -.04943                   | -.04682           |
| 2324.0                          | 3326.13                            | 3561                        | 1,894                       | -.093              | .01645                      | -.00154                         | .03333                    | .03487            |
| 2326.0                          | 3329.59                            | 3458                        | 1,618                       | -.095              | .01630                      | -.00156                         | -.03398                   | -.03242           |
| 2328.0                          | 3332.69                            | 3103                        | 1,491                       | .146               | .01595                      | .00239                          | -.01625                   | -.01864           |
| 2330.0                          | 3335.79                            | 3098                        | 2,006                       | .098               | .01580                      | .00156                          | -.10843                   | -.10998           |
| 2332.0                          | 3338.89                            | 3094                        | 2,443                       | 0                  | 0                           | 0                               | .05808                    | .05808            |
| 2334.0                          |                                    |                             |                             |                    |                             |                                 | -.00508                   | -.00508           |
| 2336.0                          |                                    |                             |                             |                    |                             |                                 | -.02668                   | -.02668           |
| 2338.0                          |                                    |                             |                             |                    |                             |                                 | -.06503                   | -.06503           |
| 2340.0                          |                                    |                             |                             |                    |                             |                                 | .07535                    | .07535            |
| 2342.0                          |                                    |                             |                             |                    |                             |                                 | .00370                    | .00370            |
| 2344.0                          |                                    |                             |                             |                    |                             |                                 | -.00802                   | -.00802           |
| 2346.0                          |                                    |                             |                             |                    |                             |                                 | .01607                    | .01607            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2348.0                          |                                    |                             |                             |                    |                             |                                 | -.01487                   | -.01487           |
| 2350.0                          |                                    |                             |                             |                    |                             |                                 | .02729                    | .02729            |
| 2352.0                          |                                    |                             |                             |                    |                             |                                 | .01243                    | .01243            |
| 2354.0                          |                                    |                             |                             |                    |                             |                                 | -.03147                   | -.03147           |
| 2356.0                          |                                    |                             |                             |                    |                             |                                 | -.01346                   | -.01346           |
| 2358.0                          |                                    |                             |                             |                    |                             |                                 | .06702                    | .06702            |
| 2360.0                          |                                    |                             |                             |                    |                             |                                 | -.02232                   | -.02232           |
| 2362.0                          |                                    |                             |                             |                    |                             |                                 | -.00817                   | -.00817           |
| 2364.0                          |                                    |                             |                             |                    |                             |                                 | -.03168                   | -.03168           |
| 2366.0                          |                                    |                             |                             |                    |                             |                                 | .01256                    | .01256            |
| 2368.0                          |                                    |                             |                             |                    |                             |                                 | -.00973                   | -.00973           |
| 2370.0                          |                                    |                             |                             |                    |                             |                                 | .02745                    | .02745            |
| 2372.0                          |                                    |                             |                             |                    |                             |                                 | .05084                    | .05084            |
| 2374.0                          |                                    |                             |                             |                    |                             |                                 | .00238                    | .00238            |
| 2376.0                          |                                    |                             |                             |                    |                             |                                 | .01174                    | .01174            |
| 2378.0                          |                                    |                             |                             |                    |                             |                                 | .00474                    | .00474            |
| 2380.0                          |                                    |                             |                             |                    |                             |                                 | -.01147                   | -.01147           |
| 2382.0                          |                                    |                             |                             |                    |                             |                                 | -.02995                   | -.02995           |
| 2384.0                          |                                    |                             |                             |                    |                             |                                 | -.00968                   | -.00968           |
| 2386.0                          |                                    |                             |                             |                    |                             |                                 | -.01465                   | -.01465           |
| 2388.0                          |                                    |                             |                             |                    |                             |                                 | .00786                    | .00786            |
| 2390.0                          |                                    |                             |                             |                    |                             |                                 | -.02025                   | -.02025           |
| 2392.0                          |                                    |                             |                             |                    |                             |                                 | .05987                    | .05987            |
| 2394.0                          |                                    |                             |                             |                    |                             |                                 | -.02884                   | -.02884           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2396.0                          |                                    |                             |                             |                    |                             |                                 | -.01948                   | -.01948           |
| 2398.0                          |                                    |                             |                             |                    |                             |                                 | -.01820                   | -.01820           |
| 2400.0                          |                                    |                             |                             |                    |                             |                                 | .00665                    | .00665            |
| 2402.0                          |                                    |                             |                             |                    |                             |                                 | .04683                    | .04683            |
| 2404.0                          |                                    |                             |                             |                    |                             |                                 | .00502                    | .00502            |
| 2406.0                          |                                    |                             |                             |                    |                             |                                 | .04118                    | .04118            |
| 2408.0                          |                                    |                             |                             |                    |                             |                                 | -.07350                   | -.07350           |
| 2410.0                          |                                    |                             |                             |                    |                             |                                 | .02516                    | .02516            |
| 2412.0                          |                                    |                             |                             |                    |                             |                                 | -.02865                   | -.02865           |
| 2414.0                          |                                    |                             |                             |                    |                             |                                 | .03910                    | .03910            |
| 2416.0                          |                                    |                             |                             |                    |                             |                                 | -.01984                   | -.01984           |
| 2418.0                          |                                    |                             |                             |                    |                             |                                 | .06248                    | .06248            |
| 2420.0                          |                                    |                             |                             |                    |                             |                                 | -.03770                   | -.03770           |
| 2422.0                          |                                    |                             |                             |                    |                             |                                 | -.02027                   | -.02027           |
| 2424.0                          |                                    |                             |                             |                    |                             |                                 | .01638                    | .01638            |
| 2426.0                          |                                    |                             |                             |                    |                             |                                 | .02207                    | .02207            |
| 2428.0                          |                                    |                             |                             |                    |                             |                                 | -.05283                   | -.05283           |
| 2430.0                          |                                    |                             |                             |                    |                             |                                 | -.00606                   | -.00606           |
| 2432.0                          |                                    |                             |                             |                    |                             |                                 | .05790                    | .05790            |
| 2434.0                          |                                    |                             |                             |                    |                             |                                 | -.05903                   | -.05903           |
| 2436.0                          |                                    |                             |                             |                    |                             |                                 | .02695                    | .02695            |
| 2438.0                          |                                    |                             |                             |                    |                             |                                 | .00187                    | .00187            |
| 2440.0                          |                                    |                             |                             |                    |                             |                                 | .01966                    | .01966            |
| 2442.0                          |                                    |                             |                             |                    |                             |                                 | -.03002                   | -.03002           |
| 2444.0                          |                                    |                             |                             |                    |                             |                                 | -.01170                   | -.01170           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2446.0                          |                                    |                             |                             |                    |                             |                                 | .03140                    | .03140            |
| 2448.0                          |                                    |                             |                             |                    |                             |                                 | -.01594                   | -.01594           |
| 2450.0                          |                                    |                             |                             |                    |                             |                                 | -.01328                   | -.01328           |
| 2452.0                          |                                    |                             |                             |                    |                             |                                 | .03162                    | .03162            |
| 2454.0                          |                                    |                             |                             |                    |                             |                                 | .02383                    | .02383            |
| 2456.0                          |                                    |                             |                             |                    |                             |                                 | -.02701                   | -.02701           |
| 2458.0                          |                                    |                             |                             |                    |                             |                                 | -.01136                   | -.01136           |
| 2460.0                          |                                    |                             |                             |                    |                             |                                 | .03491                    | .03491            |
| 2462.0                          |                                    |                             |                             |                    |                             |                                 | .02347                    | .02347            |
| 2464.0                          |                                    |                             |                             |                    |                             |                                 | -.02819                   | -.02819           |
| 2466.0                          |                                    |                             |                             |                    |                             |                                 | -.03420                   | -.03420           |
| 2468.0                          |                                    |                             |                             |                    |                             |                                 | -.01004                   | -.01004           |
| 2470.0                          |                                    |                             |                             |                    |                             |                                 | -.07045                   | -.07045           |
| 2472.0                          |                                    |                             |                             |                    |                             |                                 | .06423                    | .06423            |
| 2474.0                          |                                    |                             |                             |                    |                             |                                 | .01752                    | .01752            |
| 2476.0                          |                                    |                             |                             |                    |                             |                                 | -.00761                   | -.00761           |
| 2478.0                          |                                    |                             |                             |                    |                             |                                 | .02156                    | .02156            |
| 2480.0                          |                                    |                             |                             |                    |                             |                                 | -.00370                   | -.00370           |
| 2482.0                          |                                    |                             |                             |                    |                             |                                 | .01930                    | .01930            |
| 2484.0                          |                                    |                             |                             |                    |                             |                                 | -.00307                   | -.00307           |
| 2486.0                          |                                    |                             |                             |                    |                             |                                 | -.01699                   | -.01699           |
| 2488.0                          |                                    |                             |                             |                    |                             |                                 | -.02098                   | -.02098           |
| 2490.0                          |                                    |                             |                             |                    |                             |                                 | .00954                    | .00954            |
| 2492.0                          |                                    |                             |                             |                    |                             |                                 | -.04498                   | -.04498           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2494.0                          |                                    |                             |                             |                    |                             |                                 | -.00058                   | -.00058           |
| 2496.0                          |                                    |                             |                             |                    |                             |                                 | .03002                    | .03002            |
| 2498.0                          |                                    |                             |                             |                    |                             |                                 | -.01362                   | -.01362           |
| 2500.0                          |                                    |                             |                             |                    |                             |                                 | -.00489                   | -.00489           |
| 2502.0                          |                                    |                             |                             |                    |                             |                                 | .00885                    | .00885            |
| 2504.0                          |                                    |                             |                             |                    |                             |                                 | .04471                    | .04471            |
| 2506.0                          |                                    |                             |                             |                    |                             |                                 | .01451                    | .01451            |
| 2508.0                          |                                    |                             |                             |                    |                             |                                 | -.03473                   | -.03473           |
| 2510.0                          |                                    |                             |                             |                    |                             |                                 | -.00877                   | -.00877           |
| 2512.0                          |                                    |                             |                             |                    |                             |                                 | -.02496                   | -.02496           |
| 2514.0                          |                                    |                             |                             |                    |                             |                                 | .07010                    | .07010            |
| 2516.0                          |                                    |                             |                             |                    |                             |                                 | -.07845                   | -.07845           |
| 2518.0                          |                                    |                             |                             |                    |                             |                                 | .00190                    | .00190            |
| 2520.0                          |                                    |                             |                             |                    |                             |                                 | -.03102                   | -.03102           |
| 2522.0                          |                                    |                             |                             |                    |                             |                                 | .05994                    | .05994            |
| 2524.0                          |                                    |                             |                             |                    |                             |                                 | .01584                    | .01584            |
| 2526.0                          |                                    |                             |                             |                    |                             |                                 | -.02181                   | -.02181           |
| 2528.0                          |                                    |                             |                             |                    |                             |                                 | .01276                    | .01276            |
| 2530.0                          |                                    |                             |                             |                    |                             |                                 | -.05339                   | -.05339           |
| 2532.0                          |                                    |                             |                             |                    |                             |                                 | -.00684                   | -.00684           |
| 2534.0                          |                                    |                             |                             |                    |                             |                                 | .04296                    | .04296            |
| 2536.0                          |                                    |                             |                             |                    |                             |                                 | -.01179                   | -.01179           |
| 2538.0                          |                                    |                             |                             |                    |                             |                                 | .04714                    | .04714            |
| 2540.0                          |                                    |                             |                             |                    |                             |                                 | -.01270                   | -.01270           |
| 2542.0                          |                                    |                             |                             |                    |                             |                                 | -.02150                   | -.02150           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2544.0                          |                                    |                             |                             |                    |                             |                                 | -.02185                   | -.02185           |
| 2546.0                          |                                    |                             |                             |                    |                             |                                 | .03579                    | .03579            |
| 2548.0                          |                                    |                             |                             |                    |                             |                                 | -.00895                   | -.00895           |
| 2550.0                          |                                    |                             |                             |                    |                             |                                 | .02771                    | .02771            |
| 2552.0                          |                                    |                             |                             |                    |                             |                                 | -.02266                   | -.02266           |
| 2554.0                          |                                    |                             |                             |                    |                             |                                 | -.04811                   | -.04811           |
| 2556.0                          |                                    |                             |                             |                    |                             |                                 | -.01527                   | -.01527           |
| 2558.0                          |                                    |                             |                             |                    |                             |                                 | -.00420                   | -.00420           |
| 2560.0                          |                                    |                             |                             |                    |                             |                                 | -.01050                   | -.01050           |
| 2562.0                          |                                    |                             |                             |                    |                             |                                 | .06137                    | .06137            |
| 2564.0                          |                                    |                             |                             |                    |                             |                                 | .00253                    | .00253            |
| 2566.0                          |                                    |                             |                             |                    |                             |                                 | .02149                    | .02149            |
| 2568.0                          |                                    |                             |                             |                    |                             |                                 | -.03931                   | -.03931           |
| 2570.0                          |                                    |                             |                             |                    |                             |                                 | .02703                    | .02703            |
| 2572.0                          |                                    |                             |                             |                    |                             |                                 | .02999                    | .02999            |
| 2574.0                          |                                    |                             |                             |                    |                             |                                 | -.06701                   | -.06701           |
| 2576.0                          |                                    |                             |                             |                    |                             |                                 | .00300                    | .00300            |
| 2578.0                          |                                    |                             |                             |                    |                             |                                 | .02417                    | .02417            |
| 2580.0                          |                                    |                             |                             |                    |                             |                                 | -.02340                   | -.02340           |
| 2582.0                          |                                    |                             |                             |                    |                             |                                 | .00497                    | .00497            |
| 2584.0                          |                                    |                             |                             |                    |                             |                                 | -.04204                   | -.04204           |
| 2586.0                          |                                    |                             |                             |                    |                             |                                 | -.02668                   | -.02668           |
| 2588.0                          |                                    |                             |                             |                    |                             |                                 | -.00855                   | -.00855           |
| 2590.0                          |                                    |                             |                             |                    |                             |                                 | -.00537                   | -.00537           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2592.0                          |                                    |                             |                             |                    |                             |                                 | .05212                    | .05212            |
| 2594.0                          |                                    |                             |                             |                    |                             |                                 | -.01003                   | -.01003           |
| 2596.0                          |                                    |                             |                             |                    |                             |                                 | -.00748                   | -.00748           |
| 2598.0                          |                                    |                             |                             |                    |                             |                                 | .04655                    | .04655            |
| 2600.0                          |                                    |                             |                             |                    |                             |                                 | -.04490                   | -.04490           |
| 2602.0                          |                                    |                             |                             |                    |                             |                                 | -.02362                   | -.02362           |
| 2604.0                          |                                    |                             |                             |                    |                             |                                 | .01884                    | .01884            |
| 2606.0                          |                                    |                             |                             |                    |                             |                                 | .03335                    | .03335            |
| 2608.0                          |                                    |                             |                             |                    |                             |                                 | .01599                    | .01599            |
| 2610.0                          |                                    |                             |                             |                    |                             |                                 | -.06516                   | -.06516           |
| 2612.0                          |                                    |                             |                             |                    |                             |                                 | .00563                    | .00563            |
| 2614.0                          |                                    |                             |                             |                    |                             |                                 | .03815                    | .03815            |
| 2616.0                          |                                    |                             |                             |                    |                             |                                 | -.03947                   | -.03947           |
| 2618.0                          |                                    |                             |                             |                    |                             |                                 | .01140                    | .01140            |
| 2620.0                          |                                    |                             |                             |                    |                             |                                 | .05186                    | .05186            |
| 2622.0                          |                                    |                             |                             |                    |                             |                                 | -.01042                   | -.01042           |
| 2624.0                          |                                    |                             |                             |                    |                             |                                 | -.06652                   | -.06652           |
| 2626.0                          |                                    |                             |                             |                    |                             |                                 | .00889                    | .00889            |
| 2628.0                          |                                    |                             |                             |                    |                             |                                 | .04093                    | .04093            |
| 2630.0                          |                                    |                             |                             |                    |                             |                                 | -.01905                   | -.01905           |
| 2632.0                          |                                    |                             |                             |                    |                             |                                 | .00879                    | .00879            |
| 2634.0                          |                                    |                             |                             |                    |                             |                                 | .01846                    | .01846            |
| 2636.0                          |                                    |                             |                             |                    |                             |                                 | -.00347                   | -.00347           |
| 2638.0                          |                                    |                             |                             |                    |                             |                                 | -.01769                   | -.01769           |
| 2640.0                          |                                    |                             |                             |                    |                             |                                 | -.00731                   | -.00731           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2642.0                          |                                    |                             |                             |                    |                             |                                 | -.01914                   | -.01914           |
| 2644.0                          |                                    |                             |                             |                    |                             |                                 | .03768                    | .03768            |
| 2646.0                          |                                    |                             |                             |                    |                             |                                 | -.03175                   | -.03175           |
| 2648.0                          |                                    |                             |                             |                    |                             |                                 | .00256                    | .00256            |
| 2650.0                          |                                    |                             |                             |                    |                             |                                 | .02968                    | .02968            |
| 2652.0                          |                                    |                             |                             |                    |                             |                                 | -.00376                   | -.00376           |
| 2654.0                          |                                    |                             |                             |                    |                             |                                 | .00366                    | .00366            |
| 2656.0                          |                                    |                             |                             |                    |                             |                                 | -.06826                   | -.06826           |
| 2658.0                          |                                    |                             |                             |                    |                             |                                 | .03650                    | .03650            |
| 2660.0                          |                                    |                             |                             |                    |                             |                                 | -.02822                   | -.02822           |
| 2662.0                          |                                    |                             |                             |                    |                             |                                 | .02088                    | .02088            |
| 2664.0                          |                                    |                             |                             |                    |                             |                                 | .02656                    | .02656            |
| 2666.0                          |                                    |                             |                             |                    |                             |                                 | -.01371                   | -.01371           |
| 2668.0                          |                                    |                             |                             |                    |                             |                                 | -.02232                   | -.02232           |
| 2670.0                          |                                    |                             |                             |                    |                             |                                 | .08055                    | .08055            |
| 2672.0                          |                                    |                             |                             |                    |                             |                                 | -.03982                   | -.03982           |
| 2674.0                          |                                    |                             |                             |                    |                             |                                 | -.06047                   | -.06047           |
| 2676.0                          |                                    |                             |                             |                    |                             |                                 | .02589                    | .02589            |
| 2678.0                          |                                    |                             |                             |                    |                             |                                 | -.01060                   | -.01060           |
| 2680.0                          |                                    |                             |                             |                    |                             |                                 | -.01725                   | -.01725           |
| 2682.0                          |                                    |                             |                             |                    |                             |                                 | -.00386                   | -.00386           |
| 2684.0                          |                                    |                             |                             |                    |                             |                                 | .00193                    | .00193            |
| 2686.0                          |                                    |                             |                             |                    |                             |                                 | -.01589                   | -.01589           |
| 2688.0                          |                                    |                             |                             |                    |                             |                                 | -.01107                   | -.01107           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2690.0                          |                                    |                             |                             |                    |                             |                                 | .05937                    | .05937            |
| 2692.0                          |                                    |                             |                             |                    |                             |                                 | .00428                    | .00428            |
| 2694.0                          |                                    |                             |                             |                    |                             |                                 | .01339                    | .01339            |
| 2696.0                          |                                    |                             |                             |                    |                             |                                 | .04836                    | .04836            |
| 2698.0                          |                                    |                             |                             |                    |                             |                                 | -.09146                   | -.09146           |
| 2700.0                          |                                    |                             |                             |                    |                             |                                 | .03506                    | .03506            |
| 2702.0                          |                                    |                             |                             |                    |                             |                                 | -.02384                   | -.02384           |
| 2704.0                          |                                    |                             |                             |                    |                             |                                 | .04120                    | .04120            |
| 2706.0                          |                                    |                             |                             |                    |                             |                                 | -.02726                   | -.02726           |
| 2708.0                          |                                    |                             |                             |                    |                             |                                 | -.03469                   | -.03469           |
| 2710.0                          |                                    |                             |                             |                    |                             |                                 | .03039                    | .03039            |
| 2712.0                          |                                    |                             |                             |                    |                             |                                 | -.01332                   | -.01332           |
| 2714.0                          |                                    |                             |                             |                    |                             |                                 | .03983                    | .03983            |
| 2716.0                          |                                    |                             |                             |                    |                             |                                 | .00473                    | .00473            |
| 2718.0                          |                                    |                             |                             |                    |                             |                                 | -.02310                   | -.02310           |
| 2720.0                          |                                    |                             |                             |                    |                             |                                 | .01541                    | .01541            |
| 2722.0                          |                                    |                             |                             |                    |                             |                                 | -.00033                   | -.00033           |
| 2724.0                          |                                    |                             |                             |                    |                             |                                 | -.05392                   | -.05392           |
| 2726.0                          |                                    |                             |                             |                    |                             |                                 | .01748                    | .01748            |
| 2728.0                          |                                    |                             |                             |                    |                             |                                 | .09071                    | .09071            |
| 2730.0                          |                                    |                             |                             |                    |                             |                                 | -.05338                   | -.05338           |
| 2732.0                          |                                    |                             |                             |                    |                             |                                 | .01576                    | .01576            |
| 2734.0                          |                                    |                             |                             |                    |                             |                                 | -.05228                   | -.05228           |
| 2736.0                          |                                    |                             |                             |                    |                             |                                 | .00621                    | .00621            |
| 2738.0                          |                                    |                             |                             |                    |                             |                                 | .01004                    | .01004            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2740.0                          |                                    |                             |                             |                    |                             |                                 | .03296                    | .03296            |
| 2742.0                          |                                    |                             |                             |                    |                             |                                 | -.04252                   | -.04252           |
| 2744.0                          |                                    |                             |                             |                    |                             |                                 | -.00707                   | -.00707           |
| 2746.0                          |                                    |                             |                             |                    |                             |                                 | -.03020                   | -.03020           |
| 2748.0                          |                                    |                             |                             |                    |                             |                                 | .04109                    | .04109            |
| 2750.0                          |                                    |                             |                             |                    |                             |                                 | -.01768                   | -.01768           |
| 2752.0                          |                                    |                             |                             |                    |                             |                                 | .00999                    | .00999            |
| 2754.0                          |                                    |                             |                             |                    |                             |                                 | .03563                    | .03563            |
| 2756.0                          |                                    |                             |                             |                    |                             |                                 | .00209                    | .00209            |
| 2758.0                          |                                    |                             |                             |                    |                             |                                 | .03588                    | .03588            |
| 2760.0                          |                                    |                             |                             |                    |                             |                                 | -.02930                   | -.02930           |
| 2762.0                          |                                    |                             |                             |                    |                             |                                 | -.04988                   | -.04988           |
| 2764.0                          |                                    |                             |                             |                    |                             |                                 | .04939                    | .04939            |
| 2766.0                          |                                    |                             |                             |                    |                             |                                 | -.00270                   | -.00270           |
| 2768.0                          |                                    |                             |                             |                    |                             |                                 | .01044                    | .01044            |
| 2770.0                          |                                    |                             |                             |                    |                             |                                 | -.00452                   | -.00452           |
| 2772.0                          |                                    |                             |                             |                    |                             |                                 | -.02164                   | -.02164           |
| 2774.0                          |                                    |                             |                             |                    |                             |                                 | -.03073                   | -.03073           |
| 2776.0                          |                                    |                             |                             |                    |                             |                                 | .06259                    | .06259            |
| 2778.0                          |                                    |                             |                             |                    |                             |                                 | .02434                    | .02434            |
| 2780.0                          |                                    |                             |                             |                    |                             |                                 | .01915                    | .01915            |
| 2782.0                          |                                    |                             |                             |                    |                             |                                 | -.05637                   | -.05637           |
| 2784.0                          |                                    |                             |                             |                    |                             |                                 | -.00518                   | -.00518           |
| 2786.0                          |                                    |                             |                             |                    |                             |                                 | .03036                    | .03036            |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2788.0                          |                                    |                             |                             |                    |                             |                                 | -.01318                   | -.01318           |
| 2790.0                          |                                    |                             |                             |                    |                             |                                 | -.03492                   | -.03492           |
| 2792.0                          |                                    |                             |                             |                    |                             |                                 | -.02835                   | -.02835           |
| 2794.0                          |                                    |                             |                             |                    |                             |                                 | .03279                    | .03279            |
| 2796.0                          |                                    |                             |                             |                    |                             |                                 | .01760                    | .01760            |
| 2798.0                          |                                    |                             |                             |                    |                             |                                 | -.00874                   | -.00874           |
| 2800.0                          |                                    |                             |                             |                    |                             |                                 | -.03695                   | -.03695           |
| 2802.0                          |                                    |                             |                             |                    |                             |                                 | .00029                    | .00029            |
| 2804.0                          |                                    |                             |                             |                    |                             |                                 | -.02803                   | -.02803           |
| 2806.0                          |                                    |                             |                             |                    |                             |                                 | .01027                    | .01027            |
| 2808.0                          |                                    |                             |                             |                    |                             |                                 | .01576                    | .01576            |
| 2810.0                          |                                    |                             |                             |                    |                             |                                 | .02129                    | .02129            |
| 2812.0                          |                                    |                             |                             |                    |                             |                                 | -.02537                   | -.02537           |
| 2814.0                          |                                    |                             |                             |                    |                             |                                 | .01138                    | .01138            |
| 2816.0                          |                                    |                             |                             |                    |                             |                                 | -.02129                   | -.02129           |
| 2818.0                          |                                    |                             |                             |                    |                             |                                 | .05898                    | .05898            |
| 2820.0                          |                                    |                             |                             |                    |                             |                                 | .01245                    | .01245            |
| 2822.0                          |                                    |                             |                             |                    |                             |                                 | -.03531                   | -.03531           |
| 2824.0                          |                                    |                             |                             |                    |                             |                                 | .02142                    | .02142            |
| 2826.0                          |                                    |                             |                             |                    |                             |                                 | -.08152                   | -.08152           |
| 2828.0                          |                                    |                             |                             |                    |                             |                                 | .02486                    | .02486            |
| 2830.0                          |                                    |                             |                             |                    |                             |                                 | .07862                    | .07862            |
| 2832.0                          |                                    |                             |                             |                    |                             |                                 | -.03438                   | -.03438           |
| 2834.0                          |                                    |                             |                             |                    |                             |                                 | .01828                    | .01828            |
| 2836.0                          |                                    |                             |                             |                    |                             |                                 | -.04177                   | -.04177           |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2838.0                          |                                    |                             |                             |                    |                             |                                 | .06130                    | .06130            |
| 2840.0                          |                                    |                             |                             |                    |                             |                                 | -.05574                   | -.05574           |
| 2842.0                          |                                    |                             |                             |                    |                             |                                 | .02066                    | .02066            |
| 2844.0                          |                                    |                             |                             |                    |                             |                                 | -.04541                   | -.04541           |
| 2846.0                          |                                    |                             |                             |                    |                             |                                 | -.00435                   | -.00435           |
| 2848.0                          |                                    |                             |                             |                    |                             |                                 | .03089                    | .03089            |
| 2850.0                          |                                    |                             |                             |                    |                             |                                 | -.03491                   | -.03491           |
| 2852.0                          |                                    |                             |                             |                    |                             |                                 | .00796                    | .00796            |
| 2854.0                          |                                    |                             |                             |                    |                             |                                 | -.00529                   | -.00529           |
| 2856.0                          |                                    |                             |                             |                    |                             |                                 | -.02531                   | -.02531           |
| 2858.0                          |                                    |                             |                             |                    |                             |                                 | .00303                    | .00303            |
| 2860.0                          |                                    |                             |                             |                    |                             |                                 | .06719                    | .06719            |
| 2862.0                          |                                    |                             |                             |                    |                             |                                 | .02259                    | .02259            |
| 2864.0                          |                                    |                             |                             |                    |                             |                                 | -.10729                   | -.10729           |
| 2866.0                          |                                    |                             |                             |                    |                             |                                 | .02721                    | .02721            |
| 2868.0                          |                                    |                             |                             |                    |                             |                                 | -.02097                   | -.02097           |
| 2870.0                          |                                    |                             |                             |                    |                             |                                 | .07019                    | .07019            |
| 2872.0                          |                                    |                             |                             |                    |                             |                                 | -.01992                   | -.01992           |
| 2874.0                          |                                    |                             |                             |                    |                             |                                 | .02763                    | .02763            |
| 2876.0                          |                                    |                             |                             |                    |                             |                                 | .01301                    | .01301            |
| 2878.0                          |                                    |                             |                             |                    |                             |                                 | -.00974                   | -.00974           |
| 2880.0                          |                                    |                             |                             |                    |                             |                                 | .06944                    | .06944            |
| 2882.0                          |                                    |                             |                             |                    |                             |                                 | -.03341                   | -.03341           |
| 2884.0                          |                                    |                             |                             |                    |                             |                                 | -.04428                   | -.04428           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2886.0                          |                                    |                             |                             |                    |                             |                                 | -.00748                   | -.00748           |
| 2888.0                          |                                    |                             |                             |                    |                             |                                 | -.04033                   | -.04033           |
| 2890.0                          |                                    |                             |                             |                    |                             |                                 | -.01834                   | -.01834           |
| 2892.0                          |                                    |                             |                             |                    |                             |                                 | .01124                    | .01124            |
| 2894.0                          |                                    |                             |                             |                    |                             |                                 | .05902                    | .05902            |
| 2896.0                          |                                    |                             |                             |                    |                             |                                 | -.04279                   | -.04279           |
| 2898.0                          |                                    |                             |                             |                    |                             |                                 | .04830                    | .04830            |
| 2900.0                          |                                    |                             |                             |                    |                             |                                 | -.04989                   | -.04989           |
| 2902.0                          |                                    |                             |                             |                    |                             |                                 | .00564                    | .00564            |
| 2904.0                          |                                    |                             |                             |                    |                             |                                 | .00594                    | .00594            |
| 2906.0                          |                                    |                             |                             |                    |                             |                                 | -.02164                   | -.02164           |
| 2908.0                          |                                    |                             |                             |                    |                             |                                 | -.01327                   | -.01327           |
| 2910.0                          |                                    |                             |                             |                    |                             |                                 | -.03325                   | -.03325           |
| 2912.0                          |                                    |                             |                             |                    |                             |                                 | .07070                    | .07070            |
| 2914.0                          |                                    |                             |                             |                    |                             |                                 | .02444                    | .02444            |
| 2916.0                          |                                    |                             |                             |                    |                             |                                 | -.03450                   | -.03450           |
| 2918.0                          |                                    |                             |                             |                    |                             |                                 | -.06174                   | -.06174           |
| 2920.0                          |                                    |                             |                             |                    |                             |                                 | .02223                    | .02223            |
| 2922.0                          |                                    |                             |                             |                    |                             |                                 | .04069                    | .04069            |
| 2924.0                          |                                    |                             |                             |                    |                             |                                 | -.00430                   | -.00430           |
| 2926.0                          |                                    |                             |                             |                    |                             |                                 | .02536                    | .02536            |
| 2928.0                          |                                    |                             |                             |                    |                             |                                 | .03783                    | .03783            |
| 2930.0                          |                                    |                             |                             |                    |                             |                                 | -.03546                   | -.03546           |
| 2932.0                          |                                    |                             |                             |                    |                             |                                 | .03154                    | .03154            |
| 2934.0                          |                                    |                             |                             |                    |                             |                                 | -.05560                   | -.05560           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2936.0                          |                                    |                             |                             |                    |                             |                                 | -.01861                   | -.01861           |
| 2938.0                          |                                    |                             |                             |                    |                             |                                 | .01568                    | .01568            |
| 2940.0                          |                                    |                             |                             |                    |                             |                                 | .01877                    | .01877            |
| 2942.0                          |                                    |                             |                             |                    |                             |                                 | .00153                    | .00153            |
| 2944.0                          |                                    |                             |                             |                    |                             |                                 | -.05115                   | -.05115           |
| 2946.0                          |                                    |                             |                             |                    |                             |                                 | -.01888                   | -.01888           |
| 2948.0                          |                                    |                             |                             |                    |                             |                                 | .05851                    | .05851            |
| 2950.0                          |                                    |                             |                             |                    |                             |                                 | -.00861                   | -.00861           |
| 2952.0                          |                                    |                             |                             |                    |                             |                                 | .01024                    | .01024            |
| 2954.0                          |                                    |                             |                             |                    |                             |                                 | .00800                    | .00800            |
| 2956.0                          |                                    |                             |                             |                    |                             |                                 | -.01579                   | -.01579           |
| 2958.0                          |                                    |                             |                             |                    |                             |                                 | -.03021                   | -.03021           |
| 2960.0                          |                                    |                             |                             |                    |                             |                                 | .00253                    | .00253            |
| 2962.0                          |                                    |                             |                             |                    |                             |                                 | .03867                    | .03867            |
| 2964.0                          |                                    |                             |                             |                    |                             |                                 | .02942                    | .02942            |
| 2966.0                          |                                    |                             |                             |                    |                             |                                 | .03208                    | .03208            |
| 2968.0                          |                                    |                             |                             |                    |                             |                                 | -.02991                   | -.02991           |
| 2970.0                          |                                    |                             |                             |                    |                             |                                 | -.01160                   | -.01160           |
| 2972.0                          |                                    |                             |                             |                    |                             |                                 | .02057                    | .02057            |
| 2974.0                          |                                    |                             |                             |                    |                             |                                 | .01630                    | .01630            |
| 2976.0                          |                                    |                             |                             |                    |                             |                                 | -.02140                   | -.02140           |
| 2978.0                          |                                    |                             |                             |                    |                             |                                 | -.02624                   | -.02624           |
| 2980.0                          |                                    |                             |                             |                    |                             |                                 | .00329                    | .00329            |
| 2982.0                          |                                    |                             |                             |                    |                             |                                 | -.00450                   | -.00450           |

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WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 2984.0                          |                                    |                             |                             |                    |                             |                                 | -.02318                   | -.02318           |
| 2986.0                          |                                    |                             |                             |                    |                             |                                 | -.02739                   | -.02739           |
| 2988.0                          |                                    |                             |                             |                    |                             |                                 | .02312                    | .02312            |
| 2990.0                          |                                    |                             |                             |                    |                             |                                 | .03871                    | .03871            |
| 2992.0                          |                                    |                             |                             |                    |                             |                                 | -.02234                   | -.02234           |
| 2994.0                          |                                    |                             |                             |                    |                             |                                 | -.00829                   | -.00829           |
| 2996.0                          |                                    |                             |                             |                    |                             |                                 | -.01222                   | -.01222           |
| 2998.0                          |                                    |                             |                             |                    |                             |                                 | .02718                    | .02718            |
| 3000.0                          |                                    |                             |                             |                    |                             |                                 | -.00542                   | -.00542           |
| 3002.0                          |                                    |                             |                             |                    |                             |                                 | -.06571                   | -.06571           |
| 3004.0                          |                                    |                             |                             |                    |                             |                                 | .02558                    | .02558            |
| 3006.0                          |                                    |                             |                             |                    |                             |                                 | .03976                    | .03976            |
| 3008.0                          |                                    |                             |                             |                    |                             |                                 | .00533                    | .00533            |
| 3010.0                          |                                    |                             |                             |                    |                             |                                 | .05405                    | .05405            |
| 3012.0                          |                                    |                             |                             |                    |                             |                                 | -.07103                   | -.07103           |
| 3014.0                          |                                    |                             |                             |                    |                             |                                 | .04587                    | .04587            |
| 3016.0                          |                                    |                             |                             |                    |                             |                                 | .02893                    | .02893            |
| 3018.0                          |                                    |                             |                             |                    |                             |                                 | -.04408                   | -.04408           |
| 3020.0                          |                                    |                             |                             |                    |                             |                                 | .03514                    | .03514            |
| 3022.0                          |                                    |                             |                             |                    |                             |                                 | -.03294                   | -.03294           |
| 3024.0                          |                                    |                             |                             |                    |                             |                                 | -.04573                   | -.04573           |
| 3026.0                          |                                    |                             |                             |                    |                             |                                 | .00306                    | .00306            |
| 3028.0                          |                                    |                             |                             |                    |                             |                                 | .01713                    | .01713            |
| 3030.0                          |                                    |                             |                             |                    |                             |                                 | -.00794                   | -.00794           |
| 3032.0                          |                                    |                             |                             |                    |                             |                                 | .02744                    | .02744            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3034.0                          |                                    |                             |                             |                    |                             |                                 | .00831                    | .00831            |
| 3036.0                          |                                    |                             |                             |                    |                             |                                 | -.01299                   | -.01299           |
| 3038.0                          |                                    |                             |                             |                    |                             |                                 | -.04415                   | -.04415           |
| 3040.0                          |                                    |                             |                             |                    |                             |                                 | .06896                    | .06896            |
| 3042.0                          |                                    |                             |                             |                    |                             |                                 | -.05189                   | -.05189           |
| 3044.0                          |                                    |                             |                             |                    |                             |                                 | .08824                    | .08824            |
| 3046.0                          |                                    |                             |                             |                    |                             |                                 | -.04354                   | -.04354           |
| 3048.0                          |                                    |                             |                             |                    |                             |                                 | -.01292                   | -.01292           |
| 3050.0                          |                                    |                             |                             |                    |                             |                                 | .01099                    | .01099            |
| 3052.0                          |                                    |                             |                             |                    |                             |                                 | .01952                    | .01952            |
| 3054.0                          |                                    |                             |                             |                    |                             |                                 | -.02514                   | -.02514           |
| 3056.0                          |                                    |                             |                             |                    |                             |                                 | .04651                    | .04651            |
| 3058.0                          |                                    |                             |                             |                    |                             |                                 | .03143                    | .03143            |
| 3060.0                          |                                    |                             |                             |                    |                             |                                 | -.02743                   | -.02743           |
| 3062.0                          |                                    |                             |                             |                    |                             |                                 | .01096                    | .01096            |
| 3064.0                          |                                    |                             |                             |                    |                             |                                 | -.04758                   | -.04758           |
| 3066.0                          |                                    |                             |                             |                    |                             |                                 | .06320                    | .06320            |
| 3068.0                          |                                    |                             |                             |                    |                             |                                 | -.01519                   | -.01519           |
| 3070.0                          |                                    |                             |                             |                    |                             |                                 | .00882                    | .00882            |
| 3072.0                          |                                    |                             |                             |                    |                             |                                 | -.06105                   | -.06105           |
| 3074.0                          |                                    |                             |                             |                    |                             |                                 | -.03570                   | -.03570           |
| 3076.0                          |                                    |                             |                             |                    |                             |                                 | .06124                    | .06124            |
| 3078.0                          |                                    |                             |                             |                    |                             |                                 | .01961                    | .01961            |
| 3080.0                          |                                    |                             |                             |                    |                             |                                 | -.03848                   | -.03848           |

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3082.0                          |                                    |                             |                             |                    |                             |                                 | -.01451                   | -.01451           |
| 3084.0                          |                                    |                             |                             |                    |                             |                                 | .01516                    | .01516            |
| 3086.0                          |                                    |                             |                             |                    |                             |                                 | .03244                    | .03244            |
| 3088.0                          |                                    |                             |                             |                    |                             |                                 | -.05023                   | -.05023           |
| 3090.0                          |                                    |                             |                             |                    |                             |                                 | -.03425                   | -.03425           |
| 3092.0                          |                                    |                             |                             |                    |                             |                                 | .00166                    | .00166            |
| 3094.0                          |                                    |                             |                             |                    |                             |                                 | .04545                    | .04545            |
| 3096.0                          |                                    |                             |                             |                    |                             |                                 | .03732                    | .03732            |
| 3098.0                          |                                    |                             |                             |                    |                             |                                 | -.02451                   | -.02451           |
| 3100.0                          |                                    |                             |                             |                    |                             |                                 | .00771                    | .00771            |
| 3102.0                          |                                    |                             |                             |                    |                             |                                 | .02766                    | .02766            |
| 3104.0                          |                                    |                             |                             |                    |                             |                                 | -.01288                   | -.01288           |
| 3106.0                          |                                    |                             |                             |                    |                             |                                 | -.01140                   | -.01140           |
| 3108.0                          |                                    |                             |                             |                    |                             |                                 | -.05709                   | -.05709           |
| 3110.0                          |                                    |                             |                             |                    |                             |                                 | -.00577                   | -.00577           |
| 3112.0                          |                                    |                             |                             |                    |                             |                                 | .04316                    | .04316            |
| 3114.0                          |                                    |                             |                             |                    |                             |                                 | -.01533                   | -.01533           |
| 3116.0                          |                                    |                             |                             |                    |                             |                                 | .04506                    | .04506            |
| 3118.0                          |                                    |                             |                             |                    |                             |                                 | -.01120                   | -.01120           |
| 3120.0                          |                                    |                             |                             |                    |                             |                                 | -.04867                   | -.04867           |
| 3122.0                          |                                    |                             |                             |                    |                             |                                 | -.02843                   | -.02843           |
| 3124.0                          |                                    |                             |                             |                    |                             |                                 | .05118                    | .05118            |
| 3126.0                          |                                    |                             |                             |                    |                             |                                 | .03622                    | .03622            |
| 3128.0                          |                                    |                             |                             |                    |                             |                                 | -.03581                   | -.03581           |
| 3130.0                          |                                    |                             |                             |                    |                             |                                 | .03276                    | .03276            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3132.0                          |                                    |                             |                             |                    |                             |                                 | -.02091                   | -.02091           |
| 3134.0                          |                                    |                             |                             |                    |                             |                                 | .02623                    | .02623            |
| 3136.0                          |                                    |                             |                             |                    |                             |                                 | -.03374                   | -.03374           |
| 3138.0                          |                                    |                             |                             |                    |                             |                                 | -.00314                   | -.00314           |
| 3140.0                          |                                    |                             |                             |                    |                             |                                 | -.00485                   | -.00485           |
| 3142.0                          |                                    |                             |                             |                    |                             |                                 | .03848                    | .03848            |
| 3144.0                          |                                    |                             |                             |                    |                             |                                 | -.03356                   | -.03356           |
| 3146.0                          |                                    |                             |                             |                    |                             |                                 | .01569                    | .01569            |
| 3148.0                          |                                    |                             |                             |                    |                             |                                 | .05250                    | .05250            |
| 3150.0                          |                                    |                             |                             |                    |                             |                                 | .01191                    | .01191            |
| 3152.0                          |                                    |                             |                             |                    |                             |                                 | -.06959                   | -.06959           |
| 3154.0                          |                                    |                             |                             |                    |                             |                                 | -.04374                   | -.04374           |
| 3156.0                          |                                    |                             |                             |                    |                             |                                 | .05439                    | .05439            |
| 3158.0                          |                                    |                             |                             |                    |                             |                                 | .06156                    | .06156            |
| 3160.0                          |                                    |                             |                             |                    |                             |                                 | .00734                    | .00734            |
| 3162.0                          |                                    |                             |                             |                    |                             |                                 | -.06670                   | -.06670           |
| 3164.0                          |                                    |                             |                             |                    |                             |                                 | -.02110                   | -.02110           |
| 3166.0                          |                                    |                             |                             |                    |                             |                                 | -.02912                   | -.02912           |
| 3168.0                          |                                    |                             |                             |                    |                             |                                 | -.01707                   | -.01707           |
| 3170.0                          |                                    |                             |                             |                    |                             |                                 | .08012                    | .08012            |
| 3172.0                          |                                    |                             |                             |                    |                             |                                 | .00739                    | .00739            |
| 3174.0                          |                                    |                             |                             |                    |                             |                                 | -.02844                   | -.02844           |
| 3176.0                          |                                    |                             |                             |                    |                             |                                 | .00667                    | .00667            |
| 3178.0                          |                                    |                             |                             |                    |                             |                                 | .05117                    | .05117            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3180.0                          |                                    |                             |                             |                    |                             |                                 | .01143                    | .01143            |
| 3182.0                          |                                    |                             |                             |                    |                             |                                 | -.06595                   | -.06595           |
| 3184.0                          |                                    |                             |                             |                    |                             |                                 | -.04524                   | -.04524           |
| 3186.0                          |                                    |                             |                             |                    |                             |                                 | -.02746                   | -.02746           |
| 3188.0                          |                                    |                             |                             |                    |                             |                                 | -.03696                   | -.03696           |
| 3190.0                          |                                    |                             |                             |                    |                             |                                 | .00352                    | .00352            |
| 3192.0                          |                                    |                             |                             |                    |                             |                                 | .09236                    | .09236            |
| 3194.0                          |                                    |                             |                             |                    |                             |                                 | .03483                    | .03483            |
| 3196.0                          |                                    |                             |                             |                    |                             |                                 | -.04672                   | -.04672           |
| 3198.0                          |                                    |                             |                             |                    |                             |                                 | .01696                    | .01696            |
| 3200.0                          |                                    |                             |                             |                    |                             |                                 | -.00848                   | -.00848           |
| 3202.0                          |                                    |                             |                             |                    |                             |                                 | -.01208                   | -.01208           |
| 3204.0                          |                                    |                             |                             |                    |                             |                                 | -.00699                   | -.00699           |
| 3206.0                          |                                    |                             |                             |                    |                             |                                 | .01050                    | .01050            |
| 3208.0                          |                                    |                             |                             |                    |                             |                                 | -.02825                   | -.02825           |
| 3210.0                          |                                    |                             |                             |                    |                             |                                 | .01998                    | .01998            |
| 3212.0                          |                                    |                             |                             |                    |                             |                                 | .00866                    | .00866            |
| 3214.0                          |                                    |                             |                             |                    |                             |                                 | .00792                    | .00792            |
| 3216.0                          |                                    |                             |                             |                    |                             |                                 | .07264                    | .07264            |
| 3218.0                          |                                    |                             |                             |                    |                             |                                 | .02508                    | .02508            |
| 3220.0                          |                                    |                             |                             |                    |                             |                                 | .01277                    | .01277            |
| 3222.0                          |                                    |                             |                             |                    |                             |                                 | -.04188                   | -.04188           |
| 3224.0                          |                                    |                             |                             |                    |                             |                                 | .03052                    | .03052            |
| 3226.0                          |                                    |                             |                             |                    |                             |                                 | -.08950                   | -.08950           |
| 3228.0                          |                                    |                             |                             |                    |                             |                                 | .03588                    | .03588            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3230.0                          |                                    |                             |                             |                    |                             |                                 | -.08024                   | -.08024           |
| 3232.0                          |                                    |                             |                             |                    |                             |                                 | .01541                    | .01541            |
| 3234.0                          |                                    |                             |                             |                    |                             |                                 | -.01500                   | -.01500           |
| 3236.0                          |                                    |                             |                             |                    |                             |                                 | .04779                    | .04779            |
| 3238.0                          |                                    |                             |                             |                    |                             |                                 | -.06974                   | -.06974           |
| 3240.0                          |                                    |                             |                             |                    |                             |                                 | .05903                    | .05903            |
| 3242.0                          |                                    |                             |                             |                    |                             |                                 | -.00232                   | -.00232           |
| 3244.0                          |                                    |                             |                             |                    |                             |                                 | -.07256                   | -.07256           |
| 3246.0                          |                                    |                             |                             |                    |                             |                                 | .09954                    | .09954            |
| 3248.0                          |                                    |                             |                             |                    |                             |                                 | -.03700                   | -.03700           |
| 3250.0                          |                                    |                             |                             |                    |                             |                                 | .01004                    | .01004            |
| 3252.0                          |                                    |                             |                             |                    |                             |                                 | -.01011                   | -.01011           |
| 3254.0                          |                                    |                             |                             |                    |                             |                                 | -.00368                   | -.00368           |
| 3256.0                          |                                    |                             |                             |                    |                             |                                 | .03581                    | .03581            |
| 3258.0                          |                                    |                             |                             |                    |                             |                                 | -.02299                   | -.02299           |
| 3260.0                          |                                    |                             |                             |                    |                             |                                 | .03333                    | .03333            |
| 3262.0                          |                                    |                             |                             |                    |                             |                                 | .03127                    | .03127            |
| 3264.0                          |                                    |                             |                             |                    |                             |                                 | -.03925                   | -.03925           |
| 3266.0                          |                                    |                             |                             |                    |                             |                                 | .00643                    | .00643            |
| 3268.0                          |                                    |                             |                             |                    |                             |                                 | .03472                    | .03472            |
| 3270.0                          |                                    |                             |                             |                    |                             |                                 | .01864                    | .01864            |
| 3272.0                          |                                    |                             |                             |                    |                             |                                 | -.08007                   | -.08007           |
| 3274.0                          |                                    |                             |                             |                    |                             |                                 | .06008                    | .06008            |
| 3276.0                          |                                    |                             |                             |                    |                             |                                 | .00214                    | .00214            |

COMPANY : AMOCO AUSTRALIA PETROLEUM CO

WELL : YOLLA #1

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| TWO WAY<br>TRAVEL<br>TIME<br>MS | DEPTH<br>FROM SRD<br>(OR TOP)<br>M | INTERVAL<br>VELOCITY<br>M/S | INTERVAL<br>DENSITY<br>G/C3 | REFLECT.<br>COEFF. | TWO WAY<br>ATTEN.<br>COEFF. | SYNTHETIC<br>SEISMO.<br>PRIMARY | PRIMARY<br>+<br>MULTIPLES | MULTIPLES<br>ONLY |
|---------------------------------|------------------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------|---------------------------|-------------------|
| 3278.0                          |                                    |                             |                             |                    |                             |                                 | -.02748                   | -.02748           |
| 3280.0                          |                                    |                             |                             |                    |                             |                                 | .02846                    | .02846            |
| 3282.0                          |                                    |                             |                             |                    |                             |                                 | -.01386                   | -.01386           |
| 3284.0                          |                                    |                             |                             |                    |                             |                                 | -.09760                   | -.09760           |
| 3286.0                          |                                    |                             |                             |                    |                             |                                 | .02307                    | .02307            |
| 3288.0                          |                                    |                             |                             |                    |                             |                                 | .01353                    | .01353            |
| 3290.0                          |                                    |                             |                             |                    |                             |                                 | -.01153                   | -.01153           |
| 3292.0                          |                                    |                             |                             |                    |                             |                                 | .03322                    | .03322            |
| 3294.0                          |                                    |                             |                             |                    |                             |                                 | .00642                    | .00642            |
| 3296.0                          |                                    |                             |                             |                    |                             |                                 | -.05361                   | -.05361           |
| 3298.0                          |                                    |                             |                             |                    |                             |                                 | -.01247                   | -.01247           |
| 3300.0                          |                                    |                             |                             |                    |                             |                                 | .00174                    | .00174            |
| 3302.0                          |                                    |                             |                             |                    |                             |                                 | .03284                    | .03284            |
| 3304.0                          |                                    |                             |                             |                    |                             |                                 | -.01282                   | -.01282           |

SEISMOLOGUE / 06-2372 316163

PERTH COMPUTING CENTRE  
 Seismbergstr

# RECOMPUTED SONIC

(FOR SYNTHETIC SEISMOGRAM)

COMPANY AMOCO AUSTRALIA PETROLEUM LTD.  
 WELL YOLLA #1  
 WILDCAT

COUNTRY AUSTRALIA  
 RUN NO. ONE INTERVAL 3381.00 - 1768.00 m

REFERENCE No. 640388  
 DATE LOGGED 10-SEP-84  
 DATE PROCESSED 24-SEP-84  
 LOCATION 38 60' 18.96" SOUTH  
 146 48' 21.2" EAST

ELEV 10.80 m DF 10.30 m DL -78.80 m

**COMPUTATION PARAMETERS**

|                 |                        |            |             |        |
|-----------------|------------------------|------------|-------------|--------|
| Field Recording | Equipment              | WIRELOG    | Location    | SEA    |
| Computation     | Program used           | 1. SANSICS | Geophysical | AS     |
|                 | Program Centre Job No. | 02         | Chart No.   | 540388 |
|                 | Core No.               | 02         | Chart Size  | C      |
|                 | Run No.                | 02         | Chart Size  | 17.500 |
|                 | Run No.                | 02         | Chart Size  | 17.500 |

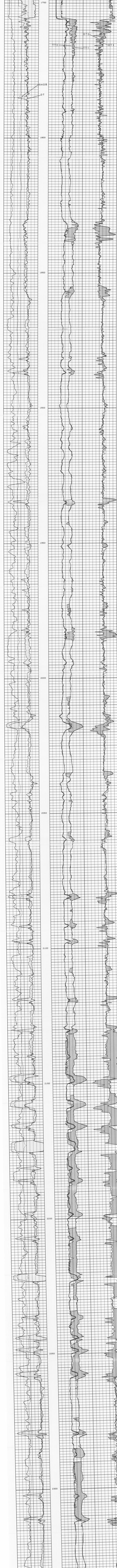
Remarks: TT1, TT2, TT3 & TT4 - SAME BHC SONIC TRANSIT TIMES

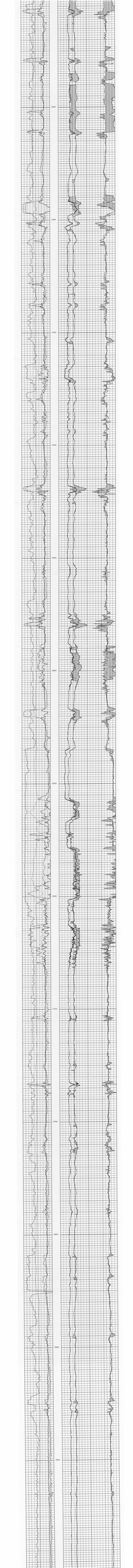
0T1 - SONIC COMPUTED IN CSU USING ALL FOUR TRANSIT TIME CHANNELS  
 0T2 - SONIC RECOMPUTED IN CSU USING ONLY TT1 AND TT2  
 0T3 - SONIC RECOMPUTED IN COMPUTING CENTRE USING TT1, TT2 & TT4

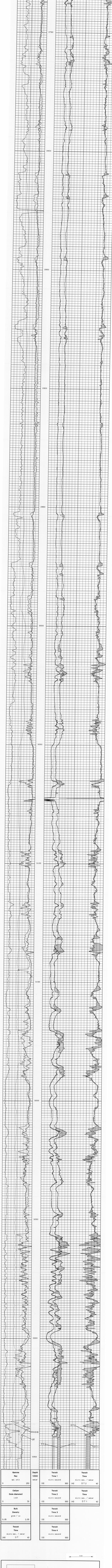
The well name, location and barbed reference data were furnished by the Customer.

**FOLD HERE**

THIS INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION IS PROVIDED AS IS AND WITHOUT WARRANTY OF ANY KIND. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE INFORMATION IS PROVIDED AS IS AND WITHOUT WARRANTY OF ANY KIND.







|   |                       |                                       |   |
|---|-----------------------|---------------------------------------|---|
| <b>Gemma Ray</b><br>opt. unit             | <b>Depth</b><br>meter | <b>Transit Time 1</b><br>micro second | <b>Transit Time</b><br>micro sec. / meter |
| 0 250                                     |                       | 100 900                               | 140 DT 2 40                               |
| <b>Caliper (hole diameter)</b><br>inch    |                       | <b>Transit Time 2</b><br>micro second | <b>Transit Time</b><br>micro sec. / meter |
| 0 30                                      |                       | 100 900                               | 140 DT 1 40                               |
| <b>Bulk Density</b><br>gram / cc          |                       | <b>Transit Time 3</b><br>micro second |   |
| 0.95 2.95                                 |                       | 100 900                               |   |
| <b>Transit Time</b><br>micro sec. / meter |                       | <b>Transit Time 4</b><br>micro second |   |
| 240 DT 40                                 |                       | 100 900                               |   |

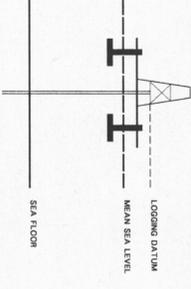
5 cm



# SEISMIC CALIBRATION LOG

## (Adjusted Continuous Velocity Log)

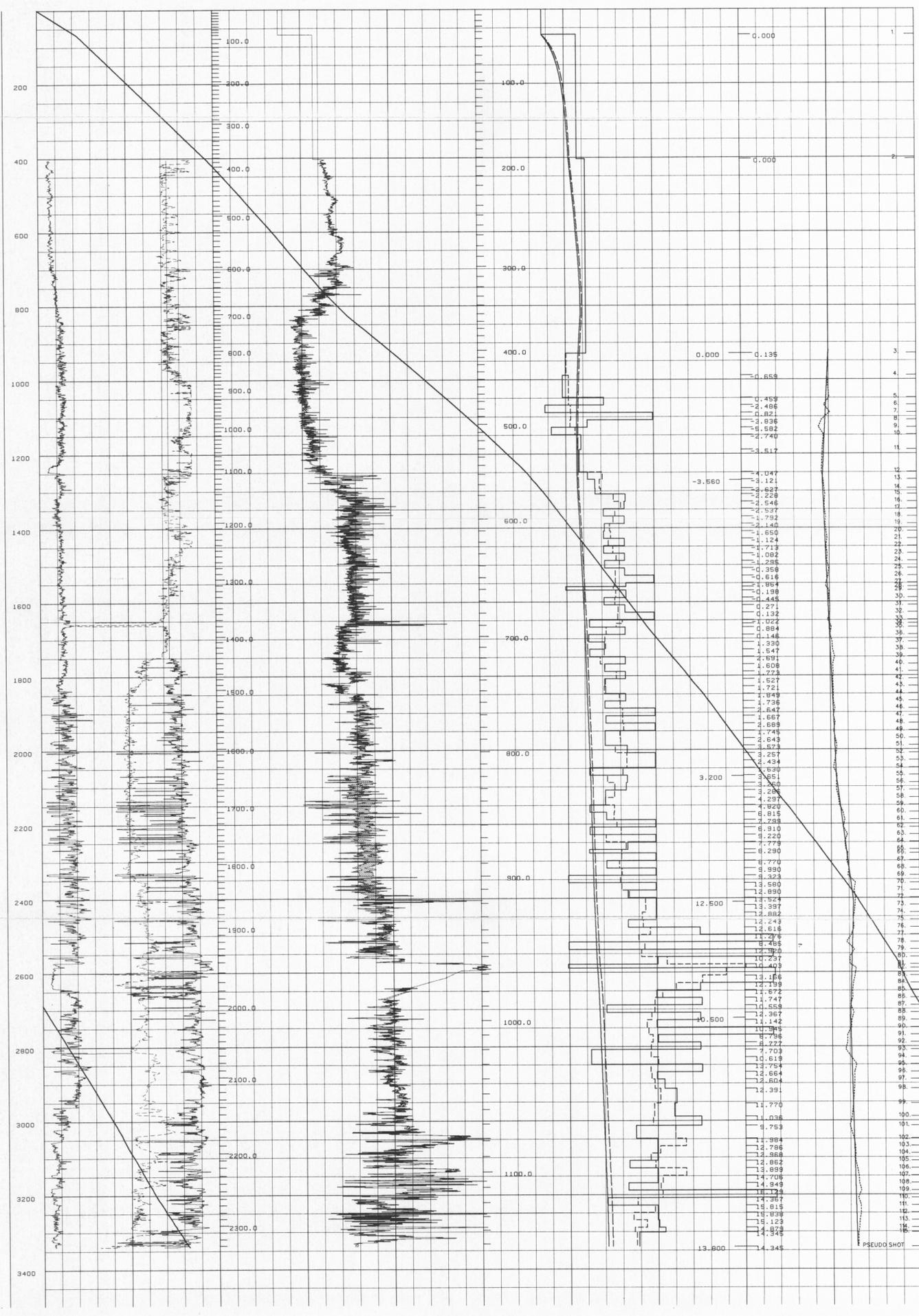
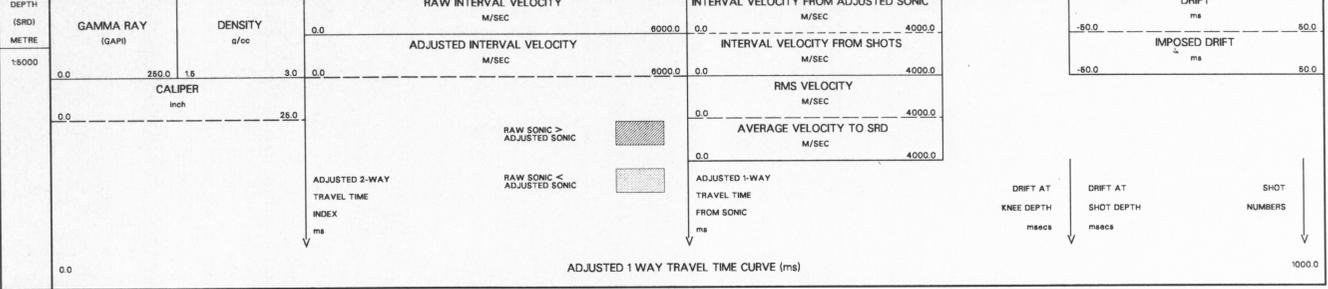
|                |  |
|----------------|--|
| Company:       | AMOCO AUSTRALIA PETROLEUM CO.            |
| Well:          | YOLLA #1                                 |
| Field:         | WILDCAT                                  |
| Country:       | AUSTRALIA                                |
| Reference No:  | 540388                                   |
| Date Logged:   | 10/09/85                                 |
| Location:      | 039 50' 18.96" S<br>145 48' 21.2" E      |
| Elevations:    | KB: 10.9 M<br>MSL: 10.3 M                |
| Depth Units:   | METRES                                   |
| Logging Datum: | 10.9 M<br>ELEVATION ABOVE MEAN SEA LEVEL |
| Sea Floor:     | -79.5 M                                  |
| Company:       | AMOCO AUSTRALIA PETROLEUM CO.            |
| Well:          | YOLLA #1                                 |
| Field:         | WILDCAT                                  |
| Country:       | AUSTRALIA                                |
| Reference No:  | 540388                                   |
| Date Logged:   | 10/09/85                                 |
| Location:      | 039 50' 18.96" S<br>145 48' 21.2" E      |
| Elevations:    | KB: 10.9 M<br>MSL: 10.3 M                |
| Depth Units:   | METRES                                   |
| Logging Datum: | 10.9 M<br>ELEVATION ABOVE MEAN SEA LEVEL |
| Sea Floor:     | -79.5 M                                  |



| Run | Date     | Type | BR Size/Depth    | Casing Size/Depth | Top Depth | Bottom Depth |
|-----|----------|------|------------------|-------------------|-----------|--------------|
| 1   | 08/07/85 | SLS  | 7 1/2" @ 1758 M  | 20" @ 388 M       | 80 M      | 1758 M       |
| 2   | 18/07/85 | SLS  | 12 1/4" @ 3825 M | 13 3/8" @ 1758 M  | 1758 M    | 3825 M       |
| 3   | 23/09/85 | SLS  | 12 1/4" @ 3347 M | 13 3/8" @ 1758 M  | 1758 M    | 3347 M       |

Total No. of Check Levels: 113 (from 940 to 3325 m below KB)  
Velocity Log Depth Reference: SRD  
Velocity Log Time Reference: SRD

The well name, location and borehole reference data were furnished by the customer.  
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.



COMPANY AMOCO AUSTRALIA PETROLEUM CO.  
 FIELD WILDCAT  
 WELL YOLLA #1  
 COUNTRY AUSTRALIA

Schlumberger  
 PERITH  
 COMPUTING  
 CENTRE

# GEOGRAM\*

## MINIMUM PHASE

(Synthetic Seismogram)

Company: AMOCO AUSTRALIA PETROLEUM CO.  
 Well: YOLLA #1  
 Field: WILDCAT  
 Country: AUSTRALIA  
 Date: 020 to 280100  
 Date Processed: 24/09/85  
 Reference No: 420288  
 Date Acquired: 020 507 3830 5  
 Location: 146 08 212" E  
 Elevation: 623 M  
 Dip: 023 M  
 Orientation: N 212 M  
 Magnetic Declination: MAG  
 Dip: 023 M  
 Magnetic Declination: MAG

LOG INFORMATION  
 Log Date: 020  
 Log Time: 020  
 Log Location: 146 08 212" E  
 Log Elevation: 623 M  
 Log Dip: 023 M  
 Log Orientation: N 212 M  
 Log Magnetic Declination: MAG  
 Log Dip: 023 M  
 Log Magnetic Declination: MAG

| Time | Depth | Temperature | Pressure | Gamma Ray | Neutron | Acoustic | Velocity |
|------|-------|-------------|----------|-----------|---------|----------|----------|
| 1    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 2    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 3    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 4    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 5    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 6    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 7    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 8    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 9    | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |
| 10   | 0.000 | 15.0        | 1.013    | 0.000     | 0.000   | 0.000    | 0.000    |

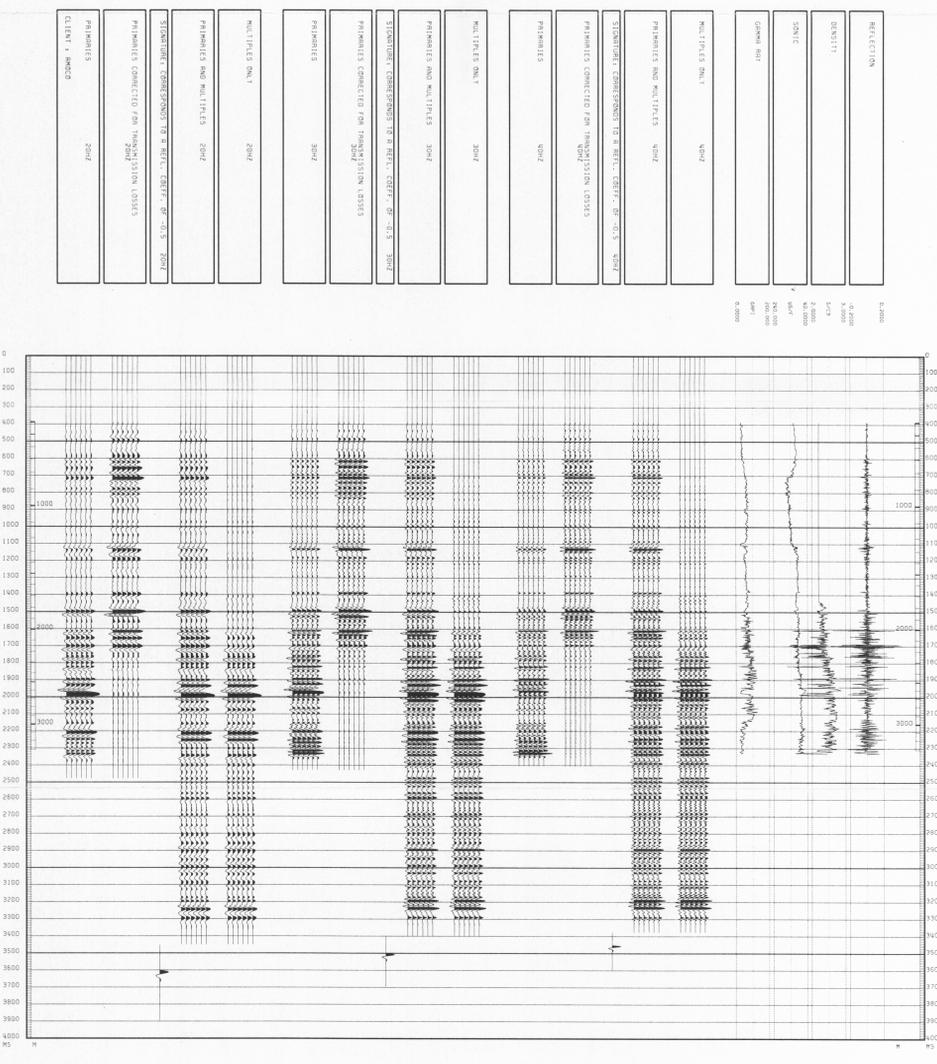
Equal time delay model of horizontal layer.  
 True acoustic waves at normal incidence.  
 No surface attenuation.  
 POLARITY  
 An upward wave, followed by an increase in acoustic impedance.  
 This signal is displayed as a single trace from the survey.  
 SIGNATURES  
 All signals displayed in the Geogram are in minimum phase.  
 All signals are displayed with a reference coefficient of 0.5 (A) unless  
 otherwise indicated.  
 REFERENCE  
 Zone log interval of 25 - 2801 meters below KB  
 True Scale = 0.25 meters

The well name, location and borehole reference data were furnished by the customer.  
 All interpretations are based on information from electrical or other measurements and are subject to the usual uncertainties of such measurements. The accuracy of any interpretation, and we shall not be held responsible for any loss of profit or damage to property, is dependent on the accuracy of the data furnished. The interpretations are also subject to the usual uncertainties of such measurements. The accuracy of any interpretation, and we shall not be held responsible for any loss of profit or damage to property, is dependent on the accuracy of the data furnished.

CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
 FIELD : WILDCAT  
 WELL : YOLLA #1

### GEOGRAM AFTER SONIC CALIBRATION RICKER WAVELETS MINIMUM PHASE NORMAL POLARITY

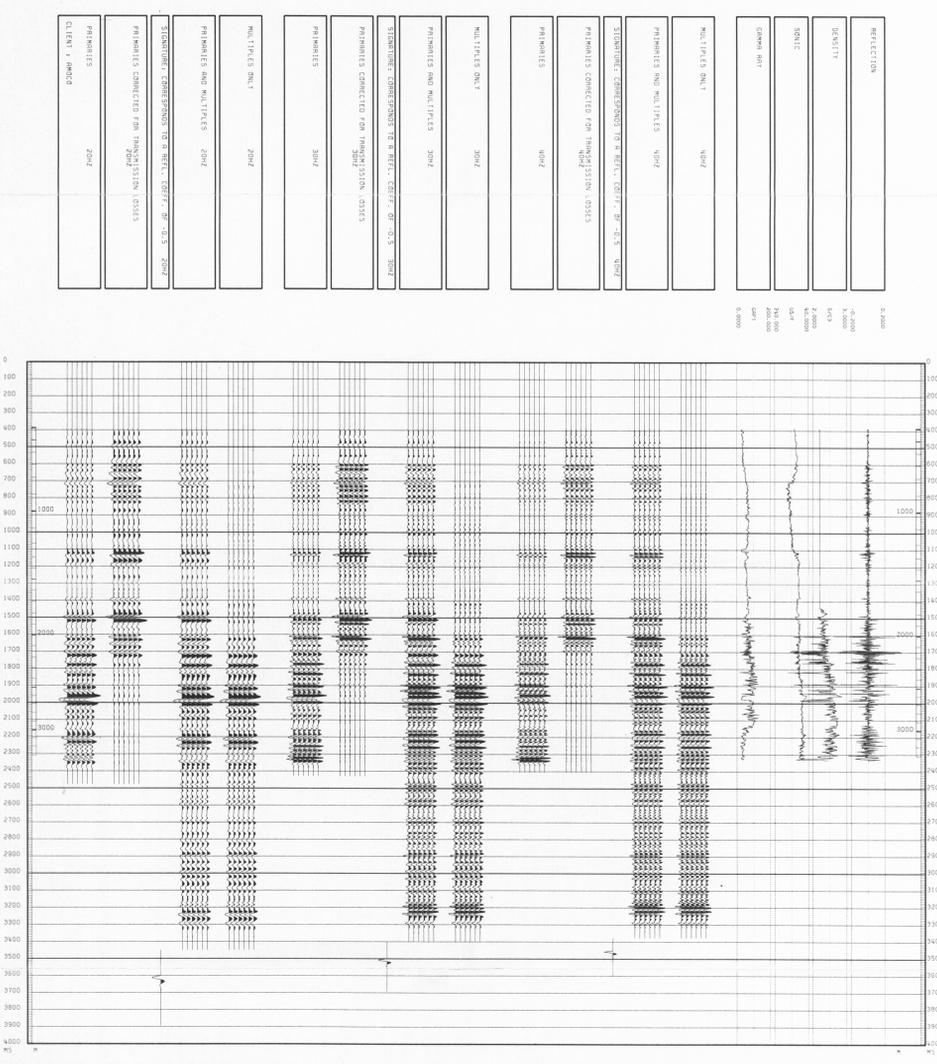
YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
 FIELD : WILDCAT  
 WELL : YOLLA #1

### GEOGRAM AFTER SONIC CALIBRATION RICKER WAVELETS MINIMUM PHASE REVERSE POLARITY

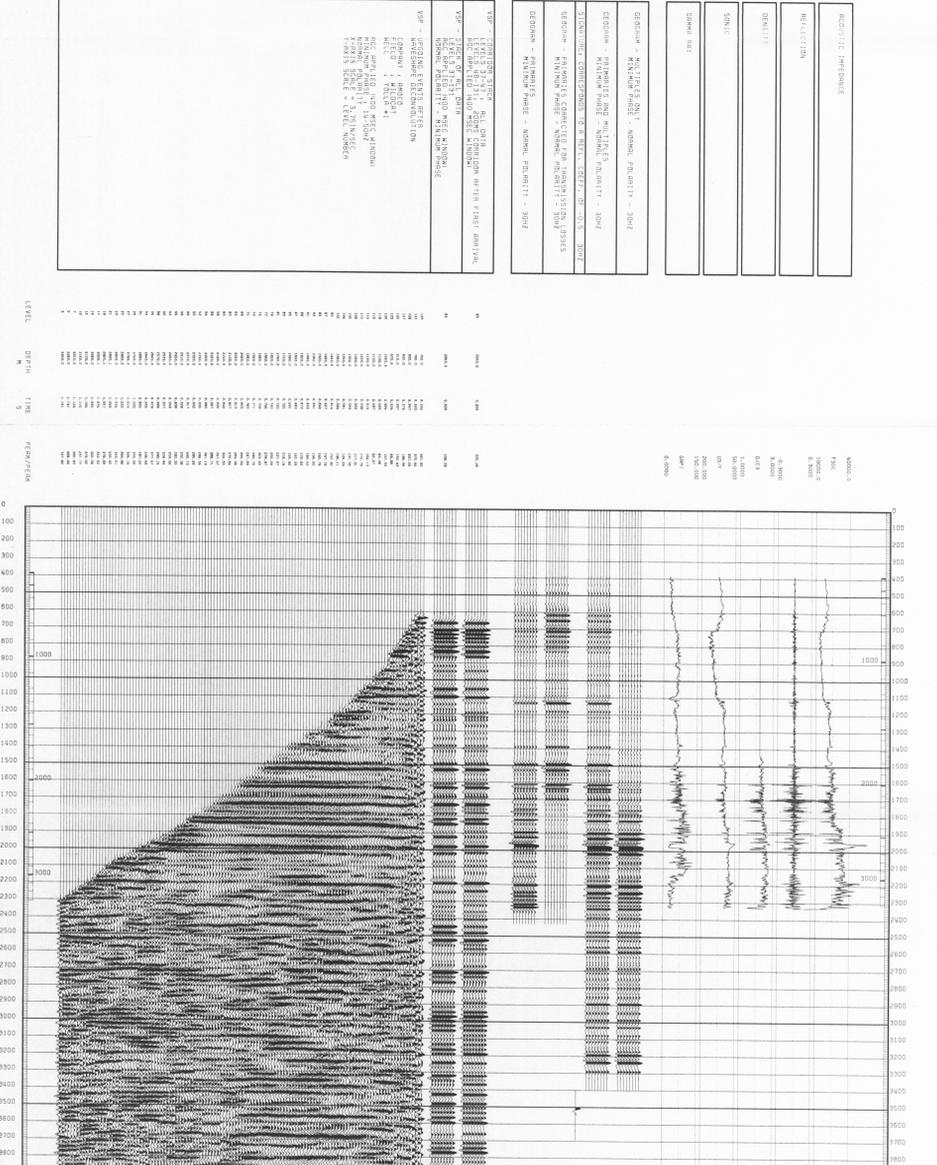
YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
 FIELD : WILDCAT  
 WELL : YOLLA #1

### COMPOSITE GEOGRAM - VERTICAL SEISMIC PROFILE NORMAL POLARITY MINIMUM PHASE

YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
 FIELD : WILDCAT  
 WELL : YOLLA #1

# GEOGRAM\*

## ZERO PHASE

(Synthetic Seismogram)

AMOCO AUSTRALIA PETROLEUM CO.  
YOLLA #1  
WILDCAT

Reference No: 540388  
Date Processed: 24/09/85  
Data Logged: 039 007 89 8 5  
Location: 48 48 21' E  
48 10 9' S  
Dip (M): 0.3 M  
Dip (D): 0.3 M  
Dip (S): 0.3 M  
Dip (E): 0.3 M  
Dip (N): 0.3 M

LOG INFORMATION  
ELEVATION ABOVE MEAN SEA LEVEL: 765 M  
LOGGING DEPTH: 2765 M  
SONIC CALIBRATION BY: 2765 M  
SONIC CALIBRATION BY: 2765 M  
SONIC CALIBRATION BY: 2765 M

| Time | Depth | Velocity | Time | Depth | Velocity |
|------|-------|----------|------|-------|----------|
| 1    | 00000 | 1.71     | 1    | 00000 | 1.71     |
| 2    | 00000 | 1.71     | 2    | 00000 | 1.71     |
| 3    | 00000 | 1.71     | 3    | 00000 | 1.71     |
| 4    | 00000 | 1.71     | 4    | 00000 | 1.71     |
| 5    | 00000 | 1.71     | 5    | 00000 | 1.71     |
| 6    | 00000 | 1.71     | 6    | 00000 | 1.71     |
| 7    | 00000 | 1.71     | 7    | 00000 | 1.71     |
| 8    | 00000 | 1.71     | 8    | 00000 | 1.71     |
| 9    | 00000 | 1.71     | 9    | 00000 | 1.71     |
| 10   | 00000 | 1.71     | 10   | 00000 | 1.71     |

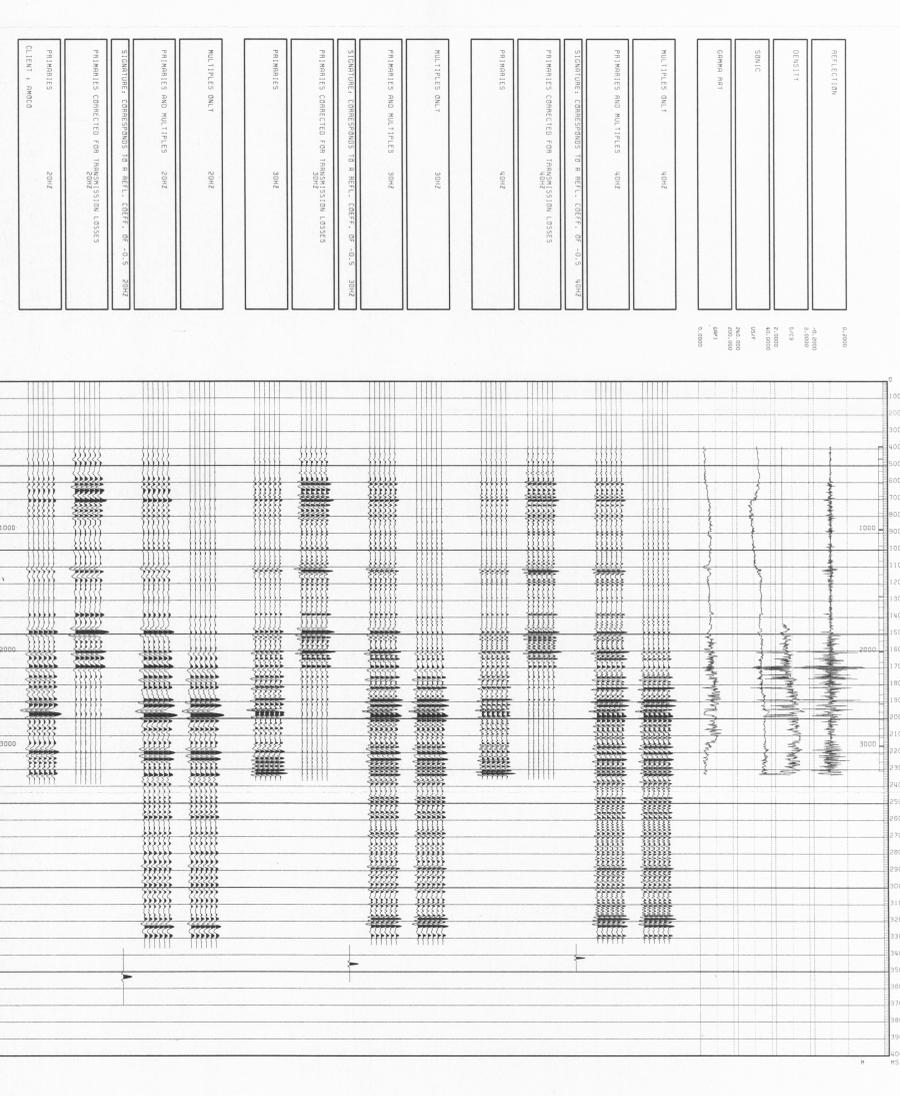
GEOPHYSICAL ASSOCIATIONS  
FLUIDITY  
No intrinsic waves at normal incidence.  
FLUIDITY  
No intrinsic waves at normal incidence.  
FLUIDITY  
No intrinsic waves at normal incidence.

Scale log interval 481 - 2851 meters below KB  
Time scale - 50 msec

CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
FIELD : WILDCAT  
WELL : YOLLA #1

### GEOGRAM AFTER SONIC CALIBRATION RICKER WAVELETS ZERO PHASE NORMAL POLARITY

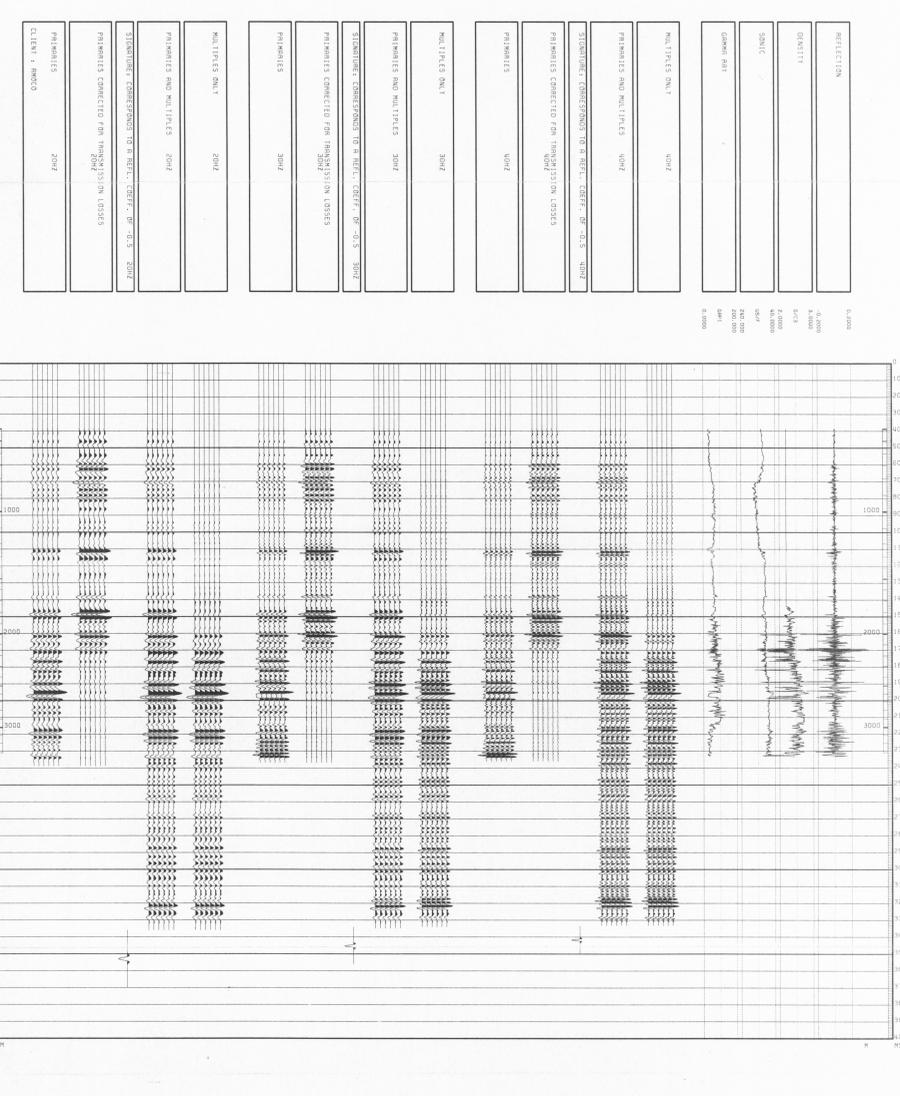
YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
FIELD : WILDCAT  
WELL : YOLLA #1

### GEOGRAM AFTER SONIC CALIBRATION RICKER WAVELETS ZERO PHASE REVERSE POLARITY

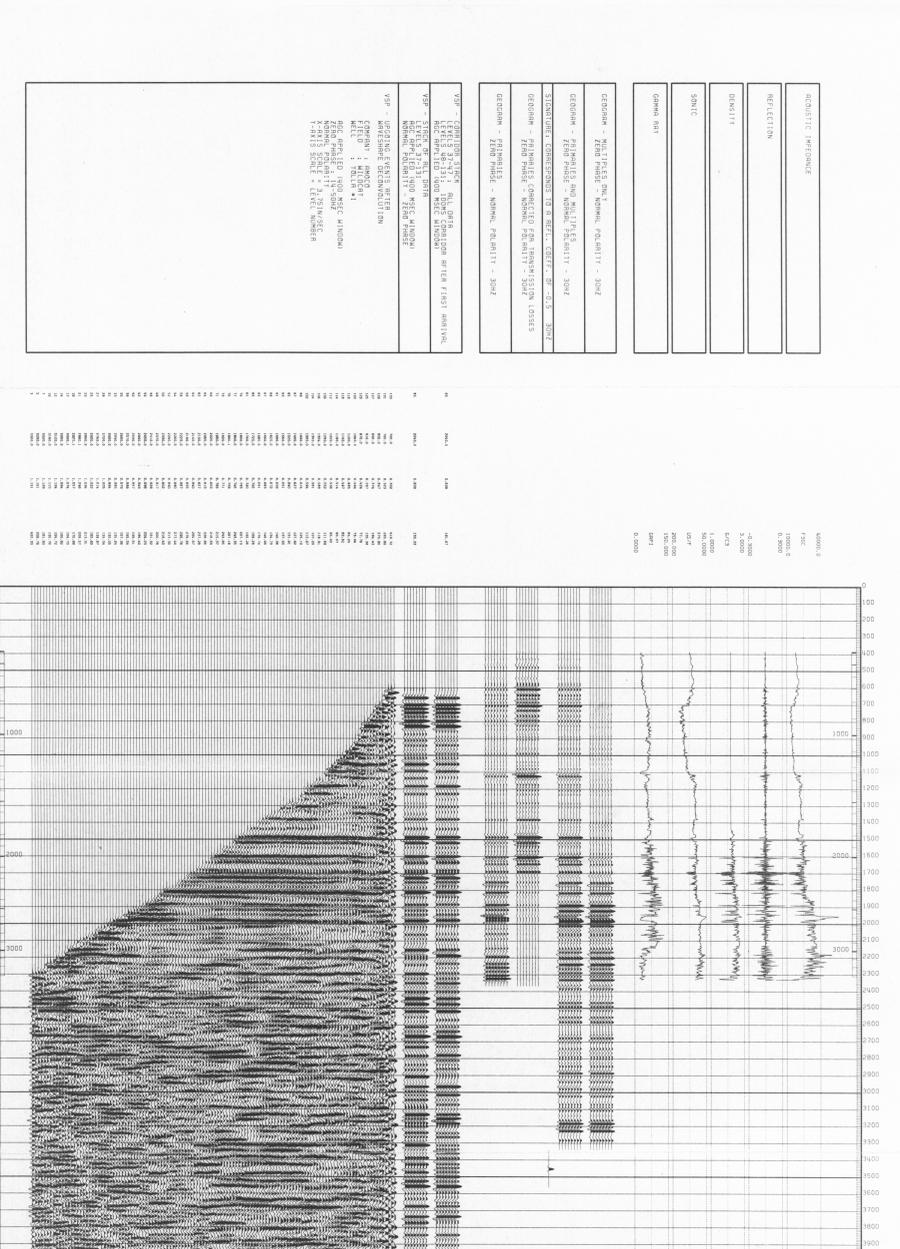
YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
FIELD : WILDCAT  
WELL : YOLLA #1

### COMPOSITE GEOGRAM - VERTICAL SEISMIC PROFILE NORMAL POLARITY ZERO PHASE

YOLLA #1



CLIENT : AMOCO AUSTRALIA PETROLEUM CO.  
FIELD : WILDCAT  
WELL : YOLLA #1  
COUNTRY : AUSTRALIA

