Schlumberger

ISF-BHC-MSFL-GR YOLLA#1 SUITE#2 1/200

CSU Field Log

Attachment 21

GR-0310

```
COMPANY:    AMOCO AUSTRALIA PETROLEUM CO.                    OTHER SERVICES-
                                                               LDL-CNL-GR
WELL:       YOLLA #1

FIELD:      WILDCAT
RIG  .:     R F BAUER
STATE@:     TASMANIA
NATION:     AUSTRALIA
LOCATION:   BASS STRAIT - OFFSHORE TASMANIA.

LATITUDE:   039 50 18.96 S
LONGITUDE:  145 48 21.2 E
                                                             PROGRAM
PERMANENT DATUM:        MSL         ELEVATIONS-              TAPE NO:
ELEV. OF PERM. DATUM:    0.0 M        KB:   10.9 M             28.15
LOG MEASURED FROM:      KB            DF:   10.3 M           SERVICE
    10.9 M    ABOVE PERM. DATUM       GL:  -79.5 M           ORDER NO:
DRLG. MEASURED FROM:    KB                                     RFB 5702

DATE:           19 JUL 85
RUN NO:         2

DEPTH-DRILLER:       1982.5 M
DEPTH-LOGGER:        1986.0 M
BTM. LOG INTERVAL:   1984.0 M
TOP LOG INTERVAL:    1755.0 M

CASING-DRILLER:        399.0 M      1752.0 M
CASING-LOGGER:                      1755.0 M
CASING:              20             13 3/8
   WEIGHT:           129.000 LB/F 72.0000 LB/F  0.0     LB/F
BIT SIZE:            26             17 1/2        12 1/4
   DEPTH:              399.0 M      1759.0 M      1982.5 M
```

```
TYPE FLUID IN HOLE:   WATER-GEL-POLYMER
DENSITY:               8.90 LB/G
VISCOSITY:            49.0 S
PH:                   11.0
FLUID LOSS:            6.0 C3
SOURCE OF SAMPLE:     FLOWLINE
RM:                     .682 OHMM AT 20.0 DEGC
RMF:                    .627 OHMM AT 17.0 DEGC
RMC:                    .980 OHMM AT 16.0 DEGC
SOURCE RMF/RMC:       PRESS /PRESS
RM AT BHT:              .303 OHMM AT 72.0 DEGC
RMF AT BHT:             .258 OHMM AT 72.0 DEGC
RMC AT BHT:             .394 OHMM AT 72.0 DEGC

TIME CIRC. STOPPED:   00:30 19/07
TIME LOGGER ON BTM.:  06:00 19/07

MAX. REC. TEMP:        72.0 DEGC

LOGGING UNIT NO:        65
LOGGING UNIT LOC:     SEA
RECORDED BY:          OLIVIER BOUBE
WITNESSED BY:         B WHEELER
```

```
REMARKS:

ALL CURVES RECORDED WITH ZERO FILTERING.
TOOL CENTRALIZED WITH 1.5" STAND-OFF.
150 M GR OVERLAY WITH RUN#1.
IHV : PIPS ON LEFT EDGE DEPTH TRACK = 10 CU.FT.
ITT : PIPS ON RIGHT EDGE DEPTH TRACK = 1 MS.
TENSION RECORDED IN TRACK 3.
THERMOMETERS READING : 71-72 DEG.C.
```

5 cm

```
EQUIPMENT NUMBERS-

NSM-A 2992       MRM-AB 3883      SLM-DA 1831      IEM-BE 1964
SRE-CB 866       DRS-B 858        SRA-A 885        SLC-KB 741
SLS-RD 2186      SGC-JC 3599      IRC-QB 1725      IRS-VA 812
```

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 INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

```
   CP 28.15          FILE  102       19-JUL-85 07:36
                     DATA ACQUIRED   19-JUL-85 06:52
```

```
   CP 28.15          FILE  102       19-JUL-85 08:20
                     DATA ACQUIRED   19-JUL-85 06:45


              AFTER SURVEY TOOL CHECK SUMMARY

  PERFORMED:     19-JUL-85 07:53
  PROGRAM FILE: ISN     (VERSION    28.15   85/01/03)

 IRTQ                      TOOL  CHECK

                    ZERO                      PLUS
            BEFORE       AFTER        BEFORE      AFTER     UNITS
   ILD        0.0          .0         496.5       494.5     MMHO
   SFL        0.0          .1         500.0       500.0     MMHO

 ILD SONDE ERROR CORRECTION :        1.8 MMHO


 SRTB                      TOOL  CHECK

                    ZERO                      PLUS
            BEFORE       AFTER        BEFORE      AFTER     UNITS
   CMSF       0.0          .1        1000.0       992.1     MMHO
    I1        0.0        -3.0         200.0      1013.0     MMHO

   CP 28.15            FILE  103       19-JUL-85 07:53
```

```
 EVENT MARK SUMMARY:

 OUTPUT   INTERVAL       DEPTH TRACK
          BETWEEN PIPS   EDGE

 IHV      10.0000 F3     LEFT EDGE
 ITT      .00100000 S     RIGHT EDGE
```

```
____GR  (GAPI)____                                  ......TENS(LB  )........
0.0          150.00                                 10000.               0.0

   CP 28.15          FILE  102       19-JUL-85 07:26
                     DATA ACQUIRED   19-JUL-85 06:52
```

```
   CP 28.15          FILE  102       19-JUL-85 07:04
                     DATA ACQUIRED   19-JUL-85 06:11

                                                      .......TENS(LB  )........
___BS  (IN  )______                                   10000.               0.0
10.000       20.000                                          DT   (US/F)
.....CALI(IN  )......                                 140.00            40.000
10.000       20.000                            MSFL(OHMM)
____GR  (GAPI)_____       .20000                                       2000.0
0.0          150.00       .............ILD (OHMM)........................
_____SP  (MV  )____       .20000                                       2000.0
-110.0       -10.00       _ _ _ _ _ _ _ _SFLU(OHMM)_ _ _ _ _ _ _ _ _ _ _ _
                          .20000                                       2000.0
```

```
              SENSOR MEASURE POINT TO TOOL ZERO

     SRAT 16.18 METER                     AMPL 16.94 METER
     TT1  16.63 METER                     CBL  16.94 METER
     TT3  15.80 METER                     TT2  16.94 METER
     T0   16.94 METER                     TT4  15.49 METER
     SLTT 16.94 METER                     TT   16.94 METER
     GR   14.15 METER                     SCBL 16.94 METER
     ILD   7.21 METER                     CALI   .89 METER
     SP    5.23 METER                     SFL   7.06 METER
     TENS   .10 METER                     SPAR  5.23 METER
     CMSF   .78 METER                     I1     .86 METER
     NOIS   .10 METER
```

```
                         PARAMETERS

   NAME  VALUE        UNIT               NAME  VALUE        UNIT

   CDTS 100.000                          SPFS R-H
   DTF  189.000       US/F               DTM  56.0000       US/F
   DSIN 5             US                 DDEL 200           US
   WMUD 8.90000       LB/G               DWCO 512
   SBR  1.00000       OHMM               DSEC 1.80000       MMHO
   BHS  OPEN                             SPT  STAN
   DO   0.0           M                  BS   12.2500       IN
   PP   NORM

                       TAPE NOT MADE
```

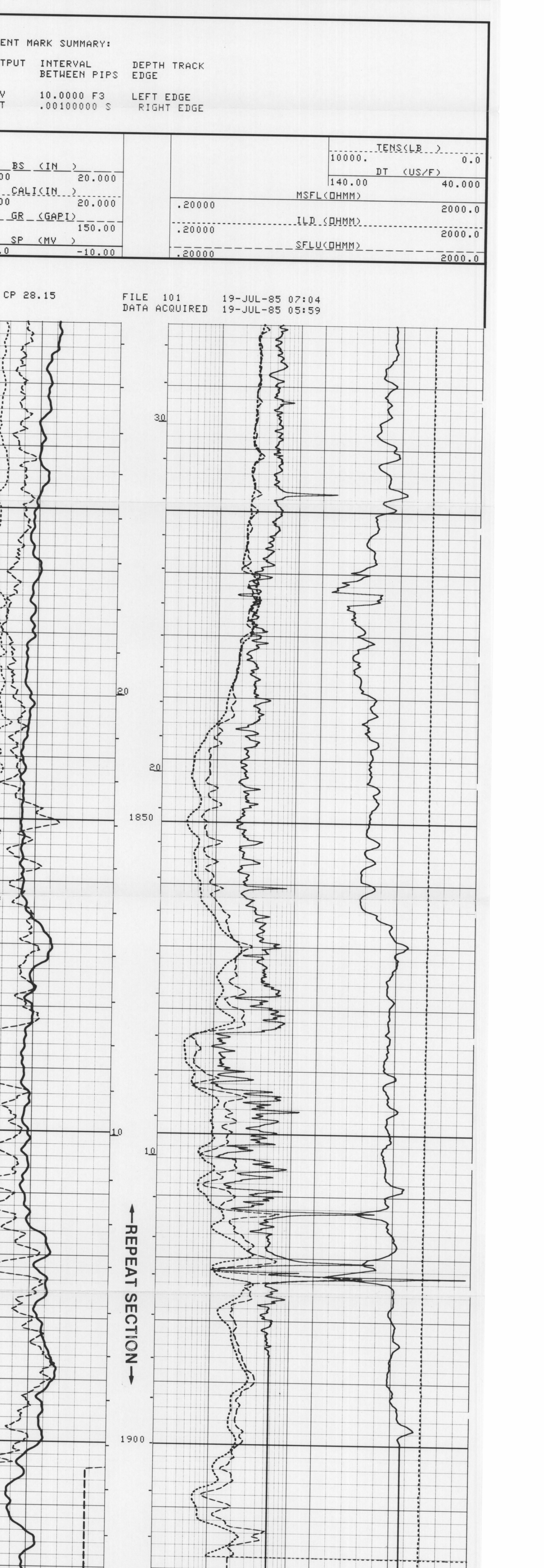
```
 EVENT MARK SUMMARY:

 OUTPUT   INTERVAL       DEPTH TRACK
          BETWEEN PIPS   EDGE

 IHV      10.0000 F3     LEFT EDGE
 ITT      .00100000 S     RIGHT EDGE
```

```
                                                      .......TENS(LB  )........
___BS  (IN  )______                                   10000.               0.0
10.000       20.000                                          DT   (US/F)
.....CALI(IN  )......                                 140.00            40.000
10.000       20.000                            MSFL(OHMM)
____GR  (GAPI)_____       .20000                                       2000.0
0.0          150.00       .............ILD (OHMM)........................
_____SP  (MV  )____       .20000                                       2000.0
-110.0       -10.00       _ _ _ _ _ _ _ _SFLU(OHMM)_ _ _ _ _ _ _ _ _ _ _ _
                          .20000                                       2000.0

   CP 28.15          FILE  101       19-JUL-85 07:04
                     DATA ACQUIRED   19-JUL-85 05:59
```



```
   CP 28.15          FILE  101       19-JUL-85 07:03
                     DATA ACQUIRED   19-JUL-85 05:48

                                                      .......TENS(LB  )........
___BS  (IN  )______                                   10000.               0.0
10.000       20.000                                          DT   (US/F)
.....CALI(IN  )......                                 140.00            40.000
10.000       20.000                            MSFL(OHMM)
____GR  (GAPI)_____       .20000                                       2000.0
0.0          150.00       .............ILD (OHMM)........................
_____SP  (MV  )____       .20000                                       2000.0
-110.0       -10.00       _ _ _ _ _ _ _ _SFLU(OHMM)_ _ _ _ _ _ _ _ _ _ _ _
                          .20000                                       2000.0
```

```
              SENSOR MEASURE POINT TO TOOL ZERO

     SRAT 16.18 METER                     AMPL 16.94 METER
     TT1  16.63 METER                     CBL  16.94 METER
     TT3  15.80 METER                     TT2  16.94 METER
     T0   16.94 METER                     TT4  15.49 METER
     SLTT 16.94 METER                     TT   16.94 METER
     GR   14.15 METER                     SCBL 16.94 METER
     ILD   7.21 METER                     CALI   .89 METER
     SP    5.23 METER                     SFL   7.06 METER
     TENS   .10 METER                     SPAR  5.23 METER
     CMSF   .78 METER                     I1     .86 METER
     NOIS   .10 METER
```

```
                         PARAMETERS

   NAME  VALUE        UNIT               NAME  VALUE        UNIT

   CDTS 100.000                          SPFS R-H
   DTF  189.000       US/F               DTM  56.0000       US/F
   DSIN 5             US                 DDEL 200           US
   WMUD 8.90000       LB/G               DWCO 512
   SBR  1.00000       OHMM               DSEC 1.80000       MMHO
   BHS  OPEN                             SPT  STAN
   DO   0.0           M                  BS   12.2500       IN
   PP   NORM

                       TAPE NOT MADE
```

```
              BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:     19-JUL-85 07:28
  PROGRAM FILE: ISN     (VERSION    28.15   85/01/03)

 IRTQ             ELECTRONICS CALIBRATION SUMMARY

            MEASURED                     CALIBRATED
          ZERO     PLUS               ZERO       PLUS         UNITS
   ILD   -1.99    510.5               0.0        496.5         MMHO
   SFL     .04    538.5               0.0        500.0         MMHO

 ILD SONDE ERROR CORRECTION :        1.8 MMHO


 SRTB             ELECTRONICS CALIBRATION SUMMARY

            MEASURED                     CALIBRATED
          ZERO     PLUS               ZERO       PLUS         UNITS
   CMSF    -.2    951.0               0.0       1000.0        MMHO
    I1    -8.0      2.8               0.0        200.0        MMHO

 SGTE             DETECTOR CALIBRATION SUMMARY

            MEASURED
          BKGD     JIG          CALIBRATED          UNITS
   GR      5       150             165              GAPI

 SRTB             CALIPER CALIBRATION SUMMARY

            MEASURED                     CALIBRATED
          SMALL    LARGE              SMALL      LARGE        UNITS
   CALI   4.05      6.1               8.00       12.0          IN
  CP 28.15          FILE   10       19-JUL-85 07:27

              SHOP SUMMARY

  PERFORMED:     18-JUL-85 17:15
  PROGRAM FILE: SHOP    (VERSION    28.15   85/01/03)

 IRTQ             ELECTRONICS CALIBRATION SUMMARY

            TEST LOOP CALIBRATION               TOOL CHECK
         MEASURED          CALIBRATED            CALIBRATED
        ZERO     PLUS      ZERO      PLUS      ZERO      PLUS    UNITS
   ILD  -3.2     518.9     0.0       500.0     0.0       496.5   MMHO
 ILD  SONDE ERROR CORRECTION :      1.8 MMHO

                  (IS:812 , IC:1725)
```

5 cm