



Geomex Surveys

R7/86

446001

AMOCO AUSTRALIA PETROLEUM COMPANY

REPORT

ON

SITE INVESTIGATION SURVEY

ON

LOCATION

'PELICAN NO. 5'

IN

BLOCK T-22P

BASS STRAIT

AUSTRALIA

Date: December 1985

Report No. K108/85/AM

OR.357

TABLE OF CONTENTS

| <u>ITEM</u> | <u>DESCRIPTION</u> | <u>PAGE NO.</u> |
|-------------|--|-----------------|
| 1 | INTRODUCTION | 1 |
| 2 | PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT | |
| | 2.1 Personnel | 2 |
| | 2.2 Equipment | 3 |
| | 2.3 Logistics Support | 6 |
| 3 | CHRONOLOGICAL RECORD OF EVENTS | 7 |
| 4 | SURVEY METHODS AND PROCEDURES | |
| | 4.1 ARGO Positioning System and Calibration | 10 |
| | 4.2 Base Station Data | 13 |
| | 4.3 Satellite Acoustic Positioning System | 16 |
| | 4.4 Navigation Tracking System | 22 |
| | 4.5 Analogue Systems | |
| | 4.5.1 Echo Sounding | 26 |
| | 4.5.2 Side-Scan Sonar | 29 |
| | 4.5.3 Seismic Reflection Profiling | 31 |
| | 4.6 Digital Systems | |
| | 4.6.1 Energy Source | 34 |
| | 4.6.2 DFSV Recording System | 34 |
| | 4.6.3 Streamer | 35 |
| | 4.6.4 Control and Monitoring | 36 |
| 5 | RESULTS | |
| | 5.1 Navigation | 38 |
| | 5.2 Bathymetry | 39 |
| | 5.3 Side-Scan Sonar | 39 |
| | 5.4 Seismic Reflection Profiling | 43 |
| | 5.5 Digital Seismic | 46 |
| 6 | CONCLUSIONS | 50 |

LIST OF APPENDICES

| <u>APPENDIX NO.</u> | <u>TITLE</u> |
|---------------------|----------------------|
| 1 | ACOUSTIC CALIBRATION |
| 2 | STATION DESCRIPTIONS |

LIST OF FIGURES

| <u>FIGURE NO.</u> | <u>DESCRIPTION</u> | <u>PAGE NO.</u> |
|-------------------|---|-----------------|
| 1 | GENERAL LOCATION MAP | Frontispiece |
| 2 | CONFIGURATION OF EQUIPMENT ONBOARD 'R/V SPRIGHTLY' | 15 |
| 3 | ANALOGUE SURVEY LINE LAYOUT | 24 |
| 4 | DIGITAL SURVEY LINE LAYOUT | 25 |
| 5 | TIDAL CURVES | 28 |
| 6 | ECHO SOUNDER RECORD THROUGH LOCATION | 40 |
| 7 | SIDE-SCAN SONAR RECORD THROUGH LOCATION | 42 |
| 8 | BOOMER RECORD THROUGH LOCATION | 45 |

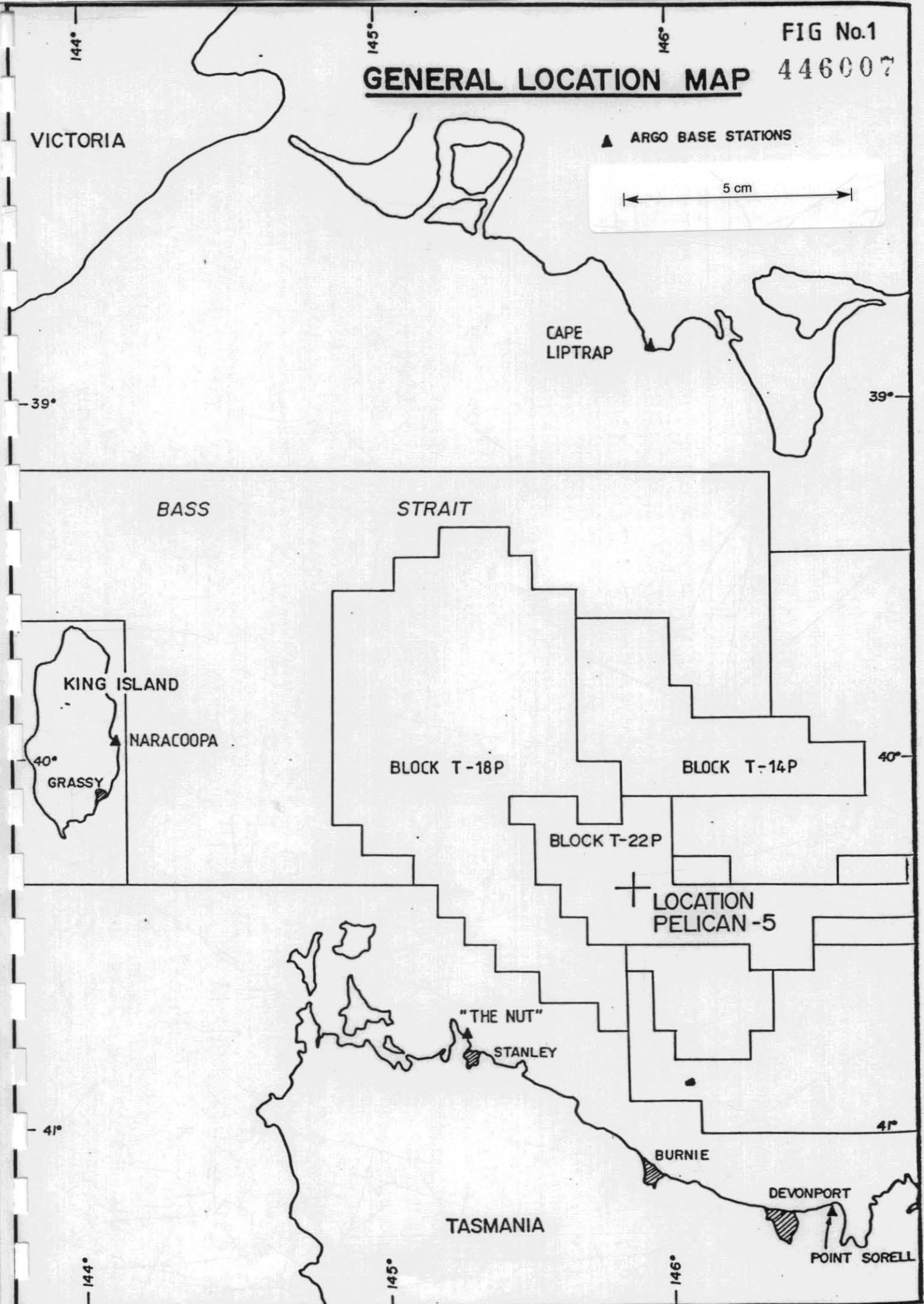
LIST OF MAPS

| | | | |
|----|--------------------------------|-------|-----------|
| 1. | ANALOGUE TRACKPLOT | | 1:10,000 |
| 2. | DIGITAL TRACKPLOT | | 1:10,000 |
| 3. | BATHYMETRIC PLAN | | 1:10,000 |
| 4. | SEABED FEATURES PLAN | | 1:10,000 |
| 5. | ANALOGUE SEISMIC SECTIONS | Horiz | 1:10,000 |
| | | Vert | 1:1,000 |
| 6. | FAULT TRACT PLAN | | 1:10,000 |
| 7. | SPARKER SURVEY | | 15 NOV 85 |
| 8. | SPARKER SURVEY | | 16 NOV 85 |
| 9. | SITE SURVEY PROGRAM (PROPOSED) | | |

LIST OF ENCLOSURES

- A. WATER ANALYSIS REPORT
- B. CORE ANALYSIS REPORT
- C. VITRINITE REFLECTANCE & ORGANIC PETROLOGY
- D. THIN SECTION PETROGRAPHY, SEM & XRD ANALYSES OF SIDEALL CORE
SAMPLES
- E. RESERVOIR FLUID STUDY
- F. WELL TEST REPORT

GENERAL LOCATION MAP



▲ ARGO BASE STATIONS

5 cm

VICTORIA

CAPE
LIPTRAP

BASS STRAIT

KING ISLAND

NARACOOPA

BLOCK T-18P

BLOCK T-14P

BLOCK T-22P

LOCATION
PELICAN-5

"THE NUT"

STANLEY

BURNIE

DEVONPORT

POINT SORELL

TASMANIA

1. INTRODUCTION

GEOMEX SURVEYS (AUSTRALIA) PTY. LTD. was contracted by AMOCO AUSTRALIA PETROLEUM COMPANY to carry out a site investigation survey around the 'Pelican No. 5" location, in permit area T-22P in the Bass Strait, Australia. The area surveyed comprised a 4 kilometre square site centred on the proposed well co-ordinates, supplied as follows:

Latitude: $40^{\circ} 20' 43.58''$ south

Longitude: $145^{\circ} 51' 49.21''$ east

The vessel 'R/V Sprightly' was used for the survey. All the necessary Geophysical survey equipment was fitted onboard prior to the vessels arrival in Devonport when the Argo navigation system was installed.

The entire survey was conducted during the period November 10th to November 21st 1985. The following work was performed:

- (a) Recovery of acoustic transponder array near Yolla No. 1 location.
- (b) Digital Seismic Survey around Pelican No. 5 location.
- (c) Analogue Seismic, Bathymetric, Drop-Coring and Side-Scan Sonar Surveys around Pelican No. 5 location.
- (d) Digital Seismic Survey (8 lines) around Koorkah No. 1 location.
- (3) Deployment of an acoustic (transponder) array around Pelican No. 5 location.

The navigation system employed for these surveys was ARGO with the shore stations set up on the Tasmanian and Victorian coasts.

2. PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT

2.1 Personnel

The following personnel were engaged on this project.

- S. Dykes : Party Chief/Hydrographic Surveyor
- M. Monk : Acoustics Technician/Surveyor
- M. Gale : Hydrographic Surveyor
- A. Lane : Geophysicist
- K. Bryant : Digital Systems Engineer
- J. Smith : Digital Systems Engineer
- M. Strawhorn : Analogue Systems Engineer
- C. McCarthy : Analogue Systems Engineer
- W. Gray : Base Station Operator (King Island)
- B. Hassett : Base Station Operator (Cape Liptrap)
- T. Moore : Base Station Operator (North Point)
- R. Harris : Base Station Operator (Point Sorell)
- J. Cram : Logistics Supervisor
- J. McGowan : Client Representative

2. PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT (Cont'd)

2.2 Equipment

The following equipment was used on this project.

Argo Positioning System comprising:

- Mobile - Two - Range Processing Units
- Two - Control and Display Units
- Two - Antenna Loading Units
- One - Shakespeare Antenna
- Two - Sets of Cables and Antennae
- One - S.S.B. Radio
- Two - HP 9826 Computers
- Two - Scope III Interfacing Units
- Two - HP 2671G Printers
- Beacons - Five - Range Processing Units
- Five - Antenna Loading Units
- Five - Antennae
- Five - S.S.B. Radio's
- Five - Sets of Cables and Connectors
- Tower sections, Generators, etc.

Acoustic Positioning System comprising:

- Two - HP 9836 Computers
- One - HP 2671G Printer
- One - Oceano RM201 Range meter plus back-up
- One - Oceano TT101 Telecommand Module plus back-up
- One - Oceano IM100 Interface Module plus back-up
- One - Oceano PS100 Power supply plus back-up
- One - Oceano Spares Kit
- One - AM121 Acoustic Module and dunking cable
- One - AM121 Acoustic Module, housed in a streamlined towfish
- One - hand winch with towfish cable
- Six - Oceano Acoustic transponders
- Deck cables, velocimeter, etc.

2. PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT (Cont'd)

2.2 Equipment (Cont'd)

Satellite Positioning System comprising:

- One - Magnavox MX 1107 Satellite Receiver
- One - Marine Antenna
- Spares Kit, Cables, etc.

Atlas Deso 20 Echo Sounder System comprising:

- One - Straight Line Recording unit, plus back-up
- One - Echo Sounder Transducer, plus back-up
- Spares Kit, Cables, etc.

EG&G Side-Scan Sonar System comprising:

- One - EG&G 259-4 Side-Scan Sonar recorder, plus back-up
- One - EG&G 272 Towfish, plus back-up
- One - Side-Scan Sonar cable of 500m length
- one - Side-Scan Sonar winch
- Power supply, spares, etc.

Analogue Seismic System comprising:

- One - Multi-electrode sparker, plus back-up
- One - EG&G 230 Uniboom
- One - EG&G 231 trigger/capacitor bank
- One - EPC 4600 graphic recorder, plus back-up
- One - EG&G 265 hydrophone streamer, plus back-up
- One - Krohn-hite Filter
- One - T.V.G. amplifier
- One - Swell Filter
- transformers, power supplies, Oscilloscope, etc.

2. PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT (Cont'd)

2.2 Equipment (Cont'd)

Coring System comprising:

- One - Drop corer
- Five - Cutting heads
 - Plastic piping, cables, etc.

Digital Seismic System comprising:

- One - SIE RGB Oscillograph
- One - Analogue Module
- One - Controller Module
- One - 10" Tape transporter, plus back-up
- One - Timer Control Unit
- Two - Lambda Power supplies
 - DFSV Spares kit
- One - Teledyne streamer plus spare sections
- Four - EG&G 233 capacitors
- One - EG&G 231 trigger/capacitor bank
- One - EG&G 232 power supply
 - EG&G spares kit
- One - Winch
- One - 24kj Sparker Array
 - Power supplies, generator
 - Cables, spares, etc.

2. PERSONNEL, EQUIPMENT AND LOGISTICS SUPPORT (Cont'd)

2.3 Logistics Support

The vessel 'R/V Sprightly', operating out of Devonport in Tasmania, was used as the survey and accommodation vessel for the work.

The GEOMEX Survey's representative in Devonport and the Base Station operators provided on-shore logistics support with the overall project co-ordination and back-up support being provided by the GEOMEX base in Perth.

3. CHRONOLOGICAL ORDER OF EVENTSSunday 10th November 1985

07.30 R.V. Sprightly Departs Melbourne for Devonport
S. Dykes and J. Smith on board
M. Monk, M. Gale, C. McCarthy, M. Strawhorn
fly to devonport

Monday 11th November 1985

04.00 Vessel arrives offshore Devonport. Awaits pilot.
07.30 Alongside wharf at Devonport
08.00-20.00 Install ARGO and acoustic systems onto vessel
15.00 K. Bryant arrives
18.00 A. Lane arrives

Tuesday 12th November 1985

00.01-07.00 Steaming to rig "Diamond M. Epoch"
07.00-08.00 Awaiting permission to go inside anchor pattern
in order to check ARGO
08.00-09.00 Check ARGO by transit fixes around rig
09.00-10.17 Proceed to YOLLA site to recover transponders
10.30-14.45 Recover six transponders from YOLLA
14.45-24.00 Proceed to KOORKAH site. Repair and ballast
digital streamer en-route

Wednesday 13th November 1985

00.01-00.45 Continue work on streamer
00.45 Cease work due to strong winds/rough seas
All 24 channels of streamer working
10.00 Commence calibration of D.I. sections and
ballasting streamer
17.45 Test run on Line 3
18.45 Commence KOORKAH-1 digital survey
23.30 Complete SW-NE lines of survey and commence
NW-SE lines

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3. CHRONOLOGICAL ORDER OF EVENTS (Cont'd)Thursday 14th November 1985

00.01-07.40 Continue digital survey on KOORKAH-1
 07.40 Recover streamer and proceed to Devonport
 18.50 Alongside quay at Devonport. Seismic data
 taken ashore to be hand-carried to Melbourne
 on first available flight.
 18.50-24.00 Standby in Devonport due to weather

Friday 15th November 1985

00.01-09.30 Standby on weather in Devonport
 09.30-14.00 Depart Devonport. Steam to PELICAN location
 14.00-16.00 Calibrate D.I. sections and deploy streamer
 17.40 Commence digital survey
 24.00 Lines 1D to 8D surveyed

Saturday 16th November 1985

00.20-04.00 Too much interference from "Eugene McDermott"
 Wait for them to complete line
 04.10-08.40 Shoot lines 9D, 10D, 15D, 20D and 25D
 08.40-11.40 Standby for interference from "Eugene McDermott"
 11.40-24.00 Continue digital survey. ("Eugene McDermott now
 finished)
 12.30 Dropped buoy near PELICAN-5, to be used as
 ARGO lane check
 19.00 Switch ARGO from slave to master

Sunday 17th November 1985

00.01-13.15 Continue with digital survey
 13.15-15.15 Repair trigger bank
 15.15-19.30 Continue survey
 19.30 Wind 30 knots - too much noise. Recover
 streamer and sparker and await weather
 moderation

3. CHRONOLOGICAL ORDER OF EVENTS (Cont'd)Monday 18th November 1985

00.01-07.30 Weather standby
07.30 Deploy streamer
08.00-24.00 Recommence digital survey

Tuesday 19th November 1985

00.01-05.00 Complete digital survey
05.00-09.20 Recover streamer and sparker. Carry out
temperature/salinity dip. Deploy side-scan
sonar and boomer
09.20-24.00 Commence analogue survey of PELICAN-5

Wednesday 20th November 1985

00.01-04.00 Complete analogue survey. Steam to Devonport
10.30 Alongside at Devonport. A. Lane departs
vessel. Transponder weights and corer heads
taken on-board
13.30 "Sprightly" departs Devonport
18.30 Vessel arrives at PELICAN-5. Sea too rough
to deploy transponder
18.30-24.00 Waiting on weather

Thursday 21st November 1985

00.01-02.00 Waiting on weather
03.00-06.00 Proceed to location
06.05 Check ARGO against buoy
08.30-09.55 Deploy transponders
10.00-14.30 Carry out relative calibration of transponders
14.30-15.45 Commence absolute calibration and carry out
drop coring
16.50 Complete absolute calibration
17.00 Recover ARGO check buoy and proceed to
Devonport
22.30 Alongside at Devonport

4. SURVEY METHODS AND PROCEDURES

4.1 ARGO Positioning System and Calibration

4.1.1 Mode of Operation

ARGO DM-54 is a long range radio positioning system operating between the frequencies of 1600 and 2000 KHz. The system determines the range (in lanes) of the mobile station from each of the coordinated base stations by measurement of fractional lane distances and accumulation of whole lane counts. The fractional lane distances are determined by measuring the phase difference between RF signals transmitted by the mobile station and received from the base station. The mobile station initiates the basic ranging process by transmitting a pulse of RF energy (Interrogation Burst). The fixed stations receive this signal, correct the phase to that of the original transmission, and, in sequence broadcast pulse of RF energy (Reply Burst). These pulses are received by the mobile station, and the phases of these signals are compared to the phase of that originally broadcast. This phase difference (delay) is used in the computations to determine the whole lane count. A weighted average of fractional values is used to determine when a whole lane value should be changed.

The ground wave component of the high frequency (HF) transmission utilized by the ARGO System enables measurement beyond the optical horizon. Operational ranges up to 400nm can be expected during daytime hours. Maximum usable range decreases during night

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.1 ARGO Positioning System and Calibration (Cont'd)

4.1.1 Mode of Operation (Cont'd)

time hours due primarily to changing atmospheric conditions and increased skywave interference to the ground wave signals. Range accuracy is quoted by the manufacturer at 0.05 lanes, achievable field accuracy. The lane width typically varies from 75 to 94 m. depending on frequencies used and propagation velocity. For this survey it was 88.0347 m.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.1 ARGO Positioning System and Calibration (Cont'd)

4.1.2 Calibration

The ARGO system which was installed on the survey vessel 'R/V Sprightly', was calibrated against a previously established Syledis chain in the area.

With a velocity of propagation of 299670 km/sec, and an operating frequency of 1.702 MHz, a lane width of 88.0347 metres was calculated and the following partial lane counts were observed.

| | |
|--------------|-----------|
| Point Sorell | 0.75 lane |
| North Point | 0.69 lane |
| Naracoopa | 0.41 lane |
| Cape Liptrap | 0.49 lane |

The calibration of the ARGO was checked on the 12th November 1985 by checking the position of the rig 'Diamond M. Epoch'.

4. SURVEY METHODS AND PROCEDURES (Cont'd)4.2 Base Station Data

The four shore/base stations were located at the following surveyed locations:

(a) Point Sorell

Latitude : 41^o 07' 23.63" South
 Longitude : 146^o 31' 42.35" East
 Easting : 460 414 m
 Northing : 5 447 440 m
 Height : 30 m

(b) North Point

Latitude : 40^o 42' 52.15" South
 Longitude : 145^o 15' 30.28" East
 Easting : 352 895.49 m
 Northing : 5 491 462.76 m
 Height : 5 m

(c) Naracoopa

Latitude : 39^o 55' 29.05" South
 Longitude : 144^o 07' 39.04" East
 Easting : 254 517 m
 Northing : 5 576 630 m
 Height : 56 m

(d) Cape Liptrap

Latitude : 38^o 53' 35.54" South
 Longitude : 145^o 56' 53.90" East
 Easting : 408 781.82 m
 Northing : 5 694 533.67 m
 Height : 114 m

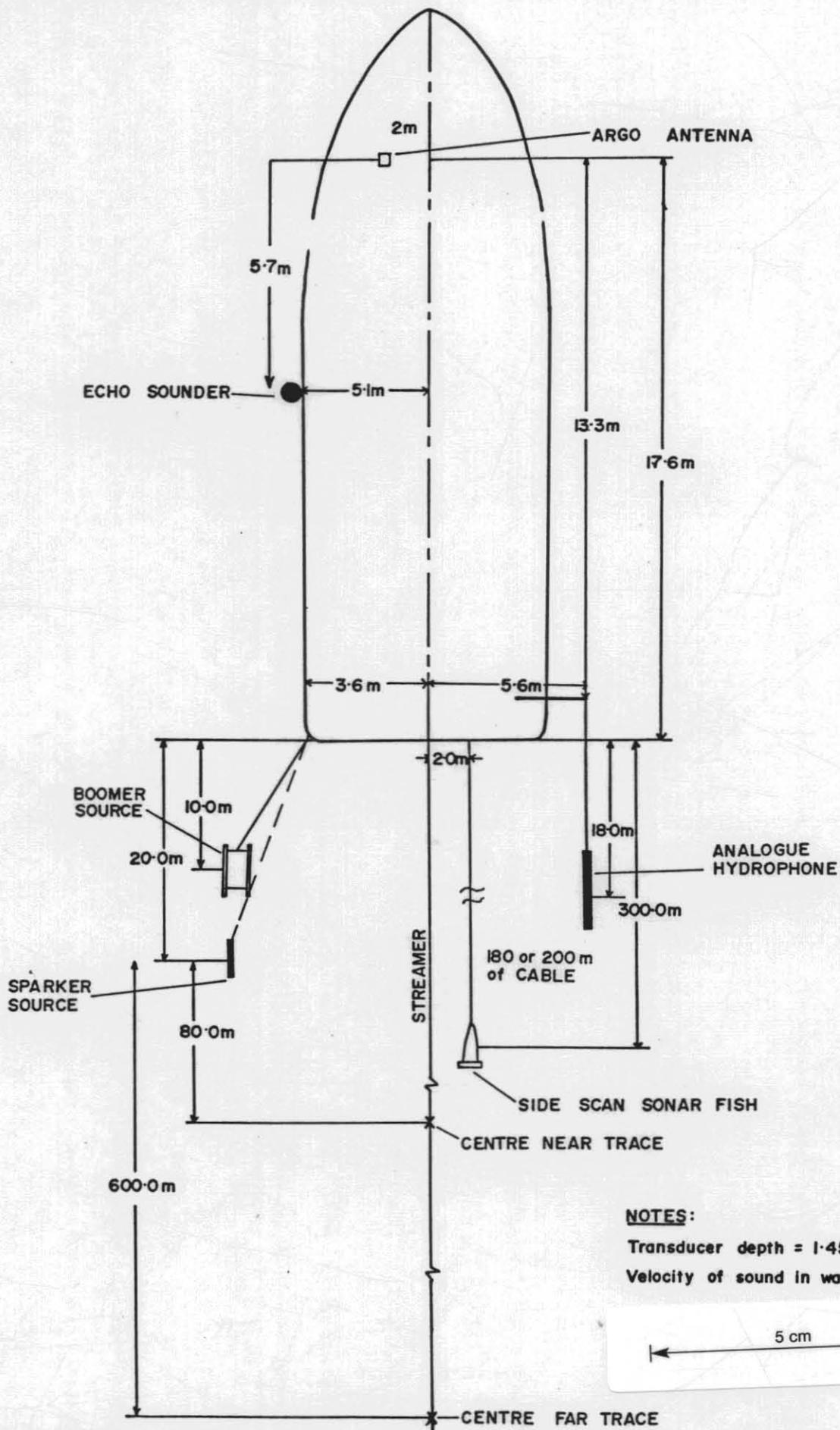
4. SURVEY METHOD AND PROCEDURES (Cont'd)

4.2 Base Station Data (Cont'd)

Note: All co-ordinates refer to:

| | |
|-----------------|---|
| Spheroid | : Australian National |
| Datum | : Australian Geodetic |
| Projection | : U.T.M. (Zone 55) |
| Central Meridan | : 147 ^o East |
| Heights | : In metres on the Australian Height Datum |

CONFIGURATION OF EQUIPMENT ON BOARD R.V. SPRIGHTLY



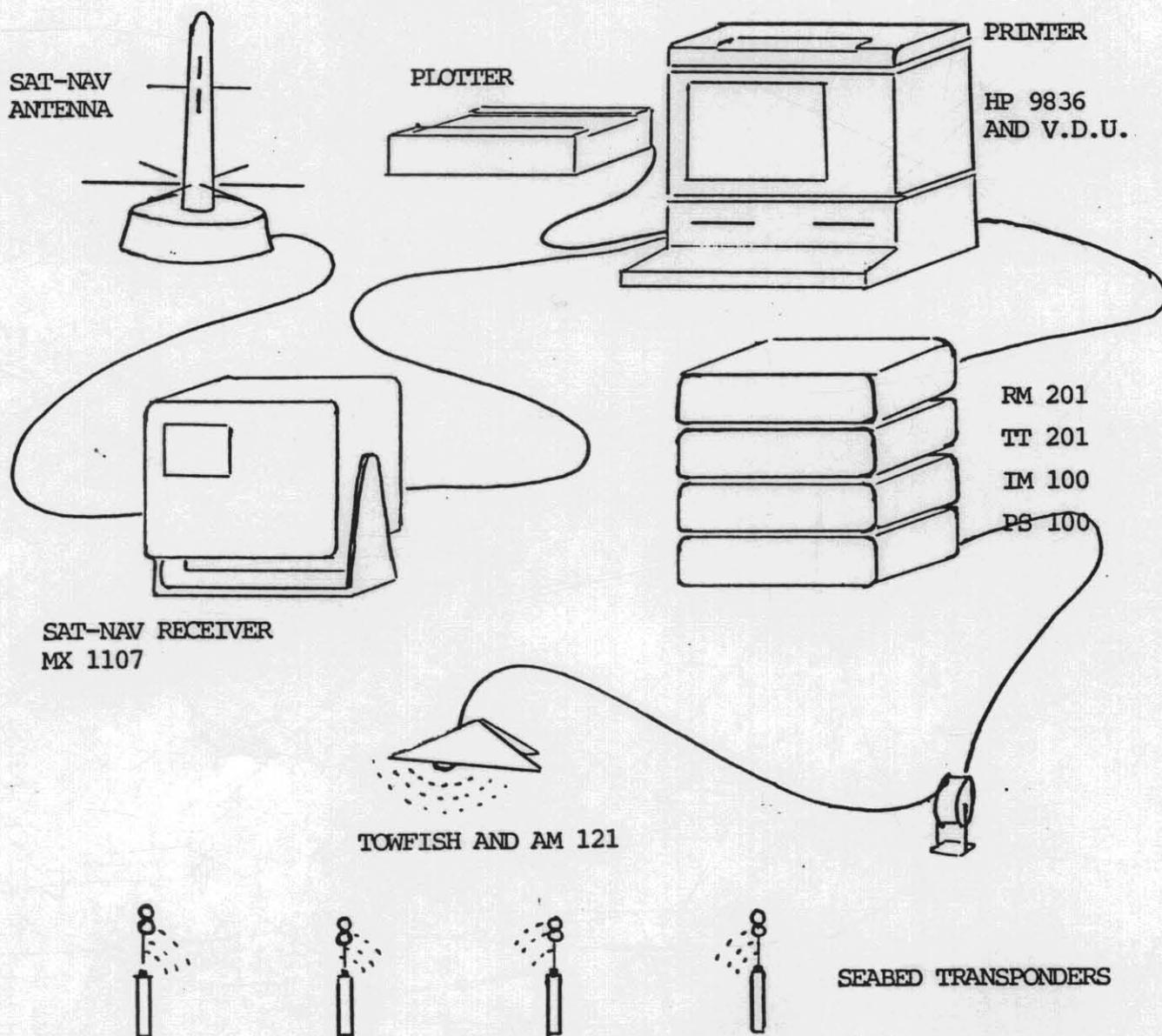
4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System

4.3.1 Mode of Operation

The integrated satellite-acoustic positioning system employed on this project is manufactured by "OCEANO INSTRUMENTS" and comprises a low frequency long baseline acoustic system linked to a "MAGNAVOX" transit-satellite receiver, and integrated through a "HEWLETT PACKARD" desktop computer with V.D.U. displays for navigation.

The configuration of equipment is illustrated below:-



4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System (Cont'd)

4.3.1 Mode of Operation (Cont'd)

The acoustic system itself is made up of four (4) basic onboard units, a range meter, a telecommand unit, an interface module and a dedicated 24V D.C. power supply which controls the type and coding of interrogation signals emitted from an acoustic module mounted in a streamlined towfish and suspended over-the-side of the survey vessel. The transponder units laid in an array on the seabed receive the common interrogation frequency and reply on their own individual frequencies. These are received by the acoustic module and are passed back to the onboard units where the time between signal transmission and reception is recorded, and processed to display the range in metres to each transponder.

The satellite navigation receiver is a MX1107 R.S. dual-channel survey receiver and with its marine antenna is a stand-alone system. The reason for its choice is its dead-reckoning facility through the entering of vessels course and speed, and its ability to display position in real-time. These facilities are enabled through a data-com interface and allow direct hand-shaking with the desk-top computer to assist with the positioning, and calibration of the acoustic transponder array on the seabed.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System (Cont'd)

4.3.1 Mode of Operation (Cont'd)

The desk-top computer is a HP 9836 with inbuilt V.D.U. display and sufficient memory and interface modules to communicate with the satellite receiver and acoustics range meter, for the software to perform the relative and absolute calibrations of the acoustic transponder array, the navigation and tracking of a vessel, the display and recording of position data, and all other functions that are required of a real-time Navigation Computer system.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System (Cont'd)

4.3.2 Installation and Calibration

The seabed survey having been completed on 20th November 1985, an array of six (6) acoustic transponders were deployed around the location using ARGO. The transponder array remaining on site for the subsequent rig positioning.

To assist with the calibration of the array a velocity profile of the water column was observed at the location. The velocity profile is shown below:

| Depth (in metres) | Velocity (in metres/second) |
|-------------------|-----------------------------|
| 0 | 1506.86 |
| 11 | 1506.41 |
| 21 | 1505.88 |
| 30 | 1505.17 |
| 41 | 1503.62 |
| 51 | 1503.61 |
| 61 | 1501.57 |
| 70 | 1501.65 |
| 77 | 1501.77 |

The relative calibration of the array commenced at 1000 hours on 21st November 1985, with the vessel steaming throughout the array collecting ranges at a number of different points or stations. Ranges for a total of 19 stations were observed during this calibration and the results solved by least squares computation to determine the geometry of the array. (See Appendix 1).

4. SURVEY METHODS AND PROCEDURES (Cont'd)4.3 Satellite-Acoustic Positioning System (Cont'd)4.3.2 Installation and Calibration (Cont'd)

The absolute calibration of the transponder array commenced at 1430 hours on 21st November, with the vessel again steaming throughout the array, but this time collecting simultaneous ranges from the acoustic transponders and the ARGO surface navigation system at 8 station points. A least squares computation was again carried out for each station and the geodetic coordinates for each transponder determined with relation to the ARGO. From this calibration the coordinates for the transponders were found to be as follows:

| <u>S/No</u> | <u>Code</u> | <u>Easting</u> | <u>Northing</u> (A.M.G. co-ords) |
|-------------|-------------|----------------|----------------------------------|
| 540 | 12 | 403 682.51 | 5 534 684.76 |
| 650 | 15 | 404 877.03 | 5 533 068.03 |
| 551 | 9 | 402 887.03 | 5 534 086.46 |
| 587 | 4 | 404 081.12 | 5 532 464.59 |
| 552 | 14 | 402 077.98 | 5 533 486.58 |
| 530 | 1 | 403 269.40 | 5 531 870.98 |

A second calibration was carried out on 29th November 1985, following the completion of the rig move to Koorkah No. 1, using the Magnavox MX 1107 Satellite Receiver. Simultaneous satellite and acoustic data was recorded at a total of 51 stations with 19 stations being accepted for least squares processing. The results of the second calibration are as follows:

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.3 Satellite-Acoustic Positioning System (Cont'd)

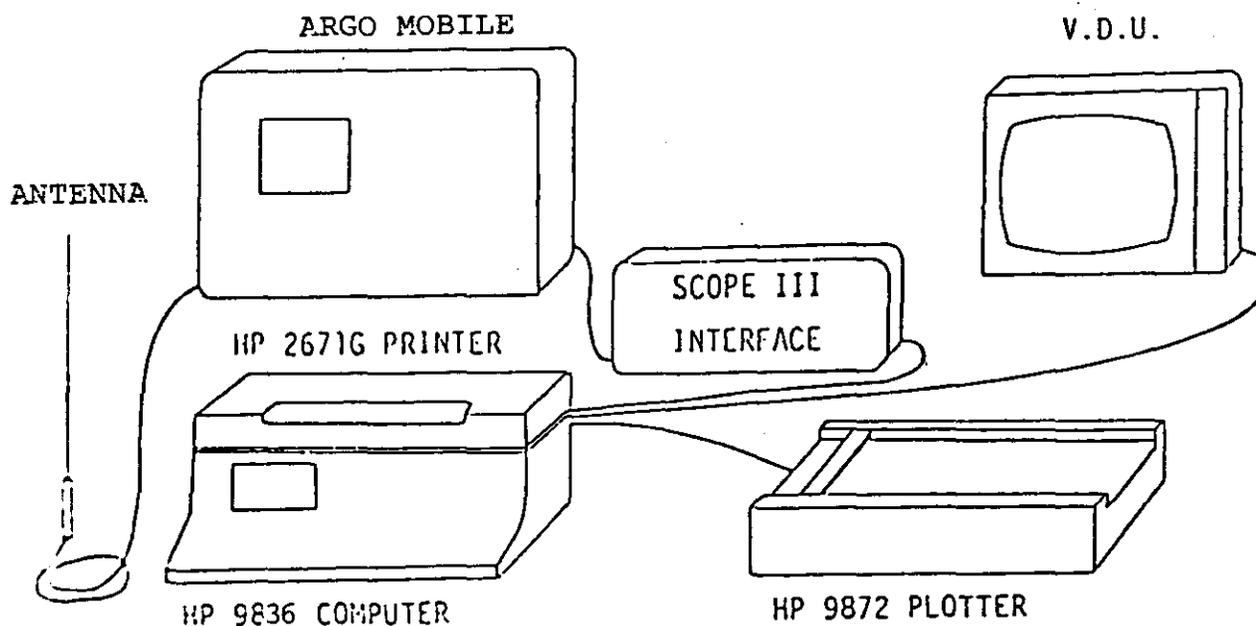
4.3.2 Installation and Calibration (Cont'd)

| <u>S/No</u> | <u>Code</u> | <u>Easting</u> | <u>Northing</u> (W.G.S. 72 co-ords) |
|-------------|-------------|----------------|-------------------------------------|
| 540 | 12 | 403 737.24 | 5 534 906.09 |
| 650 | 15 | 404 961.38 | 5 533 311.71 |
| 551 | 9 | 402 952.92 | 5 534 293.20 |
| 587 | 4 | 404 176.76 | 5 532 693.62 |
| 552 | 14 | 402.155.13 | 5 533 678.47 |
| 530 | 1 | 403 376.25 | 5 532 085.14 |

| <u>S/No</u> | <u>Code</u> | <u>Easting</u> | <u>Northing</u> (A.M.G. co-ords) |
|-------------|-------------|----------------|----------------------------------|
| 540 | 12 | 403 645.43 | 5 534 726.79 |
| 650 | 15 | 404 869.58 | 5 533 132.38 |
| 551 | 9 | 402 861.09 | 5 534 113.89 |
| 587 | 4 | 404 084.95 | 5 532 514.29 |
| 552 | 14 | 402 063.29 | 5 533 499.16 |
| 530 | 1 | 403 284.42 | 5 531 905.80 |

4. SURVEY METHODS AND PROCEDURES (Cont'd)4.4 Navigation Tracking System

The ARGO system was linked to a Scope 26 navigation system. This comprised a Hewlett-Packard 9836 computer, HP 9872 plotter, HP 2671G printer, Scope III interfacing unit and two (2) remote monitors (V.D.U.'s). The system was set up for normal operation as illustrated below:-



Data from the base stations is received by the micro-processor - controlled Scope III interface and held there until required by the computer. At intervals of about 0.05 seconds, the computer takes the formatted ranges from the Scope III buffer and computes a three-way fix of the position of the mobile antenna. This information can then be used in a variety of ways - to calculate the ship's current position with respect to a pre-set line, to drive a plotter, and to produce a helmsman's display of the vessel's track. The HP 2671G printer provides a hard copy of all data in real time.

4. SURVEY METHOD AND PROCEDURES (Cont'd)

4.4 Navigation Tracking System (Cont'd)

A 5¼" floppy disc unit, integral to the HP 9836 computer, records all navigational data, which can be used later to recover the track-plot at any desired scale.

See Figures 3 and 4 for the Survey Line Layout while running analog and digital systems, respectively.

FIGURE 3
446031

ANALOGUE SURVEY LINE LAYOUT

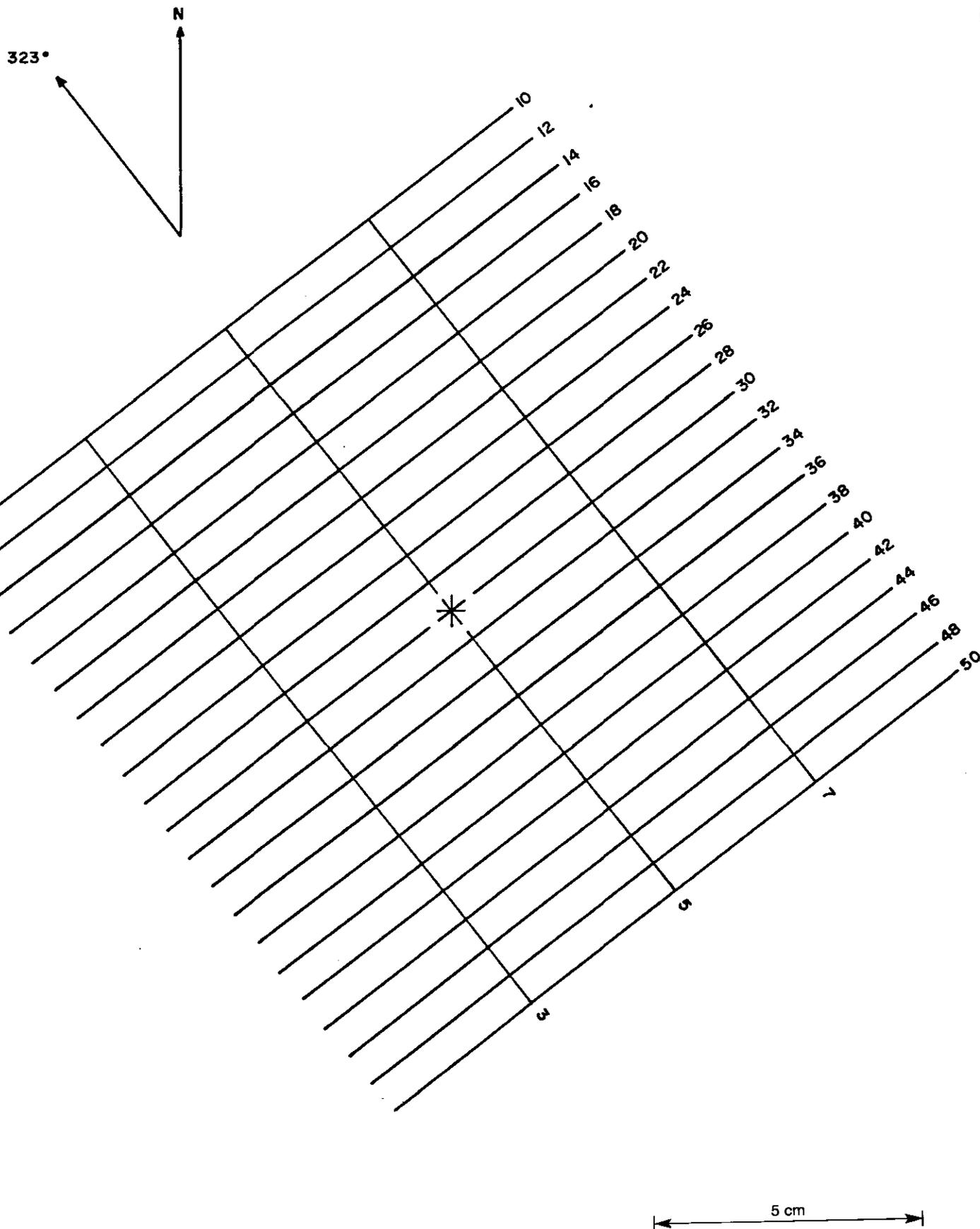
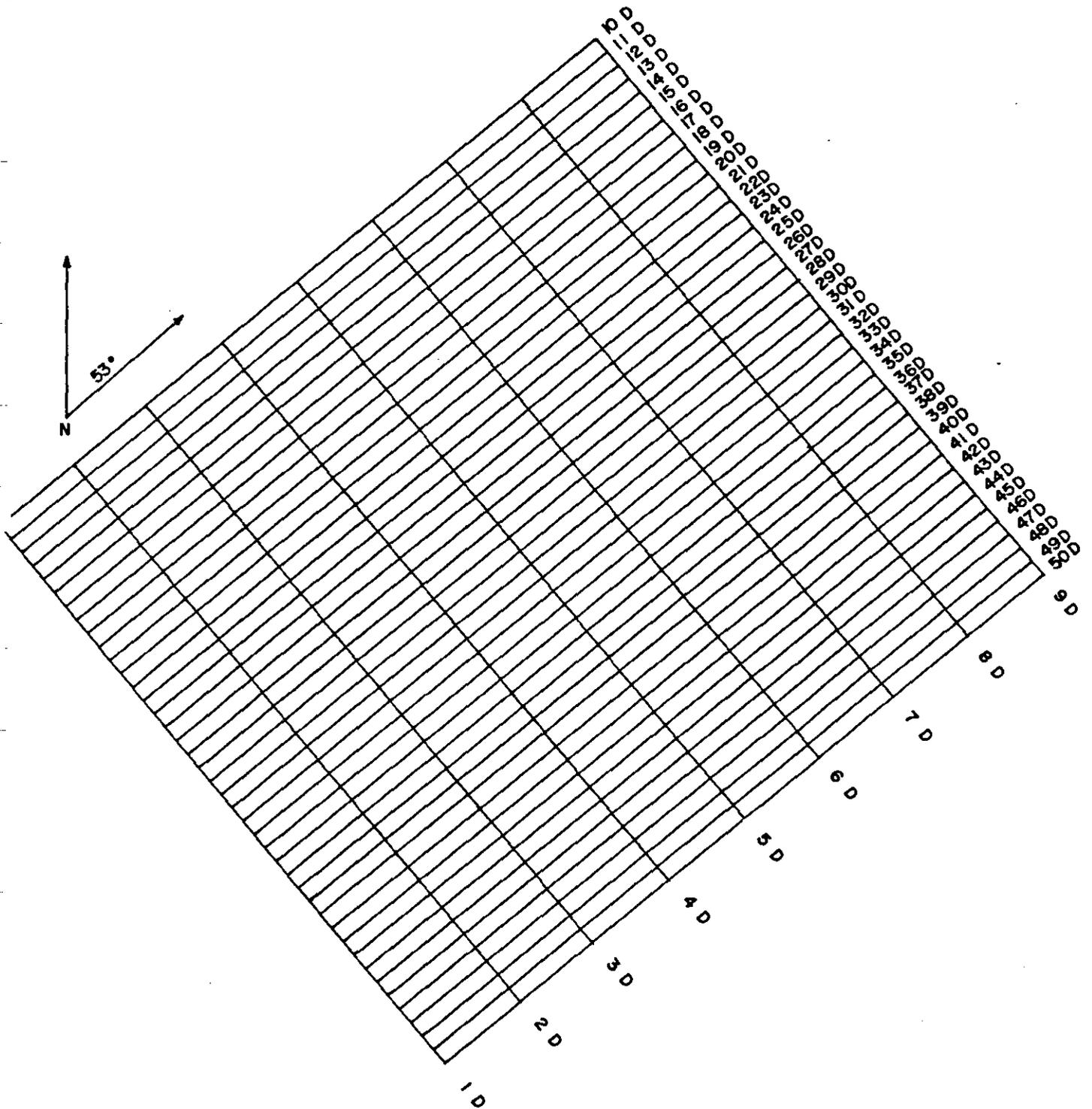


FIGURE 4.
446032

DIGITAL SURVEY LINE LAYOUT



5 cm

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems

4.5.1 Echo Sounding

Continuous bathymetric profiles were obtained using an ATLAS DESO 20 echo sounder with its transducer mounted on the port side of the survey vessel (see Figure 2).

The sounder was calibrated using the average propagation velocity for the water column as derived from direct temperature salinity measurements at depth intervals of 10 m. This value was 1504 m/sec.

The data was reduced first by drawing a mean line through the wave motion (up to 1 m.) superimposed on the bottom trace, then by reading off the water depths at appropriate intervals along the survey lines.

To derive the appropriate tidal corrections, a technique developed by GEOMEX, known as "Crossing Analysis" ⁽¹⁾ was employed. This method involves the addition or subtraction of small values from the raw soundings on each line. The effective datum implied by the analysis is the mean tidal level during the survey. In the long term this will approach mean sea level.

(1) Crossing Analysis, an Easy Method to Calculate the Tidal Curve from Bathymetric Data

J.L. Oustlant, The Hydrographic Journal -
April '84

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems (Cont'd)

4.5.1 Echo Sounding (Cont'd)

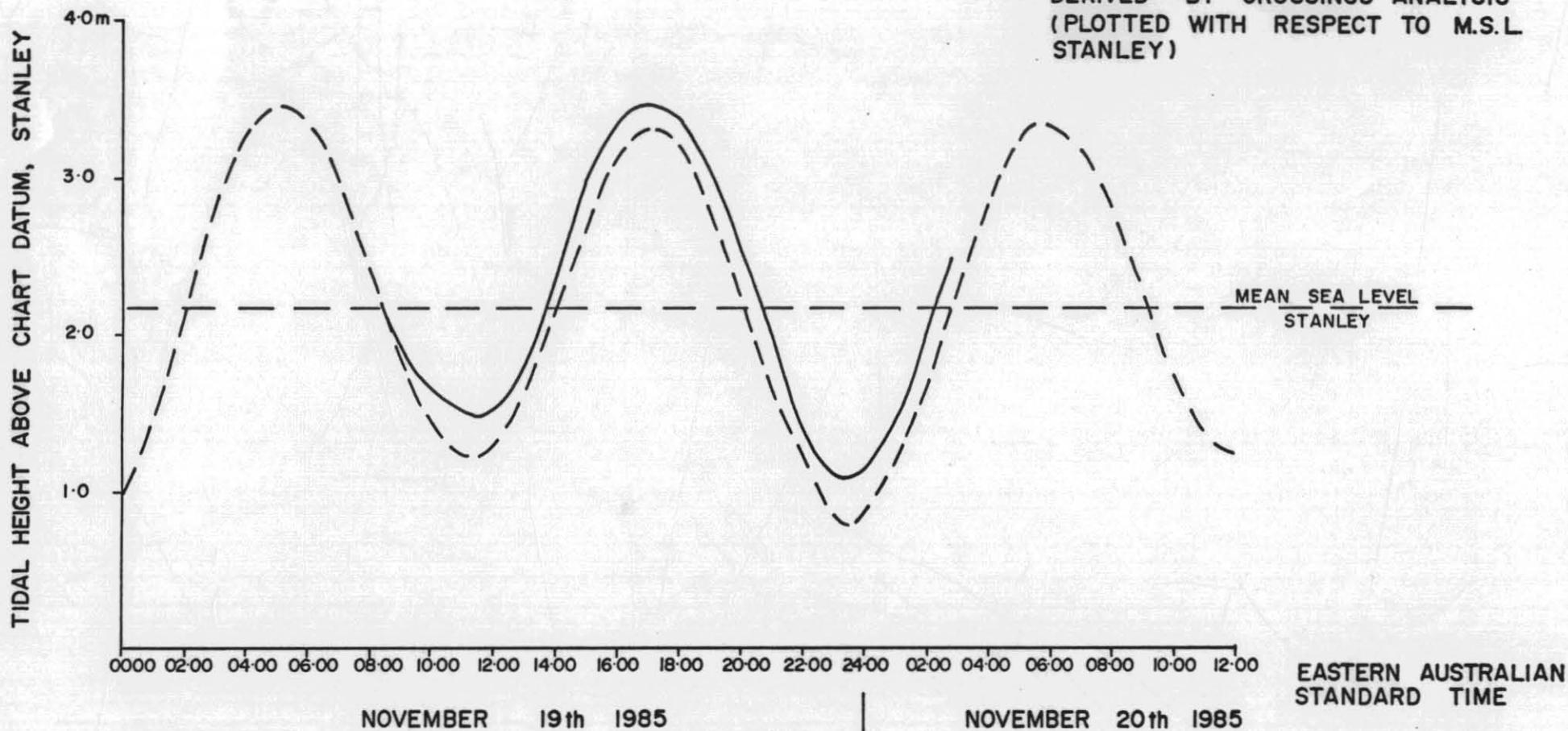
The predicted tide curve for Stanley has been shown on Figure 5. Also plotted is the tidal variation at the location as derived by the crossing analysis. This curve is obtained from the small (positive and negative) corrections to each survey line plotted about a zero of 2.18 m. above chart datum at Stanley (this is the mean sea level at Stanley). It will be seen that there is no significant difference in tidal range or phase between the Stanley and PELICAN-5 location tides.

The bathymetric record for the line running SW-NE through the location has been reproduced as Figure 6. The sounding plan is presented as Map 3, and the results are discussed in Section 5.2.

FIGURE 5

TIDE CURVES

--- PREDICTED TIDE, STANLEY
— ACTUAL TIDAL VARIATION AT PELICAN DURING SURVEY, AS DERIVED BY CROSSINGS ANALYSIS (PLOTTED WITH RESPECT TO M.S.L. STANLEY)



446035

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems (Cont'd)

4.5.2 Side-scan Sonar

An EG&G side-scan sonar was used to map changes in seabed lithology and search for any anomalous objects on the seafloor. The fish was towed off the stern of the vessel, on either 180 or 200 m. of cable, which placed the fish 15-25 m. above the seabed. The recorder was set to a sweep speed giving 200 m. slant range per channel.

The side-scan sonar utilised an acoustic beam which is very narrow in the horizontal plane yet sufficiently broad in the vertical plane to impinge on targets ranging from directly under the fish out to 500 m. abeam. The two channels are fired simultaneously and then each receives echoes from the seafloor sediments to port or starboard. These acoustic signals are converted to voltages and fed up the tow cable to the wet paper recorder which uses dual helix electrodes sweeping out from the centre of the recording drum. The signal voltages cause a current to flow from the helix, through the recording paper to another electrode, and marks are created on the paper in proportion to the strength of the seabed echoes. The helix on the right receives signals from the starboard side of the towfish, while the helix on the left prints those from the port side. The results from successive firings of the fish are printed close together on the recording paper, thereby building up a graphic representation of the seafloor nature as the vessel proceeds.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems (Cont'd)

4.5.2 Side-scan Sonar (Cont'd)

The strength of the echoes (and thus the darkness of the record) will depend on the grainsize of the seabed material (coarse sediments reflect a higher proportion of the incident energy), and the attitude to the sonar beam of any object protruding above the surrounding level. Thus, targets such as wrecks or rock outcrops will typically appear as very dark markings on the paper, with an acoustic shadow (light area) behind them.

The records are reduced by first identifying zones of contrasting reflectivity (i.e. sediment type), and anomalous features such as scours, pipelines, craters, outcrops etc., then plotting these results on either side of the fish track, after adjustment of the slant ranges to true horizontal ranges.

A photocopy of the sonar record running SW-NE through the location is presented as Figure 7. The results are discussed in Section 5.3.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems (Cont'd)

4.5.3 Seismic Reflection Profiling

The technique of seismic profiling employs a source of acoustic energy with sufficient power and low enough frequency content to penetrate the seafloor and obtain echoes from the underlying strata. The sound source, typically a boomer or sparker, sends a pulse of energy to the seabed, where part is transmitted and part reflected. The transmitted signal, as it penetrates the sub-seafloor sediments, is in turn part-reflected and part-transmitted at succeeding interfaces, separating materials with different acoustic impedances. The reflected components travel as a long wave-train up through the water column and are received by a hydrophone towed at the sea-surface next to the sound source. The hydrophone passes the signal inboard to various filters and amplifiers, before presentation on a graphic recorder. A continuous time section is built-up on the recorder by firing the acoustic source several times per second and printing the returned echoes side-by-side on the paper record.

For the PELICAN-5 site survey, a boomer was employed as the sound source. Short, high voltage electrical pulses are passed from the capacitor bank, down the electrical cable to the boomer coil.

4. SURVEY METHODS AND PROCEDURES (Cont'd)4.5 Analogue Systems (Cont'd)4.5.3 Seismic Reflection Profiling (Cont'd)

Magnetic fields caused by the flow of current in the coil repel the backing plate on the boomer, thereby creating a short-duration, multi-frequency shock wave which travels downwards towards the seabed.

The sparker was towed astern from the port side of the survey boat and the hydrophone was suspended from a boom on the starboard side, to ensure it was well out of the vessel's wake. Before commencement of the survey, several trial runs were made to test the effect on record quality of various filter and amplifier settings. The filter bandpass was eventually optimised at 600 - 4000 Hz. Before presentation to the recorder, the seismic signals were passed through a two stage T.V.G. (Time-Variable-Gain amplifier). This enables the gain to be kept very low until the seabed echo is received, thereby minimising the obscuring effect of the direct sparker-hydrophone arrival on the part of the record representing the water column. The seabed return is then employed to trigger a second amplifier ramp which is used to compensate for spreading loss and absorption on the sub-seabed material.

Additional processing of the seismic signal was carried out with an electronic swell filter. This device retards or advances each sweep of the recorder to compensate for the vertical motion of the sound source

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.5 Analogue Systems (Cont'd)

4.5.3 Seismic Reflection Profiling (Cont'd)

and hydrophone caused by sea swell.

Reflectors can then be clearly identified that might otherwise be broken up by the superimposed wave action.

The boomer was fired every 375 ms at a power of 300 joules, to complete the grid of 21 by 3 lines. The recorder was swept at a rate of 125 ms.

A photo-reduction of the seismic record for the line running SE-NW through the location has been given as Figure 8. The seismic results are presented in Map 4, and discussed in Section 5.4.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.6 Digital Seismic System

4.6.1 Energy Source

For this project the nine-electrode sparkarray was modified to an eight-electrode sparkarray consisting of two (2) groups of four electrodes. Each set was connected to a set of source units comprising one (1) E.G. & G. Model 231, one (1) 232A and two (2) 233A. Power was supplied by a 55KVA generator.

4.6.2 DFSV Recording System

This consisted of three (3) modules :-

A. ANALOG MODULE

To obtain the 24 channels of 1 millisecond-sampled, 2 second duration data required on this project, 1 analog module was used. This performed the function of analog amplification, filtering, multiplexing and analog to digital conversion.

B. CONTROLLER MODULE

The controller module contains system timing and control, three (3) AGC options, digital to analog conversion, demultiplexer, playback filters and galvanometer drivers.

C. TAPE TRANSPORT

The tape transport module houses the read/write electronics and the tape drive. Dual tape drives were operated. Each tape contained information for 240 shot points.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.6 Digital Seismic System

4.6.3 Streamer

A Teledyne 24 channel model 178 high resolution seismic streamer was utilised. This consisted of :-

- deck cable
- 75m lead in
- 25 metre stretch section
- 12 active sections of 50 m length containing 2 groups each
- 3 depth indicators
- 4 depth controller birds
- 25 metre tail end stretch section
- Norwegian buoy tail buoy

(additional hardware consisting of lead in, stretch, 6 active sections, 2 depth indicators and 1 bird were on the survey vessel).

The system was deployed such that the distance from the stern to the centre of the near trace was 100 metres, giving a near trace to source offset of 80 metres.

The streamer utilises Teledyne T1 elements with 18 per group forming a linear array of length 19.58 metres. The quoted group sensitivity is 10.24 V/ Bar.

No water break detector was used, however, system geometry was checked from direct arrival times on the camera records. The time break was derived from a coil adjacent to the sparker units.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.6 Digital Seismic System (Cont'd)

4.6.3 Streamer (Cont'd)

The Teledyne depth transducers were calibrated prior to deployment by the Teledyne compressed air calibration units. The depth transducers were installed between groups 4/5, 12/13, and 19/20 and the depths were logged manually from the Teledyne digital depth read out modules.

Four (4) depth controller birds, preset to 10ft were attached to the cable after ballasting. These were set on the stretch section and adjacent to channels 18, 10 and 2. The system two depth was nominally 10ft (3 metres).

A Geospace MP24 monitor hydrophone was deployed adjacent to the source array. This was recorded on auxillary channel 4.

A noise file value of 80 V (corresponding to approximately 8 Bars) was utilised for streamer noise evaluation.

4.6.4 Control and Monitoring

A. SIE CAMERA

A standard 48-galvanometer camera was employed to display instrument test results, end-of-line noise strips and on-line shot strips. The test strips were calibrated using a reference signal from the DFSV analog module. Timing-line generation was obtained from the DFSV system. High intensity tungsten filament lamps provided galvanometer and timing-line illumination.

4. SURVEY METHODS AND PROCEDURES (Cont'd)

4.6 Digital Seismic System (Cont'd)

4.6.4 Control and Monitoring (Cont'd)

B. OSCILLOSCOPE

An oscilloscope was used to monitor signal levels for each shot.

C. NEAR TRACE MONITOR

A EPC 4603 19" dry-paper graphic recorder was used to display the signals from the first streamer trace. The low-inertia stylus system permits triggering in a single-sweep mode.

D. EXTERNAL TIMER

A timer was used to provide shot timing, camera start and fiducials on the EPC, side-scan sonar and echo sounder recorders.

5. RESULTS

5.1 Navigation

ARGO was the sole source of positioning used during the survey and proved very reliable. The Standard Deviations of Fixes, which is a good indicator of positioning accuracy varied from 0-5 metres, throughout the survey.

All Fixes have been plotted at a scale of 1:10,000 and form Maps 1 and 2 which represent the position of the ARGO antenna during the Analogue and Digital surveys respectively.

5. RESULTS (Cont'd)

5.2 Echo Sounding

The bathymetric plan (Map 3) shows the seafloor to be almost perfectly horizontal, with an average gradient of only about 1 in 5000 towards the north-east. The variation in seabed levels across the 4 km x 4 km area is 77.0 to 78.4 m. below the mean tidal level during the survey. At the proposed drilling location the seafloor is 77.7 m. below datum.

5.3 Side-scan Sonar and Bottom Sampling

The sonar revealed an almost featureless seafloor of low acoustic reflectivity consistent with silty clayey sediments. The uniform conditions were interrupted only by elongated grooves in the seabed; these are interpreted to be caused by trawling or anchor-dragging. Other minor, isolated reflections on the records are probably small seabed depressions or low-relief bumps. None of the features on the records are considered to represent a potential hazard for rig emplacement.

The material recovered from the three drop cores (taken near the centre of the survey area) comprised basically clayey sediment. There is no sonar evidence of major facies changes in the other parts of the survey area. This sediment is quite dissimilar to the sand-grade material obtained by the grab sampling in the YOLLA-1 and KOORKAH-1 areas.

446047

ECHO SOUNDER RECORD
LINE 30

5 cm

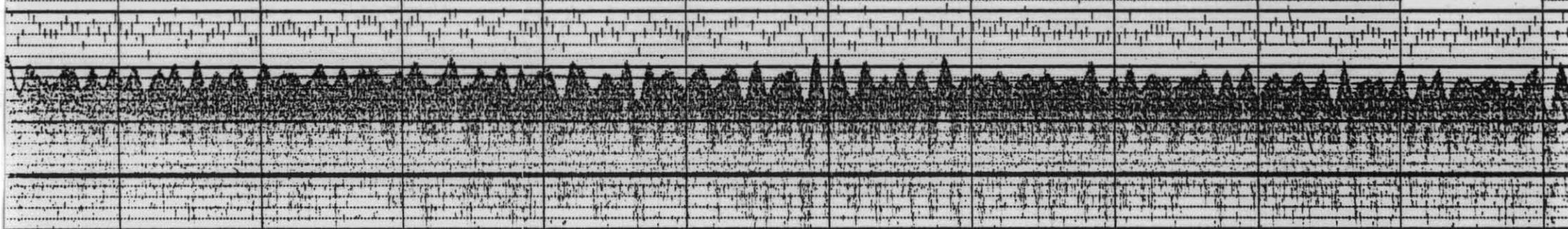
1 metre

DRILLING
LOCATION

SOUTH-WEST

NORTH-EAST

100 metres



16

17

18

19

20

21

22

23

24

26

FIGURE 6
40

5. RESULTS (Cont'd)

5.3 Side-scan Sonar and Bottom Sampling (Cont'd)

The corer was dropped from an approximate height of 10 m. above the seabed and penetration of 1 to 1½ m. was achieved with a total corer weight of about 150 kg. Visual description of the base (adjacent to cutting head) of the three drop-core samples is as follows:

DROP CORE 1

Grey cohesive CLAY, with minor sand; some whole shells and shell fragments to 40 mm across.

DROP CORE 2

Light grey cohesive sandy CLAY, with 10% shell grit and whole shells to 10 mm across.

DROP CORE 3

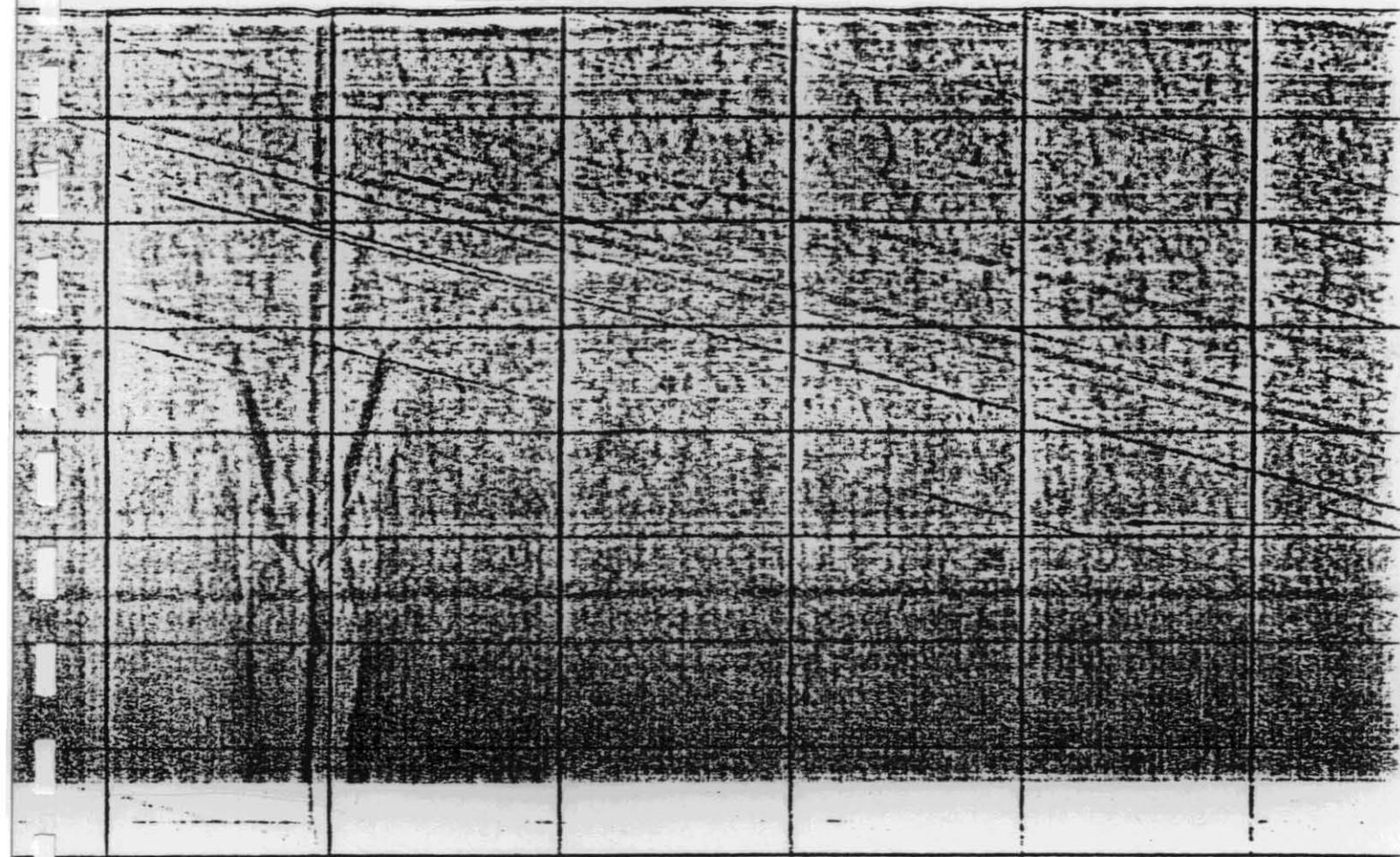
Light grey moderately stiff, cohesive sandy CLAY with 10% shell grit and whole shells to 45 mm across.

SIDE-SCAN SONAR RECORD

LINE 30

446049

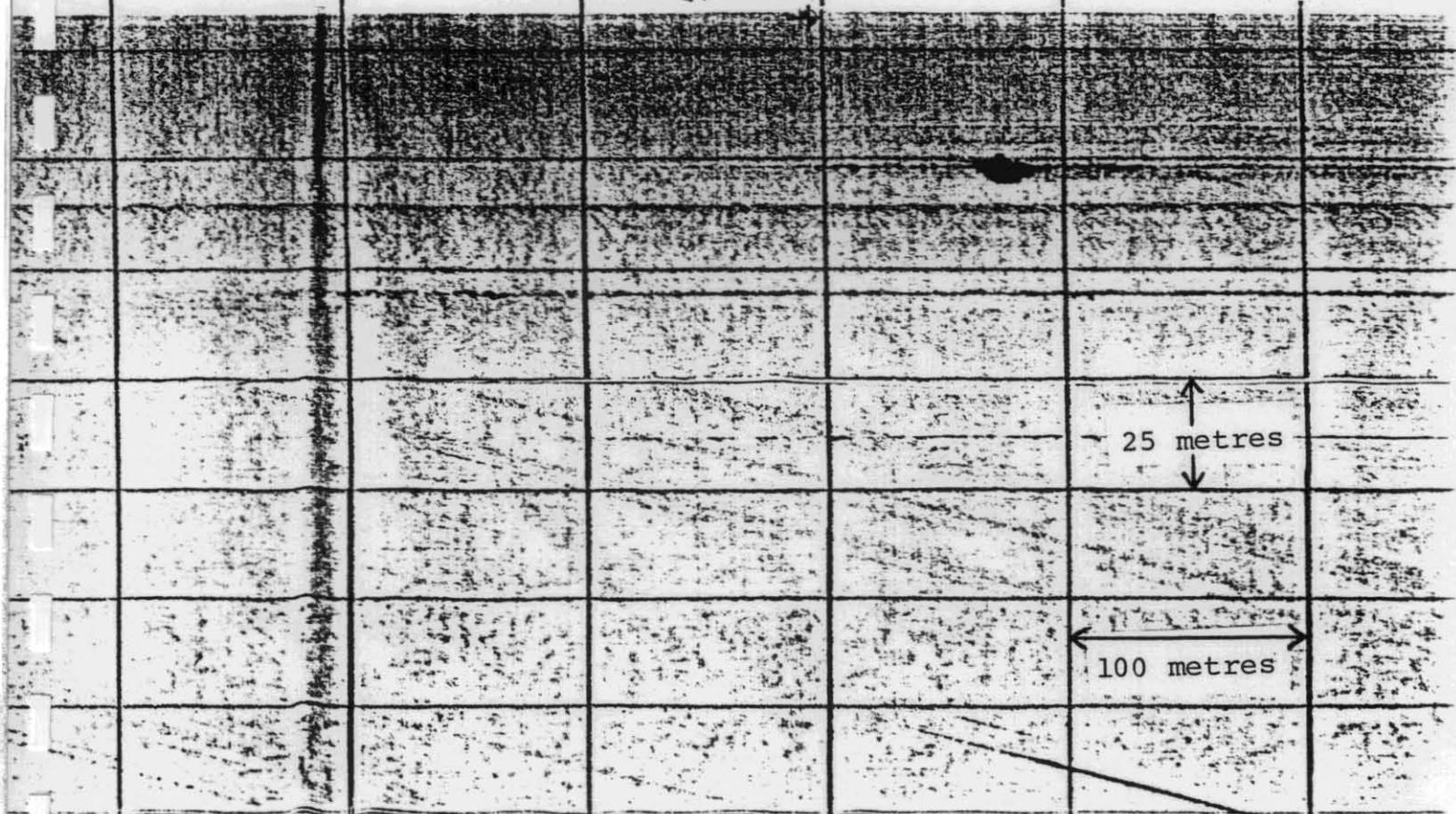
FIGURE 7



SOUTH-WEST

PELICAN-5
LOCATION

NORTH-EAST



25 metres

100 metres

5 cm

20

21

22

23

24

5. RESULTS (Cont'd)

5.4 Seismic Reflection Profiling

The 300 J boomer recorded a series of flat-lying reflectors down to about 100 ms two-way travel time beneath the seabed. Below this level, the arrival of the first seabed multiple echo made identification of deeper horizons difficult. At an assumed average propagation velocity of 1800 m/sec, this effective penetration time is equivalent to 90 m.

This excellent propagation of the seismic signals into the seabed and to considerable depths indicates an absence of cemented material at the seafloor. No shallow geological information is available within the surveyed area, hence a precise lithology cannot be assigned to each reflecting layer. The seismic boundaries represent interfaces across which there is a change in acoustic impedance (the product of the compressional shock-wave velocity and the density of the transmitting medium). Thus, sudden changes in cementation or consolidation, or grain-size changes (e.g. silt to sand or sand to gravel) may generate reflections. The acoustic boundaries recorded in the PELICAN-5 area are all laterally-persistent, and of roughly similar amplitude. Therefore major changes in cementation or grain-size are considered unlikely and it is believed the sequence represents an interbedded series of clays, silts and sands, with different degrees of consolidation.

In the top few metres of the seabed material only weak reflectors are present, probably representing minor laminations in the clayey sequences. The first significant horizon varies in depth from 3.3 to 4.4 m, and lies at 4.0 m at the proposed drilling location. There is then an approximate 10 m gap of

5. RESULTS (Cont'd)

5.4 Seismic Reflection Profiling (Cont'd)

acoustically-transparent material before the second major reflector.

The sequence of horizons has been shown on Map 5, Seismic Sections. Important reflectors occur at approximate intervals of 10m, usually with weaker intermediate boundaries. This series of reflectors at 5 m spacing is particularly pronounced between Reflectors 2 and 6.

All the surfaces are remarkable for their uniformity and planar nature, however, minor topographic variations do occur in places, particularly on Reflector 5 where there are localized irregularities representing erosion remnants.

The average dip of the sequences is about 0.05° for the near surface layers and 0.1° for the deeper horizons, both towards the N.E.. No faulting or masking (of the type indicative of shallow gas) can be discerned on the records.

BOOMER RECORD
(Photoreduction)
LINE 5

5 cm

SOUTH-EAST

PELICAN-5
LOCATION
↓

NORTH-WEST

UNCONSOLIDATED SANDY CLAY

REFLECTOR 1

REFLECTOR 2

REFLECTOR 3

REFLECTOR 4

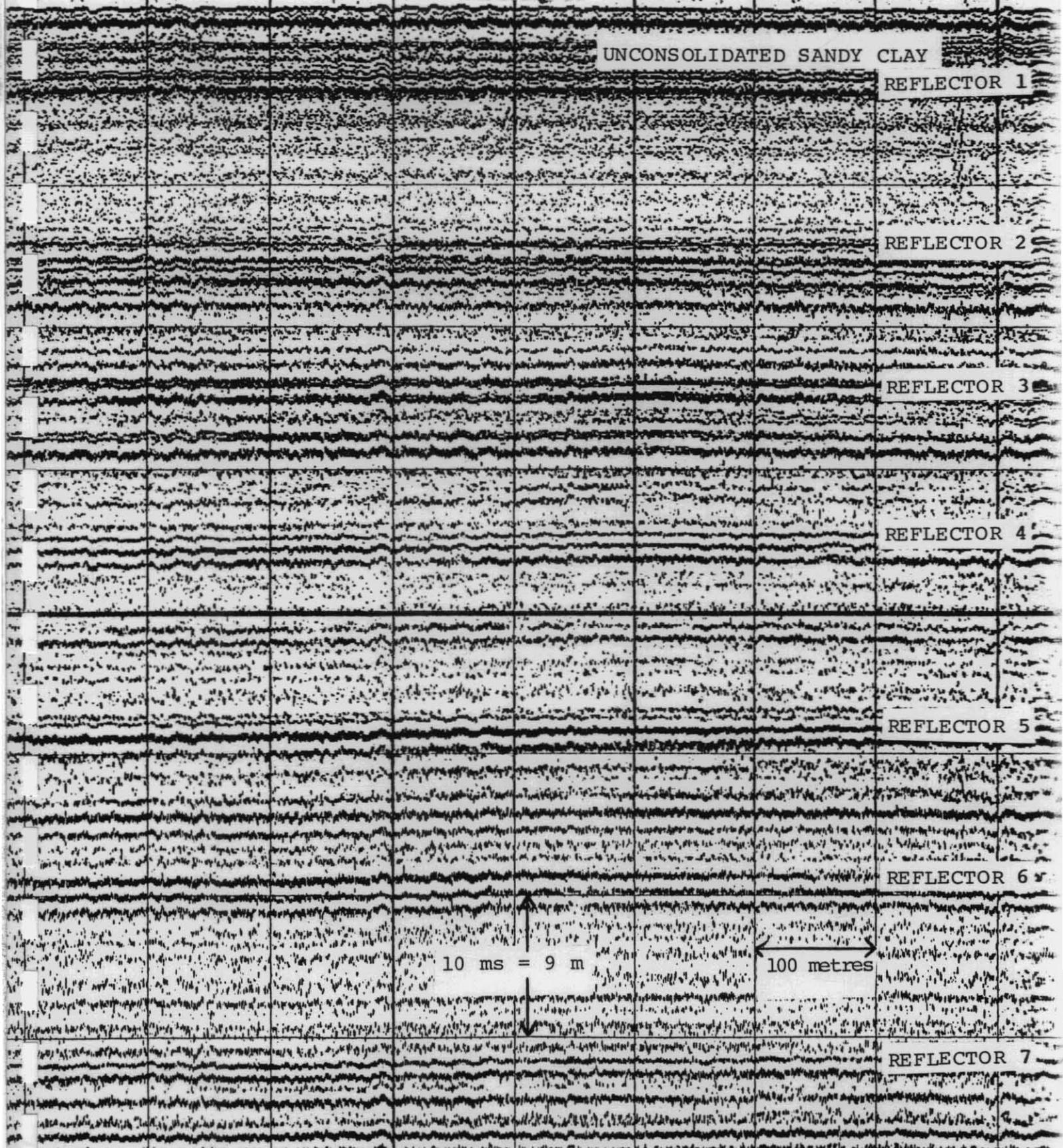
REFLECTOR 5

REFLECTOR 6

10 ms = 9 m

100 metres

REFLECTOR 7



RESULTS (Cont'd)5.5 Digital Seismic

The results of the digital "super-sparker" survey are best demonstrated in the enclosed stack sections for Lines 5 and 30.

These show data of variable, often very good, quality down to 2 seconds (approximately 3100 metres below sea level). Significant reflectors are picked and annotated for explanation as follows.

The shallowest pick, Reflector 7 has already been identified on the analogue reflection profiles.

Reflector 9, at a depth of approximately 290 m. below sea level, appears to represent a low angle unconformity with underlying events being truncated towards the northeast. Above this level the section is as described from the analogue data with numerous parallel reflectors dipping very gently to the northeast representing predominantly fine grained offshore sediments, such as shales, marls and limestones, gradually becoming more consolidated with depth. It is not possible to quantify the increase in consolidation although strong reflectors such as Reflector 8 may correspond to zones of significant increase. Certainly below 300 milliseconds (roughly 250 m. below sea level) the interval velocities derived from stacking velocity analysis are 2000 metres per second or more indicating fairly complete consolidation.

Reflectors 10 and 11 correspond to the top and base respectively of a unit of northeasterly prograding sediments which may be expected to be more sandy.

RESULTS5.5 Digital Seismic (Cont'd)

Between Reflectors 11 and 12 the section reverts to parallel gently dipping uniform reflectors suggesting that this is also an interval represented by fine grained offshore facies.

No isopach mapping has been attempted but it would appear that most of the intervals above Reflector 12 (at approximately 700 metres) thicken basin-ward toward the northeast.

This may not be the case for the interval Reflector 12 to 13 which appears to thicken more to the south. This interval is also less seismically uniform and would include more mixed inshore and sandy facies.

Reflector 13 marks a significant change in the section. It represents an unconformity below which the northeasterly dips are slightly greater. It also coincides with a horizon where a lot of noise is generated. This noise can be seen on Line 30 as pseudo reflectors with steep northeast dips. Typically such noise could be due to an erosion surface with associated features such as extremely rugged small scale topography, cavernous limestones or stringers of siliceous or calcareous caprock to create noise from the seismic signal. This horizon is calculated from stacking velocity analysis to be approximately 825 metres below sea-level.

Below here the data is masked somewhat by noise and is also beginning to be greatly attenuated.

Reflector 14 appears to mark an unconformity with truncation of underlying events towards the southwest.

5.5 Digital Seismic (Cont'd)

From here to almost 1.5 seconds the section is almost devoid of continuous reflections. This is in part due to attenuation but indicates the absence of offshore parallel bedded facies and the presence of mixed sandy facies possibly with widespread lateral variability to break up reflector continuity. These facies may be inshore, marginal marine or continental.

Reflector 15 (at approximately 2000 metres below sea level) is picked as being the shallowest continuous event to show any structure, as above approximately 1.4 seconds all events dip evenly to the northeast. The structuring on Reflector 15 probably represents draping over the underlying structures.

The pick of Reflector 16 shows this structuring to be gentle anticlinal folding with associated faulting. It is not considered within the scope of this report to map these structures as it is assumed that the exploration geophysicists have done so, probably exhaustively. Fault traces have been plotted on the accompanying Map No. 6 but their positions will be approximate as the data is not migrated. The maps shows a dominant pair of fault traces, discontinuous in places, 200 to 300 metres apart with a graben between. This feature crosses the survey area from west-northwest to east-southeast at its closest approximately 600 metres southwest of the location. The data is not good enough or deep enough to confidently determine the direction and angle of the fault planes and the mapping only represents visible displacements on the one strong reflector. No interpretation of the style of

RESULTS5.5 Digital Seismic (Cont'd)

faulting is presented but as there may be both apparent reverse components along the fault lines it is assumed that wrenching or strike-slip faulting is involved.

Reflector 16 is very strong considering the depth and the attenuation that has taken place above. With only very rudimentary knowledge of regional and local stratigraphy, it is considered that this event is likely to represent coal measures at approximately 2500 metres below sea level as calculated from stacking velocity analyses.

The data available have all been examined to check for drilling hazards. No faults can be seen apart from those deep structures (below 1.5 seconds), previously described which are closer than 600 metres from location. No "bright spots" indicative of gas can be seen although one would need to examine true amplitude recovery data to be completely confident in this assertion.

The only conceivable hazard may occur below 825 metres at the horizon represented by Reflector 13 as described above. The seismic noise generation may be due to the presence of cavernous limestones and unless there is independent evidence to show otherwise, it is recommended that allowance be made to case here to prevent possible dramatic circulation losses.

CONCLUSIONS

During the period 11th to 21st November 1985, echo sounding, side-scan sonar, drop coring, analog seismic (boomer) and digital seismic (super-sparker) surveys were carried out over a 4 km. by 4 km. area centred on the proposed PELICAN-5 drilling location.

The bathymetry showed the seabed to be almost horizontal, with an average gradient of only 1 in 5,000 towards the north-east. No localised steep gradients were found.

The sonar and bottom sampling showed the seafloor material to be composed of quite cohesive sandy clay which should give better anchor-holding conditions than the previous drilling sites (YOLLA-1, TILANA-1 and KOORKAH-1). No obstructions were discerned on the side-scan records.

The boomer obtained excellent depth penetration (over 100 m.) indicating the basically unconsolidated and uncemented nature of the sediment. A flat-lying (dips of less than 0.1°) series of reflectors was revealed, presumably representing an interbedded sequence of clays, silts and sands. No shallow gas or faulting was detected on the analogue records.

The digital "super-sparker" data is variable, and often very good, down to approximately 3100 metres below sea level.

Down to approximately 700 metres the section is composed mainly of what are interpreted as fine grained offshore sediments such as shales, marls and limestones well consolidated below 250 metres below sea level. These sediments dip very gently and thicken very gradually to the northeast.

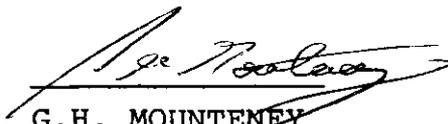
6

CONCLUSIONS (Cont'd)

From 700 to 2000 metres below sea level the sediments lack the uniform parallel reflectors that indicate offshore sediments and probably contain mixed sandy facies of inshore to continental environments. There is a significant erosional event at approximately 825 metres below sea level. In this interval the sediments also mostly dip gently to the northeast.

Below 2000 metres the rocks are gently folded and faulted although there are no faults visible within 600 metres of location.

There are no visible hazards to drilling such as gas accumulations or faulting. There is a lot of seismic noise generated at or below 825 metres below sea level. In other areas such noise has been induced by cavernous limestones which can cause bad circulation problems. If there is any possibility that limestones be prognosed at this level it is advised that a contingency be made for casing.



G.H. MOUNTENEY

HYDROGRAPHIC SURVEYOR

APPENDIX 1

ACOUSTIC CALIBRATION

RELATIVE CALIBRATION PERFORMED ON 21.11.85

446060

| | Xp. 1 | Xp. 2 | Xp. 3 | Xp. 4 | Xp. 5 | Xp. 6St | RMS |
|-----|--------|--------|--------|--------|--------|---------|--------|
| 1 | 4.0E-1 | ***** | 3.6E-1 | 5.5E-1 | 6.6E-1 | 5.8E-1 | 5.2E-1 |
| 2 | 3.7E-1 | 3.5E-2 | 1.6E-1 | 1.5E-1 | 4.4E-1 | 8.9E-1 | 4.4E-1 |
| 3 | 6.0E-1 | 5.0E-1 | 2.0E-2 | 9.3E-2 | 1.4E-1 | ***** | 3.6E-1 |
| 4 | 2.8E-1 | 1.1E-1 | 8.8E-2 | 3.9E-1 | 1.4E-1 | ***** | 2.3E-1 |
| 5 | 7.1E-1 | 4.1E-1 | 1.2E-1 | 5.4E-2 | 4.0E-3 | 4.4E-1 | 3.8E-1 |
| 6 | 1.5E-1 | 6.8E-2 | 2.2E-1 | 2.0E-1 | 4.6E-1 | 9.1E-2 | 2.3E-1 |
| 7 | 4.6E-1 | 4.1E-1 | 1.5E-1 | 7.4E-1 | 9.4E-1 | 2.3E-1 | 5.6E-1 |
| 8 | 5.0E-1 | 4.2E-1 | 1.0E-3 | 1.7E-2 | 1.1E-1 | 3.2E-1 | 3.0E-1 |
| 9 | 1.9E-1 | 3.4E-1 | 2.1E-1 | 1.8E-1 | 2.3E-1 | ***** | 2.4E-1 |
| 10 | 1.7E-1 | 1.3E-1 | 1.8E-1 | 2.3E-1 | 9.0E-2 | 2.2E-1 | 1.8E-1 |
| 11 | 9.9E-2 | 8.0E-1 | ***** | 2.3E-1 | 4.7E-1 | 6.1E-1 | 5.1E-1 |
| 12 | 2.1E-1 | 6.4E-1 | 1.9E-1 | 7.8E-2 | 1.2E-1 | 5.2E-1 | 3.6E-1 |
| 13 | 8.3E-2 | 8.4E-2 | 3.2E-2 | 9.7E-2 | 4.0E-1 | 3.2E-1 | 2.2E-1 |
| 14 | 1.4E-1 | 3.1E-1 | 2.0E-1 | 1.8E-1 | 2.6E-1 | 1.9E-1 | 2.2E-1 |
| 15 | 3.4E-1 | 3.0E-2 | 6.1E-1 | 3.7E-1 | 5.6E-2 | 2.8E-1 | 3.4E-1 |
| 16 | 1.1E-1 | 3.4E-1 | 3.9E-1 | 7.2E-1 | ***** | 2.5E-1 | 4.1E-1 |
| 17 | 3.1E-1 | 3.9E-1 | 1.5E-1 | 4.3E-1 | 1.5E-1 | 2.6E-1 | 3.0E-1 |
| 18 | 1.1E-1 | 6.7E-2 | 2.8E-2 | 9.2E-3 | 6.4E-2 | 2.7E-4 | 6.0E-2 |
| 19 | 3.4E-1 | 2.9E-1 | 3.4E-1 | 3.9E-1 | 2.8E-2 | 2.1E-2 | 2.8E-1 |
| FIS | 3.4E-1 | 3.7E-1 | 2.4E-1 | 3.4E-1 | 3.6E-1 | 4.0E-1 | |

----- : distance not known ***** : distance rejected
 st distance: st 7 to Xponder 5 worst station : 7

relative position of the transponders

| | | | |
|------|---------|----------|-------|
| 01 : | 0.00 | 0.00 | 67.00 |
| 02 : | 2010.14 | 0.00 | 67.00 |
| 03 : | 8.49 | -995.33 | 67.00 |
| 04 : | 2022.51 | -998.73 | 67.00 |
| 05 : | 10.20 | -2002.51 | 67.00 |
| 06 : | 2017.59 | -2004.34 | 67.00 |

are residum 1.28E+01 Valid dist 108 Variance : 3.44E-01

transponder movement - error down to : 1.28E+01

transponder movement - error down to : 1.28E+01

station no. : 31

| | X | Y | Z | Delta X | Delta Y | Delta Z |
|---|---------|----------|-------|---------|---------|---------|
| 1 | -0.00 | -0.00 | 67.00 | -0.00 | -0.00 | 0.00 |
| 2 | 2010.14 | -0.00 | 67.00 | -0.00 | 0.00 | 0.00 |
| 3 | 8.49 | -995.33 | 67.00 | -0.00 | -0.00 | 0.00 |
| 4 | 2022.51 | -998.73 | 67.00 | -0.00 | 0.00 | 0.00 |
| 5 | 10.20 | -2002.51 | 67.00 | 0.00 | -0.00 | 0.00 |
| 6 | 2017.59 | -2004.34 | 67.00 | -0.00 | -0.00 | 0.00 |

are residum 1.28E+01 Valid dist 108 Variance : 3.44E-01

absolute Positions of Transponders

| File | Calculated | Difference |
|------|----------------------|---------------------------|
| 12: | 403687.10 5534671.00 | 403679.72 5534676.36 9.12 |
| 15: | 404892.70 5533075.40 | 404887.83 5533069.76 7.45 |
| 09: | 402885.50 5534071.20 | 402889.31 5534071.37 3.82 |
| 04: | 404094.10 5532467.60 | 404097.04 5532459.63 8.49 |
| 14: | 402084.70 5533463.00 | 402085.36 5533464.68 1.81 |
| 01: | 403285.50 5531852.80 | 403290.35 5531859.19 8.02 |

TRANSPONDER CHANNEL AND POSITION

| channel | valid | easting | northing | depth | delay |
|---------|-------|---------|----------|-----------|-----------|
| 1 | 12 | 1 | 403679.7 | 5534676.4 | 72.0 15.0 |
| 2 | 15 | 1 | 404897.8 | 5533069.8 | 72.0 15.0 |
| 3 | 9 | 1 | 402889.3 | 5534071.4 | 72.0 15.0 |
| 4 | 4 | 1 | 404097.0 | 5532459.6 | 72.0 15.0 |
| 5 | 14 | 1 | 402085.4 | 5533464.7 | 72.0 15.0 |
| 6 | 1 | 1 | 403290.3 | 5531859.2 | 72.0 15.0 |

Divers data concerning ship and RM configuration

ABSOLUTE CALIBRATION ON ARGO

PERFORMED ON 21-11-85

| fix | radio position | acoustic position |
|-----|----------------------|----------------------|
| 1 | 404252.40 5533242.60 | 404253.80 5533241.80 |
| 2 | 403472.70 5532710.40 | 403488.10 5532699.40 |
| 3 | 403398.70 5531911.00 | 403415.50 5531899.10 |
| 4 | 402195.10 5534081.00 | 402199.60 5534055.00 |
| 5 | 404354.90 5534273.40 | 404359.60 5534272.00 |
| 6 | 404354.90 5534273.40 | 404359.60 5534272.00 |
| 7 | 403806.20 5533420.60 | 403818.10 5533416.40 |
| 8 | 403806.20 5533420.60 | 403818.10 5533416.40 |

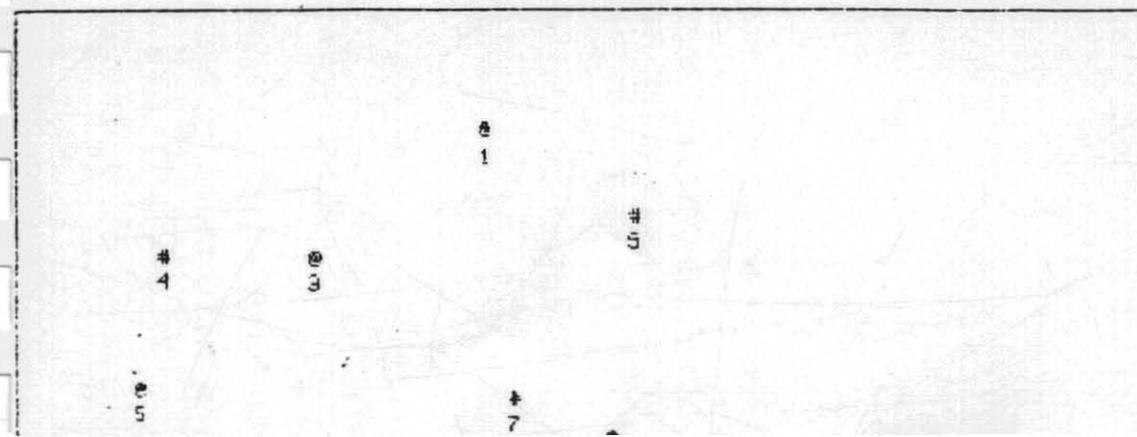
Results of the absolute calibration

Rejected stations : .6.8

| fix | radio position | corrected acous. posit. | distance |
|-----|----------------------|-------------------------|----------|
| 1 | 404252.40 5533242.60 | 404244.47 5533245.41 | 8.41 |
| 2 | 403472.70 5532710.40 | 403474.23 5532709.49 | 1.78 |
| 3 | 403398.70 5531911.00 | 403394.88 5531909.83 | 4.00 |
| 4 | 402195.10 5534081.00 | 402197.20 5534075.91 | 5.51 |
| 5 | 404354.90 5534273.40 | 404358.96 5534274.68 | 4.26 |
| 6 | *****,** *****,** | *****,** *****,** | *****,** |
| 7 | 403806.20 5533420.60 | 403810.26 5533423.68 | 5.10 |
| 8 | *****,** *****,** | *****,** *****,** | *****,** |

| channel | position on file | new position |
|---------|----------------------|----------------------|
| 12 | 403679.72 5534676.36 | 403682.51 5534684.76 |
| 15 | 404887.83 5533069.76 | 404877.03 5533068.03 |
| 9 | 402889.31 5534071.37 | 402887.03 5534086.46 |
| 4 | 404097.04 5532459.63 | 404081.12 5532464.59 |
| 14 | 402085.36 5533464.68 | 402077.98 5533486.58 |
| 1 | 403290.35 5531859.19 | 403269.40 5531870.98 |

| | | |
|---|---|----------------------|
| Mean Error | : | 5.23 |
| Acoustic rotation point | : | 403589.12 5533263.95 |
| Translation (east = +) | : | -9.12 |
| Translation (north = +) | : | 9.22 |
| Rotation | : | .48 |
| Heading of transponder 1 to transponder 2 | : | 143.54 |



Rejected stations : ,1,4,5,6,7,8,9 10,13,15,16,17,18,20,21,22,23,24,25,26,27,28,29,31,32,37,40,41,42,43,47,50

446062

| f | x | satellite position | | corrected acous. posit. | | distance |
|----|---|--------------------|------------|-------------------------|------------|----------|
| 1 | | ***** | ***** | ***** | ***** | ***** |
| 2 | | 402969.57 | 5534033.06 | 402978.77 | 5533962.83 | 70.82 |
| 3 | | 404106.15 | 5533104.29 | 404073.71 | 5533101.02 | 32.60 |
| 4 | | ***** | ***** | ***** | ***** | ***** |
| 5 | | ***** | ***** | ***** | ***** | ***** |
| 6 | | ***** | ***** | ***** | ***** | ***** |
| 7 | | ***** | ***** | ***** | ***** | ***** |
| 8 | | ***** | ***** | ***** | ***** | ***** |
| 9 | | ***** | ***** | ***** | ***** | ***** |
| 10 | | ***** | ***** | ***** | ***** | ***** |
| 11 | | 403320.32 | 5533549.22 | 403398.23 | 5533470.20 | 110.97 |
| 12 | | 403523.25 | 5533644.74 | 403454.07 | 5533620.54 | 73.29 |
| 13 | | ***** | ***** | ***** | ***** | ***** |
| 14 | | 403369.22 | 5533573.57 | 403437.30 | 5533559.02 | 69.64 |
| 15 | | ***** | ***** | ***** | ***** | ***** |
| 16 | | ***** | ***** | ***** | ***** | ***** |
| 17 | | ***** | ***** | ***** | ***** | ***** |
| 18 | | ***** | ***** | ***** | ***** | ***** |
| 19 | | 403081.29 | 5532573.97 | 403014.93 | 5532603.34 | 70.63 |
| 20 | | ***** | ***** | ***** | ***** | ***** |
| 21 | | ***** | ***** | ***** | ***** | ***** |
| 22 | | ***** | ***** | ***** | ***** | ***** |
| 23 | | ***** | ***** | ***** | ***** | ***** |
| 24 | | ***** | ***** | ***** | ***** | ***** |
| 25 | | ***** | ***** | ***** | ***** | ***** |
| 26 | | ***** | ***** | ***** | ***** | ***** |
| 27 | | ***** | ***** | ***** | ***** | ***** |
| 28 | | ***** | ***** | ***** | ***** | ***** |
| 29 | | ***** | ***** | ***** | ***** | ***** |
| 30 | | 402645.31 | 5532749.62 | 402717.71 | 5532753.41 | 72.50 |
| 31 | | ***** | ***** | ***** | ***** | ***** |
| 32 | | ***** | ***** | ***** | ***** | ***** |
| 33 | | 401657.46 | 5533446.65 | 401735.54 | 5533499.23 | 94.13 |
| 34 | | 402900.12 | 5531790.50 | 402898.12 | 5531865.97 | 75.50 |
| 35 | | 402053.81 | 5532265.48 | 402075.85 | 5532282.91 | 29.09 |
| 36 | | 401538.36 | 5532242.07 | 401512.85 | 5532142.70 | 102.59 |
| 37 | | ***** | ***** | ***** | ***** | ***** |
| 38 | | 402170.63 | 5532671.98 | 402207.37 | 5532752.64 | 88.63 |
| 39 | | 403586.25 | 5533564.55 | 403622.49 | 5533593.00 | 46.07 |
| 40 | | ***** | ***** | ***** | ***** | ***** |
| 41 | | ***** | ***** | ***** | ***** | ***** |
| 42 | | ***** | ***** | ***** | ***** | ***** |
| 43 | | ***** | ***** | ***** | ***** | ***** |
| 44 | | 405462.03 | 5532828.46 | 405469.02 | 5532867.26 | 39.42 |
| 45 | | 404222.51 | 5532984.28 | 404115.51 | 5532993.99 | 105.44 |
| 46 | | 404940.65 | 5534568.03 | 404879.38 | 5534465.95 | 119.05 |
| 47 | | ***** | ***** | ***** | ***** | ***** |
| 48 | | 403277.57 | 5535313.88 | 403255.48 | 5535315.48 | 2.15 |
| 49 | | 404891.87 | 5534965.23 | 404832.35 | 5534957.30 | 60.05 |
| 50 | | ***** | ***** | ***** | ***** | ***** |
| 51 | | 403087.57 | 5533505.73 | 403124.24 | 5533573.64 | 77.18 |

| channel | position | on file | new position |
|---------|-----------|------------|----------------------|
| 2 | 403774.30 | 5534864.10 | 403737.24 5534906.09 |
| 15 | 404968.80 | 5533247.40 | 404961.38 5533311.71 |
| 9 | 402978.80 | 5534265.80 | 402952.92 5534293.20 |
| 4 | 404172.90 | 5532643.90 | 404176.76 5532693.62 |
| 4 | 402163.80 | 5533665.90 | 402155.13 5533678.47 |
| 1 | 403061.30 | 5532050.30 | 403375.25 5532085.14 |

Mean Residual : 76.72
 Acoustic rotation point : 403313.61 5533302.06
 Translation (east = +) : -8.14
 Translation (north = +) : 33.75
 Rotation : 0.05

APPENDIX

STATION DESCRIPTIONS

STATION: GEOMEX NO. 1 and GEOMEX NO. 2

LOCATED: Cape Liptrap.

The stations are located approximately 2 kilometres east of the Cape Liptrap Lighthouse which is situated 45 kilometres from the township of Tarwin Lower, Victoria, Australia.

The station's site is 110 metres above sea level and surrounded on three sides by the sea. The only vegetation on the site is low grass which is used for the grazing of stock animals.

The most direct route to the site is to travel southeast from Tarwin Lower on the Tarwin Lower - Walkerville Road. After about 40 kilometres there is a turn off to the right which is unsealed and signposted to Cape Liptrap Lighthouse. Follow this road for about 5 kilometres whence there is a property access road to the left. The station site is located about 1 kilometre along this access road on the headland overlooking the sea.

The site is accessible by any type of vehicle by following this route. Permission to enter must be obtained from the property owner, Mr. Bill Bray (telephone number 056-632265).

MARKER: The station markers consist of driven starpickets set in concrete. The concrete is inscribed "Geomex No. 1 and Geomex No. 2" respectively.

GENERAL: Local labour, food, fuel, oil and drinking water can be obtained from the nearest township of Tarwin Lower. As the site is very much exposed, rain and wind mainly from the west and east will be the main source of discomfort experienced on the site.

STATION: GEOMEX NO. 1 and GEOMEX No. 2 (Cont'd)

CO-ORDINATES: The stations were surveyed in from the Australian Triangulation Station No. 00146 located near the intersection of the Cape Liptrap - Tarwin Lower Roads.

Geomex No. 1

Latitude : 38° 53' 36.024" South
 Longitude : 145° 56' 53.272" East
 Easting : 408 778.815 m.
 Northing : 5 694 518.719 m.
 Height : 113.865 m.

Geomex No. 2 (Syledis Station)

Latitude : 38° 53' 35.433" South
 Longitude : 145° 56' 51.541" East
 Easting : 408 736.896 m.
 Northing : 5 694 536.482 m.
 Height : 113.638 m.

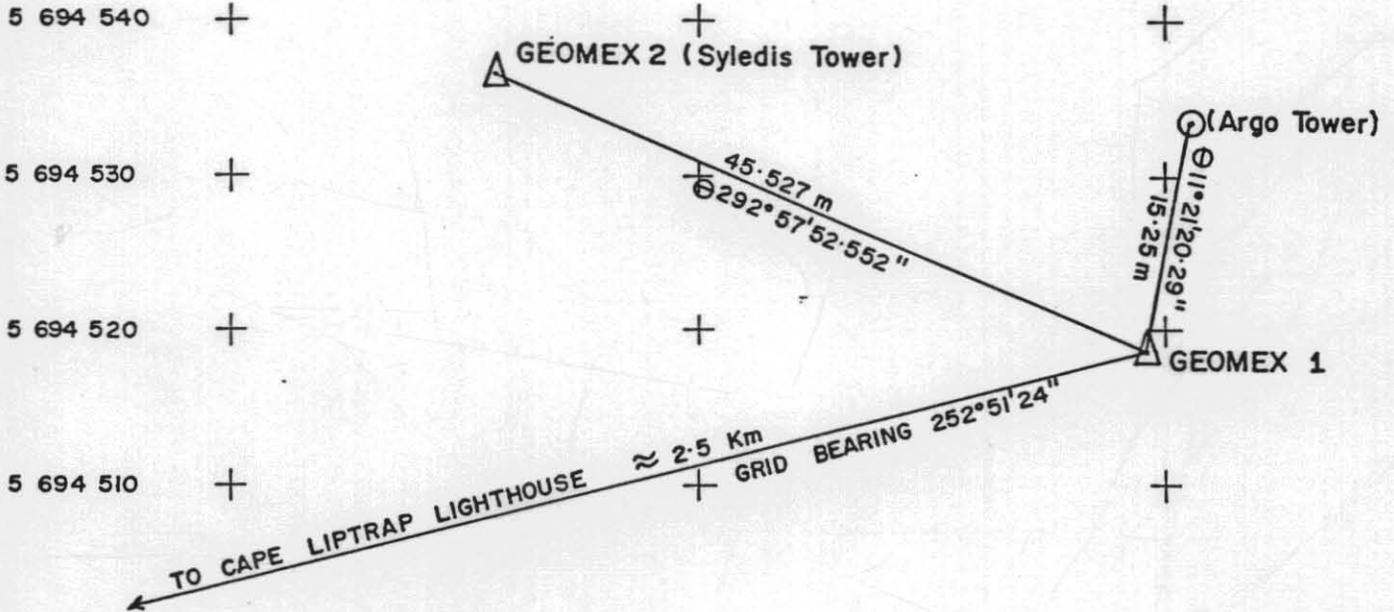
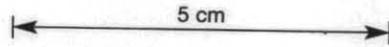
Argo Station

Latitude : 38° 53' 35.541" South
 Longitude : 145° 56' 53.404" East
 Easting : 408 781.818 m.
 Northing : 5 694 533.670 m.
 Height : 114.705 m.

NOTE: All co-ordinates refer to:-

Speroid : Australian National
 Datum : Australian Geodetic
 UTM Projection : Zone 55
 Central Meridian : 147° East
 Rectangular
 Co-ordinates : Australian Map Grid (in metres)
 Height : In metres above the Australian
 Height Datum

STATION DETAILS



| | <u>GEOMEX 1</u> | <u>GEOMEX 2</u> | <u>ARGO TOWER</u> |
|-----------|-----------------------|-----------------------|-----------------------|
| EASTING | 408778.815 m | 408736.896 m | 408781.818 m |
| NORTHING | 5694518.719 m | 5694536.482 m | 5694533.670 m |
| LATITUDE | 38° 53' 36.024" South | 38° 53' 35.433" South | 38° 53' 35.541" South |
| LONGITUDE | 145° 56' 53.272" East | 145° 56' 51.541" East | 145° 56' 53.404" East |
| HEIGHT | 113.865 m | 113.638 m | 114.705 m |

U.T.M. PROJECTION

ZONE 55. C.M. 147° E

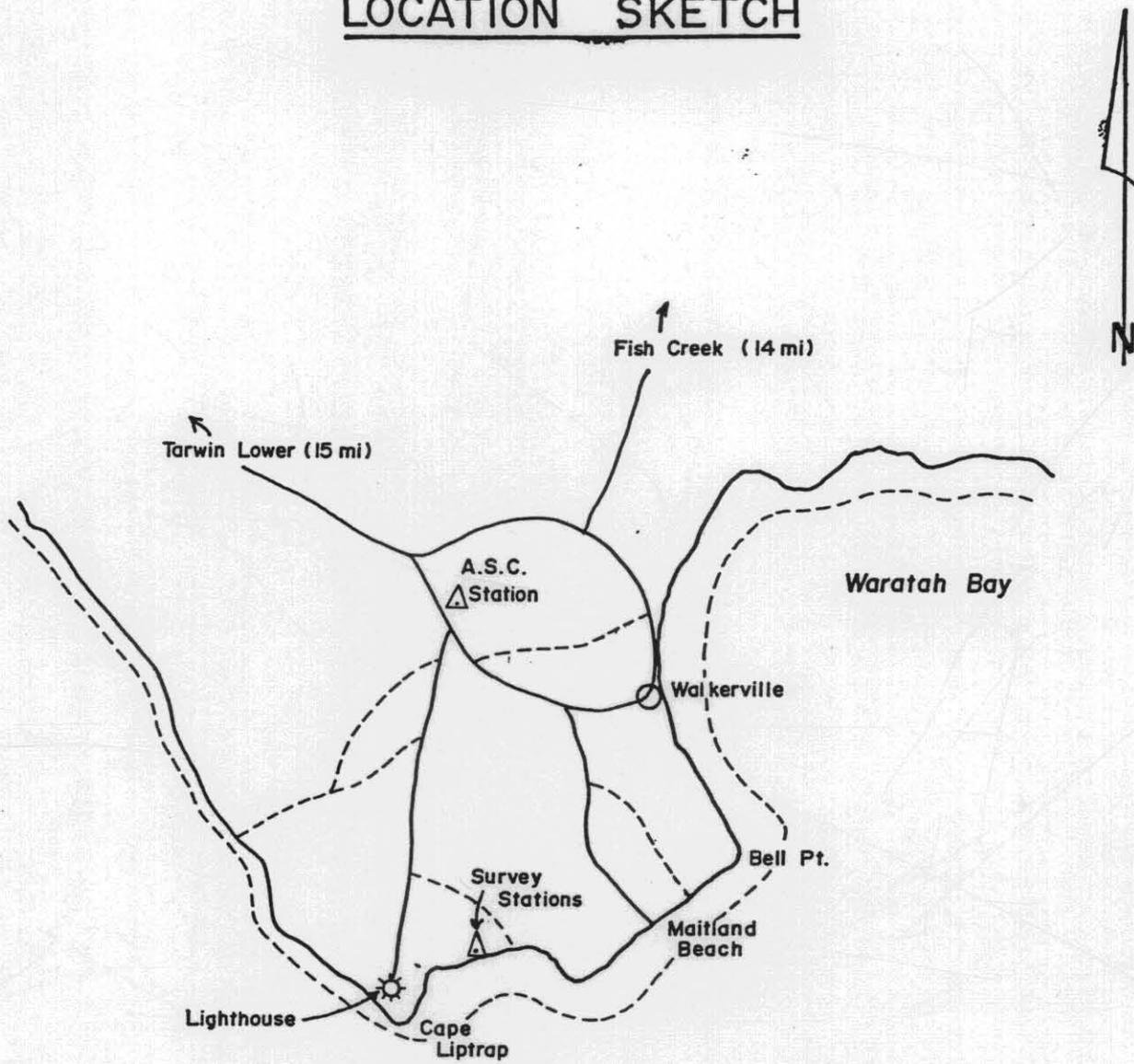
AUSTRALIAN GEODETIC DATUM.

408 720

408 750

408 780

LOCATION SKETCH



5 cm

STATION: NORTH POINT

LOCATION: The station is located near the township of Stanley, Circular Head, Tasmania, Southern Australia.

ACCESS: From Devonport head west along the Bass Highway for approximately two hours. Turn right towards Stanley and head towards the very obvious hill (The Nut). On reaching the township of Stanley turn left 50 m. before the B.P. Garage, then left again at the Union Hotel. Follow this road along the coast, towards the lighthouse. There is only one access track to the station. Use the diagram from here. From the Union Hotel the distance to the station is 8.6 km.

MARKERS: There are three (3) markers on the site:

- (1) GEOMEX 10/85 - 320 mm. block of concrete inscribed "GEOMEX 10/85" with a star picket protruding 1" above the concrete.
- (2) SYLED GEOMEX 10/85 - 240 mm block of concrete inscribed "GEOMEX 10/85"
- (3) ARGO 10/85 - 270 mm. block of concrete inscribed "ARGO 10/85".

GENERAL: A caravan is recommended for this site. Access can be made by 2 wheel-drive vehicle for most of the year except after heavy rains.

Food, fuel, water, etc. may be obtained from Stanley.

Permission to occupy the site must be obtained from Mr. David Bruce (tel: 004-581321). The local Ranger, Mr. Brian Carson (tel: 004-581320) has proved very useful in obtaining local labour and for general assistance.

STATION: NORTH POINT (Cont'd)

CO-ORDINATES: GEOMEX 10/85

Latitude: 40° 42' 50.472" South
 Longitude: 145° 15' 31.329" East
 Easting: 352 919.11 m.
 Northing: 5 491 514.85 m.
 Height: 5.5 m.

SYLED GEOMEX 10/85

Latitude: 40° 42' 51.396" South
 Longitude: 145° 15' 31.313" East
 Easting: 352 919.30 m.
 Northing: 5 491 486.36 m.

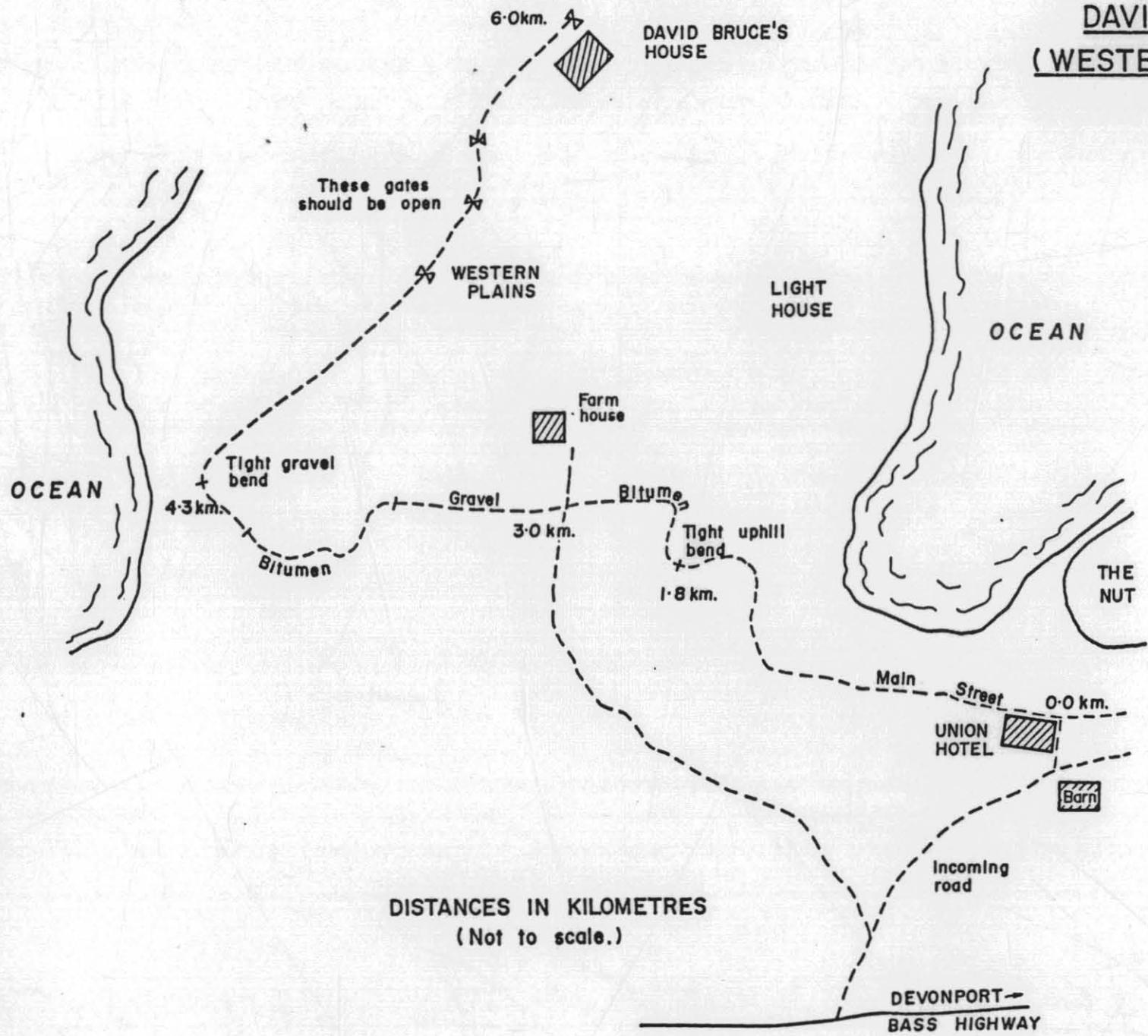
ARGO 10/85

Latitude: 40° 42' 52.146" South
 Longitude: 145° 15' 30.279" East
 Easting: 352 895.49 m.
 Northing: 5 491 462.76 m.

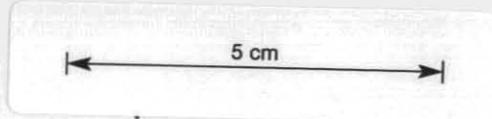
All co-ordinates refer to:

| | | |
|--------------------------|---|---|
| Spheroid | : | Australian National |
| Datum | : | Australian Geodetic |
| UTM Projection | : | Zone 55 |
| Central Meridian | : | 147° East |
| Rectangular Co-ordinates | : | Australian Map Grid (in m.) |
| Heights | : | In metres above the Australian Height Datum. |

ACCESS DIAGRAM TO
DAVID BRUCE'S PROPERTY
(WESTERN PLAINS) VIA STANLEY



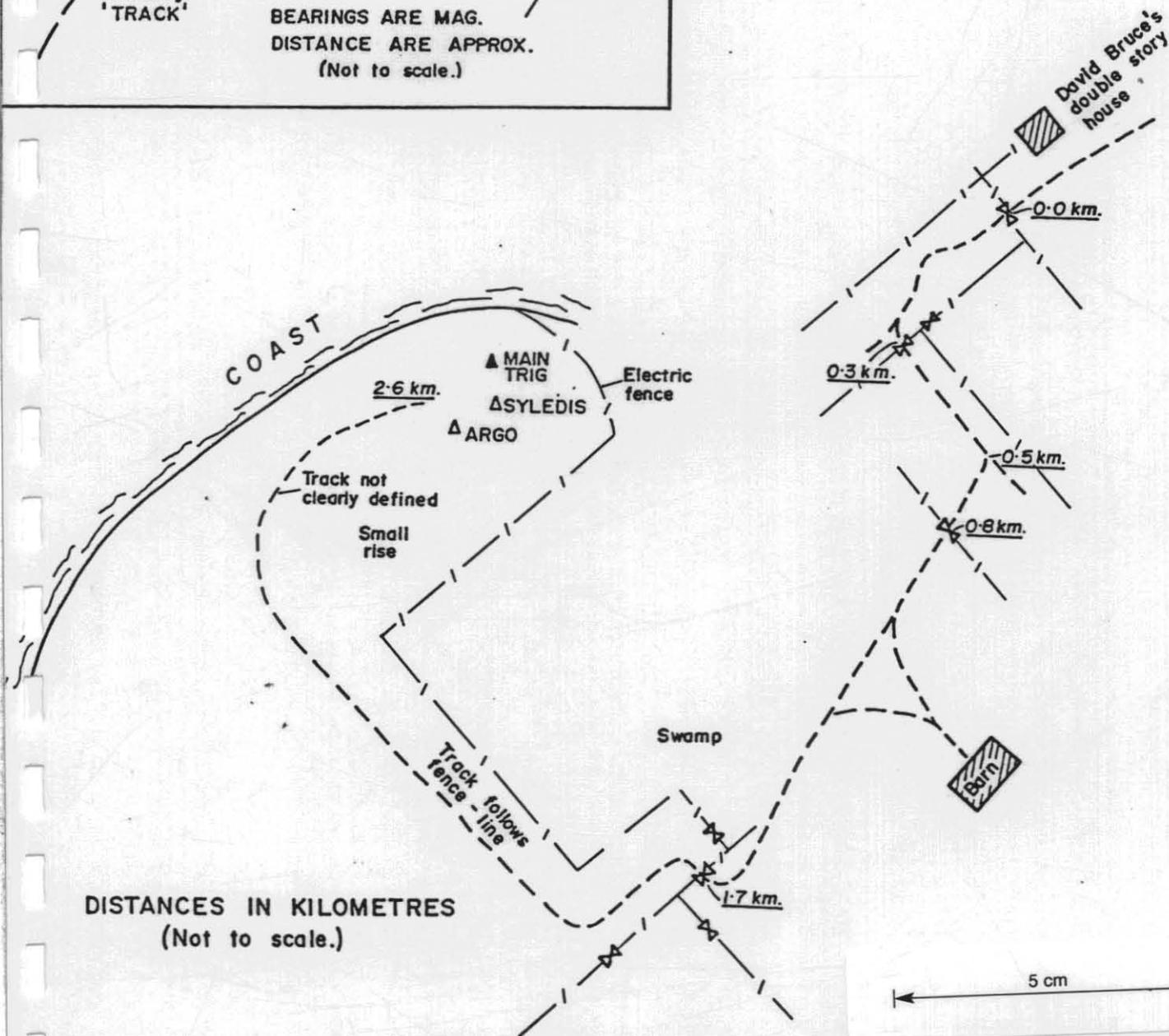
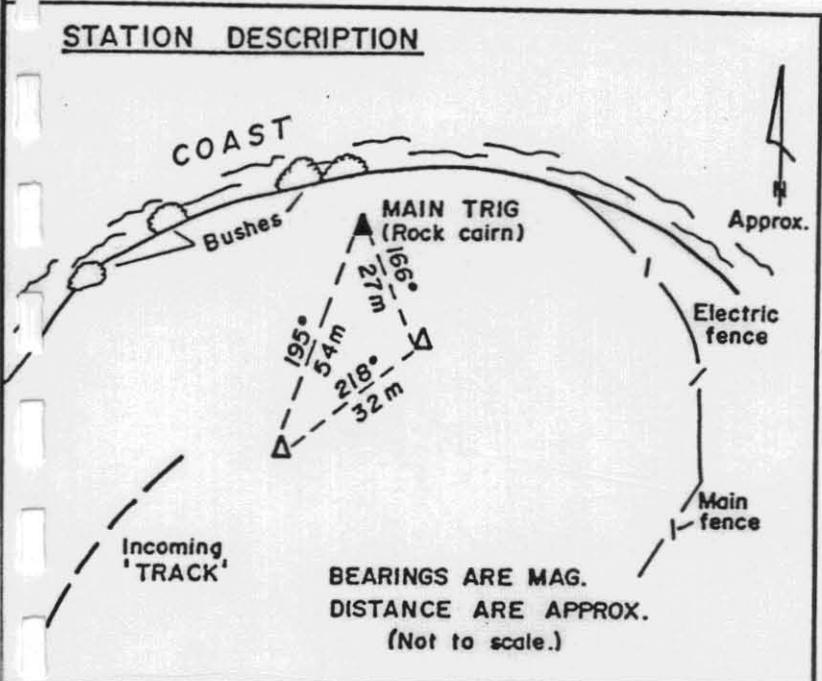
DISTANCES IN KILOMETRES
(Not to scale.)



446070

NORTH POINT STATION ACCESS DIAGRAM

STATION DESCRIPTION



STATION: NARACOOPA

LOCATED: Station NARACOOPA is located in the village of Naracoopa, approximately 20 km. from the town of Curry on King Island, in the Bass Strait, Southern Australia.

ACCESS: Follow the road from Curry towards Naracoopa, just before reaching Naracoopa, there is a turn-off to the right, signposted "Millbrook". Follow this road for 0.8 km. whence there is a property access to the left which is gated. Proceed through the gate and drive to the right around a small dam. The station is located in a small grass paddock on a ridge which is easily seen.

For most of the year a 4WD vehicle is required to reach the site. A tractor may be obtained to provide transport from Mr. D. Spittle (tel: 004-611206).

MARKERS: Two markers exist on the site, both consisting of brass plaques set in concrete. One plaque is inscribed "ONI Argo 1984" and the other "GSI Syledis 1984". The points are also marked with star pickets.

GENERAL: The property the stations are located on is owned by Mrs. Gail Henderson who should be contacted prior to occupying the site. She lives in Curry and as Curry is a small community, locating her is not a problem.

Assistance in establishing the station (e.g. employing local labour, etc.) may be obtained from Mr. Ian Whitehouse who also lives in Curry.

STATION: NARACOOPA (Cont'd)

GENERAL: Food, fuel, and small hardware items may be
(Cont'd) obtained from Curry. At present, a caravan is
located on the property, however, if not avail-
able there is a deserted house 175 m. from the
station which may be used as accomodation.
Contact Mrs. Henderson for details.

CO-ORDINATES: Marker "(281/150)"

Latitude: 39° 55' 27.64" South
Longitude: 144° 07' 26.23" East
Easting: 254 211 m.
Northing: 5 576 663 m.

Marker "ONI ARGO 1984"

Latitude: 39° 55' 29.05" South
Longitude: 144° 07' 39.03" East
Easting: 254 517 m.
Northing: 5 576 630 m.
Height: 55.9 m.

Marker "GSI Syledis 1984"

Latitude: 39° 55' 29.95" South
Longitude: 144° 07' 39.47" East
Easting: 254 528 m.
Northing: 5 576 603 m.
Height: 56 m.

All co-ordinates refer to:

| | | |
|--------------------------|---|---|
| Spheroid | : | Australian National |
| Datum | : | Australian Geodetic |
| UTM Projection | : | Zone 55 |
| Central Meridian | : | 147° East |
| Rectangular Co-ordinates | : | Australian Map Grid (in m.) |
| Heights | : | In metres above the Australian Height Datum. |

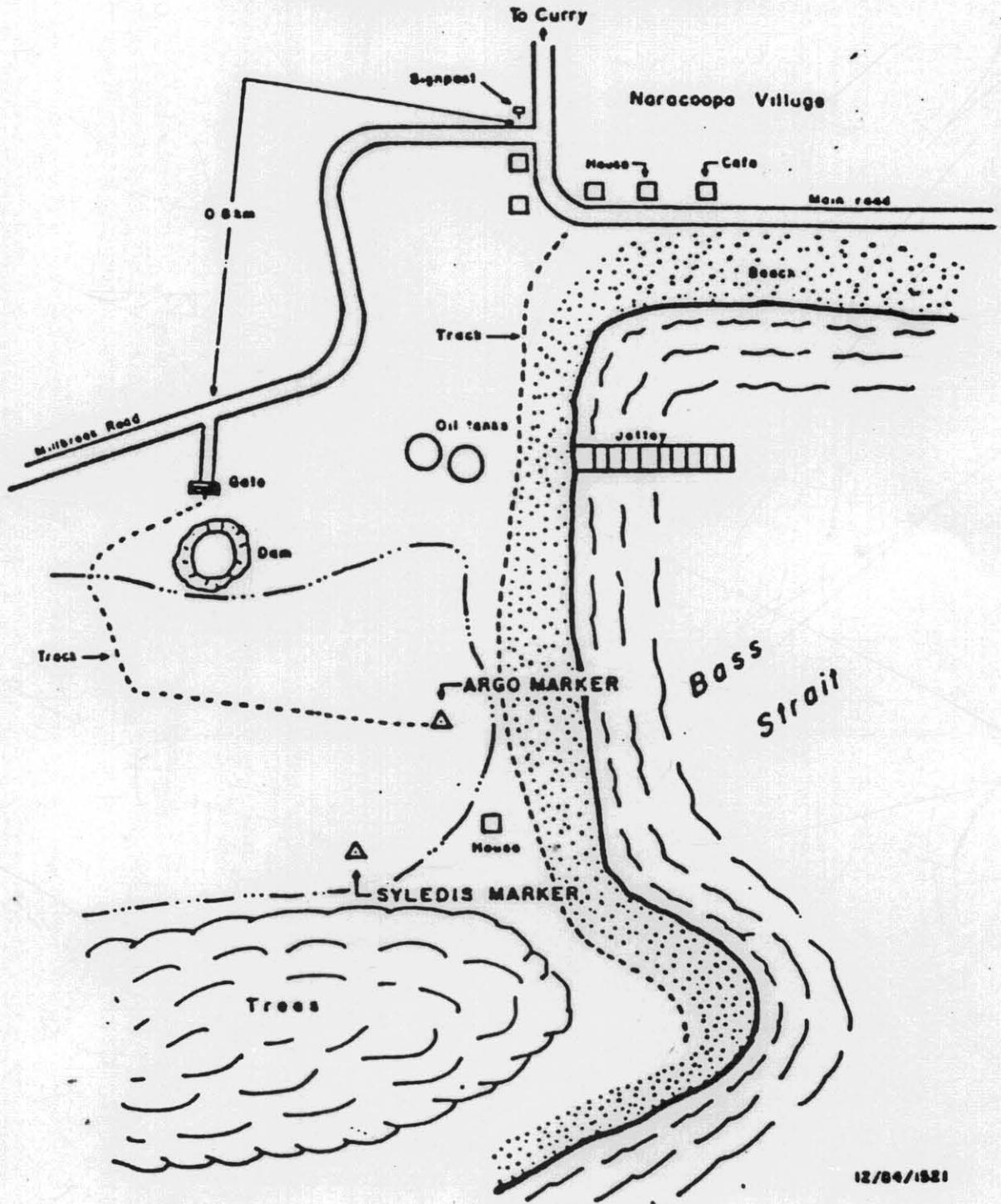
STA. NARACOOPA — AUSTRALIA

MARKER (281/150) COORDINATES

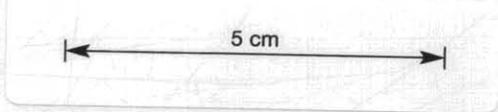
LAT. 39°58'27".64 S
LONG. 144°07'26".23 E
ELEV. Not reported

N 5,576,663 meters
E 254,211 meters

UTM PROJ. — AUST. NAT. SPHEROID
ZONE 55, C.M.147°E — A.G.D.



12/84/1521



STATION: POINT SORELL (ST. 517)

LOCATED: The station is located on the highest point of Point Sorell, which is 4.8 km. from Hawley Beach or 26 km. from the city of Devonport, Tasmania.

The station marker is located on a point, 150 m. from the water's edge. Vegetation around the site is made up of grass, with patches of 0.5m. high tussocks.

ACCESS: Access may be by two-wheel drive type vehicle unless there has been recent rain when a four-wheel drive vehicle will be needed.

From Devonport follow the Bass Highway towards Launceston for 2 km. past the East Devonport turn-off, then turn left at the Exeter/Port Sorell turn-off. Follow this road towards Port Sorell for approximately 12 km. to an intersection located approximately 2 km. before Port Sorell. Turn left at this intersection which is signposted "Hawley Caravan Park". Follow this road to Hawley Beach until a 'T' junction is reached. Turn left at this junction, just after making this turn, turn right onto a sealed road marked "Heavy Vehicles Only". Follow this road until another 'T' junction. Turn left and follow this road for approximately 700 metres to a white wooden gate. Immediately in front of the gate the road veers to the right. Follow this road until a road leads to left which is signposted "LHC Private Road". Turn left here and follow the road for approximately 100 m., then turn to the right. Directly ahead of you should be the residence of Mr. Roger Moncrieff. Continue on this road for a further 300 m. until a locked gate is reached. Obtain a key for this gate from the property owner, or if open follow

STATION: POINT SORELL (ST 517) (Cont'd)

ACCESS: the road to a set of double gates, near the
(Cont'd) council sewage pond. The station marker can
be seen about 2 km. from these gates. Mr. Roger
Moncrieff, the station owner (tel: 004-286193),
should be contacted before attempting to occupy
the site.

MARKER: The station marker located on a hill consists of
a brass mushroom S.P.M., which is not numbered,
is set in concrete at ground level, with stones
surrounding the marker.

The Maxiran station was erected approximately
1 metre at about 270° from the station marker.
A 3 metre quadrapod is erected over the station.

GENERAL: Mr. Roger Moncrieff may be able to assist with
the provision of labour. Labour, food, fuel,
supplies etc. may be obtained in Devonport.

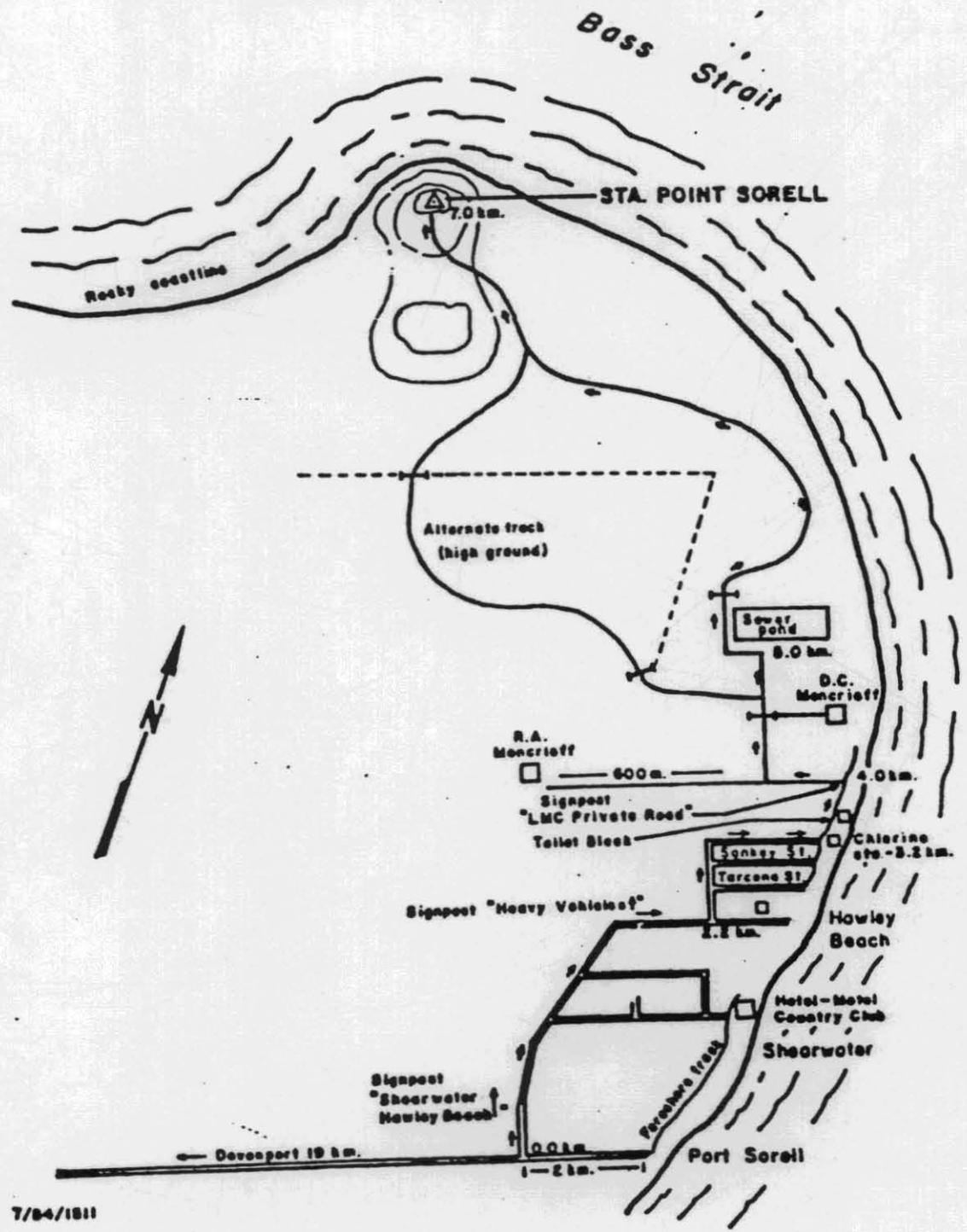
A caravan with heater is essential at this site
which may be obtained from "Devon Coastavans"
in Devonport. Although a 40 ft. tower has
been used on this station, a 20 ft. tower
should suffice.

STA. POINT SORELL (ST 517) — AUSTRALIA

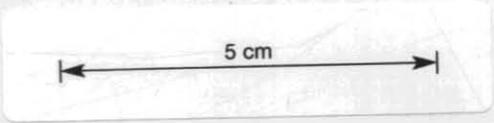
LAT. 41° 07' 24" 69 S
 LONG. 146° 31' 41" 08 E (MARKER COORDS.)
 ELEV. 30 meters

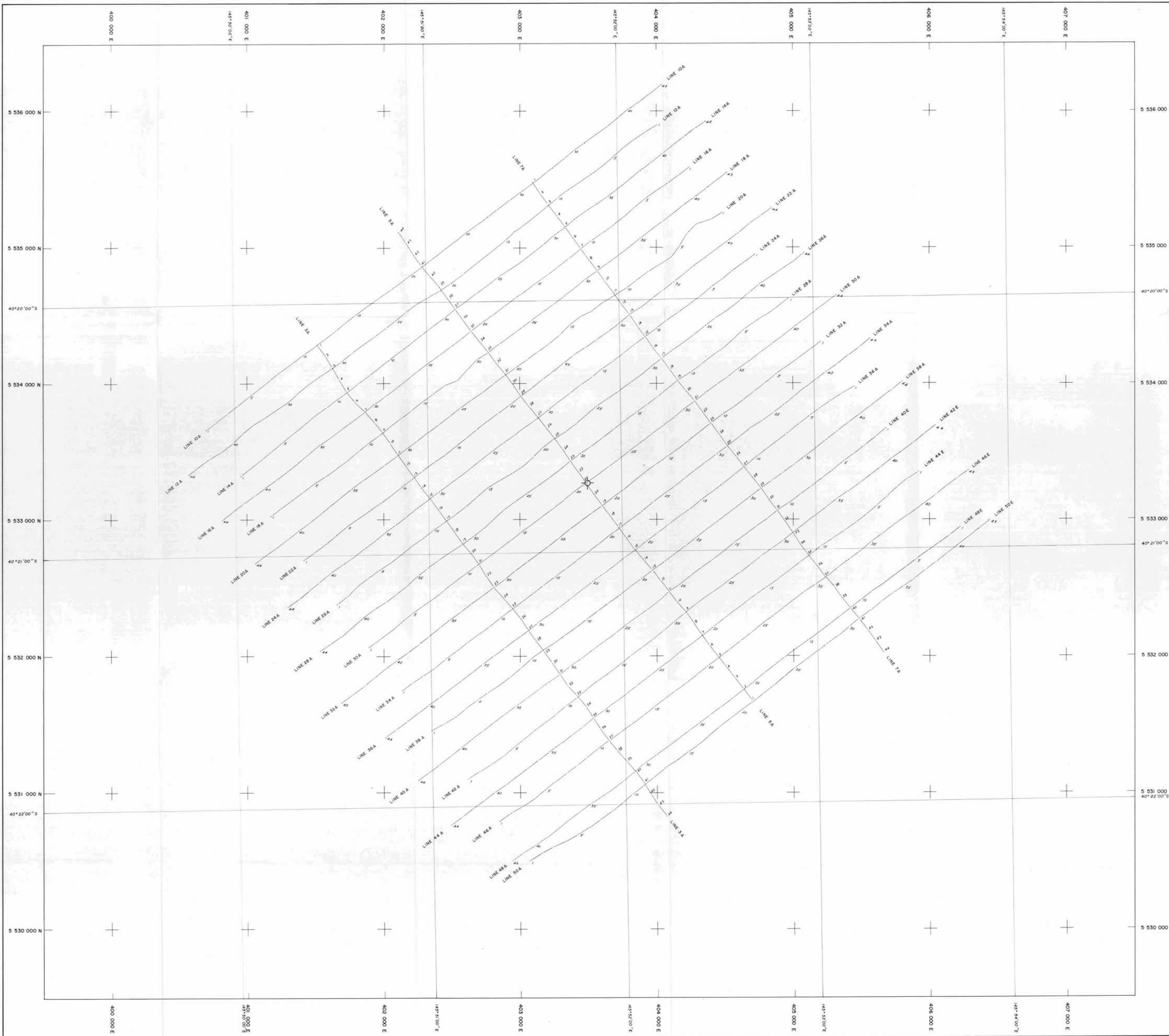
N 5,447,407 meters
 E 460,403 meters

UTM PROJ. — AUST. NAT. SPHEROID
 ZONE 55, C.M. 147° E — A.G.D.

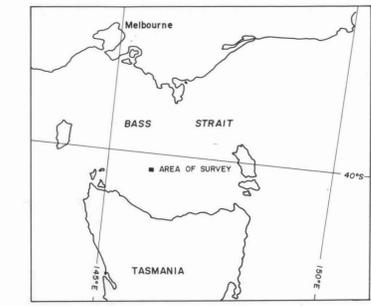


7/84/1811





LOCATION PLAN

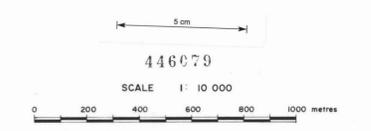


LEGEND:

- PELICAN N° 5 LOCATION.
- GEOGRAPHICAL**
40°20'43.56" SOUTH
145°51'49.21" EAST
- U.T.M.**
5 533 266-151 m NORTH
403 492-312 m EAST.
- VESSELS TRACK SHOWING FIX NUMBERS.

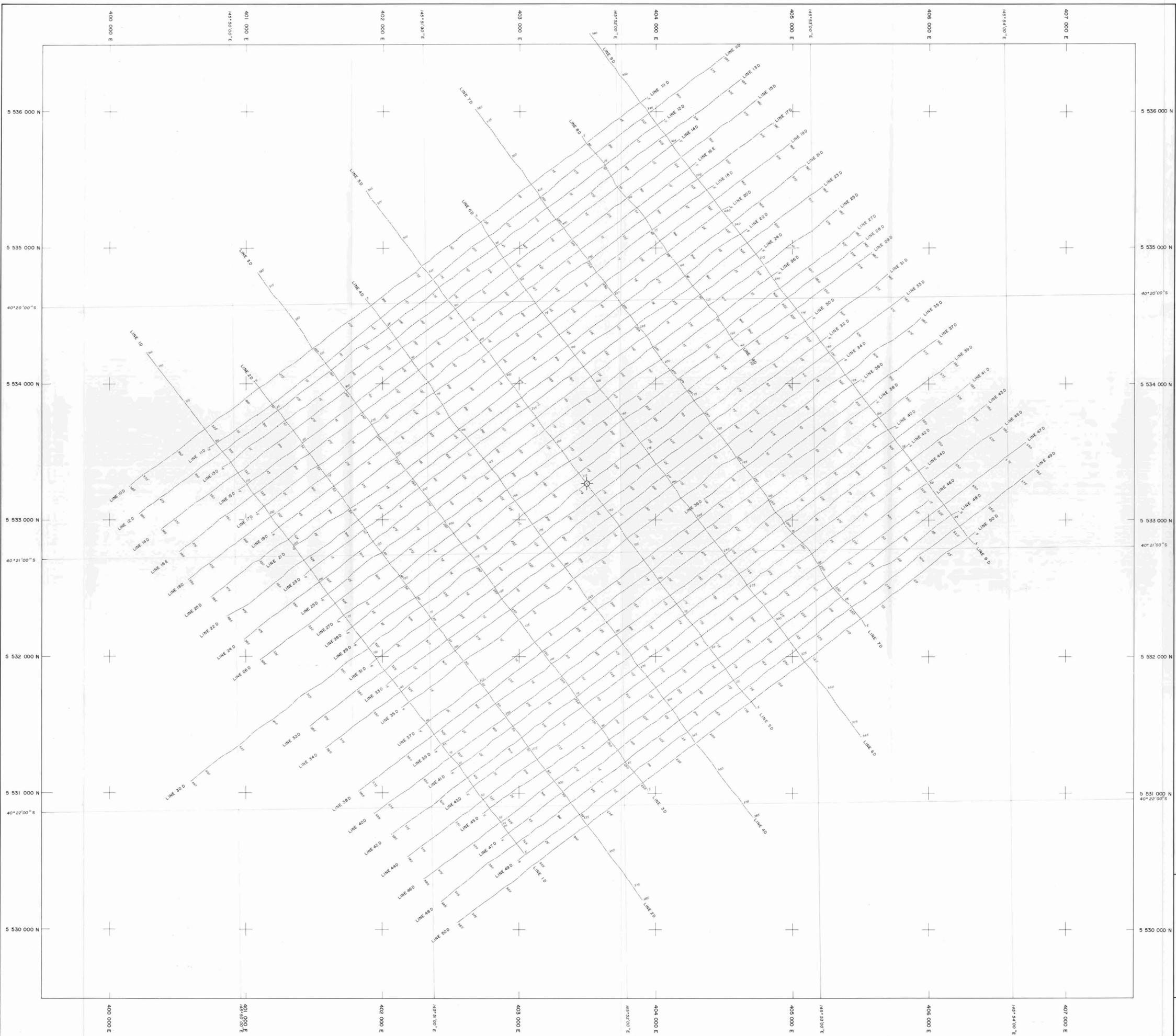
SURVEY DATA:

- DATUM: AUSTRALIAN GEODETIC.
- SPHEROID: AUSTRALIAN NATIONAL.
- PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
- CENTRAL MERIDIAN: 147° EAST
- FALSE NORTHING: 10 000 000 m AT EQUATOR.
- FALSE EASTINGS: 500 000 m AT C.M.

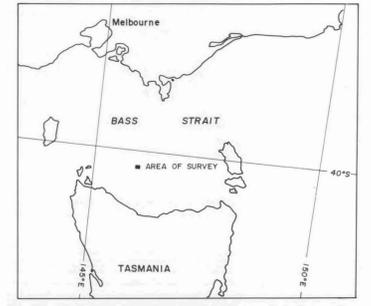


AMOCO AUSTRALIA PETROLEUM CO.
MARINE SITE SURVEY
PELICAN N° 5
ANALOG TRACK PLOT

MAP N° 1.



LOCATION PLAN

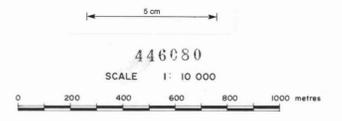


LEGEND:

- PELICAN N° 5 LOCATION.
- GEOGRAPHICAL** U.T.M.
- 40°30'43.58" SOUTH 5 533 266-151 m NORTH
- 145°51'49.21" EAST 403 492-312 m EAST.
- VESSELS TRACK SHOWING SHOT POINT NUMBER.

SURVEY DATA:

- DATUM: AUSTRALIAN GEODETIC.
- SPHEROID: AUSTRALIAN NATIONAL.
- PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
- CENTRAL MERIDIAN: 147° EAST
- FALSE NORTHING: 10 000 000 m AT EQUATOR.
- FALSE EASTINGS: 500 000 m AT C.M.

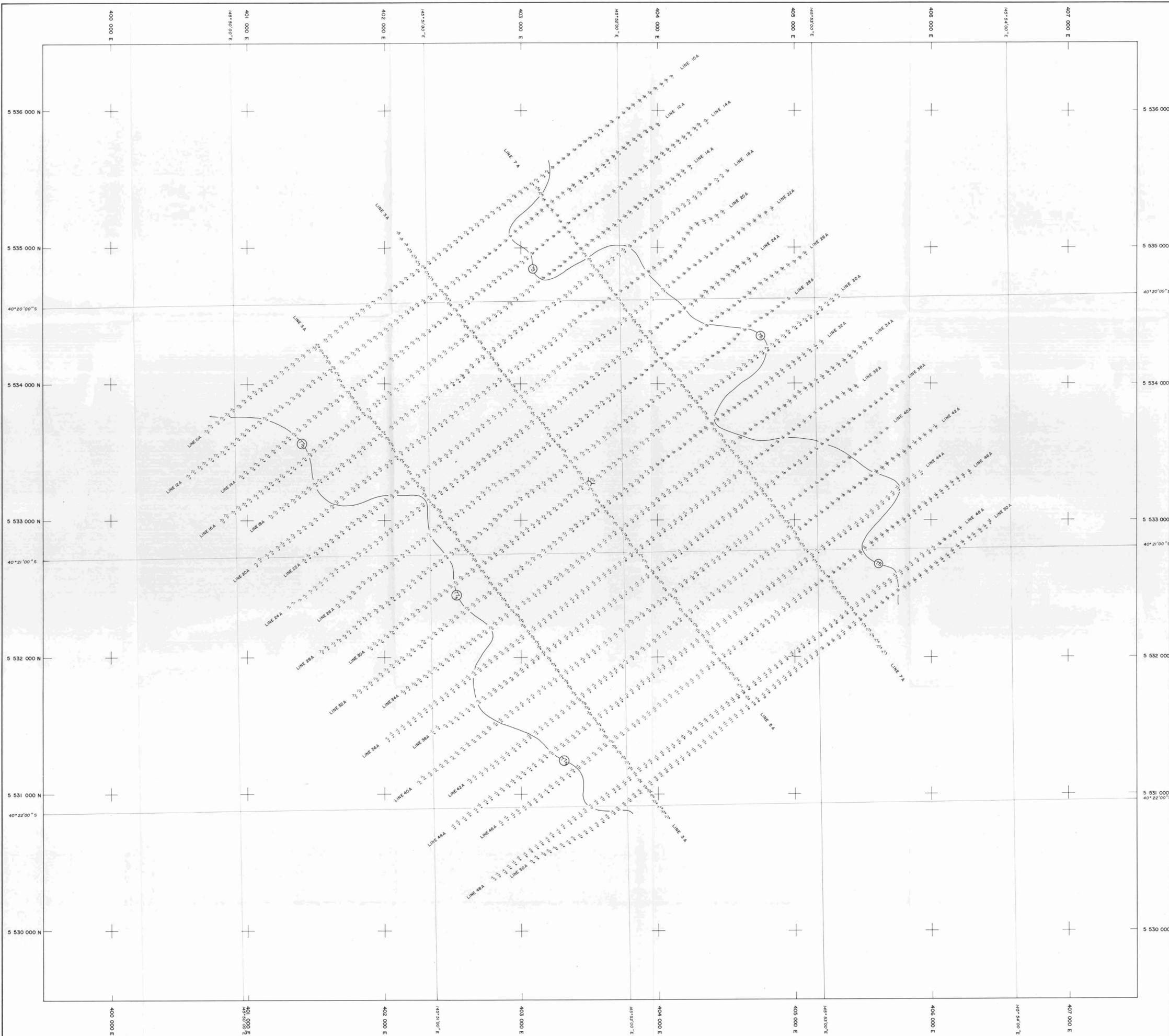


AMOCO AUSTRALIA PETROLEUM CO.
 MARINE SITE SURVEY
 PELICAN N° 5
 DIGITAL TRACK PLOT

MAP N° 2.



K108/85/AM



LOCATION PLAN



LEGEND:

- PELICAN N° 5 LOCATION.
- GEOGRAPHICAL**
40°20'43.58" SOUTH 145°51'49.21" EAST
- U.T.M.**
5 533 266.151 m NORTH 403 492.312 m EAST.
- SOUNDING IN METRES BELOW MEAN TIDAL LEVEL DURING SURVEY.
- SMOOTHED CONTOURS.

SURVEY DATA:

DATUM: AUSTRALIAN GEODETIC.
 SPHEROID: AUSTRALIAN NATIONAL.
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
 CENTRAL MERIDIAN: 147° EAST
 FALSE NORTHING: 10 000 000 m AT EQUATOR.
 FALSE EASTINGS: 500 000 m AT C.M.

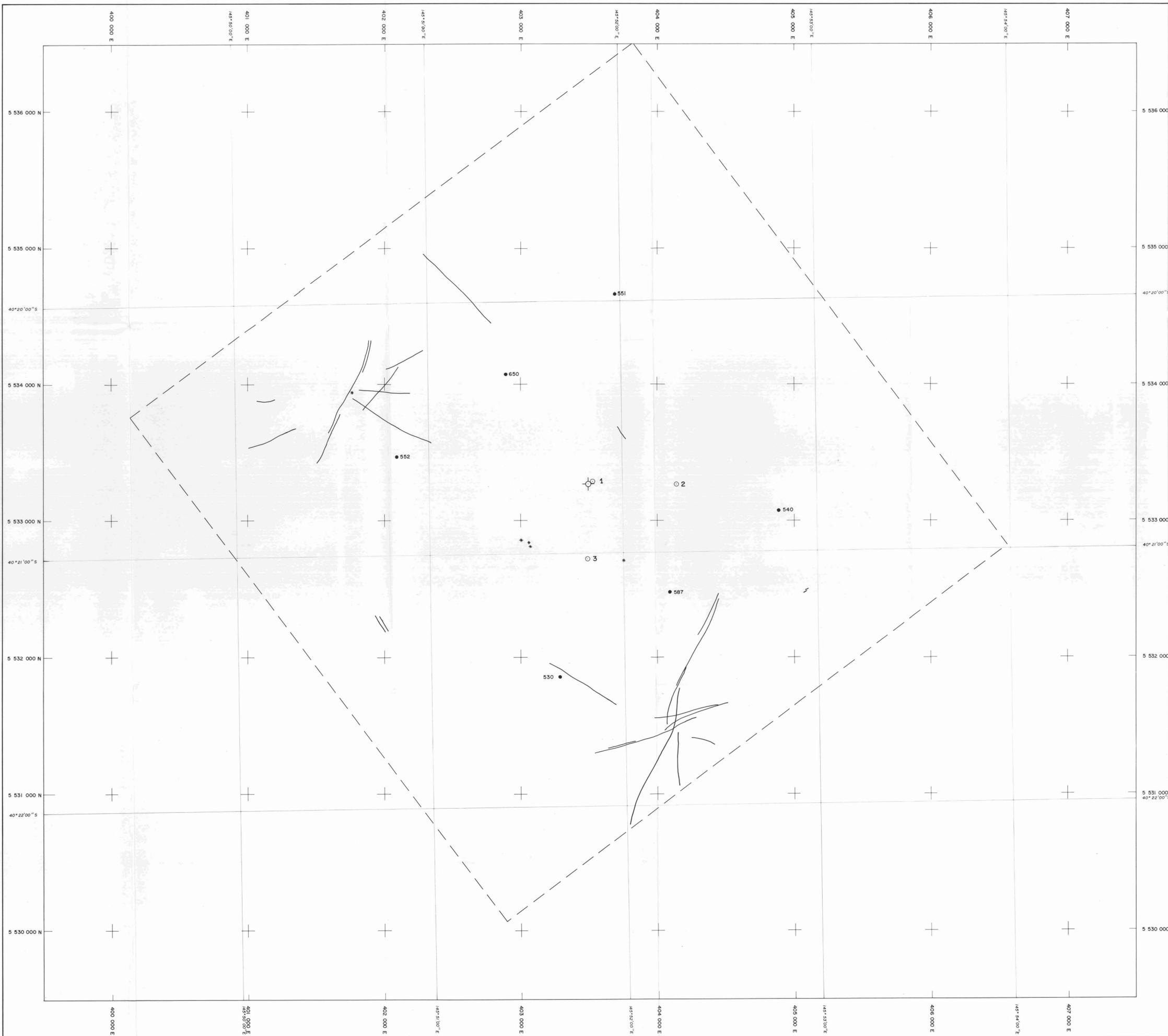


SCALE 1: 10 000
 0 200 400 600 800 1000 metres

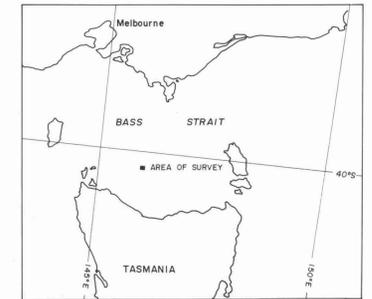
AMOCO AUSTRALIA PETROLEUM CO.
 MARINE SITE SURVEY
 PELICAN N° 5
 BATHYMETRIC PLAN
 446081

MAP N° 3.





LOCATION PLAN

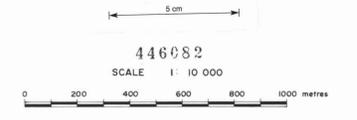


LEGEND:

- PELICAN N° 5 LOCATION.
- GEOGRAPHICAL**
40°20'43.98" SOUTH 5 533 266.151 m NORTH
145°51'49.21" EAST 403 492.312 m EAST.
- APPROXIMATE BOUNDARY OF AREA SCANNED BY SONAR.
- ANCHOR SCOUR OR TRAWL MARKS.
- MINOR POINT REFLECTORS - SMALL HOLES OR BUMPS.
- DROP CORE LOCATIONS.
- SEABED TRANSPONDER (AND SERIAL NUMBER).

SURVEY DATA:

DATUM: AUSTRALIAN GEODETIC.
 SPHEROID: AUSTRALIAN NATIONAL.
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
 CENTRAL MERIDIAN: 147° EAST
 FALSE NORTHING: 10 000 000 m AT EQUATOR.
 FALSE EASTINGS: 500 000 m AT C.M.



AMOCO AUSTRALIA PETROLEUM CO.
 MARINE SITE SURVEY
 PELICAN N° 5
 SEABED FEATURES

MAP N° 4.



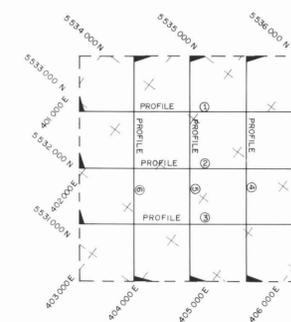
LOCATION PLAN



LEGEND:

- SEABED.
- REFLECTING HORIZONS (AND IDENTIFYING NUMBER).

LOCATION OF PROFILES:



SURVEY DATA:

DATUM: AUSTRALIAN GEODETIC.
 SPHEROID: AUSTRALIAN NATIONAL.
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
 CENTRAL MERIDIAN: 147° EAST.
 FALSE NORTHING: 10 000 000 m AT EQUATOR.
 FALSE EASTING: 500 000 m AT C.M.

HORIZONTAL SCALE 1:10 000
 VERTICAL SCALE 1:1 000



AMOCO AUSTRALIA PETROLEUM CO.

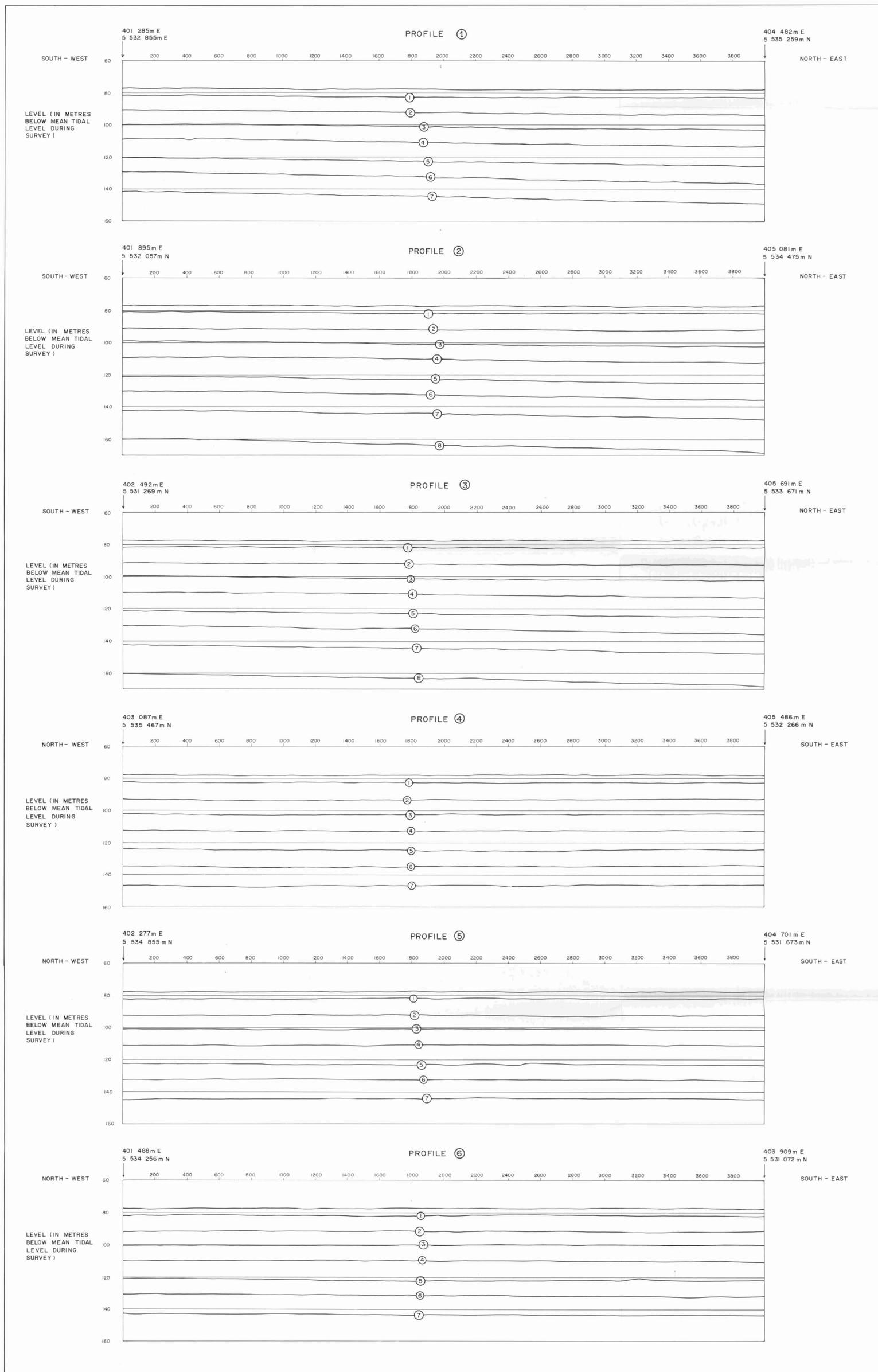
MARINE SITE SURVEY
 PELICAN N° 5

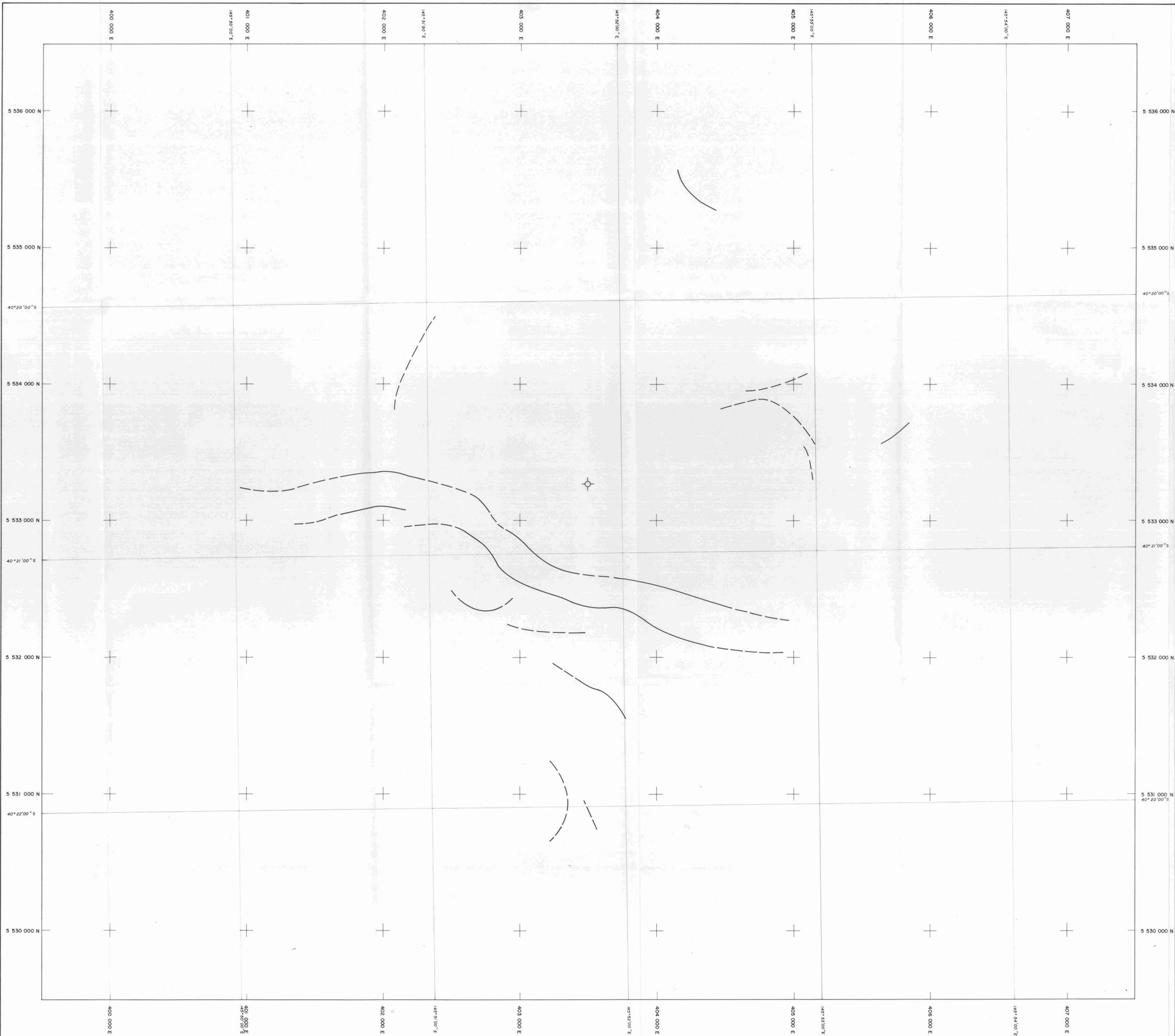
ANALOG SEISMIC SECTIONS
 446083

MAP N° 5.

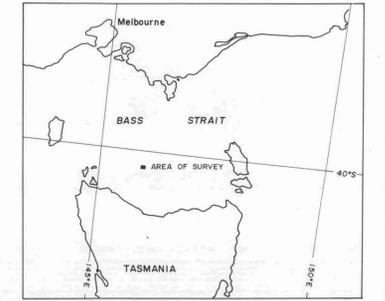


K108/85/AM





LOCATION PLAN



LEGEND:

-  PELICAN N° 5 LOCATION.
- GEOGRAPHICAL** **U.T.M.**
- 40°20'43.56" SOUTH 5 533 266.151 m NORTH
- 145°51'49.21" EAST 403 492.312 m EAST.
-  POSITION OF FAULT TRACE AT LEVEL OF REFLECTOR 16 (POSSIBLE COAL MEASURES).
-  INCIPIENT OR INFERRED FAULT.

SURVEY DATA:

- DATUM: AUSTRALIAN GEODETIC.
- SPHEROID: AUSTRALIAN NATIONAL.
- PROJECTION: UNIVERSAL TRANSVERSE MERCATOR (ZONE 55)
- CENTRAL MERIDIAN: 147° EAST
- FALSE NORTHING: 10 000 000 m AT EQUATOR.
- FALSE EASTINGS: 500 000 m AT C.M.



SCALE 1: 10 000
0 200 400 600 800 1000 metres

AMOCO AUSTRALIA PETROLEUM CO.

MARINE SITE SURVEY
PELICAN N° 5
FAULT TRACE PLAN
446084

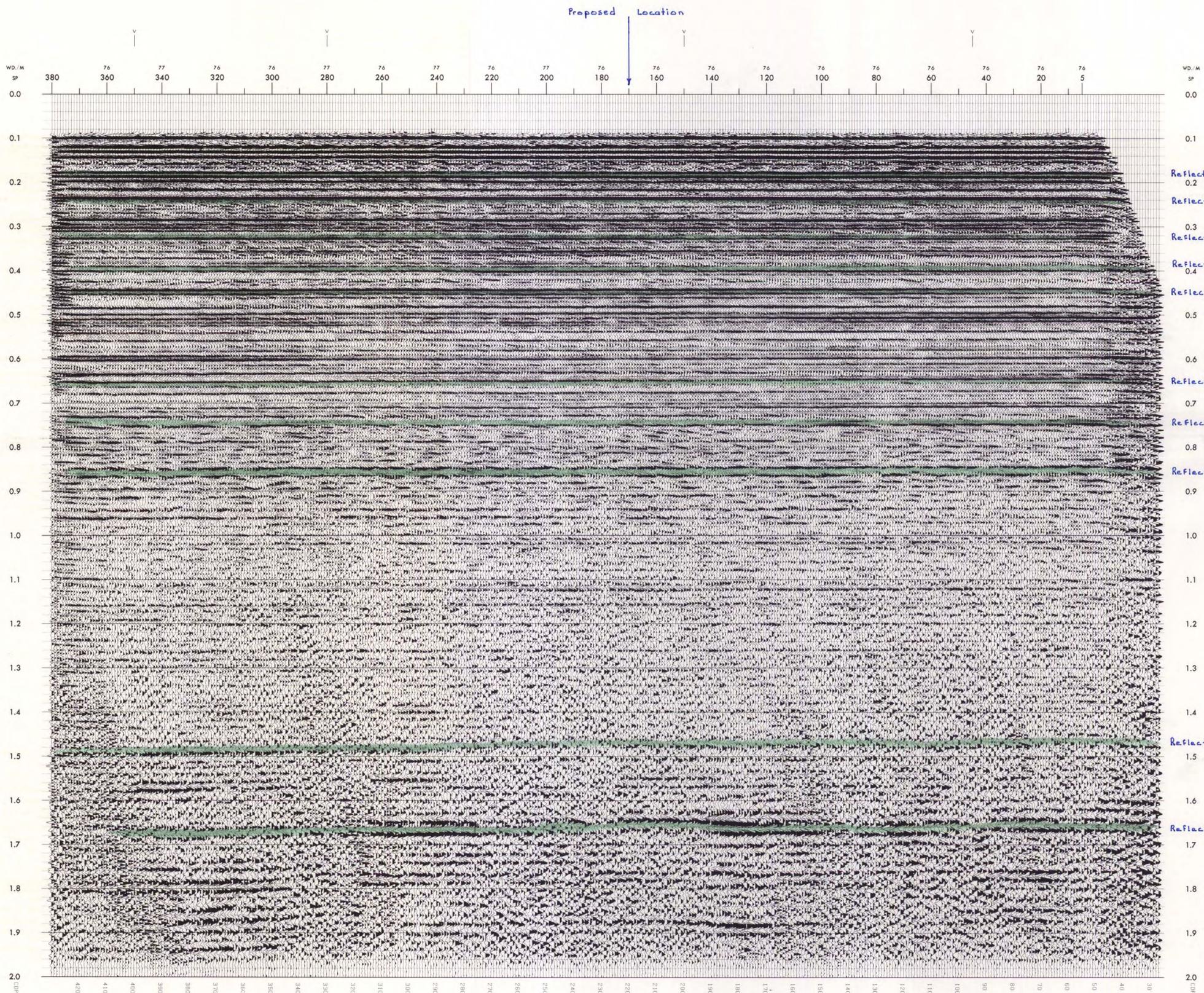
MAP N° 6

| SP 330 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 101 | 76 | 1500 | 1500 |
| 185 | 147 | 1588 | 1688 |
| 237 | 194 | 1646 | 1838 |
| 286 | 242 | 1700 | 1940 |
| 368 | 334 | 1833 | 2236 |
| 448 | 433 | 1963 | 2475 |
| 506 | 515 | 2082 | 2838 |
| 556 | 583 | 2146 | 2710 |
| 597 | 655 | 2177 | 2561 |
| 743 | 844 | 2328 | 2864 |
| 1321 | 1771 | 2748 | 3208 |
| 2000 | 3166 | 3299 | 4167 |

| SP 380 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 103 | 77 | 1500 | 1500 |
| 236 | 192 | 1633 | 1729 |
| 321 | 278 | 1740 | 2007 |
| 359 | 320 | 1798 | 2229 |
| 399 | 368 | 1870 | 2422 |
| 439 | 420 | 1946 | 2585 |
| 496 | 498 | 2052 | 2734 |
| 593 | 623 | 2145 | 2568 |
| 649 | 702 | 2214 | 2844 |
| 729 | 831 | 2346 | 3223 |
| 806 | 944 | 2409 | 2939 |
| 1116 | 1425 | 2620 | 3192 |
| 1256 | 1655 | 2703 | 3291 |
| 2000 | 3177 | 3288 | 4090 |

| SP 150 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 100 | 75 | 1500 | 1500 |
| 229 | 187 | 1637 | 1736 |
| 354 | 317 | 1807 | 2083 |
| 393 | 364 | 1877 | 2422 |
| 441 | 424 | 1952 | 2482 |
| 579 | 607 | 2138 | 2644 |
| 784 | 914 | 2393 | 2998 |
| 1486 | 2037 | 2803 | 3199 |
| 2000 | 3144 | 3284 | 4387 |

| SP 45 | | | |
|-------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 101 | 76 | 1500 | 1500 |
| 233 | 190 | 1639 | 1738 |
| 299 | 257 | 1733 | 2030 |
| 364 | 330 | 1832 | 2232 |
| 396 | 368 | 1883 | 2388 |
| 440 | 420 | 1938 | 2376 |
| 498 | 498 | 2038 | 2678 |
| 586 | 617 | 2151 | 2703 |
| 747 | 853 | 2342 | 2934 |
| 908 | 1107 | 2504 | 3148 |
| 1315 | 1819 | 2850 | 3501 |
| 1564 | 1921 | 2907 | 4154 |
| 2000 | 3195 | 3297 | 4007 |



446085 MAP NO. 7
 Seiscom Delta United

PELICAN SPARKER SURVEY
 Line: 5D
 Shotpoints: 5 - 385
 Area: T - 22 Bass Strait
 Location: PELICAN #5
 Client: AMOCO AUSTRALIA PETROLEUM
 Process: STACK
 SE

Acquisition: Geomex DATE: 15 NOV. 1985
 SHIP: M/V SPRIGHTLY
 PARTY NUMBER: N/A
 ENERGY SOURCE: SPARKER
 type: 323 degrees
 direction of shooting: 12.5 m
 pop interval: 3 m
 source depth: 3 m
 RECEIVING ARRANGEMENT:
 fold of recording: 24
 no. of groups: 24 interval 25 m
 cable length: 600 m depth 3 m
 near trace: 24 offset 55 m
 INSTRUMENTATION:
 recording system: DFS-V
 filters: low cut 27 Hz slope 18 dB/octave
 high cut 256 Hz slope 70 dB/octave
 record format: SEGB
 record length: 2 s
 sample interval: 1 ms
 compression produces: negative number
 POSITIONING: ARGO

Processing: SEISCOM DELTA INC. DATE: DEC. 1985
 CENTER: MELBOURNE, AUSTRALIA
 COMPUTER SYSTEM: MEGASEIS
 INITIAL PROCESS:
 demultiplex 2.0 s
 sample interval 1 ms
 SIGNATURE CORRECTION:
 deterministic wavelet shaping direct arrival trace 24
 output bandwidth 27 - 200 Hz
 PULSE COMPRESSION:
 statistical wavelet shaping
 output bandwidth 27 - 200 Hz
 DATUM STATICS:
 static corrections for source and hydrophone depths
 water velocity 1500 m/s
 VELOCITY ANALYSES:
 velocities from Seiscom s Velocity Spectra
 computed every 2 Km
 STACK:
 type standard CDP
 fold 24
 FILTER: time variant - linearly interpolated
 apply time filter
 0.0 s 36/36 - 160/70; Hz/dB per octave
 0.5 s 36/36 - 160/70; Hz/dB per octave
 1.2 s 36/36 - 130/70; Hz/dB per octave
 2.0 s 45/18 - 120/70; Hz/dB per octave
 TAB:
 time variant trace amplitude balancing
 gate length 1000 ms
 DISPLAY SYSTEM: SEISCHROME II
 type true amplitude
 vertical scale 20 cm/s
 horizontal scale 1:10,000
 peaks represent positive digital numbers
 shot points annotated on antenna position
 SDU Geophysicist: J. Poceratto

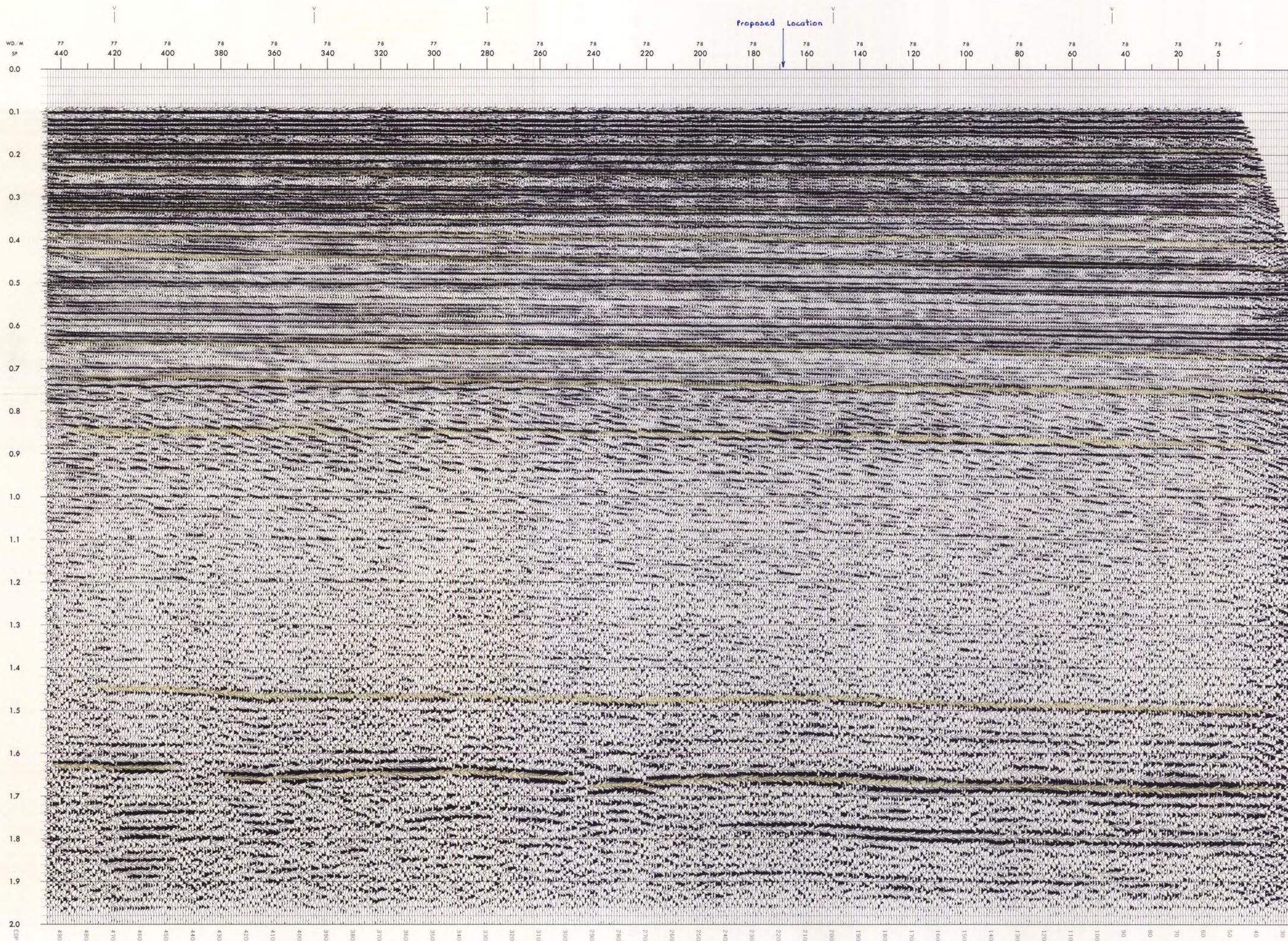
| SP 420 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 103 | 77 | 1500 | 1500 |
| 225 | 183 | 1632 | 1736 |
| 356 | 318 | 1801 | 2059 |
| 410 | 384 | 1899 | 2449 |
| 475 | 468 | 2008 | 2592 |
| 576 | 596 | 2109 | 2531 |
| 739 | 818 | 2258 | 2720 |
| 771 | 879 | 2346 | 2855 |
| 1468 | 1950 | 2715 | 3072 |
| 2000 | 3084 | 3200 | 4261 |

| SP 345 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 104 | 78 | 1500 | 1500 |
| 231 | 190 | 1646 | 1757 |
| 288 | 247 | 1726 | 2018 |
| 355 | 321 | 1828 | 2214 |
| 408 | 382 | 1896 | 2300 |
| 498 | 498 | 2035 | 2573 |
| 547 | 562 | 2095 | 2628 |
| 586 | 615 | 2139 | 2681 |
| 631 | 676 | 2188 | 2747 |
| 833 | 929 | 2469 | 3191 |
| 1096 | 1415 | 2652 | 3162 |
| 1197 | 1576 | 2703 | 3205 |
| 1468 | 2075 | 2908 | 3679 |
| 2000 | 3111 | 3200 | 3894 |

| SP 280 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 104 | 78 | 1500 | 1500 |
| 238 | 194 | 1637 | 1736 |
| 360 | 322 | 1802 | 2087 |
| 407 | 379 | 1884 | 2422 |
| 434 | 409 | 1911 | 2280 |
| 477 | 466 | 1990 | 2659 |
| 512 | 514 | 2046 | 2696 |
| 639 | 684 | 2186 | 2677 |
| 737 | 817 | 2264 | 2718 |
| 801 | 929 | 2427 | 3033 |
| 1038 | 1313 | 2611 | 3154 |
| 1368 | 1930 | 2922 | 3735 |
| 1479 | 2055 | 2918 | 3587 |
| 2000 | 3108 | 3200 | 3891 |

| SP 150 | | | |
|--------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 104 | 78 | 1500 | 1500 |
| 194 | 152 | 1573 | 1653 |
| 238 | 195 | 1644 | 1926 |
| 290 | 245 | 1701 | 1941 |
| 364 | 323 | 1789 | 2099 |
| 396 | 364 | 1862 | 2549 |
| 443 | 419 | 1921 | 2360 |
| 487 | 480 | 2010 | 2750 |
| 597 | 626 | 2143 | 2653 |
| 636 | 686 | 2215 | 3116 |
| 740 | 824 | 2280 | 2643 |
| 1347 | 1858 | 2844 | 3408 |
| 1479 | 2055 | 2918 | 3587 |
| 2000 | 3108 | 3200 | 3891 |

| SP 45 | | | |
|-------|-------|-------|-------|
| TIME | DEPTH | V-RMS | V-INT |
| MS | M | M/S | M/S |
| 4 | 3 | 1500 | 1500 |
| 104 | 78 | 1500 | 1500 |
| 247 | 202 | 1638 | 1731 |
| 298 | 255 | 1706 | 2003 |
| 370 | 331 | 1806 | 2171 |
| 417 | 386 | 1871 | 2320 |
| 450 | 433 | 1942 | 2628 |
| 489 | 485 | 2025 | 2871 |
| 549 | 564 | 2103 | 2655 |
| 608 | 635 | 2134 | 2403 |
| 658 | 718 | 2214 | 3300 |
| 717 | 808 | 2324 | 3078 |
| 908 | 1144 | 2620 | 3515 |
| 1342 | 1872 | 2878 | 3354 |
| 2000 | 3113 | 3200 | 3772 |



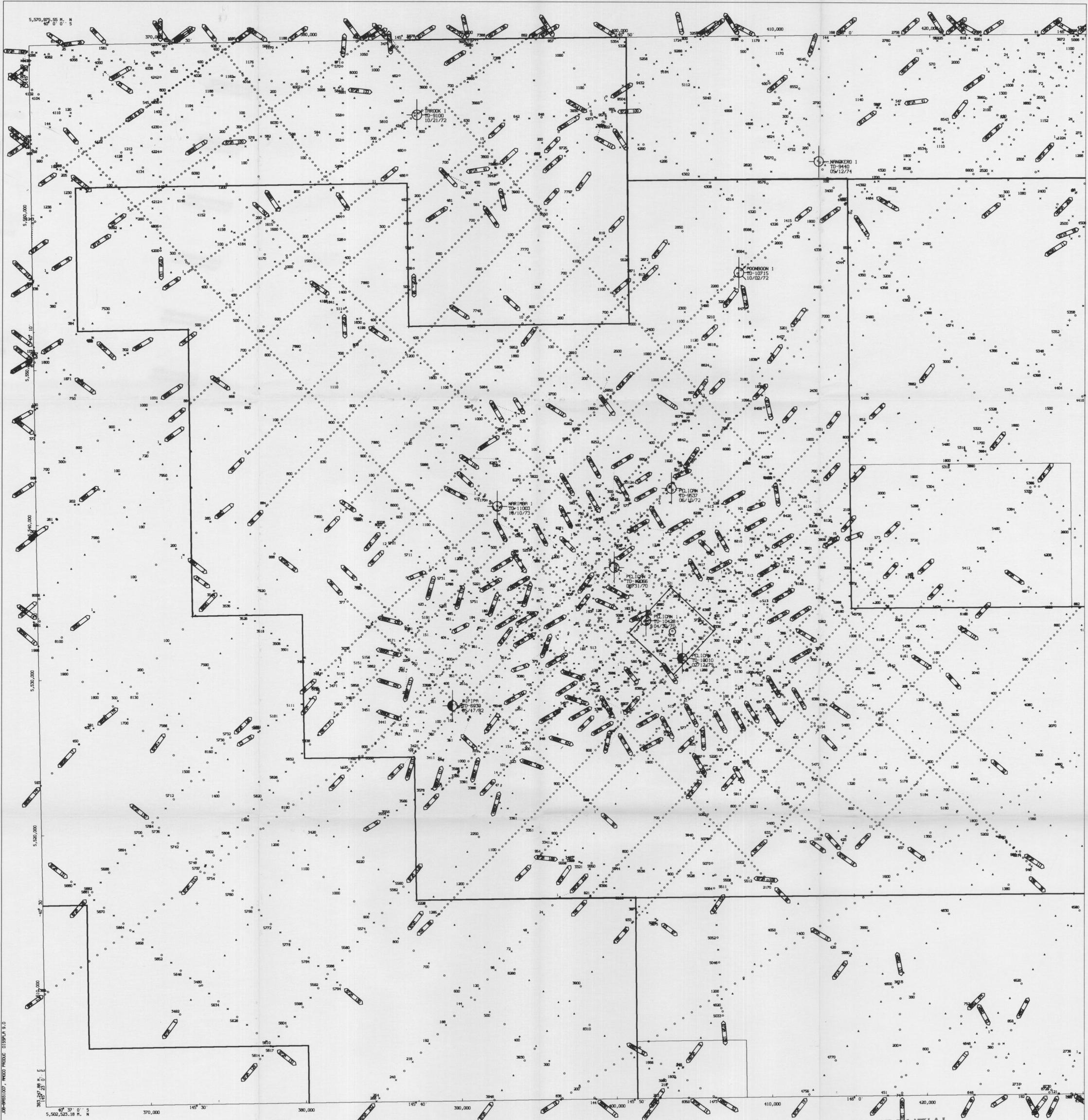
446086 MAP NO. 8



PELICAN SPARKER SURVEY
 Line: 30
 Shotpoints: 5 - 450
 Area: T - 22 Bass Strait
 Location: PELICAN #5
 Client: AMOCO AUSTRALIA PETROLEUM
 Process: STACK
 NE

Acquisition: Geomex
 SHIP: M/V SPRIGHTLY
 PARTY NUMBER: N/A
 ENERGY SOURCE: SPARKER
 type: 233 degrees
 direction of shooting: 12.5 m
 pop interval: 3 m
 source depth:
 RECEIVING ARRANGEMENT:
 fold of recording: 24
 no. of groups: 24 interval 25 m
 cable length: 600 m depth 3 m
 near trace: 24 offset 55 m
 INSTRUMENTATION:
 recording system: DFS-V
 filters: low cut: 27 Hz slope 18 dB/octave
 high cut: 256 Hz slope 70 dB/octave
 record format: SEGB
 record length: 2 s
 sample interval: 1 ms
 compression produces: negative number
 POSITIONING: ARGO

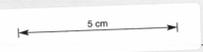
Processing: SEISCOM DELTA INC.
 CENTER: MELBOURNE, AUSTRALIA
 COMPUTER SYSTEM: MEGASEIS
 DATE: DEC. 1985
 INITIAL PROCESS:
 demultiplex: 2.0 s
 sample interval: 1 ms
 SIGNATURE CORRECTION:
 deterministic wavelet shaping: direct arrival trace 24
 output bandwidth: 27 - 200 Hz
 PULSE COMPRESSION:
 statistical wavelet shaping:
 output bandwidth: 27 - 200 Hz
 DATUM STATICS:
 static corrections: for source and hydrophone depths
 water velocity: 1500 m/s
 VELOCITY ANALYSES:
 velocities: from Seiscom s Velocity Spectra
 computed every: 2 Km
 STACK:
 type: standard CDP
 fold: 24
 FILTER: time variant - linearly interpolated
 apply time: filter
 0.0 s: 36/36 - 160/70; Hz/dB per octave
 0.5 s: 36/36 - 160/70; Hz/dB per octave
 1.2 s: 36/36 - 130/70; Hz/dB per octave
 2.0 s: 45/18 - 120/70; Hz/dB per octave
 TAB:
 time variant trace amplitude balancing
 gate length: 1000 ms
 DISPLAY SYSTEM: SEISCHROME II
 type: true amplitude
 vertical scale: 20 cm/s
 horizontal scale: 1:10,000
 peaks represent: positive digital numbers
 shot points annotated on antenna position
 SDU Geophysicist: J. Pacciaro



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UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 SPHEROID - 17
 CENTRAL MERIDIAN - 145° 0' 0" E. LONG. SCALE FACTOR - 0.99999999

CONFIDENTIAL CLASS 1 446087
 XU 8593-1
 MAP NO. 9
 Amoco Australia Petroleum Company
**PELICAN-5 (PROPOSED)
 SITE SURVEY PROGRAM**



446088

ENCLOSURE A

WATER ANALYSIS REPORT



**The Australian
Mineral Development
Laboratories**

Flemington Street, Frewville,
South Australia 5063
Phone Adelaide (08) 79 1662
Telex AA82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

446089

Pelican-5

R150/86

amdel

3/786/0 - AC 4919/86

27 June 1986

NATA CERTIFICATE

Mr C Cornell
Amoco Australia Petroleum Company
GPO Box 1470R
HOBART TASMANIA 7001



REPORT AC 4919/86

YOUR REFERENCE:

LPO Number 1659

REPORT COMPRISING:

Cover sheet
Pages W1 - W7
7 Diagrams

DATE RECEIVED:

2 June 1986

NOTE:

Sample labelled 4-1 Cond. sample from
end of 8 Hr flow. No water was
extractable from this sample to carry
out water analysis.

Approved Signatory:

Martin R. Hanckel

Manager, Chemistry Services

for Dr William G. Spencer
General Manager
Applied Sciences Group

cc Mr W C Cowan
Amoco Australia Petroleum Company
PO Box 126
NORTH SYDNEY NSW 2060 (6 copies)

cc Mr R J Giguere - MC 2.478
Amoco Production Company
PO Box 3092
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Telephone (02) 439 7735
Telex: Amdel AA20053
Townsville
Queensland 4814
Telephone (077) 75 1377



SAMPLE ID. PELICAN 5 6-1

| CHEMICAL COMPOSITION | | | DERIVED DATA | |
|-------------------------|------|-------|-----------------------------------|----------------|
| | MG/L | ME/L | | MG/L |
| CATIONS | | | | |
| CALCIUM (CA) | 85.0 | 4.24 | TOTAL DISSOLVED SOLIDS | |
| MAGNESIUM (MG) | 7.40 | 0.609 | A. BASED ON E.C. | |
| SODIUM (NA) | 3210 | 140 | B. CALCULATED (HCO3=CO3) | |
| POTASSIUM (K) | 117 | 2.99 | | |
| ANIONS | | | | |
| HYDROXIDE (OH) | | | TOTAL HARDNESS | |
| CARBONATE (CO3) | | | CARBONATE HARDNESS | |
| BICARBONATE (HCO3) | 3590 | 58.8 | NON-CARBONATE HARDNESS | |
| SULPHATE (SO4) | 420 | 8.75 | TOTAL ALKALINITY | |
| CHLORIDE (CL) | 2780 | 78.4 | (EACH AS CACO3) | |
| NITRATE (NO3) | <4.0 | | | |
| TOTALS AND BALANCE | | | | |
| | | | CATIONS (ME/L) | 147 DIFF= 1.52 |
| | | | ANIONS (ME/L) | 146 SUM = 293 |
| | | | DIFF*100./SUM = 0.519% | |
| | | | SODIUM / TOTAL CATION RATIO 94.7% | |
| REMARKS | | | | |
| ----- | | | | |
| REACTION - PH | | | 7.8 | |
| CONDUCTIVITY (E.C.) | | | | |
| MICRO-S/CM AT 25 C | | | 12800 | |
| RESISTIVITY OHM.M @ 25C | | | 0.781 | |
| | | | NOTE: MG/L = MILLIGRAMS PER LITRE | |
| | | | ME/L = MILLIEQUIVS. PER LITRE | |

NAME- W.C. COWAN
 ADDRESS- AMOCO AUSTRALIA
 P.O. BOX 126
 NORTH SYDNEY NSW 2060
 DATE COLLECTED 12/4/86
 DATE RECEIVED
 COLLECTED BY



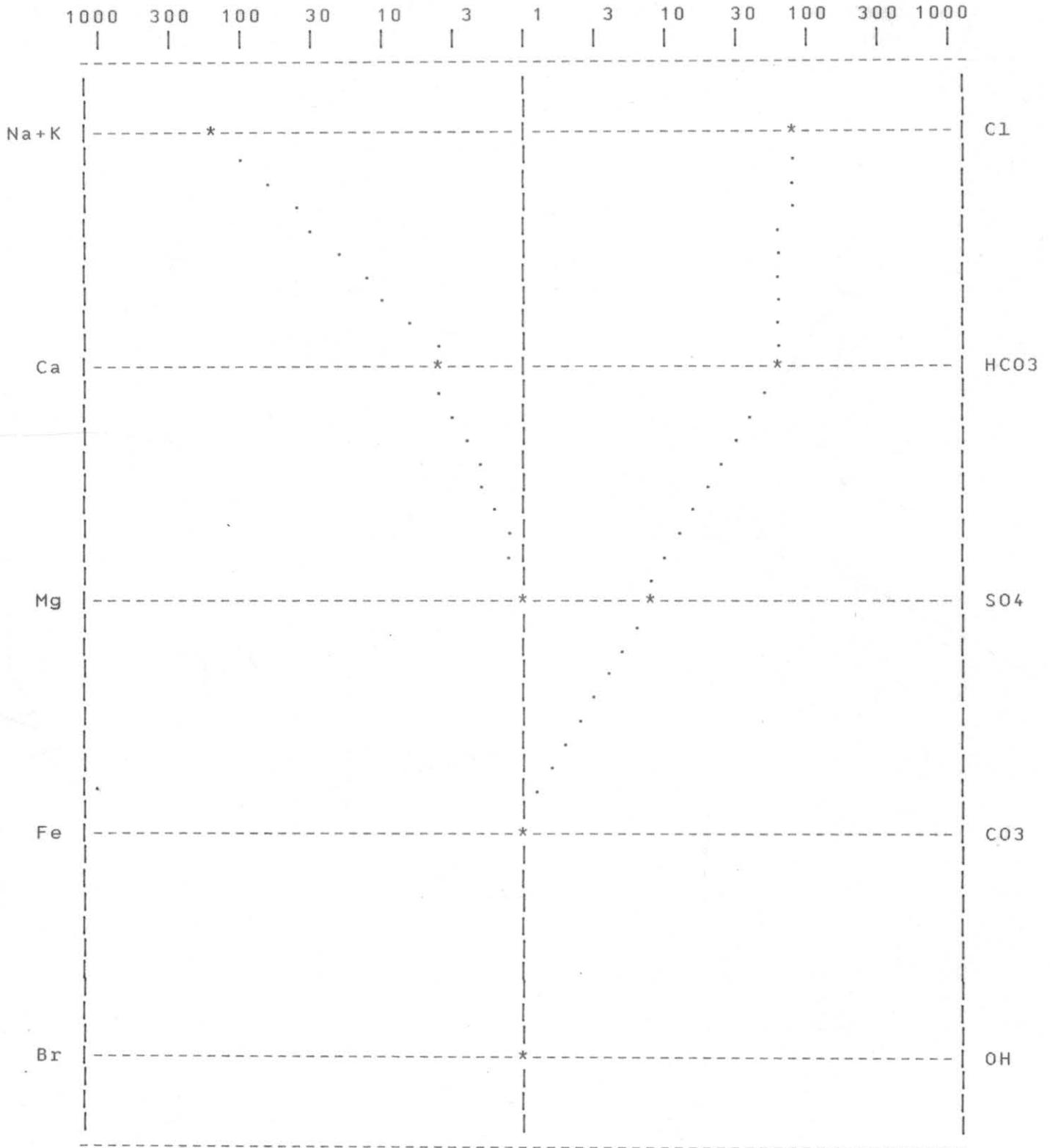
STIFF DIAGRAM.

JOB NO. 4919/86

Page W1

Sample: PELICAN 5 6-1

Scale is logarithm (base 10) of milli-equivalent values



5 cm



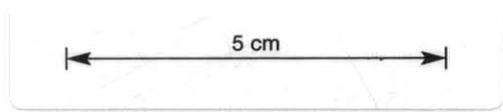
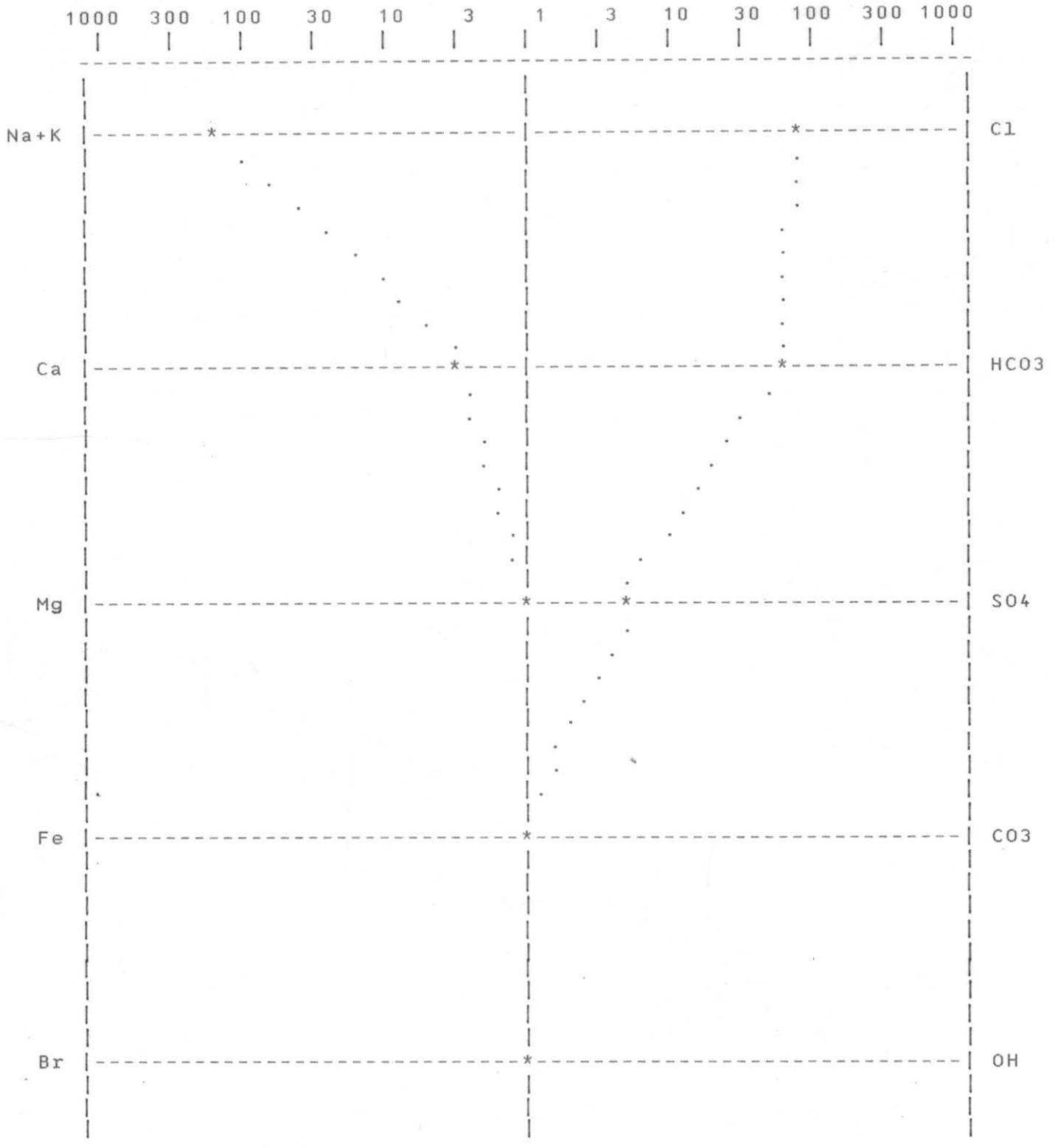
STIFF DIAGRAM.

JOB NO. 4919/86

Page W2

Sample: PELICAN 5 6-2

Scale is logarithm (base 10) of milli-equivalent values





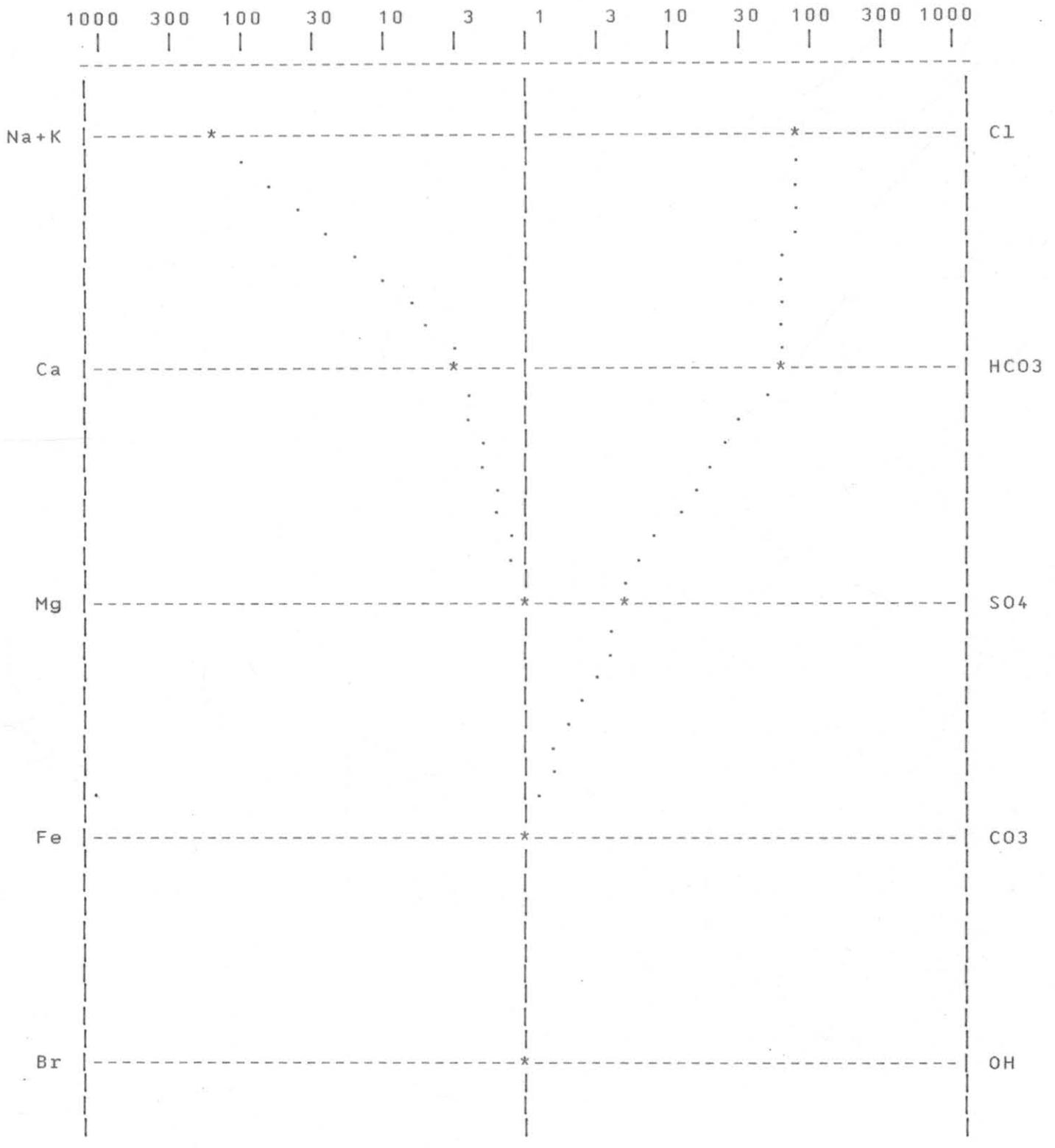
STIFF DIAGRAM.

JOB NO. 4919/86

Page W3

Sample: PELICAN 5 6-3

Scale is logarithm (base 10) of milli-equivalent values



5 cm



amdel

446096

WATER ANALYSIS REPORT

JOB NO. 4919/86

METHOD W2/1

PAGE W4

SAMPLE ID. PELICAN 5 6-4

CHEMICAL COMPOSITION

DERIVED DATA

| | | MG/L | ME/L | | | MG/L |
|----------------|------|------|-------|--------------------------|--|------|
| CATIONS | | | | | | |
| CALCIUM | (CA) | 255 | 12.7 | TOTAL DISSOLVED SOLIDS | | |
| MAGNESIUM | (MG) | 12.0 | 0.987 | A. BASED ON E.C. | | 7430 |
| SODIUM | (NA) | 2980 | 130 | B. CALCULATED (HCO3=CO3) | | 8300 |
| POTASSIUM | (K) | 199 | 5.09 | | | |

| | | | | | | |
|---------------|--------|------|------|------------------------|--|------|
| ANIONS | | | | | | |
| HYDROXIDE | (OH) | | | TOTAL HARDNESS | | 686 |
| CARBONATE | (CO3) | | | CARBONATE HARDNESS | | 686 |
| BICARBONATE | (HCO3) | 3380 | 55.4 | NON-CARBONATE HARDNESS | | |
| SULPHATE | (SO4) | 1250 | 26.0 | TOTAL ALKALINITY | | 2770 |
| | | | | (EACH AS CaCO3) | | |

| TOTALS AND BALANCE | | | | | | |
|--------------------|-------|------|-------|-----------------------|--|----------------|
| CHLORIDE | (CL) | 1930 | 54.4 | CATIONS (ME/L) | | 148 DIFF= 12.4 |
| NITRATE | (NO3) | 9.0 | 0.145 | ANIONS (ME/L) | | 136 SUM = 284 |
| | | | | DIFF*100./SUM = 4.37% | | |

SODIUM / TOTAL CATION RATIO 87.3%

REMARKS

IMBALANCE UNKNOWN RESULTS CHECKED AND VERIFIED

| | |
|-------------------------|-------|
| REACTION - PH | 7.7 |
| CONDUCTIVITY (E.C.) | |
| MICRO-S/CM AT 25 C | 12000 |
| RESISTIVITY OHM.M @ 25C | 0.833 |

NOTE: MG/L = MILLIGRAMS PER LITRE
ME/L = MILLIEQUIVS. PER LITRE

NAME- W.C. COWAN
 ADDRESS- AMOCO AUSTRALIA
 P.O. BOX 126
 NORTH SYDNEY NSW 2060
 DATE COLLECTED 11/4/86
 DATE RECEIVED
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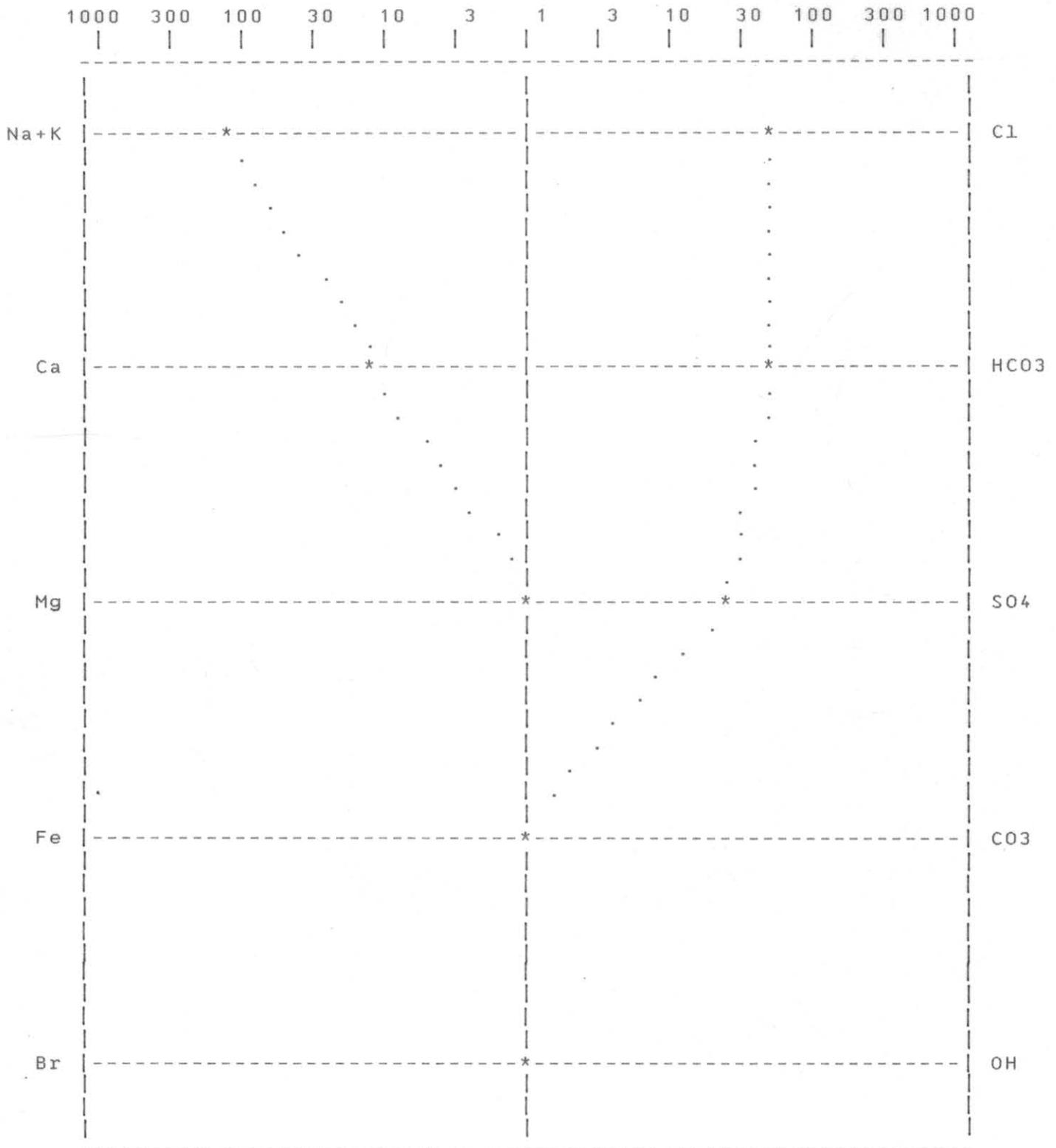
STIFF DIAGRAM.

JOB NO. 4919/86

Page W4

Sample: PELICAN 5 6-4

Scale is logarithm (base 10) of milli-equivalent values



5 cm



amdel

446099

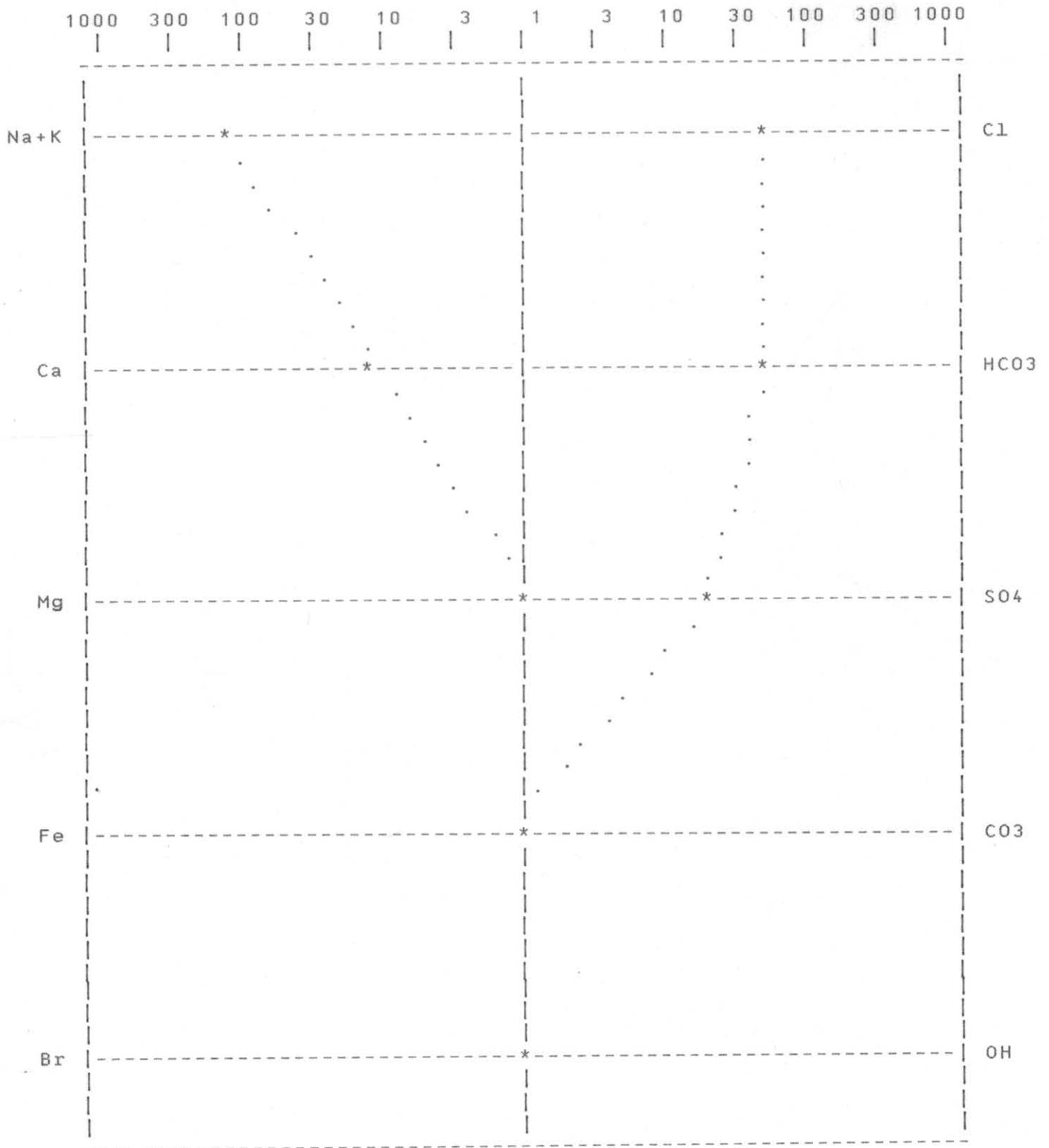
STIFF DIAGRAM.

JOB NO. 4919/86

Page W5

Sample: PELICAN 5 6-5

Scale is logarithm (base 10) of milli-equivalent values



5 cm



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446100

WATER ANALYSIS REPORT

JOB NO. 4919/86

METHOD W2/1

PAGE W6

SAMPLE ID. PELICAN 5 6-6

| CHEMICAL COMPOSITION | | | | DERIVED DATA | |
|-------------------------|--------|------|-------|--|----------------|
| | | MG/L | ME/L | | MG/L |
| CATIONS | | | | | |
| CALCIUM | (CA) | 69.0 | 3.44 | TOTAL DISSOLVED SOLIDS | |
| MAGNESIUM | (MG) | 6.00 | 0.494 | A. BASED ON E.C. | 8120 |
| SODIUM | (NA) | 3200 | 139 | B. CALCULATED (HCO3=CO3) | 7800 |
| POTASSIUM | (K) | 110 | 2.81 | | |
| ANIONS | | | | | |
| HYDROXIDE | (OH) | | | TOTAL HARDNESS | 197 |
| CARBONATE | (CO3) | | | CARBONATE HARDNESS | 197 |
| BICARBONATE | (HCO3) | 3280 | 53.8 | NON-CARBONATE HARDNESS | |
| SULPHATE | (SO4) | 240 | 5.00 | TOTAL ALKALINITY | 2690 |
| | | | | (EACH AS CaCO3) | |
| CHLORIDE | (CL) | 2550 | 71.9 | TOTALS AND BALANCE | |
| | | | | | |
| NITRATE | (NO3) | 7.0 | 0.113 | CATIONS (ME/L) | 146 DIFF= 15.1 |
| | | | | ANIONS (ME/L) | 131 SUM = 277 |
| | | | | DIFF*100./SUM = | 5.46% |
| | | | | SODIUM / TOTAL CATION RATIO | 95.4% |
| | | | | REMARKS | |
| | | | | IMBALANCE UNKNOWN RESULTS CHECKED AND VERIFIED | |
| | | | | | |
| REACTION - PH | | | 8.0 | | |
| CONDUCTIVITY (E.C.) | | | | | |
| MICRO-S/CM AT 25 C | | | 13000 | | |
| RESISTIVITY OHM.M @ 25C | | | 0.769 | | |
| | | | | NOTE: MG/L = MILLIGRAMS PER LITRE | |
| | | | | ME/L = MILLIEQUIVS. PER LITRE | |

NAME- W.C. COWAN
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amdel

446101

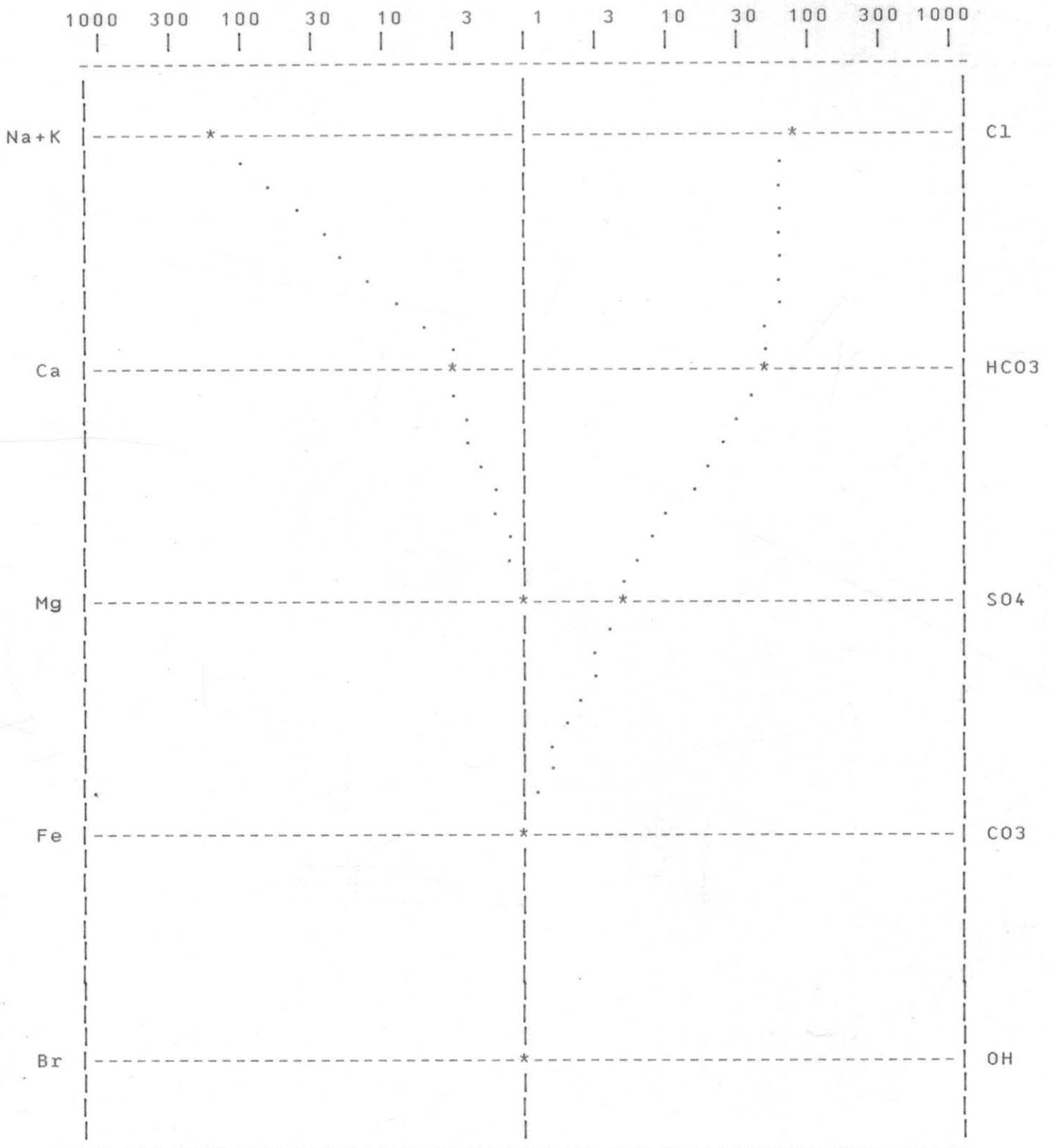
STIFF DIAGRAM.

JOB NO. 4919/86

Page W6

Sample: PELICAN 5 6-6

Scale is logarithm (base 10) of milli-equivalent values



5 cm



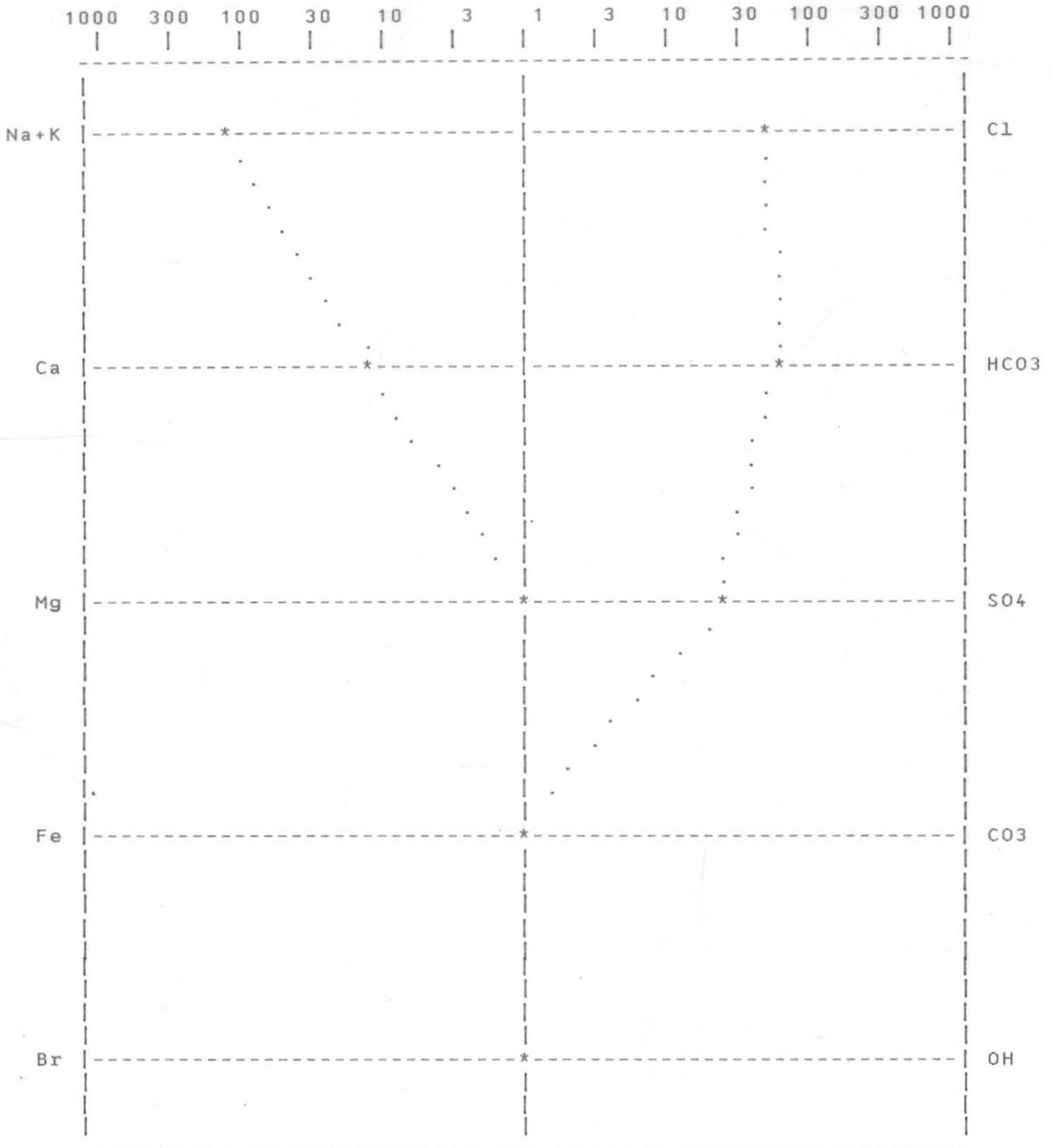
STIFF DIAGRAM.

JOB NO. 4919/86

Page W7

Sample: PELICAN 5 6-7

Scale is logarithm (base 10) of milli-equivalent values



5 cm

446104

ENCLOSURE B

CORE ANALYSIS REPORT

CONTENTS

CONVENTIONAL CORE ANALYSIS

DATA SUMMARY - STATISTICAL DATA FOR POROSITY & PERMEABILITY

PERMEABILITY VS POROSITY

STATISTICAL DATA FOR GRAIN DENSITY HISTOGRAM

FIGURES

1. PERMEABILITY & POROSITY HISTOGRAMS
2. PERMEABILITY VS POROSITY
3. GRAIN DENSITY HISTOGRAM
4. CORRELATION COREGRAPH Vertical Scale 1:200m
5. CORRELATION COREGRAPH Vertical Scale 1:500m

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

446106

CORE ANALYSIS REPORT
FOR
AMOCO AUSTRALIA PETROLEUM CO.
PELICAN NO. 5
PELICAN
BASS BASIN

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 1

AMOCO AUSTRALIA PETROLEUM CO. DATE : 7/2/86
 PELICAN NO.5 FORMATION :
 PELICAN DRLG. FLUID: :
 BASS BASIN LOCATION : TASMANIA

FILE NO : 318 86006
 LABORATORY: ADELAIDE
 ANALYSTS : R.M & P.A
 ELEVATION :

CONVENTIONAL CORE ANALYSIS

| SAMPLE NUMBER | DEPTH METERS | PERM MD HORIZ K _a | He POR | GRAIN DEN M | DESCRIPTION |
|---------------|--------------|------------------------------|--------|-------------|--|
| CORE NO.1 | | | | | |
| 1 | 2790.50 | 57. | 20.9 | 2.66 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 2 | 2790.80 | 32. | 19.8 | 2.66 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 3 | 2791.10 | 61. | 19.4 | 2.68 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 4 | 2798.15 | 210. | 22.7 | 2.64 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 5 | 2798.40 | 39. | 20.0 | 2.66 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 6 | 2800.86 | 6.3 | 16.0 | 2.67 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 7 | 2801.23 | 9.4 | 17.3 | 2.67 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 8 | 2801.80 | 100. | 18.3 | 2.66 | SST LTBRN MG WL CMT SBANG-SBRND WL SRT |
| 9 | 2802.12 | 35. | 18.9 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 10 | 2802.55 | 14. | 18.2 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 11 | 2802.85 | 16. | 18.8 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 12 | 2803.15 | 4.3 | 17.3 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 13 | 2803.66 | 1.1 | 12.8 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| CORE NO.2 | | | | | |
| 14 | 2868.73 | 0.17 | 11.2 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 15 | 2869.00 | 0.47 | 15.0 | 2.71 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 16 | 2869.30 | 1.1 | 15.3 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 17 | 2869.57 | 0.93 | 18.0 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 18 | 2869.90 | 0.42 | 15.7 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 19 | 2870.20 | 0.56 | 16.9 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 20 | 2870.50 | 1.4 | 8.4 | 2.54 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 21 | 2870.80 | 0.15 | 9.4 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 22 | 2871.10 | 3.0 | 15.1 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 23 | 2871.38 | 1.4 | 15.8 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 24 | 2871.80 | 0.80 | 14.7 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

446108

PAGE 2

AMOCO AUSTRALIA PETROLEUM CO. DATE : 7/2/86
 PELICAN NO.5 FORMATION :

FILE NO : 318 86006
 LABORATORY: ADELAIDE

CONVENTIONAL CORE ANALYSIS

| SAMPLE NUMBER | DEPTH METERS | PERM MD HORIZ Ka | He POR | GRAIN DEN M | DESCRIPTION |
|---------------|--------------|------------------|--------|-------------|--|
| 25 | 2872.10 | 3.5 | 18.2 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 26 | 2872.38 | 7.6 | 17.4 | 2.64 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 27 | 2872.70 | 1.0 | 14.2 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 28 | 2873.00 | 1.2 | 9.3 | 2.79 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 29 | 2873.31 | 0.84 | 12.6 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 30 | 2873.60 | 5.5 | 17.6 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 31 | 2873.88 | 4.2 | 17.1 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 32 | 2874.10 | 0.38 | 12.9 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 33 | 2874.40 | 34. | 18.6 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 34 | 2874.70 | 68. | 19.1 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 35 | 2875.05 | 59. | 18.7 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 36 | 2875.30 | 29. | 18.6 | 2.69 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 37 | 2875.60 | 26. | 17.6 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 38 | 2875.90 | 3.5 | 12.4 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 39 | 2876.20 | 8.1 | 14.5 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 40 | 2876.50 | 13. | 15.8 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 41 | 2876.80 | 2.3 | 12.7 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 42 | 2877.10 | 15. | 15.9 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 43 | 2877.40 | 17. | 16.3 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 44 | 2877.70 | 7.2 | 14.7 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 45 | 2878.00 | 25. | 17.3 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 46 | 2878.30 | 2.0 | 13.6 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 47 | 2878.60 | 3.0 | 16.8 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 48 | 2878.90 | 6.1 | 13.9 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 49 | 2879.20 | 13. | 17.3 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 50 | 2879.50 | 16. | 17.1 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 51 | 2879.83 | 2.5 | 13.0 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 52 | 2880.10 | 20. | 17.6 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 53 | 2880.40 | 19. | 17.4 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 54 | 2880.85 | 190. | 19.7 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 55 | 2881.13 | 240. | 20.8 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 56 | 2881.40 | 0.54 | 16.1 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 3

446109

AMOCO AUSTRALIA PETROLEUM CO. DATE : 7/2/86
 PELICAN NO.5 FORMATION :

FILE NO : 318 86006
 LABORATORY: ADELAIDE

CONVENTIONAL CORE ANALYSIS

| SAMPLE NUMBER | DEPTH METERS | PERM MD HORIZ K _a | He POR | GRAIN DEN M | DESCRIPTION |
|---------------|--------------|------------------------------|--------|-------------|---|
| CORE NO.3 | | | | | |
| 57 | 2881.75 | 0.48 | 17.3 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 58 | 2882.08 | 0.31 | 16.4 | 2.71 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 59 | 2882.33 | 0.64 | 17.4 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 60 | 2882.59 | 0.12 | 9.6 | 2.69 | SST LIGY F-MG WL CMT SBANG-SBRND WL SRT SHLY LA |
| 61 | 2882.79 | 5.1 | 18.8 | 2.64 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 62 | 2883.06 | 0.34 | 14.4 | 2.69 | SST LIGY MG WL CMT SBANG-SBRND WL SRT SHLY LAM |
| 63 | 2883.28 | 0.58 | 15.2 | 2.66 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 64 | 2883.60 | 0.77 | 17.4 | 2.71 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 65 | 2883.90 | 0.82 | 17.9 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 66 | 2884.17 | 0.13 | 12.3 | 2.69 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 67 | 2884.49 | 0.51 | 15.5 | 2.70 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 68 | 2884.79 | 0.52 | 16.0 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 69 | 2885.06 | 0.47 | 13.1 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 70 | 2885.41 | 0.80 | 17.3 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 71 | 2885.70 | 1.3 | 18.2 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT |
| 72 | 2886.01 | 0.47 | 15.0 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 73 | 2886.31 | 0.34 | 14.1 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 74 | 2886.56 | 0.78 | 16.5 | 2.68 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 75 | 2886.91 | 1.1 | 16.9 | 2.69 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 76 | 2887.23 | 1.1 | 14.3 | 2.67 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 77 | 2887.53 | 47. | 20.6 | 2.74 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 78 | 2887.82 | 130. | 19.6 | 2.65 | SST LIGY MG WL CMT SBANG-SBRND WL SRT S SHLY |
| 79 | 2888.15 | 43. | 18.1 | 2.66 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 80 | 2888.50 | 0.18 | 11.4 | 2.88 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 81 | 2888.77 | 0.05 | 13.2 | 2.84 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 82 | 2889.08 | 0.05 | 14.8 | 2.85 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 83 | 2889.38 | 0.10 | 18.5 | 2.84 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 84 | 2889.72 | 0.04 | 11.5 | 2.73 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |
| 85 | 2889.97 | 0.12 | 16.0 | 2.70 | SST LIGY VFG WL CMT SBANG-SBRND WL SRT SLTY |

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
FIELD : PELICAN

WELL : PELICAN NO.5
COUNTY, STATE: BASS BASIN

AIR PERMEABILITY : MD. (HORIZONTAL) RANGE USED 0.000 TO 240.
POROSITY : PERCENT (HELIUM) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS (METERS) : 2790.50 - 2900.00 INTERVAL LENGTH : 109.50
METERS ANALYZED IN ZONE : 25.91 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

| POROSITY AVERAGE | PERMEABILITY AVERAGES | | |
|---------------------|-----------------------|---------------|--------------|
| | ARITHMETIC | HARMONIC | GEOMETRIC |
| ----- 16.1 | ----- 20. | ----- 0.49 | ----- 2.9 |

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

WELL : PELICAN NO.5
 COUNTY, STATE: BASS BASIN

GROUPING BY POROSITY RANGES

| POROSITY RANGE | METERS IN RANGE | AVERAGE POROSITY | AVERAGE PERM. (GEOM.) | AVERAGE PERM. (ARITH) | FREQUENCY (PERCENT) | CUMULATIVE FREQUENCY (%) |
|-------------------|--------------------|---------------------|--------------------------|--------------------------|------------------------|-----------------------------|
| 8.0 - 10.0 | 1.22 | 9.2 | 0.417 | 0.717 | 4.7 | 4.7 |
| 10.0 - 12.0 | 0.91 | 11.4 | 0.107 | 0.130 | 3.5 | 8.2 |
| 12.0 - 14.0 | 3.35 | 13.0 | 0.886 | 1.8 | 12.9 | 21.2 |
| 14.0 - 16.0 | 5.49 | 15.0 | 1.1 | 3.0 | 21.2 | 42.4 |
| 16.0 - 18.0 | 7.92 | 17.0 | 2.6 | 7.1 | 30.6 | 72.9 |
| 18.0 - 20.0 | 5.49 | 18.8 | 17. | 46. | 21.2 | 94.1 |
| 20.0 - 22.0 | 1.22 | 20.6 | 71. | 96. | 4.7 | 98.8 |
| 22.0 - 24.0 | 0.30 | 22.7 | 210. | 210. | 1.2 | 100.0 |

TOTAL NUMBER OF METERS= 25.91

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

WELL : PELICAN NO.5
 COUNTY, STATE: BASS BASIN

GROUPING BY PERMEABILITY RANGES

| PERMEABILITY RANGE | METERS IN RANGE | AVERAGE PERM. (GEOM.) | AVERAGE PERM. (ARITH) | AVERAGE POROSITY | FREQUENCY (PERCENT) | CUMULATIVE FREQUENCY (%) |
|--------------------|-----------------|-----------------------|-----------------------|------------------|---------------------|--------------------------|
| 0.039 - 0.078 | 0.91 | 0.046 | 0.047 | 13.2 | 3.5 | 3.5 |
| 0.078 - 0.156 | 1.52 | 0.123 | 0.124 | 13.2 | 5.9 | 9.4 |
| 0.156 - 0.312 | 0.91 | 0.212 | 0.220 | 13.0 | 3.5 | 12.9 |
| 0.312 - 0.625 | 3.96 | 0.461 | 0.468 | 15.2 | 15.3 | 28.2 |
| 0.625 - 1.250 | 4.27 | 0.912 | 0.927 | 15.3 | 16.5 | 44.7 |
| 1.250 - 2.500 | 1.52 | 1.6 | 1.7 | 13.7 | 5.9 | 50.6 |
| 2.500 - 5.000 | 2.13 | 3.4 | 3.4 | 15.7 | 8.2 | 58.8 |
| 5.- 10. | 2.44 | 6.8 | 6.9 | 16.3 | 9.4 | 68.2 |
| 10.- 20. | 2.44 | 15. | 15. | 17.1 | 9.4 | 77.6 |
| 20.- 40. | 2.44 | 29. | 30. | 18.6 | 9.4 | 87.1 |
| 40.- 80. | 1.83 | 55. | 56. | 19.5 | 7.1 | 94.1 |
| 80.- 160. | 0.61 | 114. | 115. | 18.9 | 2.4 | 96.5 |
| 160.- 320. | 0.91 | 212. | 213. | 21.1 | 3.5 | 100.0 |

TOTAL NUMBER OF METERS = 25.91

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

WELL : PELICAN NO.5
 COUNTY, STATE: BASS BASIN

POROSITY-METERS OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

| POROSITY CUT OFF | METERS LOST | CAPACITY LOST (%) | METERS REMAINING | CAPACITY REMAINING (%) | ARITH MEAN | MEDIAN |
|---------------------|----------------|----------------------|---------------------|---------------------------|---------------|--------|
| 0.0 | 0.00 | 0.0 | 25.91 | 100.0 | 16.1 | 16.5 |
| 2.0 | 0.00 | 0.0 | 25.91 | 100.0 | 0.0 | 16.5 |
| 4.0 | 0.00 | 0.0 | 25.91 | 100.0 | 0.0 | 16.5 |
| 6.0 | 0.00 | 0.0 | 25.91 | 100.0 | 0.0 | 16.5 |
| 8.0 | 0.00 | 0.0 | 25.91 | 100.0 | 0.0 | 16.5 |
| 10.0 | 1.22 | 2.7 | 24.69 | 97.3 | 0.0 | 16.7 |
| 12.0 | 2.13 | 5.2 | 23.77 | 94.8 | 0.0 | 16.8 |
| 14.0 | 5.49 | 15.6 | 20.42 | 84.4 | 0.0 | 17.2 |
| 16.0 | 10.97 | 35.3 | 14.94 | 64.7 | 0.0 | 17.9 |
| 18.0 | 18.90 | 67.7 | 7.01 | 32.3 | 0.0 | 19.3 |
| 20.0 | 24.38 | 92.3 | 1.52 | 7.7 | 0.0 | 21.3 |
| 22.0 | 25.60 | 98.3 | 0.30 | 1.7 | 0.0 | 23.0 |
| 24.0 | 25.91 | 100.0 | 0.00 | 0.0 | 0.0 | |

TOTAL STORAGE CAPACITY IN POROSITY-METERS = 416.97

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

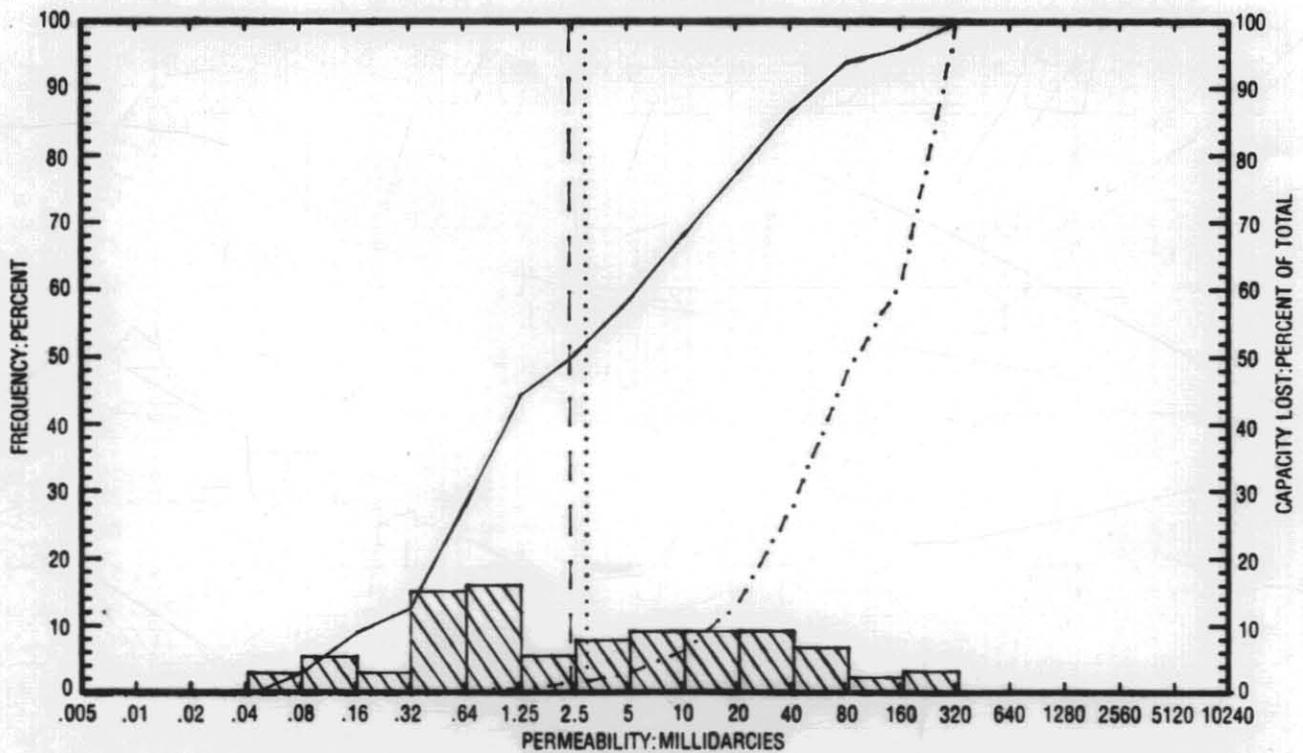
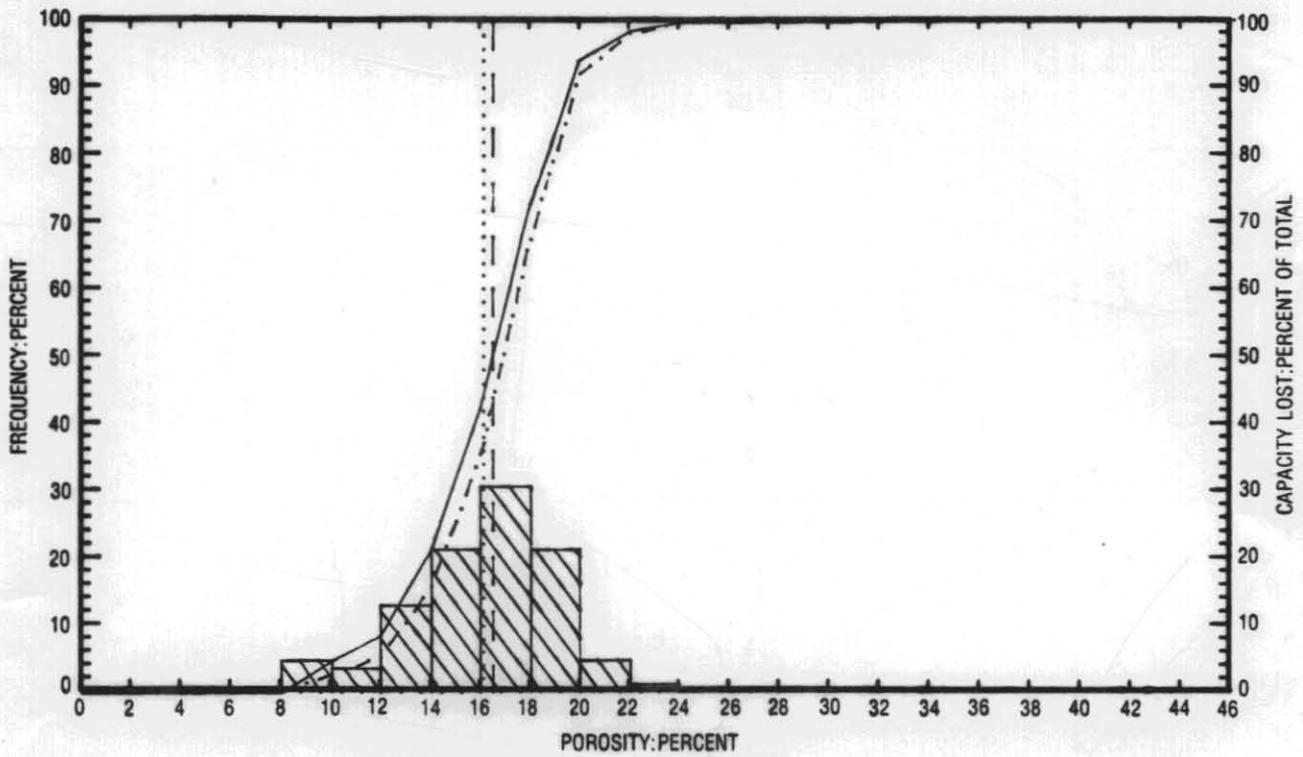
COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

WELL : PELICAN NO.5
 COUNTY, STATE: BASS BASIN

MILLIDARCY-METERS OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

| PERMEABILITY CUT OFF | METERS LOST | CAPACITY LOST (%) | METERS REMAINING | CAPACITY REMAINING (%) | GEOM MEAN | MEDIAN |
|-------------------------|----------------|----------------------|---------------------|---------------------------|--------------|--------|
| 0.005 | 0.00 | 0.0 | 25.91 | 100.0 | 2.85 | 2.33 |
| 0.010 | 0.00 | 0.0 | 25.91 | 100.0 | 2.85 | 2.33 |
| 0.020 | 0.00 | 0.0 | 25.91 | 100.0 | 2.85 | 2.33 |
| 0.039 | 0.00 | 0.0 | 25.91 | 100.0 | 2.85 | 2.33 |
| 0.078 | 0.91 | 0.0 | 24.99 | 100.0 | 3.31 | 2.76 |
| 0.156 | 2.44 | 0.0 | 23.47 | 100.0 | 4.11 | 3.54 |
| 0.312 | 3.35 | 0.1 | 22.56 | 99.9 | 4.63 | 4.10 |
| 0.625 | 7.32 | 0.4 | 18.59 | 99.6 | 7.57 | 7.38 |
| 1.250 | 11.58 | 1.2 | 14.33 | 98.8 | 14.22 | 13.54 |
| 2.500 | 13.11 | 1.7 | 12.80 | 98.3 | 18.39 | 16.82 |
| 5. | 15.24 | 3.2 | 10.67 | 96.8 | 25.81 | 22.78 |
| 10. | 17.68 | 6.5 | 8.23 | 93.5 | 38.35 | 32.21 |
| 20. | 20.12 | 13.8 | 5.79 | 86.2 | 56.53 | 47.57 |
| 40. | 22.56 | 28.1 | 3.35 | 71.9 | 90.92 | 75.51 |
| 80. | 24.38 | 48.1 | 1.52 | 51.9 | 165.59 | 179.59 |
| 160. | 24.99 | 61.8 | 0.91 | 38.2 | 212.35 | 226.27 |
| 320. | 25.91 | 100.0 | 0.00 | 0.0 | | |

TOTAL FLOW CAPACITY IN MILLIDARCY-METERS (ARITHMETIC) = 510.90



PERMEABILITY AND POROSITY HISTOGRAMS

AMOCO AUSTRALIA PETROLEUM CO.
 PELICAN NO.5
 PELICAN
 BASS BASIN

LEGEND
 ARITHMETIC MEAN POROSITY
 GEOMETRIC MEAN PERMEABILITY
 MEDIAN VALUE
 CUMULATIVE FREQUENCY
 CUMULATIVE CAPACITY LOST
 (Note: The legend uses different line styles than those shown in the histograms above.)

PERMEABILITY VS POROSITY

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

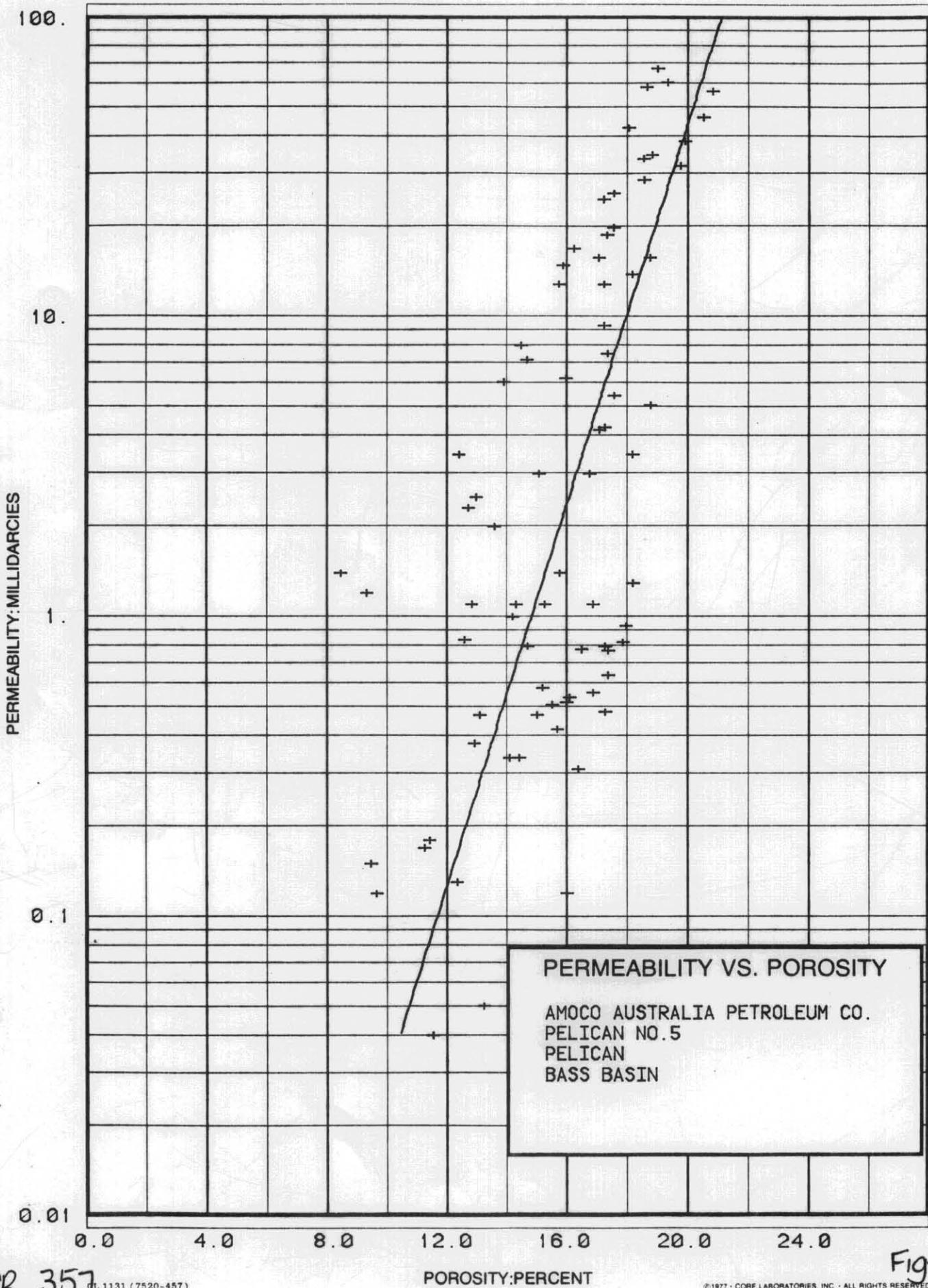
WELL : PELICAN NO.5
 COUNTY, STATE: BASS BASIN

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (HELIUM)

| DEPTH INTERVAL | RANGE & SYMBOL | PERMEABILITY | | POROSITY | | POROSITY AVERAGE | PERMEABILITY AVERAGES | | |
|-------------------|-------------------|--------------|---------|----------|------|---------------------|-----------------------|----------|-----------|
| | | MINIMUM | MAXIMUM | MIN. | MAX. | | ARITHMETIC | HARMONIC | GEOMETRIC |
| 2790.5 - 2900.0 | 1 (+) | 0.040 | 240.0 | 8.4 | 22.7 | 16.0 | 17. | 0.51 | 2.2 |

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :
 $\text{LOG}(K) = (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}$
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT})$

| RANGE | EQUATION OF THE LINE |
|-------|---|
| 1 | PERM = ANTILOG((0.3142)(POROSITY) + -4.6666) |



OR_357

DL 1131 (7520-457)

Fig. 2

STATISTICAL DATA FOR GRAIN DENSITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
FIELD : PELICAN

WELL : PELICAN NO.5
COUNTRY : BASS BASIN

GRAIN DENSITY : gm/cc (MEASURED) RANGE USED 2.34 TO 2.94

DEPTH LIMITS : 2790.50 - 2900.00 INTERVAL LENGTH : 109.50
METERS ANALYZED IN ZONE : 100.72 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

| GRAIN DENSITY ARITHMETIC MEAN | GRAIN DENSITY MEDIAN |
|----------------------------------|-------------------------|
| ----- 2.67 | ----- 2.67 |

STATISTICAL DATA FOR GRAIN DENSITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
 FIELD : PELICAN

WELL : PELICAN NO.5
 COUNTRY : BASS BASIN

GROUPING BY GRAIN DENSITY RANGES

| GRAIN DENSITY RANGE | METERS IN RANGE | AVERAGE DENSITY | FREQUENCY (PERCENT) | CUMULATIVE FREQUENCY (%) |
|------------------------|--------------------|--------------------|------------------------|-----------------------------|
| ----- | ----- | ----- | ----- | ----- |
| 2.54 - 2.56 | 1.00 | 2.54 | 1.0 | 1.0 |
| 2.64 - 2.66 | 22.00 | 2.65 | 21.8 | 22.8 |
| 2.66 - 2.68 | 51.72 | 2.66 | 51.4 | 74.2 |
| 2.68 - 2.70 | 14.00 | 2.68 | 13.9 | 88.1 |
| 2.70 - 2.72 | 5.00 | 2.71 | 5.0 | 93.1 |
| 2.72 - 2.74 | 1.00 | 2.73 | 1.0 | 94.0 |
| 2.74 - 2.76 | 1.00 | 2.74 | 1.0 | 95.0 |
| 2.78 - 2.80 | 1.00 | 2.79 | 1.0 | 96.0 |
| 2.84 - 2.86 | 3.00 | 2.84 | 3.0 | 99.0 |
| 2.88 - 2.90 | 1.00 | 2.88 | 1.0 | 100.0 |

TOTAL NUMBER OF METERS = 100.72

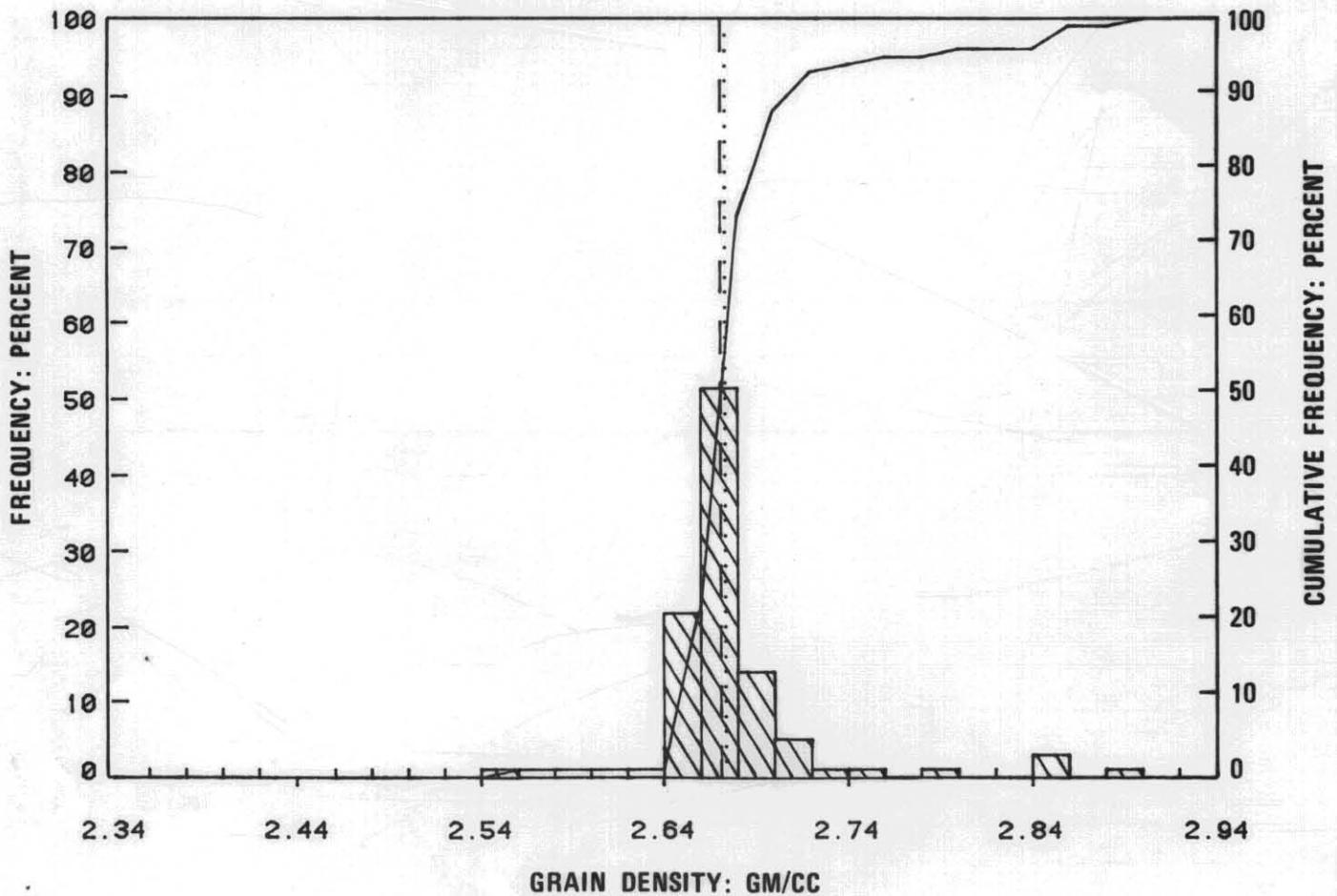


CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY AMOCO AUSTRALIA PETROLEUM CO. FILE NO. 318 86006
WELL PELICAN NO. 5 DATE 7/2/86
FIELD PELICAN FORMATION _____ ELEV. _____
COUNTRY BASS BASIN DRLG. FLD. _____ CORES _____
LOCATION TASMANIA

GRAIN DENSITY HISTOGRAM



LEGEND
ARITHMETIC MEAN GRAIN DENSITY
MEDIAN VALUE -----
CUMULATIVE FREQUENCY _____

OR 357

Fig 3



CORE LABORATORIES, INC.

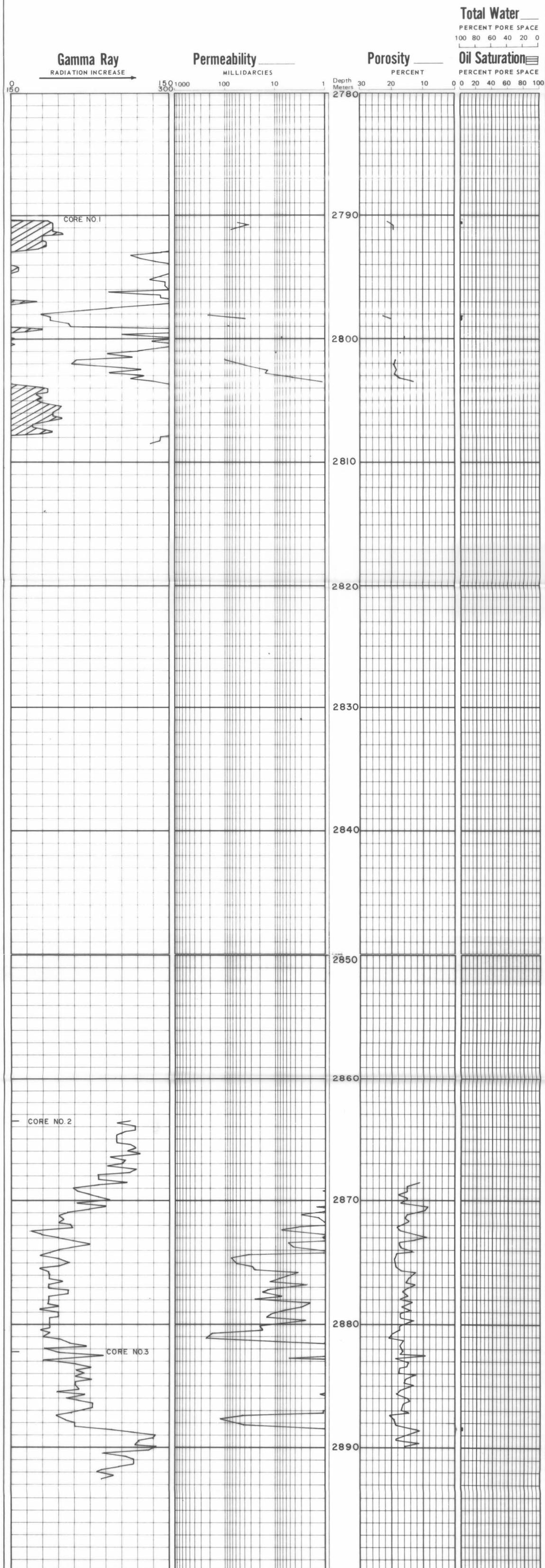
Petroleum Reservoir Engineering

COMPANY AMOCO AUSTRALIA PETROLEUM CO. FILE NO. 318 86006
 WELL PELICAN NO.5 DATE 7/2/86
 FIELD PELICAN FORMATION _____ ELEV. _____
 COUNTY _____ STATE _____ DRLG. FLD. _____ CORES 1,2,3
 LOCATION TASMANIA

CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors or omissions excepted) but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 1:200 METERS





CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

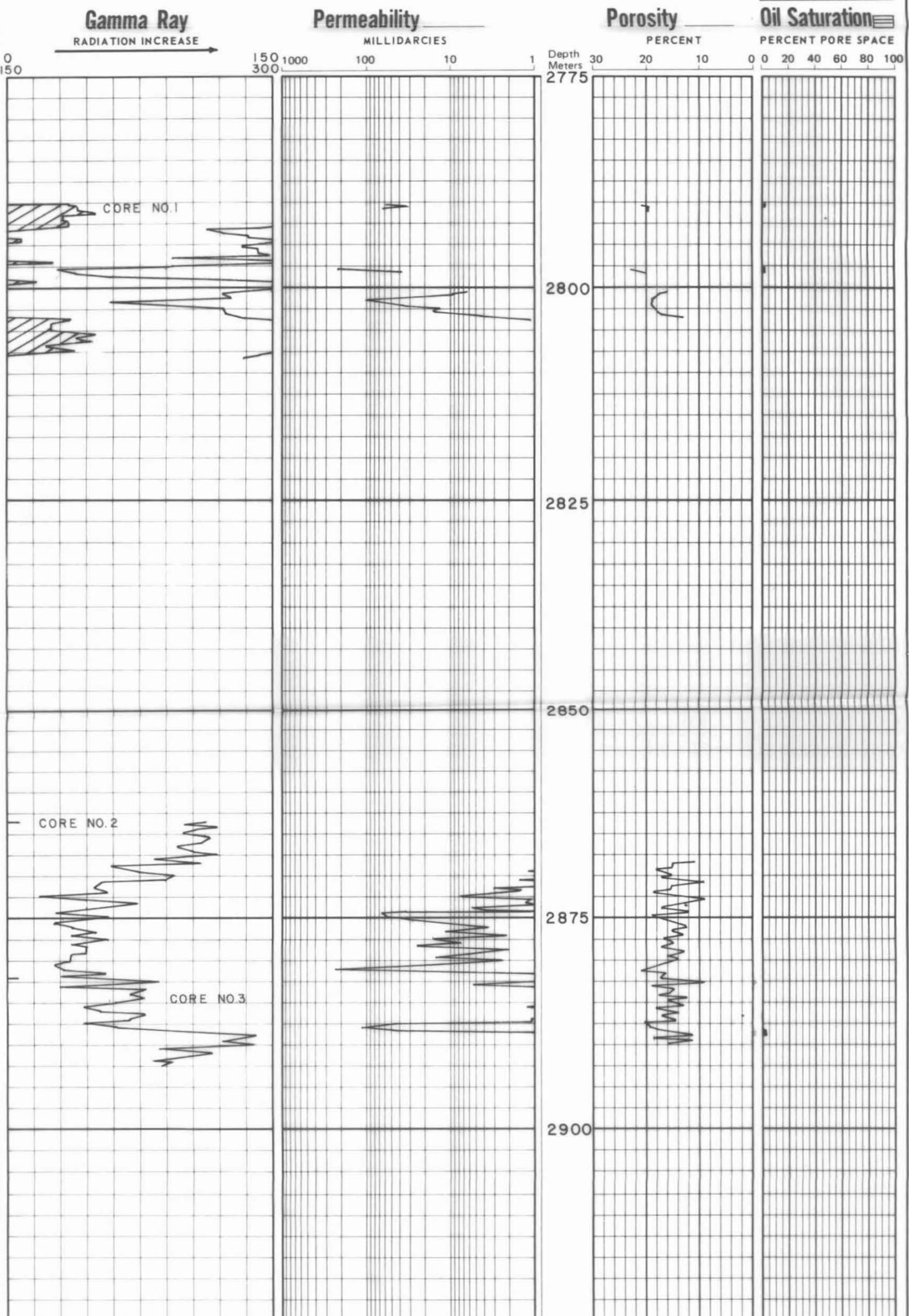
COMPANY AMOCO AUSTRALIA PETROLEUM CO. FILE NO. 318 86006
 WELL PELICAN NO.5 DATE 7/2/86
 FIELD PELICAN FORMATION _____ ELEV. _____
 COUNTY _____ STATE _____ DRLG. FLD. _____ CORES 1,2&3
 LOCATION TASMANIA

CORRELATION COREGRAPH

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VERTICAL SCALE: ~~1:300~~ METERS
 1:500

Total Water _____
 PERCENT PORE SPACE
 100 80 60 40 20 0



ENCLOSURE C

**VITRINITE REFLECTANCE
&
ORGANIC PETROLOGY**

446124

VITRINITE REFLECTANCE AND ORGANIC
PETROLOGY, PELICAN-5, T-22-P, BASS BASIN

Amoco Australia Petroleum Company

3/786/0-F6365/86

May 1986

CONTENTS

1. INTRODUCTION
2. ANALYTICAL PROCEDURE
3. RESULTS
4. DISCUSSION
 - 4.1 MATURITY
 - 4.2 ORGANIC RICHNESS
 - 4.3 ORGANIC MATTER TYPE & SOURCE QUALITY
5. CONCLUSIONS

TABLES

1. SUMMARY OF VITRINITE REFLECTANCE MEASUREMENTS
2. PERCENTAGE OF VITRINITE, INERTINITE & EXINITE IN DISPERSED ORGANIC MATTER
3. ORGANIC MATTER TYPE & ABUNDANCE
4. EXINITE MACERAL ABUNDANCE & FLUORESCENCE CHARACTERISTICS

FIGURES

1. VITRINITE REFLECTANCE VS DEPTH PLOT

APPENDICES

1. HISTOGRAMS OF VITRINITE REFLECTANCE MEASUREMENTS
2. PLATES (No. 1 - 9)



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Mineral Development
Laboratories

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South Australia 5063
Phone Adelaide (08) 79 1662
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Please address all
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SA 5063
In reply quote:

446126

amdel

30 May 1986

F 3/786/0
F 6365/86

Amoco Australia Petroleum Company
15 Blue Street
NORTH SYDNEY NSW 2060

Attention: Steven C. Bane
Gary M. Kjellgren

REPORT F 6365/86

YOUR REFERENCE: LPD 1085

TITLE: Vitrinite reflectance and organic
petrology, Pelican-5, T-22-P, Bass
Basin

MATERIAL: 17 cuttings samples, 6 SWC; 1 core chip

LOCALITY: PELICAN-5

DATE RECEIVED: 7 January to 15 May 1986

WORK REQUIRED: Vitrinite reflectance and descriptions of
dispersed organic matter

Investigation and Report by: Brian Watson

Manager-Petroleum Services Section: Dr Brian G. Steveson

for Dr William G. Spencer
General Manager
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cap

1. INTRODUCTION

Seventeen cuttings samples and one core sample from Pelican-5 were received for vitrinite reflectance determinations and descriptions of dispersed organic matter over the period 7 January to 4 March 1986. Results of these samples were reported by phone on a daily basis as work was completed.

Six sidewall core samples were received on 15 May 1986 for the same analyses. This report is a formal presentation of the data from this work.

2. ANALYTICAL PROCEDURE

Representative portions of each sample (crushed to -14+35 BSS mesh) were obtained with a sample splitter and then mounted in cold setting Glasscraft resin using a 2.5 cm diameter mould. Each block was ground flat using diamond impregnated laps and carborundum paper. The surface was then polished with aluminium oxide and finally magnesium oxide.

Reflectance measurements were made with a Leitz MPV1.1 microphotometer fitted to a Leitz Ortholux microscope and calibrated against synthetic standards. All measurements were taken using oil immersion ($n = 1.518$) and incident monochromatic light (wavelength 546 nm) at a temperature of $23 \pm 1^\circ\text{C}$. Fluorescence observations were made on the same microscope utilising a 3 mm B63 excitation filter, a TK400 dichroic mirror and a K510 suppression filter.

3. RESULTS

Vitrinite reflectance determinations are summarised in Table 1. Figure 1 is a plot of vitrinite reflectance versus depth. Histogram plots of this data are presented in Appendix 1. Descriptions of the dispersed organic matter in these samples are presented in Tables 2-4. Important aspects of these descriptions are illustrated by a series of plates in Appendix 2.

4. DISCUSSION

4.1 Maturity

The vitrinite reflectance data (Table 1, Figure 1) indicates that the sedimentary section penetrated by Pelican-5 is sufficiently mature for the generation of light oil from resinite-rich dispersed organic matter (DOM) below approximately 1350 metres depth (threshold VR = 0.45%; Snowdon and Powell, 1982).

Significant gas generation from woody-herbaceous DOM (vitrinite, and to a lesser extent, inertinite) commences at VR = 0.6 (Monier *et al.*, 1983). On this basis, sediments below 2400 metres depth in Pelican-5 should be sufficiently mature to generate significant quantities of gas.

Oil generation from terrestrial organic matter rich in exinites other than resinite commences at VR = 0.7% (Connan and Cassou, 1980). The top of this oil generation window occurs at approximately 2800 metres depth in Pelican-5.

Over-mature sediments (VR > 1.4%) occur below approximately 4050 metres depth in Pelican-5.

4.2 Organic Richness

Organic richness is generally excellent in the Eastern View Coal Measures and fair to good in the Cretaceous sediments. Only two samples examined have poor organic richness. These samples are shales from 3710 and 3907 metres depth.

The high organic richness in the Pelican-5 location is attributable to the high proportions of coals in the Eastern View Coal Measures. However, this is not the case in the Cretaceous sediments where the good organic richness is attributable to organic rich shales and carbonaceous shales. Coals in these sediments are likely to have caved from the Eastern View Coal Measures.

4.3 Organic Matter Type and Source Quality

Exinite contents of coals in the samples analysed range from 10-40% and generally lie in the range 15-25%. However, individual coal cuttings fragments may contain up to 50% exinite indicating excellent source quality.

The shales and siltstones from the Eastern View Coal Measures generally have exinite contents ranging from 10-25%. Exinite contents of the Cretaceous shales and siltstones range from 5-80% due largely to the presence of bituminite and lamalginite rich bands.

Vitrinite contents are uniformly high in the sediments from Pelican-5 generally ranging from 20-85% indicating a highly anoxic environment of deposition in both the Cretaceous and Tertiary, and a high source potential for the generation of significant quantities of gaseous hydrocarbons.

Exsudatinite occurs in most of the coals from the Eastern View Coal Measures indicating oil generation from these sediments. Exsudatinite is often associated with resinite in the sample from 2169-2178 m indicating that this exsudatinite may have been generated from the resinite in this coal. Oil in the associated sediments has the same fluorescence as the exsudatinite and hence may also have been sourced from the resinite in these coals.

The abundance of exsudatinite in the Eastern View Coal Measures indicates that the coals have generated significant quantities of liquid hydrocarbons.

Free oil also occurs in a large proportion of the samples examined. The following table gives possible origins of the oil in these samples based on the association of the oil with other exinite macerals present.

| Depth (m) | Tentative Origin of Oil |
|-----------|-------------------------|
| 2169-2178 | 1 |
| 2322-2331 | 1, 3 |
| 2592-2601 | 1, 2, 3 |
| 2745-2754 | 1, 3 |
| 2937* | 1 |
| 2961-2970 | 1 |
| 3474-3483 | 1 |
| 3717-3726 | 1 |
| 3789-3798 | 1 |
| 3933-3942 | 1 |
| 4032-4041 | 4 |
| 4104-4113 | 1 |
| 4185-4194 | 1 |

- 1 Formed in situ (at least partially)
 2 Migrated into present position
 3 Contaminant associated with gilsonite
 4 Occurs in ?caved cuttings

5. CONCLUSIONS

1. The vitrinite reflectance data indicates that the sediments from Pelican-5 are sufficiently mature for the generation of:

- light naphthenic oil from resinite rich organic matter below 1350 metres depth.
- significant quantities of gas from vitrinite (and to a lesser extent inertinite) rich organic matter below 2400 metres depth.
- oil from exinite rich organic matter rich in exinites other than resinite, below \approx 2800 metres depth.

Overmature sediments (VR > 1.4%) occur below approximately 4050 metres depth in Pelican-5.

2. Organic richness of the Eastern View Coal Measures in Pelican-5 is generally excellent due to the presence of high proportions of coal in most samples. This high organic richness, although fairly typical of the Eastern View Coal Measures in the Bass Basin, is significantly higher than in other Bass Basin wells previously examined (Yolla-1, Tilana-1, Koorkah-1).

The Cretaceous sediments intersected in Pelican-5 have fair to good organic richness. Coals present in these samples have probably caved from the Eastern View Coal Measures. The good organic richness of these sediments is attributable organic rich shales and Carbonaceous shale.

3. Source potential for the generation of liquid hydrocarbons generally ranges from fair to excellent in the Eastern View Coal Measures (exinite contents 10-40% DOM contents 10-60%). Source potential for gas generation is generally excellent (vitrinite contents 25-90%).

The Cretaceous sediments have fair to excellent source potential for the generation of liquid hydrocarbons due to the presence of bituminite and lamalginite rich bands.

4. Free oil is present in a large proportion of the samples examined. The majority of this oil is thought to have been generated in situ. This is supported by the abundance of exsudatinite in these samples and the similar fluorescence colours of the exsudatinite and oil. The apparent lack of migrated hydrocarbons may be related to low reservoir porosity and permeability.
5. Bitumen containing small accumulations of light oil is present in a large proportion of samples in the interval 2169-3366 metres depth. This bitumen is likely to be a contaminant (gilsonite) from the drilling mud.
6. Bedding in some shale cuttings is contorted by the turbo drilling bit (\approx 4000 metres depth) however, these cuttings do not appear to have oxidation resins (Plate 7).
7. Reflectance measurements taken some on Cretaceous sediments are influenced by reworked vitrinite (Table 1; Figure 1).

6. REFERENCES

- MONIER, F., POWELL, T.G. and SNOWDON, L.R., 1983. Qualitative and quantitative aspects of gas generation during maturation of sedimentary organic matter. Examples from Canadian Frontier basins. In : Bjoroy, M. et al., (eds), *Advances in Organic Chemistry* 1981, Wiley, pp. 487-495.
- SNOWDON, L.R., and POWELL, T.G., 1982. Immature oil and condensate-modification of hydrocarbon generation model for terrestrial organic matter. *Bull. Am. Assoc. Petrol. Geol.*, 66, pp. 775-778.

TABLE 1: SUMMARY OF VITRINITE REFLECTANCE MEASUREMENTS, PELICAN-5

| Depth (m) | Mean Maximum Reflectance | Standard Deviation | Range | Number of Determinations |
|--------------|-----------------------------|-----------------------|-----------|-----------------------------|
| 1851-1860 | 0.37 | 0.03 | 0.31-0.43 | 33 |
| 1999.4* | 0.57 | 0.04 | 0.47-0.65 | 34 |
| 2169-2178 | 0.52 | 0.04 | 0.44-0.58 | 34 |
| 2322-2331 | 0.54 | 0.03 | 0.48-0.64 | 33 |
| 2593-2601 | 0.66 | 0.05 | 0.57-0.77 | 32 |
| 2745-2754 | 0.77 | 0.08 | 0.57-0.87 | 33 |
| 2790** | 0.70 | 0.04 | 0.60-0.78 | 36 |
| 2790-2799 | 0.73 | 0.09 | 0.57-0.90 | 35 |
| 2937* | 0.69 | 0.12 | 0.43-0.98 | 34 |
| 2961-2970 | 0.82 | 0.07 | 0.70-0.94 | 35 |
| 3123-3132 | 0.88 | 0.05 | 0.74-0.97 | 33 |
| 3474-3483 | 0.99 | 0.07 | 0.85-1.14 | 34 |
| 3357-3366 | 0.96 | 0.09 | 0.78-1.19 | 32 |
| 3627-3636 | 1.11 | 0.09 | 0.92-1.23 | 29 |
| 3710* | 1.27 ⁺ | 0.13 | 1.02-1.49 | 31 |
| 3717-3726 | 1.23 ⁺ | 0.09 | 1.02-1.41 | 33 |
| 3789-3798 | 1.27 | 0.08 | 1.14-1.45 | 41 |
| 3907* | 1.52 ⁺ | 0.15 | 1.24-1.88 | 21 |
| 3933-3942 | 1.41 ⁺ | 0.08 | 1.29-1.57 | 38 |
| 4032-4041 | 1.43 | 0.11 | 1.91-1.72 | 35 |
| 4085* | 1.59 ⁺ | 0.16 | 1.29-1.98 | 34 |
| 4104-4113 | 1.40 | 0.10 | 1.18-1.64 | 42 |
| 4185-4194 | 1.41 | 0.08 | 1.29-1.57 | 22 |
| 4247* | 1.67 | 0.15 | 1.36-1.95 | 41 |

*SWC

**Core

⁺Influenced by reworked vitrinite

TABLE 2: PERCENTAGE OF VITRINITE, INERTINITE AND EXINITE IN DISPERSED ORGANIC MATTER, PELICAN-5

| Depth (m) | | Vitrinite | Percentage of Inertinite | Exinite |
|--------------|----------------------------|-----------|-----------------------------|-----------------|
| 1851-1860 | coal | 75 | - | 25 |
| | carb. shl. | 90 | - | 10 |
| 1999.4* | coal | 85 | <<5 | 10 |
| 2169-2178 | coal & silt. | 70 | <5 | 25 |
| 2322-2331 | coal & silt. | 70 | <5 | 25 |
| | sst. | <5 | <5 | 90 ⁺ |
| 2592-2601 | coal & silt. | 70 | 5 | 25 |
| 2745-2754 | coal | 80 | 5 | 15 |
| | shl. & silt. | 45 | 30 | 25 |
| 2790** | coal | 45 | <5 | 40 |
| 2790-2799 | coal, shl. & silt. | 65 | 5 | 30 |
| 2937 | silt. | 55 | 40 | 5 |
| 2961-2970 | coal, shl, silt & carb. | 70 | 10 | 20 |
| 3357-3366 | coal & carb. shl. | 80 | 5 | 15 |
| | shl & silt. | 25 | 65 | 10 |
| 3123-3132 | coal | 75 | 5 | 20 |
| | silt. | 25 | 60 | 15 |
| 3627-3636 | coal & carb. shl. | 80 | 10 | 15 |
| | shl. & silt. | 60 | 30 | 10 |
| 3474-3483 | coal | 75 | 5 | 20 |
| | shl. | 65 | 15 | 20 |
| 3710* | shl. | 40 | 55 | <5 |
| 3717-3726 | coal & carb. shl. | 85 | <5 | 10 |
| | shl. & silt. | 65 | 25 | 10 |
| 3789-3798 | coal & carb. shl. | 85 | 5 | 10 |
| | sst. & silt. | 75 | 15 | 10 |
| 3907* | shl. | 40 | 50 | 10 |
| 3933-3942 | shl. | 10 | 15 | 70 |
| | coal & carb. shl. | 85 | 5 | 10 |

TABLE 2: (continued)

| Depth (m) | | Percentage of | | |
|--------------|-------------------|---------------|------------|---------|
| | | Vitrinite | Inertinite | Exinite |
| 4032-4041 | coal & carb. shl. | 85 | 5 | 10 |
| | shl. & silt. | 5 | 15 | 80 |
| 4085* | shl. | 70 | 20 | 10 |
| 4104-4113 | shl. & silt. | 45 | 15 | 40 |
| | carb. shl. & coal | 80 | 5 | 15 |
| 4185-4194 | shl. | 20 | 10 | 70 |
| | carb. shl. | 70 | 10 | 20 |
| 4247* | shl. | 85 | 10 | 5 |

*SWC

**Core

†Possibly a contaminant from the drilling mud (Gilsonite).

TABLE 3: ORGANIC MATTER TYPE AND ABUNDANCE, PELICAN-5

| Depth (m) | Estimated Volume of DOM (%) | Exinites | Exinite Macerals |
|--------------|--------------------------------|----------|--|
| 1851-1860 | 30-40 | Ab | res,spo,cut,sub,lipto |
| 1999.4* | >60 | Ab | res,sub,spo,cut |
| 2169-2178 | >50 | Ab | res,lipto,cut,spo,sub,exs,?oil |
| 2322-2331 | >20 | Ab | res,sub,spo,cut,lipto,bmen ⁺ , ?oil,exs |
| 2592-2601 | >60 | Ab | res,sub,spo,exs,bmen ⁺ ,cut, ?oil,thuc |
| 2745-2754 | >20 | Ab | spo,cut,res,bmite,exs,lama, bmen ⁺ ,?oil |
| 2790** | >30 | Ab | sub,spo,res,cut,lipto,exs,tela |
| 2790-2799 | >50 | Ab | bmen ⁺ ,sub,spo,bmite,cut,res, exs |
| 2937* | ≈1 | Ra | lama,spo,cut,?oil |
| 2961-2970 | >30 | Ab | bmen,res,sub,spo,cut,exs,?oil, tela |
| 3357-3366 | 20-40 | Sp | res,sub,spo,bmite,bmen ⁺ ,lipto, lama |
| 3123-3132 | ≈20 | Ab | spo,res,cut,bmite,sub |
| 3474-3483 | 10-20 | Co | spo,cut,res,lama,lipto,exs, ?oil |
| 3627-3636 | 10-20 | Sp | spo,lipto,cut,res |
| 3710* | 0.5-1 | Ra-Vr | lipto,lama,spo |
| 3717-3726 | 20-30 | Ra-Sp | spo,cut,bmite,lipto,?oil |
| 3789-3798 | 5-10 | Ra | res,lipto,spo,cut,bmite,?oil |
| 3907* | 0.5-1 | Ra | lama,lipto,spo |
| 3933-3942 | 5-10 | Ab | bmite,lipto,spo,cut,exs,?oil |
| 4032-4041 | 5-10 | Co-Ab | bmite,spo,cut,?oil |
| 4085* | 1-2 | Ra | lama,lipto |
| 4104-4113 | 5-10 | Ab | bmite,?oil,spo |
| 4185-4194 | 5-10 | Ab | bmite,?oil |
| 4247* | 2-3 | Ra | lama,lipto |

*SWC

**Core

⁺Probably a contaminant from the drilling mud (Gilsonite).

TABLE 4: EXINITE MACERAL ABUNDANCE AND FLUORESCENCE CHARACTERISTICS, PELICAN-5

| Depth (m) | Exinite Macerals | Lithology/Comments |
|-----------|---|--|
| 1851-1860 | res (Ab; iG-dO), spo (Ab; mY-mO), cut (Ab; mY-dO), sub (Ab; iY), lipto (Ab; mY-mO) | Chiefly siltstone, 30-40% coal, 10-15% sandstone, ≈5% carbonaceous siltstone. Coals contain up to 35% exinite (approx. 15-20% resinite). |
| 1999.4* | res (Ab; iG-dO), sub (Sp-Co; mO-dO), spo (Sp; mY-mO), cut (Vr; mO) | Coal; inertinite is sclerotinite |
| 2169-2178 | res (Ab; mY-dO), lipto (Ab; mO), spo (Ab; mO), sub (Ab; dO-dB), exs (Ab; iYG-iY), oil (Ra; iYG-iY) | Chiefly coal, ≈10% sandstone, 5-10% siltstone; exsudatinitite is often associated with resinite. Oil occurs in the siltstone and sandstone |
| 2322-2331 | res (Ab; mY-dO), sub (Co; dB), spo (Co; mY-mO), cut (Co; mY-mO), lipto (Sp; mY-dO), bmen (Ra-Sp; dO), ?oil (Ra; iY), exs (Vr; iYG-iY) | Chiefly sandstone, ≈40% coal, 5-10% siltstone; bitumen and ?oil appear to be mainly associated with the sandstone but may be contaminants. Bands of resinite occur up to ≈0.5 mm thick |
| 2592-2601 | res (Ab; mY-dB), sub (Ab; dO-dB), spo (Co; mO), exs (Co; iYG-iY), bmen (Co; mO-dO), cut (Sp; mO), oil (Ra; iYG-iY), thuc (Tr; mO-dB) | Chiefly coal, 5-10% sandstone, 5-10% siltstone; bitumen and some oil may be contaminants. However some oil is not assoc. with the bitumen and may not be a contaminant. Thucholite is evidence of oil migration. |
| 2745-2754 | spo (Ab; mO), cut (Co; mO), res (Co; mO), bmite (Co; dO), exs (Sp; iY-mO), lama (Ra; mO), bmen (Ra; dO-dB), ?oil (Ra-Vr; iY) | Chiefly siltstone and shale; 20-30% carbonaceous shale, 10-20% sandstone; bmen and some oil as above. Exsudatinitite comprises up to 1% of some coal fragments |
| 2790** | sub (Ab; dO-dB), spo (Ab; mO), res (Ab; mO-dO), cut (Co; mO-dO), lipto (Co; dO), exs (Ra-Vr; iY, dB), tela (Tr; iY) | Coal; telalginite is <u>Tasminites</u> |
| 2790-2799 | bmen (Ma; dO), sub (Ab-Ma; dO-dB), spo (Ab; mO), bmite (Ab; dO), cut (Co; mO), res (Co; mO-dB), exs (Co; iYG-dB) | Chiefly coal, 15-20% bitumen, ≈5% siltstone and shale; bitumen may be a contaminant. Some coals contain up to 50% exinite |
| 2937* | lama (Ra; mO), spo (Vr; mO-dO), cut (Vr-Tr; mO), ?oil (Tr; iYG) | Siltstone; ?oil occurs as small accumulations in the siltstone |

TABLE 4: (continued)

| Depth (m) | Exinite Macerals | Lithology/Comments |
|-----------|--|---|
| 2961-2970 | bmen (Ma; d0), res (Co-Ab; m0-dB), sub (Co-Ab; d0-dB), spo (Co; m0), cut (Sp; m0-d0), exs (Sp; dB), oil (Vr; iG) | Chiefly coal, 20-30% bmen, 15-20% sandstone, 10-15% siltstone, 5-10% carbonaceous shale, <5% carbonate; oil is "bleeding" from fractures in the coal |
| 3357-3366 | res (Ra-Sp; d0-nof1), sub (Ra-Sp; dB-nof1), spo (Ra; m0-d0), bmite (Ra; dB), bmen (Ra-dB), lipto (Ra; d0), lama (Ra-Vr; m0-d0) | 30-40% sandstone, 20-30% shale and siltstone, 20-30% coal and carbonaceous shale, 5-10% carbonate; bitumen may be a contaminant. Some shale fragments contain up to 20% exinite. |
| 3123-3132 | spo (Ab; m0-d0), res (Ab; dB), cut (Sp; d0), bmite (Sp; dB), sub (Ra; dB) | Chiefly fine-grained sandstone, 20-30% coal, 10-20% siltstone and shale; some contain up to 30% exinite |
| 3474-3483 | spo (Co; m0-d0), cut (Sp; d0), res (Sp; d0-dB), lama (Ra; m0-d0), lipto (Ra; m0-dB), exs (Vr; iY-i0) | Chiefly sandstone, 20-30% siltstone and shale, 15-20% coal; ?oil occurs in the siltstone and shale cuttings. Some coals and siltstones contain 25-30% exinite |
| 3627-3636 | spo (Sp; d0), lipto (Sp; d0), cut (Ra; d0), res (Ra; dB), ?oil (Tr; m0) | Chiefly sandstone, 20-30% siltstone and shale, 10-20% coal, 5-10% carbonaceous shale, ?oil occurs in the carbonaceous shales |
| 3710* | lipto (Ra-Vr; d0-dB), lama (Vr; nof1), spo (Tr; nof1) | Shale |
| 3717-3726 | spo (Ra; d0-nof1), cut (Ra; d0-nof1), bmite (Ra; dB-nof1), lipto (Ra; dB-nof1), ?oil (Tr; iY, m0) | ~30% coal, 20-30% sandstone, 20-30% siltstone and shale, 10-20% carbonaceous shale; ?oil in the carb. shale has a moderate orange fluorescence. Two phases of oil (intense yellow and moderate orange fluorescence) occur in the siltstones |
| 3789-3798 | res (Ra; nof1), lipto (Ra; nof1), spo (Vr; nof1), cut (Vr; nof1), bmite (Vr; nof1), oil (Vr; iG-m0) | Chiefly sandstone, 10-15% shale and siltstone, 5-10% coal and carb. shale; some coal and carb. shale cuttings contain up to 20% exinite. Oil in carb. shale as above. Two phases of oil in the siltstones have intense green to intense yellow fluorescence |

TABLE 4: (continued)

| Depth (m) | Exinite Macerals | Lithology/Comments |
|--------------|---|--|
| 3907* | lama (Ra;nof1), lipto (Ra;nof1) spo (Vr;nof1) | Shale |
| 3933-3942 | bmite (Ab;nof1), lipto (Sp;nof1), cut (Ra;nof1), exs (Ra;nof1), ?oil (Vr;iY,m0) | Chiefly shale, 5-10% coal, ≈5% sandstone, ≈5% carb. shale; bituminite is extensively micrinitised. Bedding in some shale cuttings is contorted by the turbo drilling bit, however, cuttings do not appear to be oxidised (Plate 9) |
| 4032-4041 | bmite (Co-Ab;nof1), spo (Ra; nof1), cut (Vr;nof1), ?oil (Tr;m0) | Chiefly shale, 10-15% sand- stone, 5-10% siltstone, 5-10% carb. shale, ≈5% coal. ?Oil occurs in sandstone (?cavings). Bituminite as above |
| 4085* | lama (Ra;nof1), bmite (Ra;nof1), lipto (Ra;nof1) | Shale; bituminite as above. |
| 4104-4113 | bmite (Ab;nof1), ?oil (Ra-Vr; iG-m0), spo (Vr;nof1) | Chiefly shale, 10-20% carb. shale, ≈10% sandstone, ≈5% siltstone, <5% coal; some sandstone, siltstone and shale cuttings appear oil saturated. Some shales contain up to 20% bituminite (extensively micrinitised) |
| 4185-4194 | bmite (Ab;nof1), ?oil (Vr-Tr; iY-m0) | Chiefly shale with silty bands, ≈5% carb. shale; bituminite (extensively micrinitised) occurs in bituminite rich bands (0.1-0.3 mm thick). ?Oil occurs in the silty bands |
| 4247* | lama (Ra;nof1), lipto (Ra;nof1) | Carbonate rich shale |

*SWC

**Core

KEY TO DISPERSED ORGANIC MATTER DESCRIPTIONS

MACERAL GROUPS

V Vitrinite
I Inertinite
E Exinite

EXINITE MACERALS

spo Sporinite
cut Cutinite
res Resinite
sub Suberinite
lipto Liptodetrinite
fluor Fluorinite
exs Exsudatinite
phyto Phytoplankton
tela Telalginite
lama Lamalginite
bmite Bituminite
bmen Bitumen
thuc Thucholite

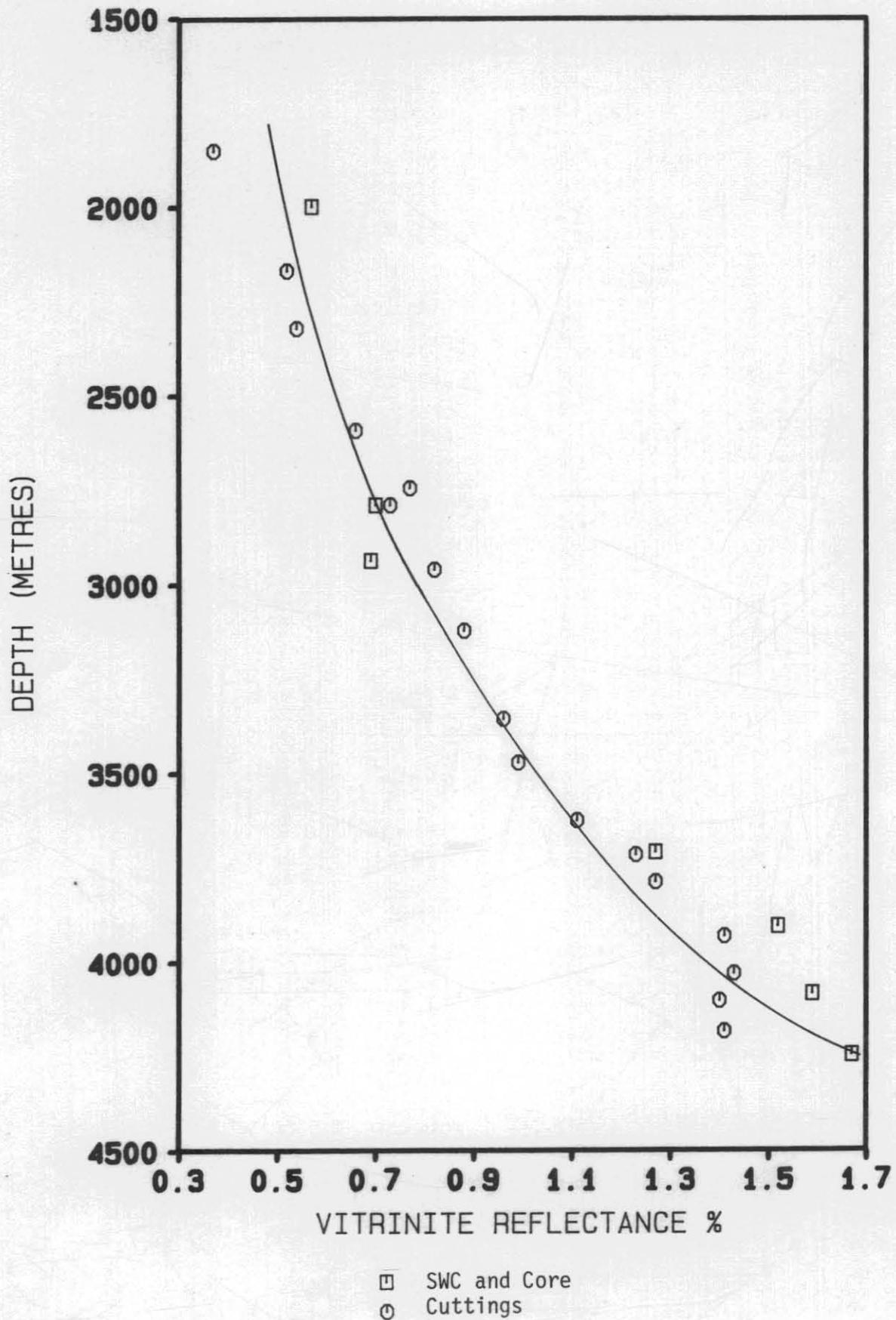
ABUNDANCE (by vol.)

Ma Major >15%
Ab Abundant 2-15%
Co Common 1-2%
Sp Sparse 0.5-1%
Ra Rare 0.1-0.5%
Vr Very Rare \approx 0.1%
Tr Trace <0.1%

FLUORESCENCE COLOUR AND INTENSITY

| | | | |
|------|-----------------|---|----------|
| G | Green | i | Intense |
| Y | Yellow | m | Moderate |
| O | Orange | d | Dull |
| B | Brown | | |
| nofl | No Fluorescence | | |

VITRINITE REFLECTANCE Vs. DEPTH PLOT, PELICAN-5



APPENDIX 1

HISTOGRAMS OF VITRINITE REFLECTANCE
MEASUREMENTS

PELICAN #5

1851-1860 M

SORTED LIST

.31 .31 .32 .33 .33 .33 .33 .33 .33 .34
 .35 .35 .35 .35 .35 .36 .37 .37 .37 .37
 .39 .39 .39 .4 .4 .4 .4 .4 .41 .41
 .41 .42 .43

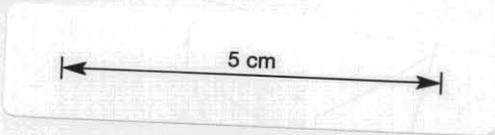
Number of values= 33

MEAN OF VALUES .367
 STD DEVIATION .034

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|---------|------------|
| 31 - 33 | ██████████ |
| 34 - 36 | ██████████ |
| 37 - 39 | ██████████ |
| 40 - 42 | ██████████ |
| 43 - 45 | ██████ |



5 cm

PELICAN #5

2169-2178 M

SORTED LIST

.44 .45 .46 .46 .48 .48 .49 .49 .5 .5
 .51 .52 .52 .52 .52 .52 .53 .53 .53 .54
 .54 .54 .54 .54 .55 .55 .55 .56 .56 .56
 .57 .57 .58 .58

Number of values= 34

MEAN OF VALUES .523
 STD DEVIATION .037

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



← 5 cm →

PELICAN #5

2322-2331 M

SORTED LIST

.48 .48 .5 .5 .51 .51 .51 .51 .52 .52
 .52 .52 .53 .53 .53 .53 .54 .54 .54 .54
 .55 .55 .55 .55 .55 .56 .56 .57 .57 .57
 .59 .61 .64

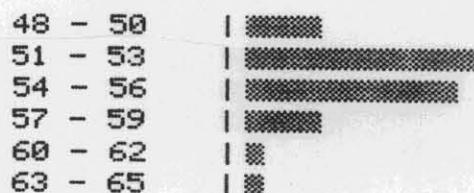
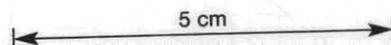
Number of values= 33

MEAN OF VALUES .539

STD DEVIATION .034

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

5 cm

PELICAN #5

2593-2601 M

SORTED LIST

.57 .58 .59 .6 .61 .62 .62 .62 .63 .64
 .65 .65 .65 .65 .66 .66 .66 .66 .67 .67
 .67 .67 .67 .69 .69 .7 .71 .71 .71 .76
 .77 .77

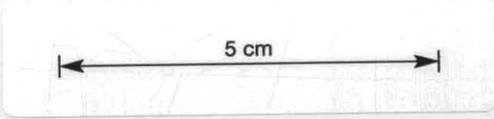
Number of values= 32

MEAN OF VALUES .662
 STD DEVIATION .049

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|---------|----------------------|
| 57 - 61 | ██████████ |
| 62 - 66 | ████████████████████ |
| 67 - 71 | ████████████████████ |
| 72 - 76 | █████ |
| 77 - 81 | █████ |



5 cm

PELICAN #5

2745-54 M

SORTED LIST

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| .57 | .62 | .65 | .68 | .69 | .69 | .71 | .71 | .72 | .73 |
| .74 | .75 | .75 | .76 | .77 | .77 | .78 | .78 | .79 | .79 |
| .81 | .81 | .82 | .82 | .83 | .83 | .84 | .86 | .87 | .87 |
| .87 | .87 | .87 | | | | | | | |

Number of values= 33

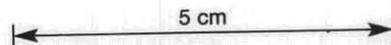
MEAN OF VALUES .77
 STD DEVIATION .076

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|---------|-------|
| 57 - 61 | ■ |
| 62 - 66 | ■■ |
| 67 - 71 | ■■■ |
| 72 - 76 | ■■■■ |
| 77 - 81 | ■■■■■ |
| 82 - 86 | ■■■■ |
| 87 - 91 | ■■■ |

5 cm



PELICAN #5

CORE # 1 2790 .

SORTED LIST

.6 .63 .65 .66 .66 .66 .66 .66 .67 .67
.68 .68 .68 .69 .69 .69 .7 .7 .7 .7
.71 .71 .71 .71 .71 .72 .72 .72 .72 .72
.73 .73 .74 .74 .77 .78

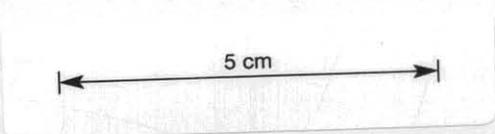
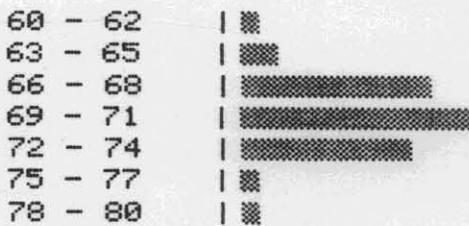
Number of values= 36

MEAN OF VALUES .696

STD DEVIATION .036

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



PELICAN #5

2790-2799 M

SORTED LIST

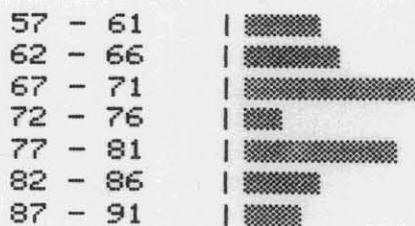
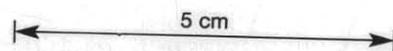
.57 .59 .6 .6 .62 .62 .63 .63 .66 .67
 .68 .68 .68 .68 .7 .71 .71 .71 .75 .75
 .77 .77 .77 .77 .77 .78 .79 .8 .82 .82
 .83 .86 .87 .87 .9

Number of values= 35

MEAN OF VALUES .727
 STD DEVIATION .089

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

5 cm

PELICAN #5

2937 M:SWC

SORTED LIST

.43 .47 .55 .55 .57 .58 .6 .6 .62 .62
 .63 .64 .66 .67 .67 .68 .69 .69 .69 .7
 .7 .71 .72 .72 .73 .73 .78 .78 .82 .86
 .88 .91 .93 .98

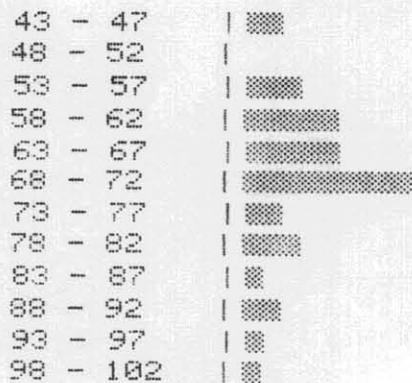
Number of values= 34

MEAN OF VALUES .693

STD DEVIATION .122

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



5 cm

PELICAN #5

2961-2970 M

SORTED LIST

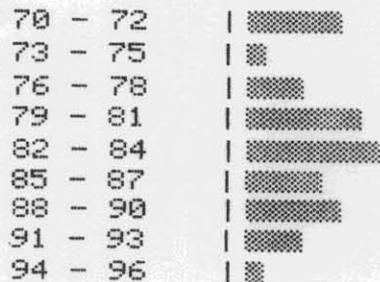
.7 .71 .71 .72 .72 .75 .76 .77 .78 .79
 .79 .79 .79 .8 .8 .82 .82 .82 .83 .84
 .84 .84 .86 .86 .87 .87 .88 .89 .9 .9
 .9 .91 .91 .91 .94

Number of values= 35

MEAN OF VALUES .823
 STD DEVIATION .066

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



← 5 cm →

PELICAN #5

3123-3132 M

SORTED LIST

.74 .79 .82 .82 .83 .84 .84 .85 .85 .86
 .87 .87 .87 .87 .88 .88 .88 .89 .89 .9
 .9 .9 .9 .9 .91 .92 .93 .93 .94 .94
 .95 .96 .97

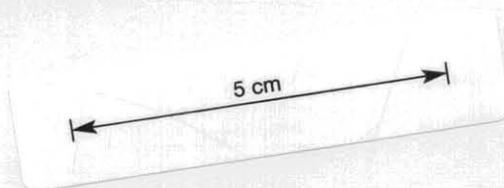
Number of values= 33

MEAN OF VALUES .882
 STD DEVIATION .049

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|---------|----------|
| 74 - 78 | ■ |
| 79 - 83 | ■■■■ |
| 84 - 88 | ■■■■■■■■ |
| 89 - 93 | ■■■■■■■■ |
| 94 - 98 | ■■■■ |



PELICAN #5

3474-3483 M

SORTED LIST

.85 .9 .91 .92 .92 .92 .92 .94 .95 .95
 .95 .96 .96 .96 .97 .98 .98 .98 1 1
 1.01 1.02 1.03 1.03 1.03 1.03 1.05 1.05 1.06 1.07
 1.07 1.07 1.13 1.14
 Number of values= 34

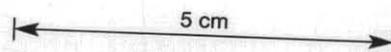
MEAN OF VALUES .991
 STD DEVIATION .065

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|-----------|----------|
| 85 - 89 | ■ |
| 90 - 94 | ■■■■■ |
| 95 - 99 | ■■■■■■■ |
| 100 - 104 | ■■■■■■■■ |
| 105 - 109 | ■■■■■■■■ |
| 110 - 114 | ■■■ |

5 cm



PELICAN # 5

3357-3366 M

SORTED LIST

.78 .8 .84 .87 .88 .88 .89 .89 .89 .94
 .94 .94 .95 .95 .95 .95 .96 .97 .97 .98
 .99 1 1 1.01 1.01 1.02 1.03 1.04 1.05 1.09
 1.1 1.19

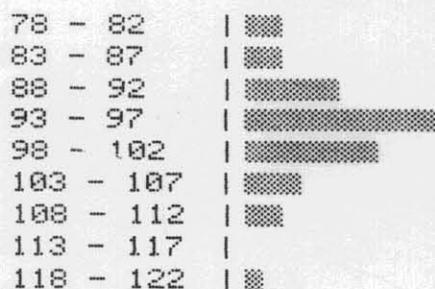
Number of values= 32

MEAN OF VALUES .961

STD DEVIATION .085

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



5 cm

PELICAN #5

3627-3636 M

SORTED LIST

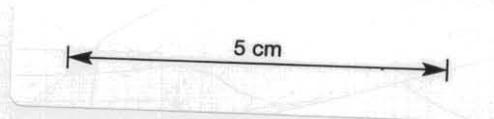
.92 .93 .95 .96 .99 1 1.01 1.04 1.05 1.1
 1.11 1.12 1.13 1.14 1.14 1.15 1.17 1.17 1.17 1.18
 1.19 1.19 1.2 1.2 1.2 1.21 1.22 1.23 1.23
 Number of values= 29

MEAN OF VALUES 1.114
 STD DEVIATION .096

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|----------------|
| 92 - 96 | | ██████ |
| 97 - 101 | | ██████ |
| 102 - 106 | | ██████ |
| 107 - 111 | | ██████ |
| 112 - 116 | | ██████████ |
| 117 - 121 | | ██████████████ |
| 122 - 126 | | ██████ |



PELICAN #5

3710 M;SWC

SORTED LIST

1.02 1.07 1.09 1.12 1.12 1.12 1.15 1.15 1.17 1.19
 1.23 1.24 1.24 1.25 1.25 1.25 1.27 1.27 1.27 1.31
 1.34 1.35 1.37 1.37 1.38 1.4 1.46 1.47 1.47 1.47
 1.49

Number of values= 31

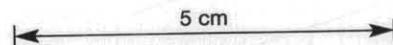
MEAN OF VALUES 1.269

STD DEVIATION .129

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|-----------|---|
| 102 - 106 | █ |
| 107 - 111 | █ |
| 112 - 116 | █ |
| 117 - 121 | █ |
| 122 - 126 | █ |
| 127 - 131 | █ |
| 132 - 136 | █ |
| 137 - 141 | █ |
| 142 - 146 | █ |
| 147 - 151 | █ |



5 cm

PELICAN #5

3717-3726 M

SORTED LIST

1.02 1.08 1.08 1.1 1.13 1.15 1.15 1.16 1.18 1.19
 1.19 1.2 1.2 1.21 1.22 1.22 1.22 1.24 1.24 1.25
 1.25 1.27 1.29 1.3 1.31 1.31 1.31 1.33 1.35 1.36
 1.38 1.39 1.41

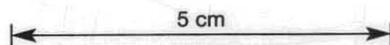
Number of values= 33

MEAN OF VALUES 1.233
 STD DEVIATION .094

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|-----------|---|
| 102 - 106 | █ |
| 107 - 111 | █ |
| 112 - 116 | █ |
| 117 - 121 | █ |
| 122 - 126 | █ |
| 127 - 131 | █ |
| 132 - 136 | █ |
| 137 - 141 | █ |



5 cm

PELICAN #5

3789-3798 M

SORTED LIST

1.14 1.14 1.14 1.15 1.16 1.16 1.18 1.18 1.2 1.2
 1.21 1.23 1.23 1.24 1.25 1.25 1.26 1.26 1.26 1.26
 1.27 1.27 1.27 1.28 1.29 1.29 1.3 1.3 1.3 1.3
 1.31 1.31 1.31 1.32 1.33 1.34 1.34 1.34 1.4 1.44
 1.45

Number of values= 41

MEAN OF VALUES 1.265
 STD DEVIATION .075

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|------------|
| 114 - 118 | | ██████████ |
| 119 - 123 | | ██████ |
| 124 - 128 | | ██████████ |
| 129 - 133 | | ██████████ |
| 134 - 138 | | ██████ |
| 139 - 143 | | ██ |
| 144 - 148 | | ██ |

5 cm

PELICAN #5

3907 M;SWC

SORTED LIST

1.24 1.27 1.28 1.37 1.38 1.46 1.49 1.52 1.53 1.53
 1.55 1.55 1.57 1.57 1.59 1.61 1.61 1.63 1.66 1.67
 1.88

Number of values= 21

MEAN OF VALUES 1.522

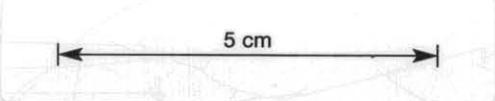
STD DEVIATION .148

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|--------|
| 124 - 128 | | ██████ |
| 129 - 133 | | |
| 134 - 138 | | ████ |
| 139 - 143 | | |
| 144 - 148 | | ██ |
| 149 - 153 | | ██████ |
| 154 - 158 | | ██████ |
| 159 - 163 | | ██████ |
| 164 - 168 | | ████ |
| 169 - 173 | | |
| 174 - 178 | | |
| 179 - 183 | | |
| 184 - 188 | | ██ |

5 cm



PELICAN #5

3933-3942 M

SORTED LIST

1.29 1.31 1.32 1.33 1.34 1.34 1.34 1.35 1.36 1.36
 1.36 1.36 1.37 1.38 1.38 1.38 1.39 1.39 1.4 1.4
 1.4 1.4 1.42 1.43 1.44 1.45 1.45 1.46 1.48 1.51
 1.51 1.51 1.53 1.53 1.54 1.55 1.56 1.57

Number of values= 38

MEAN OF VALUES 1.418
 STD DEVIATION .077

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|------------|
| 129 - 133 | | ██████ |
| 134 - 138 | | ██████████ |
| 139 - 143 | | ██████████ |
| 144 - 148 | | ██████████ |
| 149 - 153 | | ██████████ |
| 154 - 158 | | ██████████ |

← 5 cm →

446160

PELICAN #5

4032-4041 M

SORTED LIST

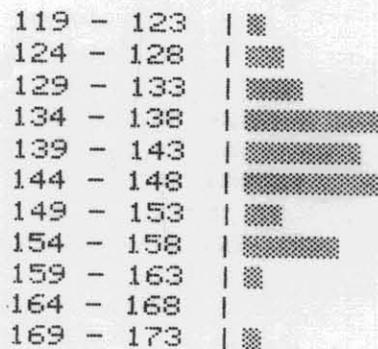
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1.37 1.37 1.37 1.39 1.4 1.41 1.41 1.43 1.43 1.44
1.44 1.46 1.47 1.47 1.48 1.48 1.49 1.53 1.54 1.57
1.57 1.57 1.58 1.61 1.72

Number of values= 35

MEAN OF VALUES 1.431
STD DEVIATION .11

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



5 cm

PELICAN #5

4085 M;SWC

SORTED LIST

1.29 1.3 1.34 1.39 1.43 1.46 1.47 1.47 1.47 1.49
 1.5 1.51 1.52 1.54 1.56 1.57 1.57 1.59 1.59 1.6
 1.62 1.63 1.64 1.65 1.7 1.71 1.74 1.75 1.76 1.78
 1.8 1.8 1.85 1.98

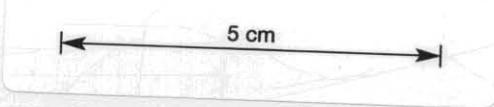
Number of values= 34

MEAN OF VALUES 1.59
 STD DEVIATION .158

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | |
|-----------|--------|
| 129 - 133 | ■■■■ |
| 134 - 138 | ■■ |
| 139 - 143 | ■■■■ |
| 144 - 148 | ■■■■■■ |
| 149 - 153 | ■■■■■■ |
| 154 - 158 | ■■■■■■ |
| 159 - 163 | ■■■■■■ |
| 164 - 168 | ■■■■ |
| 169 - 173 | ■■■■ |
| 174 - 178 | ■■■■■■ |
| 179 - 183 | ■■■■ |
| 184 - 188 | ■■ |
| 189 - 193 | |
| 194 - 198 | ■■ |



5 cm

PELICAN #5

4104-4113 M

SORTED LIST

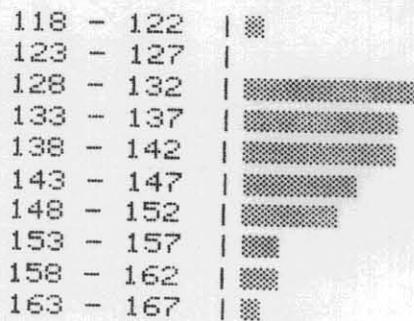
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 1.33 1.34 1.35 1.36 1.36 1.36 1.37 1.37 1.39 1.39
 1.4 1.4 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.44
 1.45 1.46 1.48 1.48 1.48 1.5 1.51 1.54 1.54 1.58
 1.6 1.64

Number of values= 42

MEAN OF VALUES 1.403
 STD DEVIATION .096

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100



5 cm

PELICAN #5

4185-4195 M

SORTED LIST

1.29 1.29 1.29 1.33 1.34 1.34 1.36 1.37 1.38 1.39
 1.39 1.39 1.43 1.44 1.44 1.46 1.47 1.47 1.51 1.55
 1.56 1.57

Number of values= 22

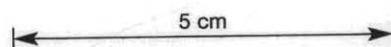
MEAN OF VALUES 1.412
 STD DEVIATION .084

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|------------|
| 129 - 133 | | ██████████ |
| 134 - 138 | | ██████████ |
| 139 - 143 | | ██████████ |
| 144 - 148 | | ██████████ |
| 149 - 153 | | ██ |
| 154 - 158 | | ██████ |

5 cm



PELICAN #5

4247 M;SWC

SORTED LIST

1.36 1.37 1.42 1.45 1.47 1.48 1.5 1.51 1.56 1.57
 1.57 1.58 1.59 1.6 1.6 1.62 1.63 1.63 1.65 1.65
 1.66 1.7 1.7 1.7 1.72 1.74 1.8 1.8 1.8 1.81
 1.81 1.82 1.83 1.83 1.83 1.83 1.84 1.85 1.86 1.87
 1.95

Number of values= 41

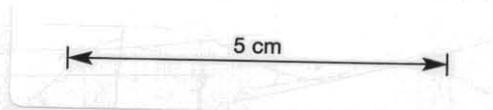
MEAN OF VALUES 1.672

STD DEVIATION .151

HISTOGRAM OF RESULTS

Values are reflectance multiplied by 100

| | | |
|-----------|--|--------|
| 136 - 140 | | █ |
| 141 - 145 | | █ |
| 146 - 150 | | ██ |
| 151 - 155 | | █ |
| 156 - 160 | | ██████ |
| 161 - 165 | | ██████ |
| 166 - 170 | | ██████ |
| 171 - 175 | | ██ |
| 176 - 180 | | ██ |
| 181 - 185 | | ██████ |
| 186 - 190 | | ██ |
| 191 - 195 | | █ |



446165

APPENDIX 2

PLATES

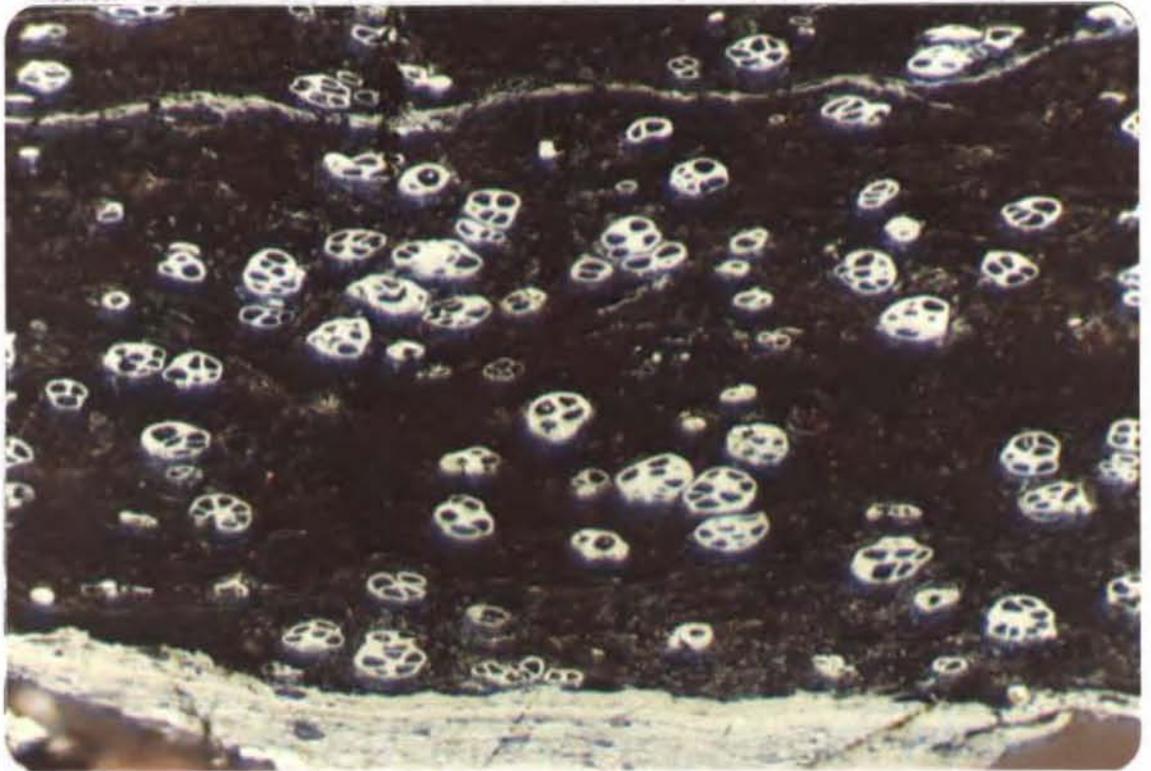


PLATE 1: 2322-2331 m Reflected Light
 This band of resinite (brown) containing sclerotinite (white; open cell lumens) occurs in a vitrinite (white top) rich coal.
 Field Dimensions 0.26 mm x 0.18 mm

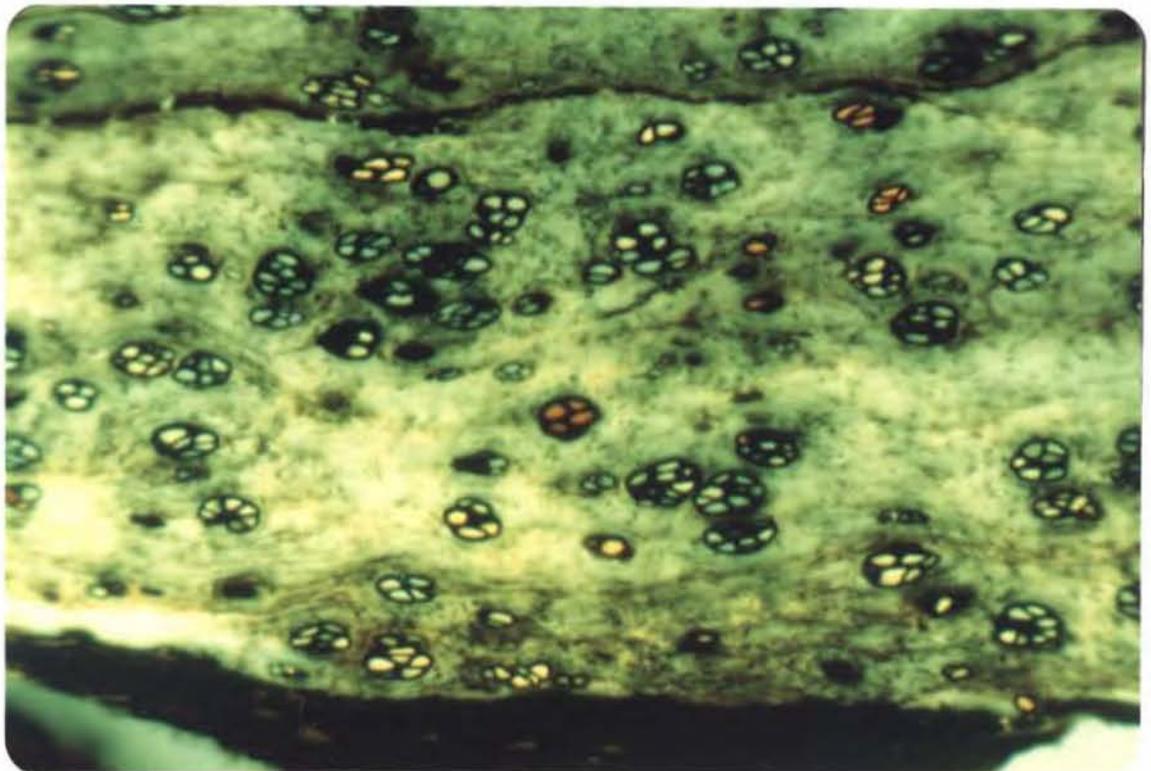


PLATE 2: 2322-2331 m Fluorescence Mode
 Same f.o.v. as Plate 1 showing the variable fluorescence of the resinite and exsudatinite (filling the cell lumens of the sclerotinite) also with variable fluorescence.

5 cm

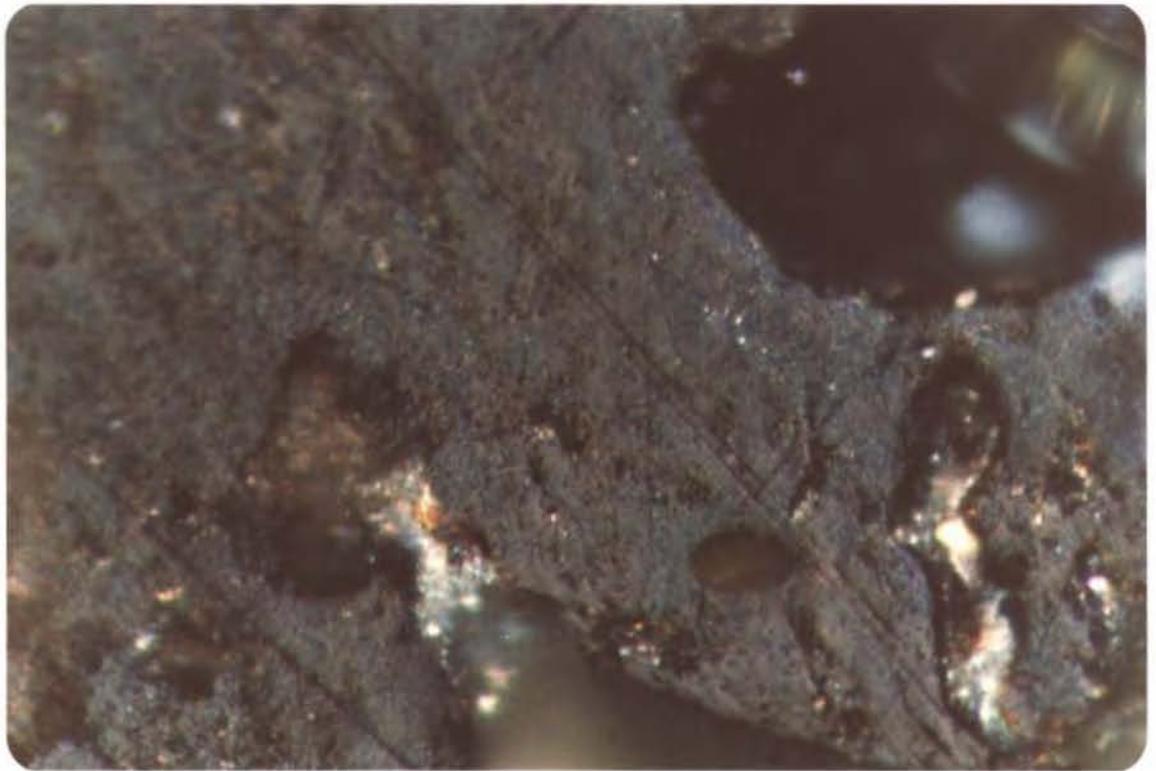


PLATE 3: 2322-2331 m Reflected Light
 The grey material in this plate is asphaltic bitumen - probably
 gilsonite from the drilling mud.
 Field Dimensions 0.26 mm x 0.18 mm

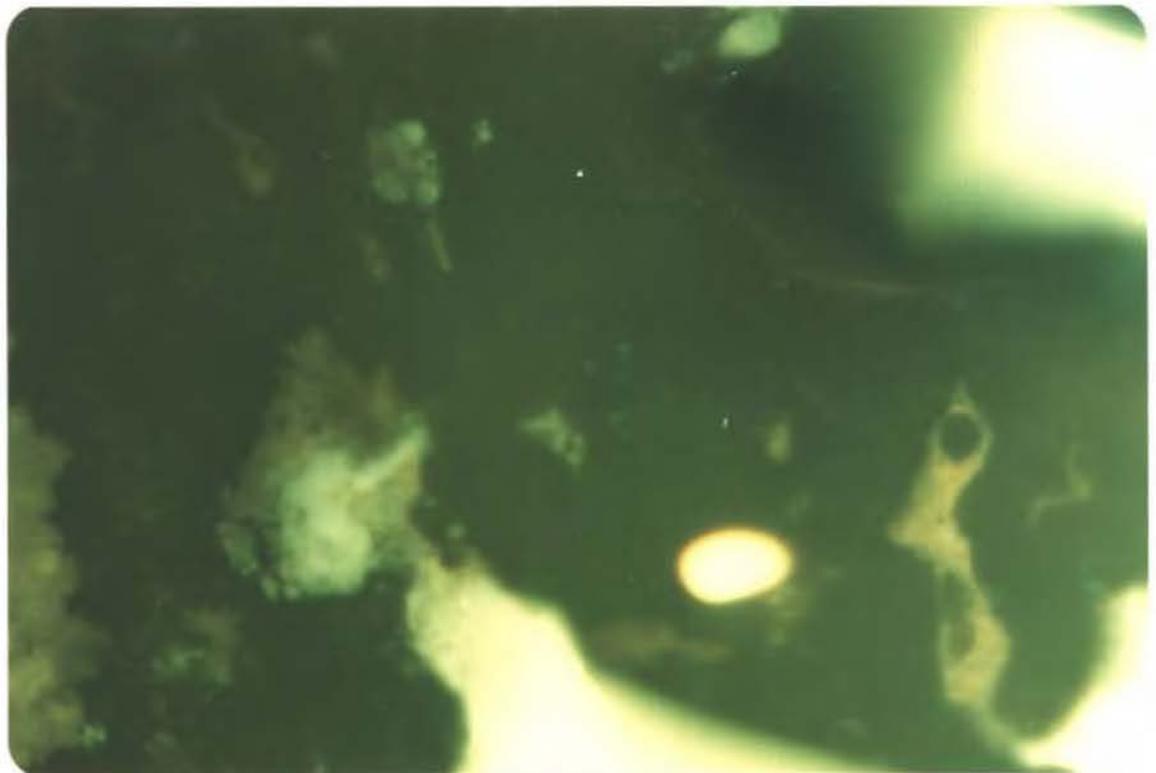


PLATE 4: 2322-2331 m Fluorescence Mode
 Same f.o.v. as Plate 3 showing the dull fluorescence of the
 bitumen and the intense fluorescing oil included in the bitumen
 agglomerate.

5 cm

 A horizontal scale bar with vertical end caps, indicating a length of 5 cm.

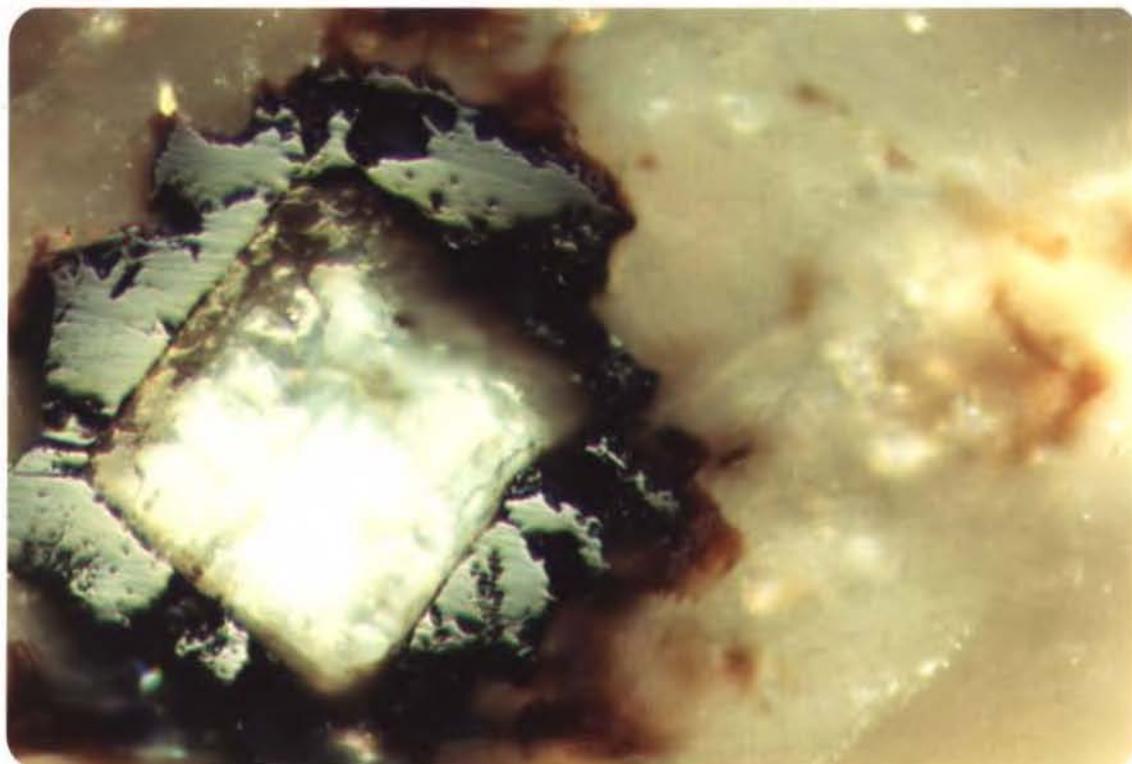


PLATE 5: 2592-2601 m Reflected Light
 Thucholite in this plate has a zoned reflectance (low towards the rim).

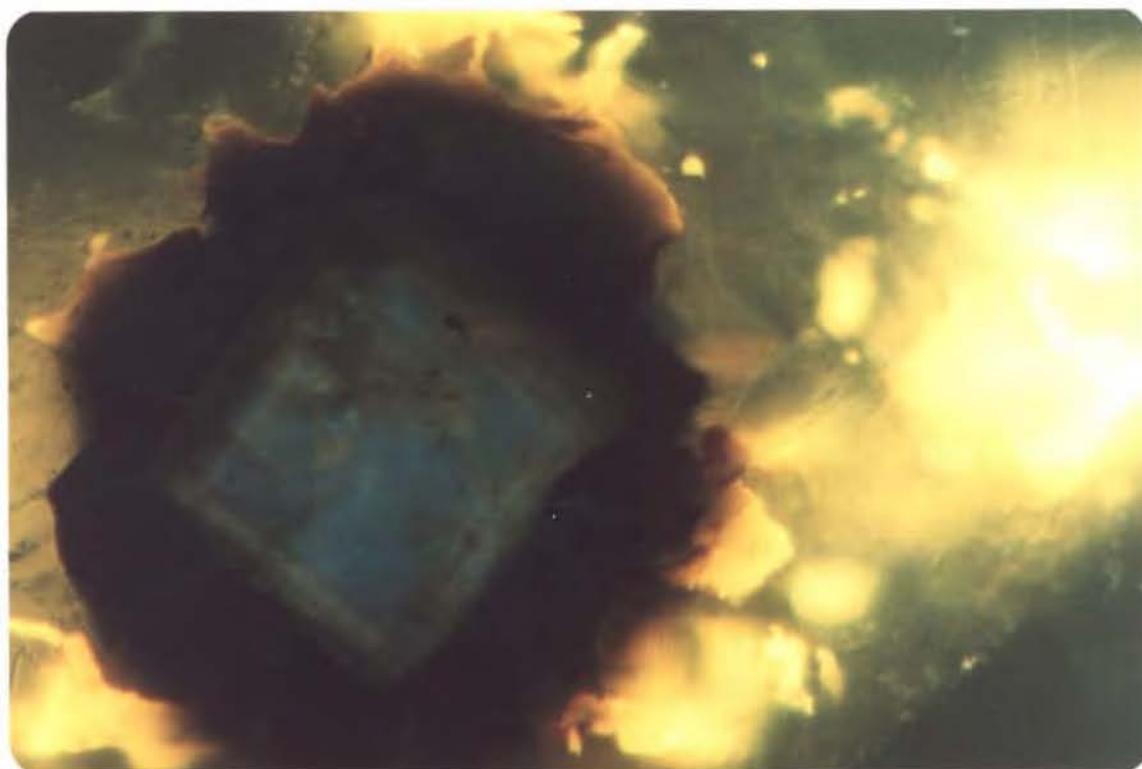


PLATE 6: 2592-2601 m Fluorescence Mode
 Same f.o.v. as Plate 5 showing oil (intense yellow) associated with the thucholite and the zoned fluorescence of the thucholite.

5 cm



PLATE 7: 3933-3942 m

Reflected Light

Contorted bedding in a carbonaceous shale consisting of inertinite (white), vitrinite (white) and micrinitised bituminite (disseminated white). The bedding has been contorted by the turbo drill bit. However, the reflectance of the organic matter towards the edge of the fragment is not measurably higher than that at the centre. This suggests that the vitrinite reflectance determination should not have been effected by the turbo bit in this case. The effect of turbo bits on the reflectance of vitrinite in less mature sediments would probably be more marked.

5 cm

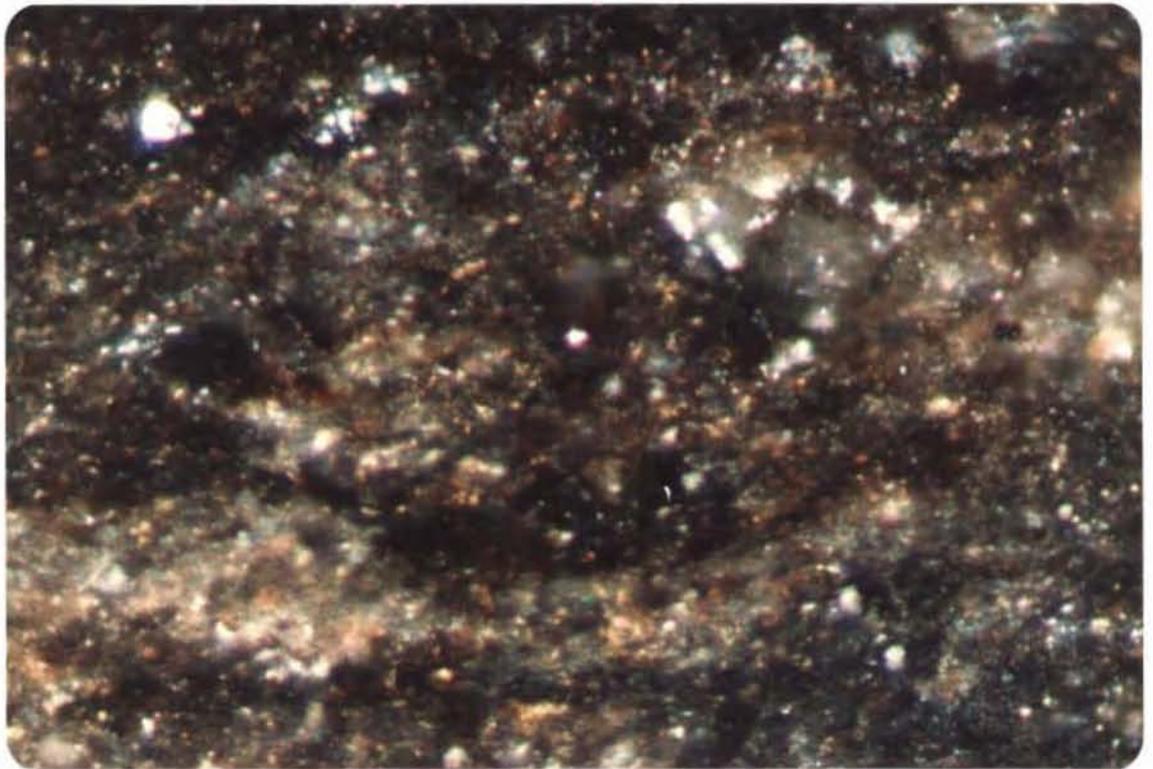


PLATE 8: 4104-4113 m Reflected Light
 This Cretaceous shale is rich in micrinitised (white specks),
 bituminite (brown). Field Dimensions 0.26 mm x 0.18 mm

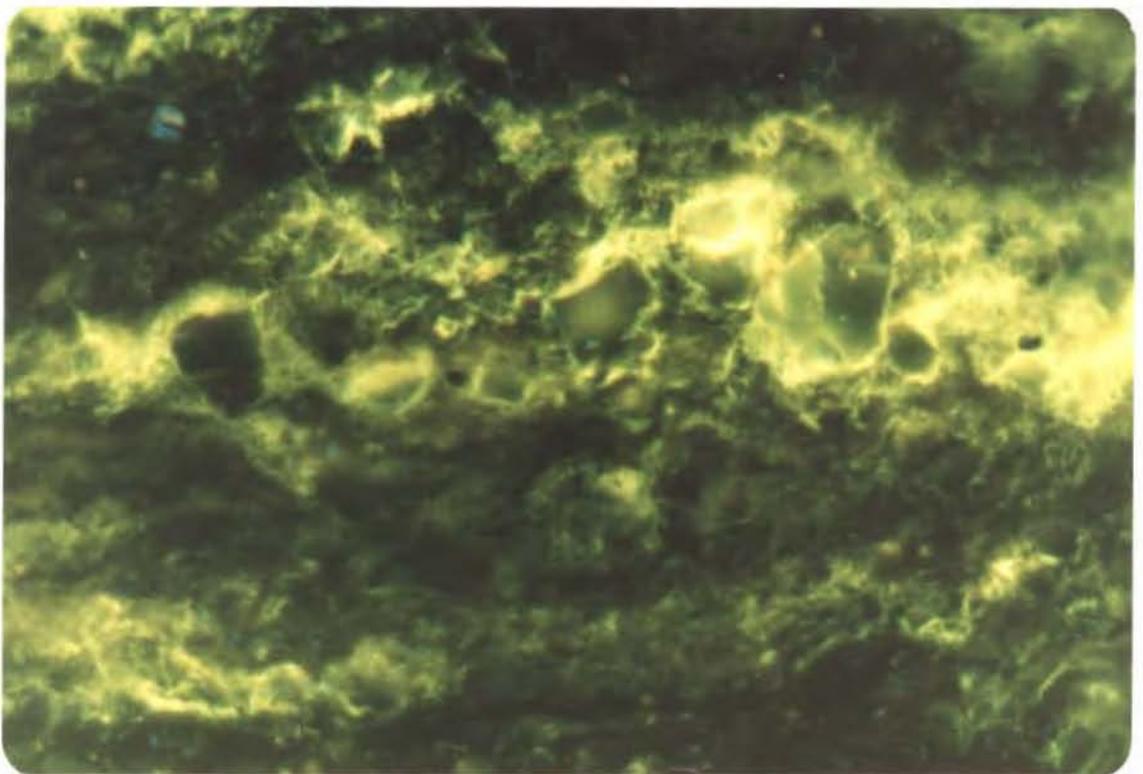


PLATE 9: 4104-4113 m Fluorescence Mode
 Same f.o.v. as Plate 8 showing intensely fluorescing oil
 associated with the larger mineral grains and the lack of
 fluorescence of the bituminite (black).

5 cm

ENCLOSURE D

**THIN SECTION PETROGRAPHY,
SEM & XRD ANALYSES OF
SIDEWALL CORE SAMPLES**

THIN SECTION PETROGRAPHY, SEM AND XRD
ANALYSES OF SIDEWALL CORE SAMPLES FROM
PELICAN-5, T-22-P, BASS BASIN

Amoco Australia Petroleum Company

3/786/0-F6432/86

May 1986

CONTENTS

1. INTRODUCTION
2. RESULTS
3. DISCUSSION

TABLE

1. MINERALOGY OF CLAY FRACTION BY XRD

APPENDICES

1. THIN SECTION PETROGRAPHY
2. SEM PLATES (No. 1 – 9)



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Mineral Development
Laboratories

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South Australia 5063
Phone Adelaide (08) 79 1662
Telex AA82520

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SA 5063
In reply quote:

446174

amdel

30 May 1986

F 3/786/0
F 6432/86

Amoco Australia Petroleum Company
15 Blue Street
NORTH SYDNEY NSW 2060

Attention: Steven C. Bane
Gary M. Kjellgren

REPORT F 6432/86

YOUR REFERENCE: LPD 1100

TITLE: Thin section petrography, SEM and XRD
analyses of sidewall core samples from
Pelican-5, T-22-P, Bass Basin

MATERIAL: Sidewall cores

LOCALITY: PELICAN-5

WORK REQUIRED: Thin section petrography, SEM and XRD

Investigation and Report by: Brian Watson
XRD by: Michael Till
Thin Section Petrography by: Frank Radke

Manager-Petroleum Services Section: Dr Brian G. Steveson

for Dr William G. Spencer
General Manager
Applied Sciences Group

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cap

1. INTRODUCTION

Four sidewall core samples were received for thin section petrography, SEM and XRD analyses. The sample from 6498 metres depth was too small for XRD analysis.

2. RESULTS

XRD results are presented in Table 1, which lists the following:

- (a) The proportion of the sample found to separate into the $-2 \mu\text{m}$ size fraction, as determined by the plummet balance. The figure obtained applies only to the pre-treatment and dispersion conditions used.
- (b) The mineralogy of the $-2 \mu\text{m}$ fraction.

In Table 1 the minerals smectite, "interstratified smectite", illite-smectite and illite form a series, corresponding to the presence of an increasing proportion of illite interstratification. There could be instances where one was uncertain how to describe intermediate degrees of interstratification, but this has not occurred here. Thin section petrography is presented in Appendix 1 and SEM Plates are presented in Appendix 2.

3. DISCUSSION

Authigenic clays are very rare in samples from 2788.5, 3103 and 3498 metres depth. The sandstone at 2787 meters depth contains authigenic kaolinite, smectite and randomly interstratified smectite-illite. Carbonate occurs in the samples from 3103.5 and 3498 metres depth both as fairly large crystals (up to 0.2 mm) and very fine crystals (10-20 μm). This carbonate was identified to be siderite in both thin section and by XRD.

The composition and nature of these sandstones is similar to those examined from similar depths in a previous study of sandstones from Pelican-5 (AMDEL report F6407/86 and F6409/86). However, both studies highlight the complex and variable nature of these sediments.

5. RESULTS

TABLE 1: MINERALOGY OF CLAY FRACTION BY XRD, PELICAN-5

| | 2787 m | | 2788.5 m | | 3103.5 m* | |
|--------------|--------|------|----------|------|-----------------|----|
| -2 μ m % | 6 | | 5 | | 6 | |
| Mineralogy | K | D | ML | D | Sm ⁺ | D |
| | ML | A-SD | M | SD | M | SD |
| | M | A-SD | K | A-SD | K | SD |
| | Q | A | Q | A | Q | Tr |
| | Sm | A | Sid | Tr-A | C | Tr |
| | | | Sm | Tr | | |

*In this sample barite is the dominant mineral. This was ignored when calculating the clay mineral proportions.

MINERAL KEY

C Chlorite
 K Kaolinite
 M Mica/Illite
 ML Mixed layer - interstratified smectite and illite in approximately equal proportions
 Q Quartz
 Sm Smectite
 Sm⁺ Smectite with appreciable proportion of interstratified illite

APPENDIX 1

THIN SECTION PETROGRAPHY

SAMPLE: Core 11, 3498m: TSC47281

Rock Name:

Carbonate Cemented Sandstone

Thin Section:

An optical estimate of the constituents gives the following :

| | <u>%</u> |
|-------------------------|----------|
| Quartz | 40 |
| Carbonate | 35 |
| Chert and lithic clasts | 5 |
| Clay/sericite | 5 |
| Muscovite | 1 |
| Feldspar | Tr-1 |
| Zircon | Tr-1 |
| Opagues | 3 |
| Pores | 10 |

This sample consists mainly of detrital quartz grains between 0.1 and 0.25 mm in size cemented by a granular carbonate matrix. The detrital quartz grains typically exhibit angular to subangular shapes with a very small proportion having subrounded shapes. The carbonate matrix consists of carbonate grains ranging up to 0.2 mm in size which forms an interstitial granular mosaic. Testing of the hand specimen with dilute hydrochloric acid failed to give a reaction indicating no calcite is present. The carbonate generally has a very pale brown to tan colour and is thought to be siderite.

Although quartz is the major detrital component smaller amounts of chert and lithic clasts as well as some feldspar and zircon grains are also disseminated through the rock. The lithic clasts consist mainly of finely granular quartz intergrown with finely divided muscovite/sericite which locally exhibits a foliated texture suggesting that at least some of the clasts are low grade metamorphic rock clasts. Other finely granular cherty clasts are also disseminated through the rock. The detrital feldspar grains range up to 0.2 mm in size and consist of untwinned feldspar. At least some of the feldspar grains show slight marginal replacement with carbonate. Minor muscovite is disseminated through the rock as well developed flakes up to 0.3 mm long which are thought to be of detrital origin.

The rock contains some disseminated weakly birefringent clay as interstitial fillings intergrown with the carbonate matrix and as small pellets or clasts up to 0.2 mm wide. The interstitial clay consists of both weakly birefringent clay (probably kaolinite) as well as smaller amounts of fibrous sericite. The clay pellets typically consist of sericite intergrown with varying amounts of weakly birefringent clay.

The rock contains a moderate proportion of interstitial pores which range in size up to about 0.5 mm wide. At least some of these pores are thought to be original but it is also possible that some of the larger pores could have been produced during sampling.

Opaque grains and aggregates up to 0.15 mm wide are disseminated through the rock. Opaque to translucent iron oxides also locally form fine intergrowths with the interstitial matrix.

This is a fine grained detrital sediment containing a significant proportion of carbonate cement as well as a moderate porosity.

SAMPLE: Core 37, 2788.5m: TSC47282

Rock Name:

Sandstone

Thin Section:

An optical estimate of the constituents gives the following :

| | <u>%</u> |
|-------------------------|----------|
| Quartz | 65 |
| Clay/sericite | 15 |
| Lithic and chert clasts | 4 |
| Siderite | 3 |
| Feldspar | 2 |
| Tourmaline | Tr |
| Zircon | Tr |
| Opagues | 2 |
| Pores | 10 |

This sample consists mainly of an interlocking mosaic of quartz grains with a typical grain size between 0.15 and 0.5 mm. The detrital quartz grains generally exhibit subangular to subrounded shapes but invariably have strong overgrowths. In some cases these overgrowths are defined by inclusions which outline the original detrital grain but in some grains the overgrowths are not differentiated from the original detrital grain. Where these overgrowths penetrate into interstitial void spaces very straight crystal faces are formed and at least locally well terminated overgrowths have developed.

The interstitial regions between the detrital quartz grains consist mainly of angular voids ranging up to 0.2 mm in size. Locally the interstices are filled or partially filled with clay including weakly birefringent clay considered to be kaolinite and a fibrous, sericitic clay. Clay is also concentrated in irregular elongate patches or lenses up to 3 mm wide where it has a translucent, iron stained colour. These lenses have a much smaller proportion of detrital quartz grains and contain some very fine detritus of about 0.05 mm size. These irregular clay patches also contain finely granular intergrowths of translucent brown carbonate believed to be siderite.

Although quartz is the major detrital component minor amounts of other detritus are also present. Detrital lithic and chert clasts are disseminated through the rock and at least some of the clasts appear to be low grade metamorphic rocks comprised of muscovite/sericite with a lepidoblastic foliation intergrown with finely granular quartz. The detrital feldspar grains consist of both polysynthetically twinned plagioclase and untwinned potash feldspar and typically have a turbid character showing a least some alteration to finely divided sericite/clay. Traces of tourmaline and zircon also form small detrital grains up to 0.2 mm wide.

Within very localised areas very weakly developed microstylolitic textures are evident. These microstylolites are generally defined by narrow bands of sericitic phyllosilicates.

Opaques are disseminated through the rock as anhedral grains and aggregates up to 0.3 mm wide which generally occur interstitially between the detrital grains. Opaques in particular tend to be concentrated adjacent to the iron stained argillaceous lenses noted earlier.

This is a quartz-rich detrital sediment containing some argillaceous lenses up to several millimetres wide. The rock shows a good porosity although the original porosity has been reduced by the strong development of overgrowth quartz.

SAMPLE: Core 38, 2787m: TSC47282

Rock Name:
Sandstone

Thin Section:

An optical estimate of the constituents gives the following :

| | <u>%</u> |
|-------------------------|----------|
| Quartz | 65 |
| Sericite/clay | 20 |
| Lithic and chert clasts | 2 |
| Feldspar | 1 |
| Siderite | 1 |
| Zircon | Tr |
| Opaques | 1 |
| Pores | 10 |

This sample consists mainly of detrital quartz grains between 0.1 and 0.6 mm wide intergrown with smaller amounts of other minerals. Most of the quartz grains are below 0.3 mm in size with only a small proportion of larger grains. Overgrowth quartz is well developed and in some grains defined by a band of inclusions although in most cases the overgrowth quartz is difficult to distinguish from the original quartz grains. The development of overgrowth quartz has locally produced an interlocking quartz mosaic. Straight crystal faces occur where overgrowth quartz penetrates pores.

The interstitial areas between the quartz grains are generally filled with clay comprised of both very weakly birefringent clay believed to be kaolinite and intergrowths of a more birefringent, fibrous clay termed sericite which probably includes an interstratified clay. Some of the interstitial birefringent clay could represent deformed detrital clay particles and at least some moderately well developed clay particles of apparently detrital origin are present. Clay is also concentrated in very elongate discontinuous stringers up to 0.3 mm wide where it has a translucent, reddish-brown colour. These clay stringers also contain very finely granular intergrowths of siderite. Minor siderite is also intergrown with some of the other interstitial clay as small crystals below 0.05 mm wide.

The rock contains a moderate proportion of pores as angular interstitial voids between 0.1 and 0.5 mm wide. A small number of very much larger pore spaces up to a few millimetres wide are also present. Some of the larger pore spaces in particular could have been produced by fracturing associated with sampling.

Although quartz is the major detrital component minor feldspar and some lithic and chert clasts also form detrital grains. Some of the lithic clasts have fine foliated characters and are thought to represent low grade metamorphic rock clasts. Traces of zircon also form small detrital grains below 0.1 mm wide.

Opaques are disseminated through the rock as anhedral grains and aggregates up to 0.2 mm wide which typically occur interstitially between the detrital quartz grains.

This is a quartz-rich sandstone somewhat similar to the Core 37 sample.

SAMPLE: Core 53, 3103.5m: TSC47284

Rock Name:

Carbonate Cemented Sandstone

Thin Section:

An optical estimate of the constituents gives the following :

| | <u>%</u> |
|-------------------------|----------|
| Quartz | 45 |
| Carbonate | 25 |
| Clay/sericite | 10 |
| Chert and lithic clasts | 5 |
| Opagues | 1 |
| Pores | 15 |

This sample consists mainly of quartz grains ranging up to 0.5 mm in size cemented by an interstitial matrix comprised mainly of carbonate and minor clay minerals. The quartz grains typically exhibit angular to subangular shapes and often have highly broken characters. The fractured character of the quartz grains is locally very strongly developed and could have been produced during sampling.

The interstitial carbonate forms a granular mosaic with a typical grain size of about 0.1 to 0.2 mm and partially fills the angular interstices between the detrital quartz grains. The carbonate typically has a very pale brown to tan colour and is thought to be siderite. Clay also occurs as interstitial fillings between the detrital quartz grains and is often intergrown with the carbonate. The clay includes a very weakly birefringent clay believed to be kaolinite as well as a fibrous more birefringent sericite which could represent a mixed-layer phyllosilicate. Within localised areas clay forms narrow lenticular bodies with a dark reddish-brown iron stained colour. These bodies range up to 0.3 mm in width and have a highly discontinuous character.

The rock contains a significant proportion of pores ranging up to approximately 1 mm in size. Some of the pores are obviously interstitial areas while others are thought to have been produced by deformation during sampling.

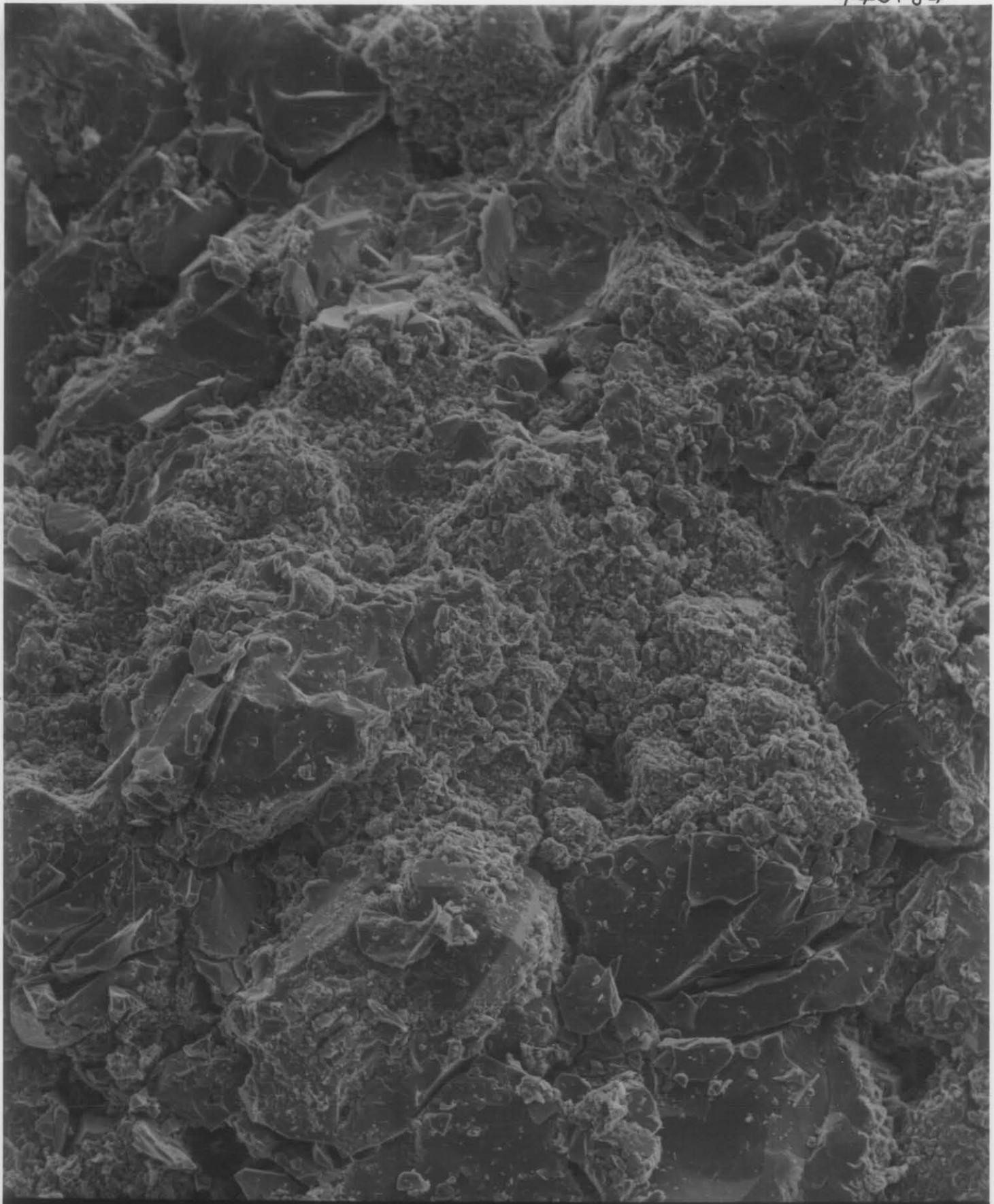
Minor chert and lithic clasts form small detrital grains up to 0.5 mm in size. Many of the lithic clasts consist of fine intergrowths of sericite and clay with finely granular quartz. Minor opaques form small disseminated grains and aggregates below 0.1 mm in size which are generally intergrown with the interstitial clay.

This is a detrital sediment somewhat similar to the Core 11 sample. This sample contains highly fractured quartz and this along with at least some of the porosity is thought to be due to deformational effects associated with sampling.

APPENDIX 2

SEM PLATES

446184



100 10 u |——|
07-1 20 10 21 787 003

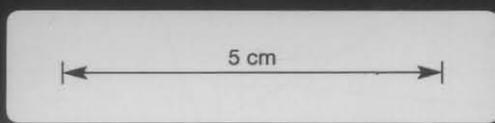
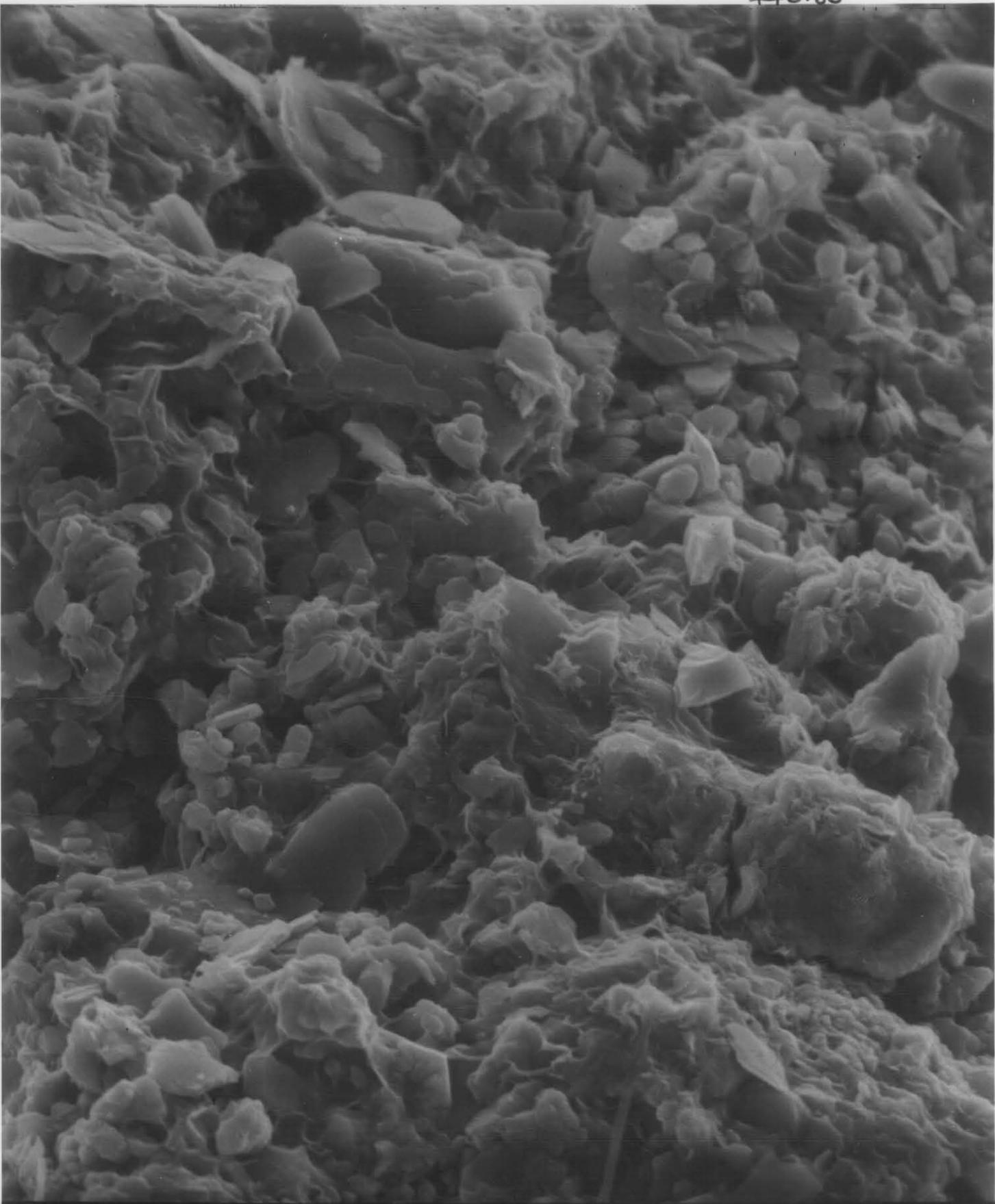


PLATE 1: 2787 m
Lithic fragments are slightly more abundant in this sandstone. Pores interstitial to the overgrown quartz grains are quite common and are enhanced by fracturing of the sample.

446185



0 10 10 μ |—————|
09-2 20 10 20 787 004

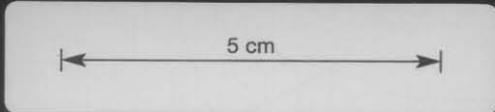
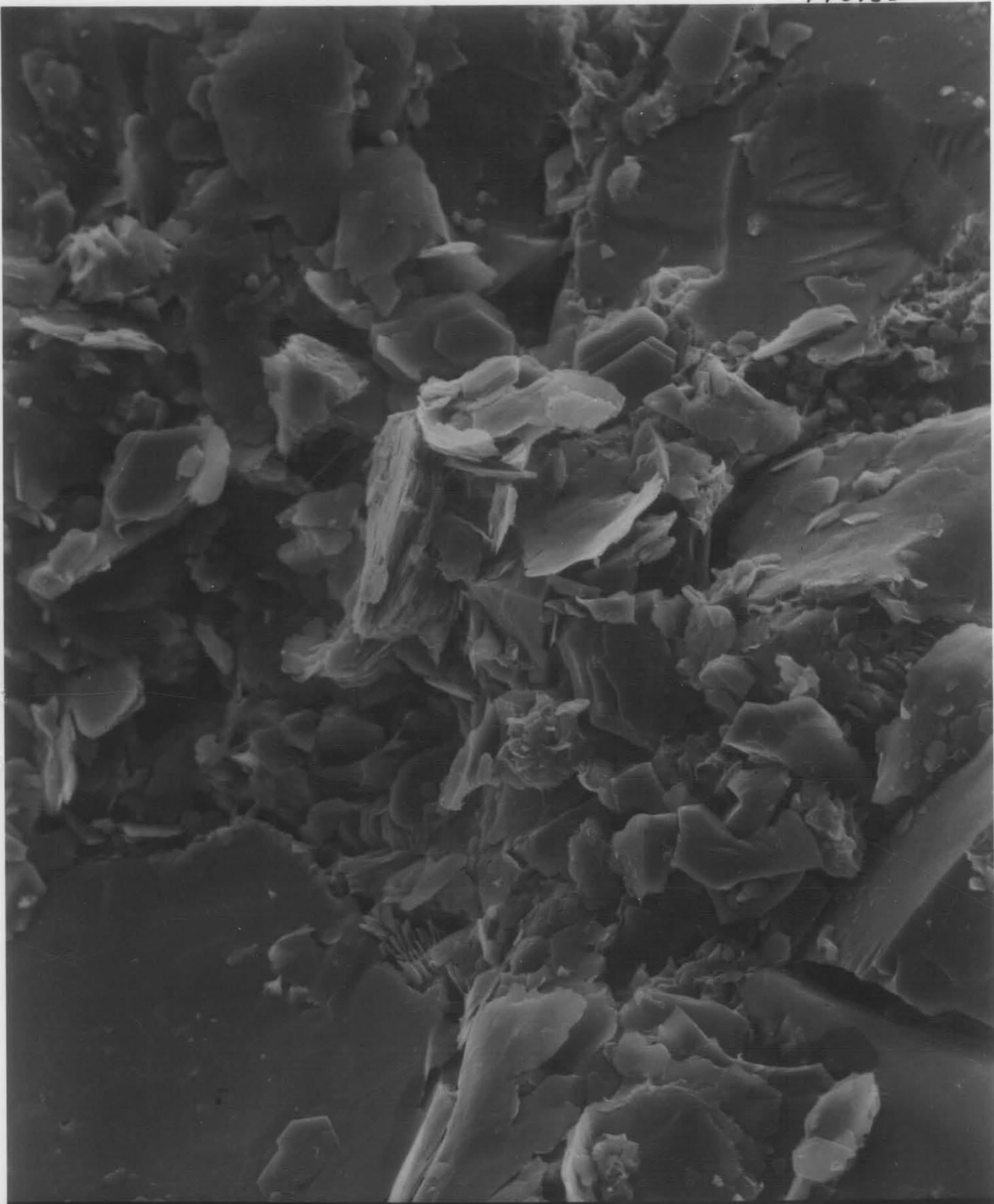


PLATE 2: 2787 m
Platy authigenic kaolinite and smectite occur on this lithic fragment and probably form from recrystallisation of the authigenic clays.

446186



0 10 10 u |——|
05-2 20 10 20 787 005

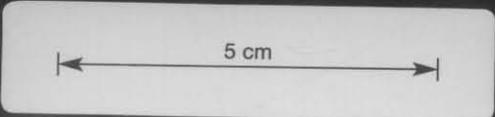
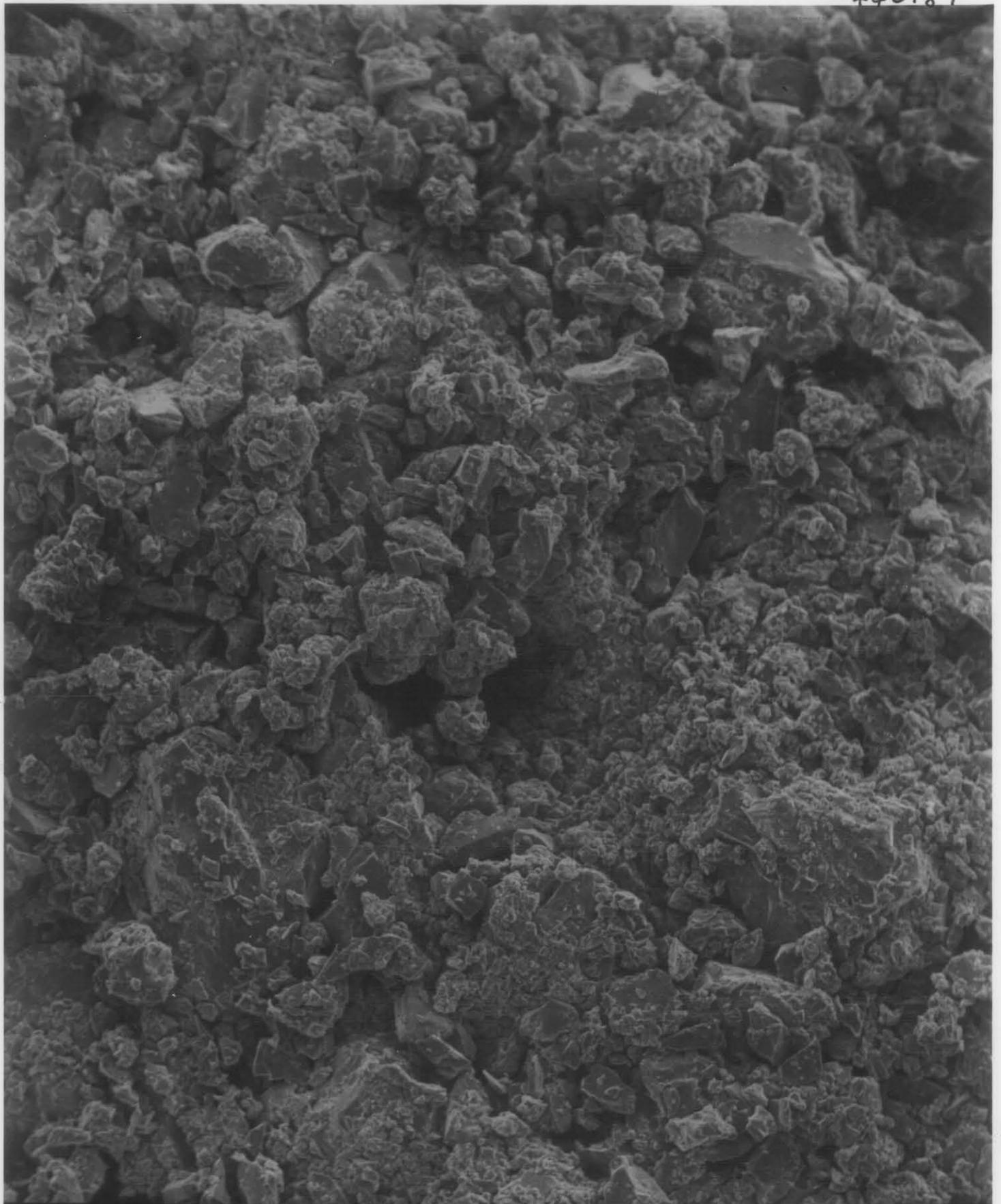


PLATE 3: 2787 m
Authigenic clays occur interstitial to the overgrown quartz grains in this sandstone. Some of the kaolinite (centre) appears to be partially re-dissolved.

446187



100 10 u |——|
05-1 20 10 20 788 001

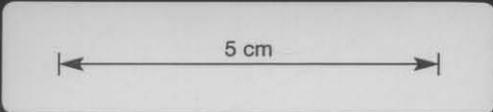


PLATE 4: 2788.5 m
This sandstone appears to be fairly porous with pores generally occurring at the interstices of the overgrown quartz grains. Lithic fragments comprise a fairly small proportion of the rock (10-15%).

446188

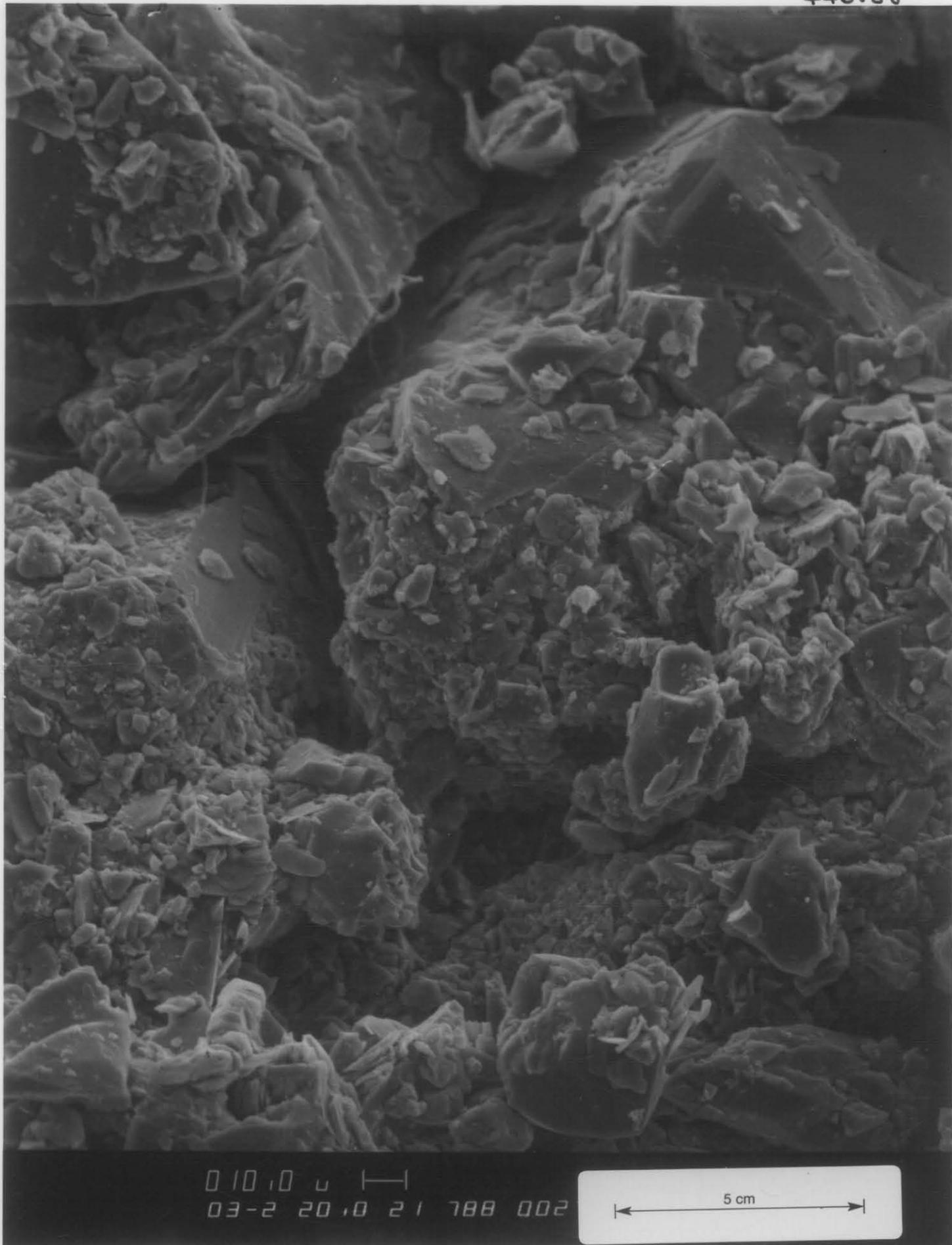
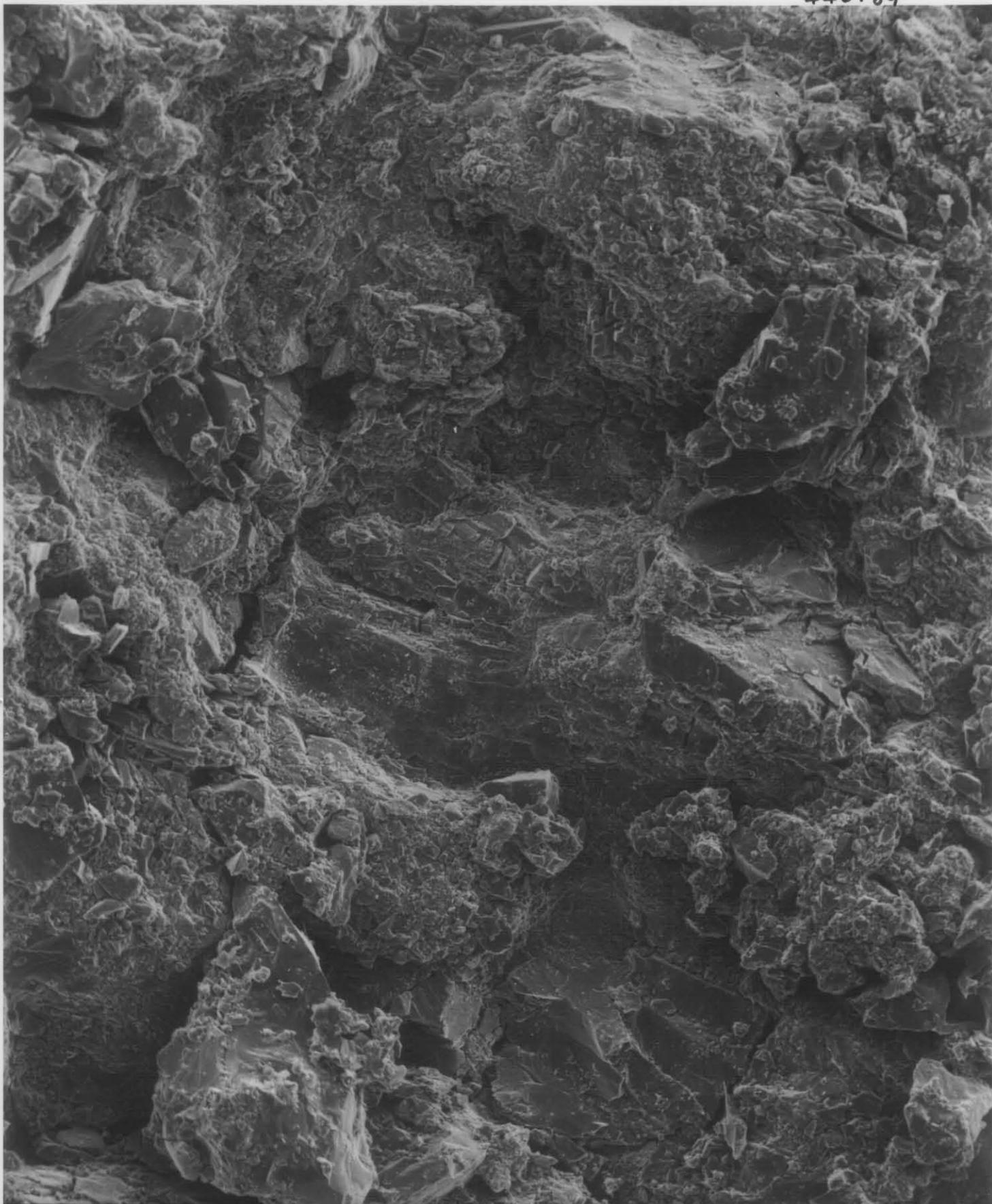


PLATE 5: 2788.5 m
The apparent porosity may be enhanced by fracturing during sample collection. Authigenic clays are very rare to absent and the only clays identified occurred in lithic fragments.

446189



100 10 u |——|
05-1 20 10 21 103 0 10

5 cm

PLATE 6: 3103.5 m
Carbonate is abundant in this sandstone. Porosity is minimal but fracturing due to collection is extensive.

446190

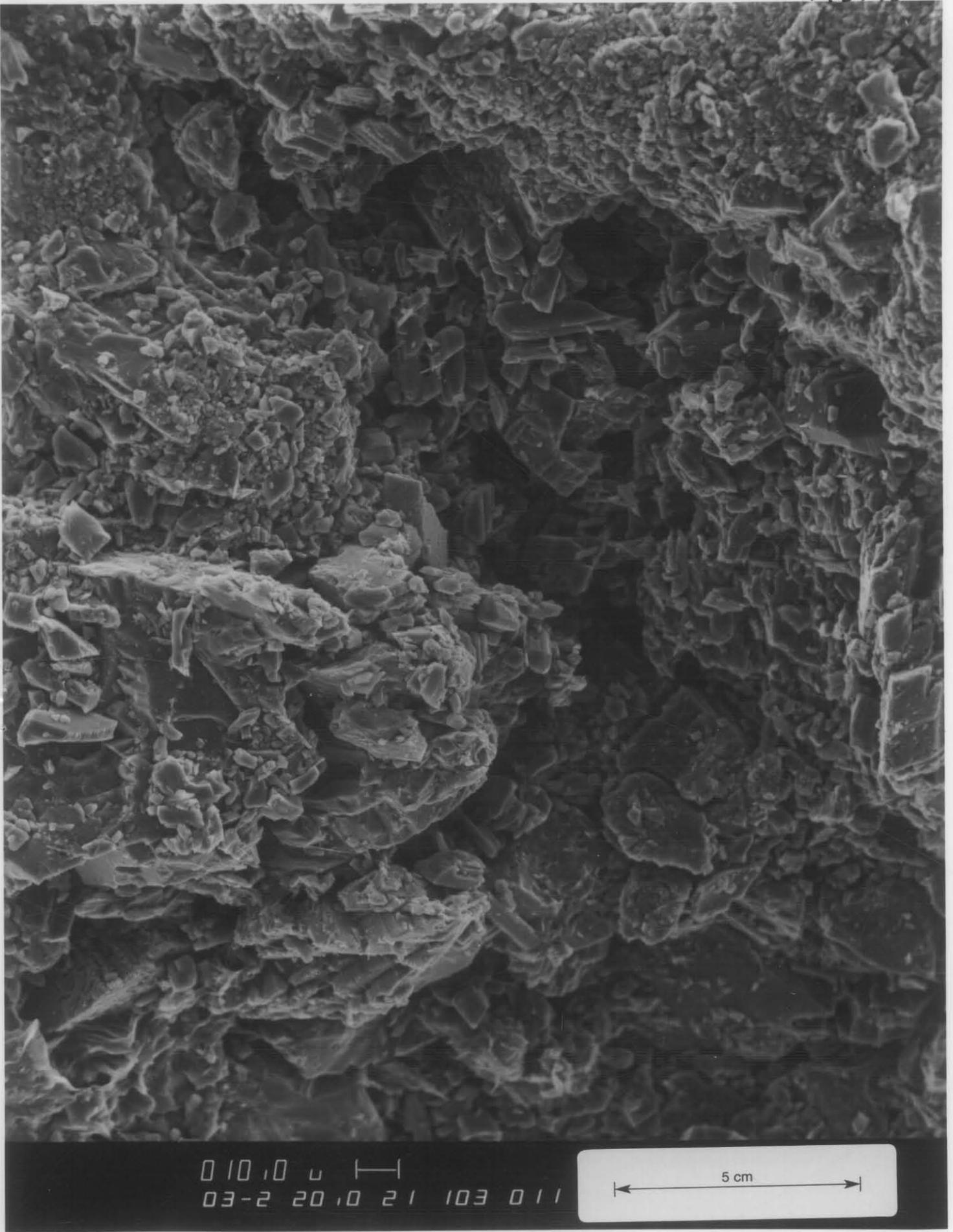


PLATE 7: 3103.5 m
Carbonate occurs as massive intergrown crystals (Plate 6) as well as fine-grained material filling what remains of the pore spaces. Authigenic clays appear to be very rare but may be included in the carbonate crystals.

446191



100.0 μ |-----|
08-1 20.0 22 498 008

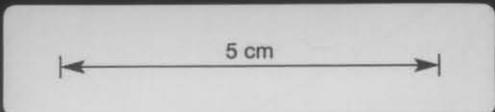
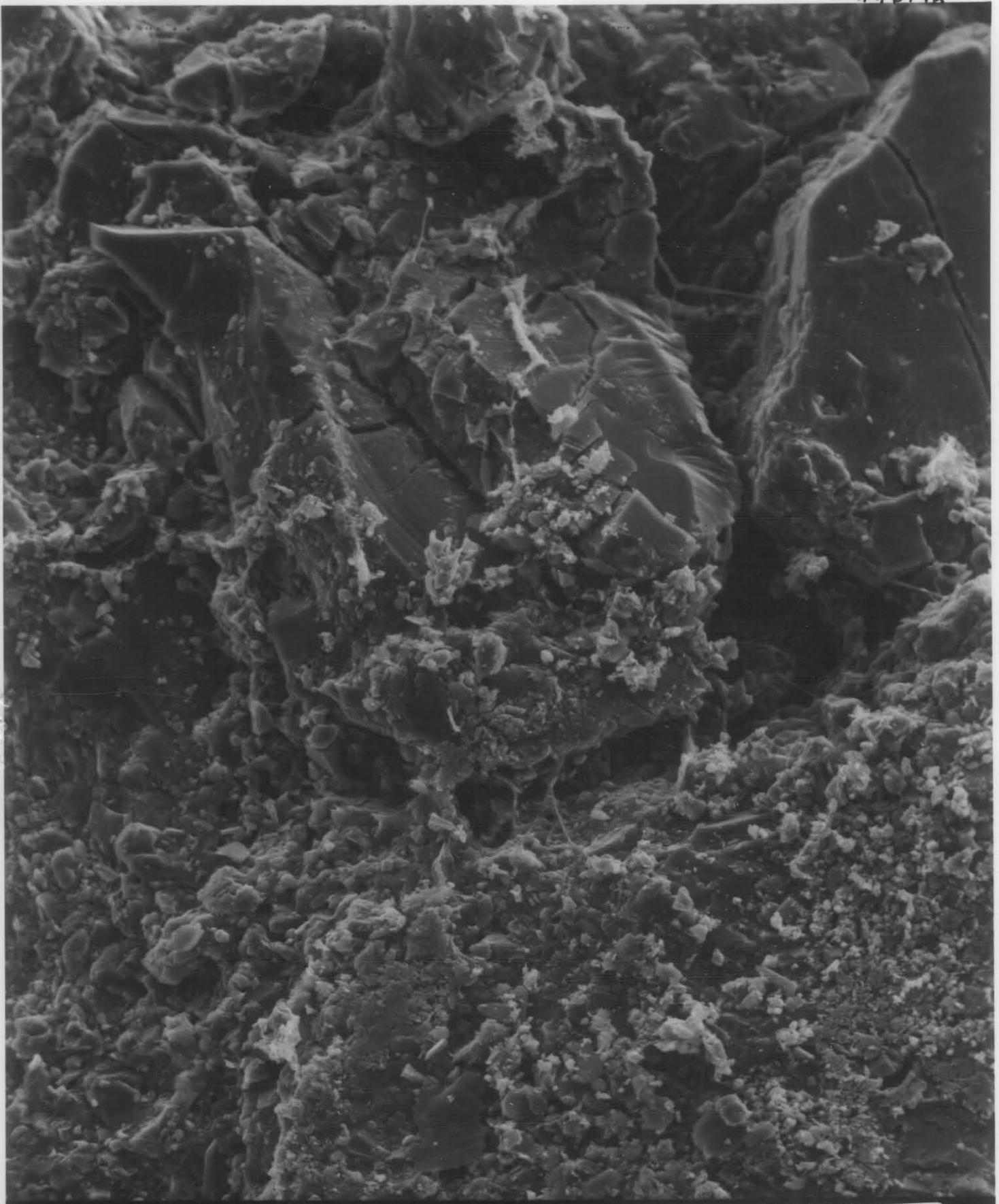


PLATE 8: 3498 m
Carbonate cement has produced a rigid sandstone and filled much of the interstitial porosity. As a result porosity is low although some porosity remains between carbonate grains and at the interstices of the quartz grains.

446192



0 10 10 u |
03-2 20 10 22 498 009

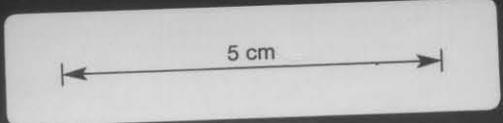


PLATE 9: 3498 m
Authigenic clays are rare as are lithic fragments. Traces of authigenic illite and randomly interstratified smectite-illites occur in the pore spaces of this sandstone.

ENCLOSURE E

RESERVOIR FLUID STUDY

CONTENTS**FILE: AFL 86024**

QUALITY CHECK OF SAMPLES RECEIVED IN THE LABORATORY

HYDROCARBON ANALYSIS OF SEPARATOR GAS SAMPLES

TO UNDECANES PLUS

HIGH TEMPERATURE DISTILLATION OF RESERVOIR FLUID SAMPLE

TO EICOSANES PLUS

FINGERPRINT ANALYSIS – RELATIVE RATIO DATA

BASIC CRUDE TESTS ON STOCK TANK OIL

PRESSURE VS MERCURY INJECTED

PEAK HEIGHT RATION VS CARBON NUMBER

FILE: AFL 86026

QUALITY CHECK OF SAMPLES RECEIVED IN THE LABORATORY

HYDROCARBON ANALYSIS OF SEPARATOR GAS SAMPLES

TO UNDECANES PLUS

PRESSURE VS MERCURY INJECTED

446195

R169/86

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

RESERVOIR FLUID STUDY

CORE LABORATORIES

Petroleum Reservoir Engineering



28th July, 1986

Amoco Australia Petroleum Company,
Level 12,
15 Blue Street,
NORTH SYDNEY, N.S.W. 2060.

Attention: K. Grant

Subject : Reservoir Fluid Study
Well : Pelican #5
File : AFL 86024

Dear Sir,

Gas and liquid samples were collected at the surface of the subject well and submitted to our laboratory for use in a reservoir fluid study. Presented in the following report are the results of this study as requested in attachments one and two of analysis programme MISC-AUP-171-L-400/220-JWH by Amoco Australia Petroleum Company.

Room temperature bubble points of 324 psig and 390 psig were recorded for the pressurized condensate in cylinders SS-1069 and SS-982 respectively. These results are reported on page one and depicted graphically on page eleven.

The hydrocarbon composition of all pressurized gas samples from DST's four and six was measured by extended gas chromatography to the limit of measurable components and is reported on pages two and three according to DST number. Helium analysis conducted on these samples with hydrogen as a carrier indicated none present and is reported within the above compositions.

Compositional analysis of all condensate samples was conducted by high temperature distillation through eicosanes plus and is reported with identification as per Amoco attachments one and two on pages four through eight.

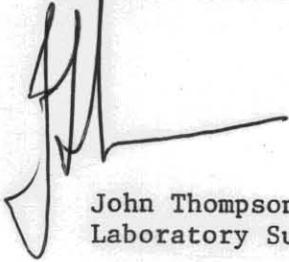
A portion of each DST condensate sample was injected into a temperature programmed chromatograph and run on capillary column, using flame ionization as means of detection. This "Fingerprinting Analysis" is a quantitative determination of the normal paraffins, isoprenoids (farnesane, pristane and phytane) and the key aromatic hydrocarbon contents. A ratio of each component's concentration to that of normal tridecane is presented to exclude the possibility of differences due to weathering. This data is tabulated on page nine and depicted graphically on page twelve.

.../2

Basic crude tests were performed on the stock tank oil as requested by Amoco and this data is reported on page ten.

We thank Amoco Australia Petroleum Co. for the opportunity to be of service. Please do not hesitate in contacting us should you require any further information,

Yours faithfully,

A handwritten signature in black ink, appearing to be 'JT', with a long horizontal stroke extending to the right.

John Thompson,
Laboratory Supervisor

JT/gm/dks

QUALITY CHECK OF SAMPLES RECEIVED IN THE LABORATORY

| | | |
|--------------------------|-----------------|-----------------|
| <u>Cylinder #:</u> | SS 1069 | SS 982 |
| <u>Opening Pressure:</u> | 200 psig @ 67°F | 280 psig @ 66°C |
| <u>Sample #:</u> | 1 | 2 |

| <u>cm³ Mercury Injected</u> | <u>Pressure, psig</u> | <u>cm³ Mercury Injected</u> | <u>Pressure, psig</u> |
|--|---------------------------|--|---------------------------|
| 0 | 312 | 0 | 380 |
| 1 | 315 | 1 | 382 |
| 2 | 318 | 2 | 385 |
| 3 | 321 | 3 | 387 |
| 4 | 324 | 4 | 390 |
| 5 | 365 | 5 | 435 |
| 6 | 405 | 6 | 475 |
| 7 | 445 | 7 | 520 |
| 8 | 485 | 8 | 565 |
| 9 | 525 | 9 | 610 |
| 10 | 565 | 10 | 655 |
| 11 | 605 | | |

Psat = 324 psig @ 67°F

Psat = 390 psig @ 66°F

HYDROCARBON ANALYSIS OF SEPARATOR GAS SAMPLE TO UNDECANES PLUS

DST #4

| <u>Cylinder #:</u> | W3A-1754 | | A11022 | | W3-1647 | |
|---|--------------------|--------------|--------------------|--------------|--------------------|--------------|
| <u>Opening Pressure:</u> | 0 psig @ 72°F | | 39 psig @ 69°F | | 32 psig @ 64°F | |
| <u>Component</u> | <u>Mol Percent</u> | <u>GPM</u> | <u>Mol Percent</u> | <u>GPM</u> | <u>Mol Percent</u> | <u>GPM</u> |
| Helium | 0.00 | | 0.00 | | 0.00 | |
| Hydrogen Sulphide | 0.00 | | 0.00 | | 0.00 | |
| Carbon Dioxide | 9.29 | | 8.70 | | 8.82 | |
| Nitrogen | 0.32 | | 0.28 | | 0.35 | |
| Methane | 66.73 | | 67.79 | | 65.02 | |
| Ethane | 12.00 | 3.201 | 11.35 | 3.028 | 11.83 | 3.156 |
| Propane | 6.74 | 1.850 | 7.02 | 1.927 | 7.27 | 1.995 |
| iso-Butane | 1.39 | 0.454 | 1.47 | 0.480 | 1.69 | 0.552 |
| n-Butane | 1.59 | 0.500 | 1.50 | 0.472 | 2.07 | 0.651 |
| iso-Pentane | 0.56 | 0.205 | 0.55 | 0.201 | 0.80 | 0.292 |
| n-Pentane | 0.46 | 0.166 | 0.48 | 0.174 | 0.70 | 0.253 |
| Hexanes | 0.40 | 0.163 | 0.41 | 0.167 | 0.58 | 0.236 |
| Heptanes | 0.31 | 0.236 (C7+) | 0.29 | 0.204 (C7+) | 0.50 | 0.394 (C7+) |
| Octanes | 0.17 | | 0.15 | | 0.35 | |
| Nonanes | 0.03 | | 0.01 | | 0.02 | |
| Decanes | 0.01 | | Trace | | Trace | |
| Undecanes plus | Trace | | Trace | | Trace | |
| | <u>100.00</u> | <u>6.775</u> | <u>100.00</u> | <u>6.653</u> | <u>100.00</u> | <u>7.529</u> |
| Gas gravity (Air = 1.000): | 0.856 | | 0.848 | | 0.892 | |
| Gross heating value (BTU per cubic foot of dry gas @ 14.696 psia and 60°F): | 1242 | | 1245 | | 1308 | |

HYDROCARBON ANALYSIS OF SEPARATOR GAS SAMPLE TO UNDECANES PLUS

DST #6

| <u>Cylinder #:</u> | SS-134 | | SS-818 | | SS-756 | |
|--------------------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|
| <u>Opening Pressure:</u> | 288 psig @ 51°F | | 31 psig @ 50°F | | 299 psig @ 52°F | |
| <u>Component</u> | <u>Mol Percent</u> | <u>GPM</u> | <u>Mol Percent</u> | <u>GPM</u> | <u>Mol Percent</u> | <u>GPM</u> |
| Helium | 0.00 | | 0.00 | | 0.00 | |
| Hydrogen Sulphide | 0.00 | | 0.00 | | 0.00 | |
| Carbon Dioxide | 10.47 | | 8.86 | | 10.50 | |
| Nitrogen | 0.35 | | 0.28 | | 0.30 | |
| Methane | 68.17 | | 65.33 | | 69.48 | |
| Ethane | 11.06 | 2.950 | 11.94 | 3.185 | 10.95 | 2.921 |
| Propane | 6.58 | 1.806 | 7.34 | 2.015 | 6.11 | 1.677 |
| iso-Butane | 1.29 | 0.421 | 1.70 | 0.555 | 1.10 | 0.359 |
| n-Butane | 1.22 | 0.384 | 2.07 | 0.651 | 0.98 | 0.308 |
| iso-Pentane | 0.31 | 0.113 | 0.81 | 0.296 | 0.22 | 0.080 |
| n-Pentane | 0.22 | 0.080 | 0.70 | 0.253 | 0.14 | 0.051 |
| Hexanes | 0.13 | 0.053 | 0.39 | 0.159 | 0.09 | 0.037 |
| Heptanes | 0.09 | 0.091 (C7+) | 0.26 | 0.267 (C7+) | 0.06 | 0.059 (C7+) |
| Octanes | 0.07 | | 0.20 | | 0.04 | |
| Nonanes | 0.03 | | 0.09 | | 0.01 | |
| Decanes | 0.01 | | 0.02 | | 0.01 | |
| Undecanes plus | Trace | | 0.01 | | 0.01 | |
| | <u>100.00</u> | <u>5.898</u> | <u>100.00</u> | <u>7.381</u> | <u>100.00</u> | <u>5.492</u> |

Gas gravity (Air = 1.000): 0.829

0.880

0.812

Gross heating value (BTU
per cubic foot of dry gas
@ 14.696 psia and 60°F): 1170

1291

1143

HIGH TEMPERATURE DISTILLATION OF
RESERVOIR FLUID SAMPLE TO EICOSANES PLUS

Sample #: 4 - 7 (DST #4/ Condensate Sample start of Flow No.3)

| <u>Component</u> | <u>Cut Temp °C</u> | <u>Mol Percent</u> | <u>Weight Percent</u> | <u>Volume Percent</u> | <u>Density, gm/cc @ 60°F</u> | <u>°API @ 60°F</u> | <u>Mol Weight</u> |
|------------------|------------------------|------------------------|---------------------------|---------------------------|----------------------------------|------------------------|-----------------------|
| Pentanes minus | IBP 49 | 12.18 | 6.44 | 8.10 | 0.6300 | 92.9 | 72 |
| Hexanes | 84 | 15.34 | 10.15 | 11.51 | 0.6981 | 71.0 | 90 |
| Heptanes | 112 | 13.44 | 9.67 | 10.20 | 0.7511 | 56.7 | 98 |
| Octanes | 138 | 14.37 | 11.29 | 11.56 | 0.7737 | 51.2 | 107 |
| Nonanes | 162 | 9.23 | 8.00 | 7.96 | 0.7960 | 46.1 | 118 |
| Decanes | 185 | 6.35 | 6.15 | 6.08 | 0.8012 | 44.9 | 132 |
| Undecanes | 206 | 4.53 | 4.96 | 4.87 | 0.8074 | 43.6 | 149 |
| Dodecanes | 227 | 3.03 | 3.65 | 3.46 | 0.8342 | 38.0 | 164 |
| Tridecanes | 247 | 3.18 | 4.09 | 3.79 | 0.8544 | 34.0 | 175 |
| Tetradecanes | 266 | 4.36 | 5.89 | 5.38 | 0.8675 | 31.5 | 184 |
| Pentadecanes | 285 | 2.05 | 2.98 | 2.71 | 0.8685 | 31.3 | 198 |
| Hexadecanes | 304 | 1.72 | 2.75 | 2.53 | 0.8624 | 32.4 | 218 |
| Heptadecanes | 322 | 1.41 | 2.39 | 2.20 | 0.8594 | 33.0 | 230 |
| Octadecanes | 338 | 1.08 | 1.89 | 1.73 | 0.8626 | 32.4 | 238 |
| Nonadecanes | 353 | 0.78 | 1.43 | 1.31 | 0.8658 | 31.8 | 251 |
| Eicosanes plus | FBP 353 | 6.95 | 18.27 | 16.61 | 0.8727 | 30.5 | 358 |
| | | <u>100.00</u> | <u>100.00</u> | <u>100.00</u> | | | |

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

446201

HIGH TEMPERATURE DISTILLATION OF
RESERVOIR FLUID SAMPLE TO EICOSANES PLUS

Sample #: 5 - 4 (DST #5/ Condensate Sample obtained at manifold during Flow No.1)

| <u>Component</u> | <u>Cut Temp°C</u> | <u>Mol Percent</u> | <u>Weight Percent</u> | <u>Volume Percent</u> | <u>Density, gm/cc @ 60°F</u> | <u>°API @ 60°F</u> | <u>Mol Weight</u> |
|------------------|-----------------------|------------------------|---------------------------|---------------------------|----------------------------------|------------------------|-----------------------|
| Pentanes minus | IBP 49 | 16.97 | 8.68 | 10.81 | 0.6300 | 92.9 | 72 |
| Hexanes | 84 | 10.78 | 6.81 | 7.87 | 0.6795 | 76.5 | 89 |
| Heptanes | 112 | 17.90 | 12.53 | 13.27 | 0.7412 | 59.2 | 99 |
| Octanes | 138 | 11.84 | 9.16 | 9.48 | 0.7591 | 54.7 | 109 |
| Nonanes | 162 | 9.50 | 8.09 | 8.08 | 0.7868 | 48.2 | 120 |
| Decanes | 185 | 5.84 | 5.56 | 5.48 | 0.7963 | 46.0 | 134 |
| Undecanes | 206 | 2.94 | 3.07 | 3.01 | 0.8017 | 44.8 | 147 |
| Dodecanes | 227 | 4.39 | 5.17 | 4.90 | 0.8277 | 39.3 | 166 |
| Tridecanes | 247 | 2.69 | 3.47 | 3.21 | 0.8486 | 35.1 | 182 |
| Tetradecanes | 266 | 3.01 | 4.06 | 3.71 | 0.8586 | 33.1 | 190 |
| Pentadecanes | 285 | 1.57 | 2.35 | 2.14 | 0.8592 | 33.0 | 211 |
| Hexadecanes | 304 | 1.58 | 2.56 | 2.35 | 0.8542 | 34.0 | 228 |
| Heptadecanes | 322 | 1.33 | 2.32 | 2.14 | 0.8506 | 34.7 | 245 |
| Octadecanes | 338 | 0.88 | 1.61 | 1.48 | 0.8540 | 34.0 | 258 |
| Nonadecanes | 353 | 0.79 | 1.48 | 1.36 | 0.8573 | 33.4 | 265 |
| Eicosanes plus | FBP 353 | 8.00 | 23.08 | 20.71 | 0.8746 | 30.1 | 406 |
| | | <u>100.00</u> | <u>100.00</u> | <u>100.00</u> | | | |

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446202

HIGH TEMPERATURE DISTILLATION OF
RESERVOIR FLUID SAMPLE TO EICOSANES PLUS

Sample #: 6 - 8 (DST #6/ Condensate LPRN - M2 Valve)

| <u>Component</u> | <u>Cut Temp °C</u> | <u>Mol Percent</u> | <u>Weight Percent</u> | <u>Volume Percent</u> | <u>Density, gm/cc @ 60°F</u> | <u>°API @ 60°F</u> | <u>Mol Weight</u> |
|------------------|------------------------|------------------------|---------------------------|---------------------------|----------------------------------|------------------------|-----------------------|
| Pentanes minus | IBP 49 | 6.12 | 3.67 | 4.50 | 0.6300 | 92.9 | 72 |
| Hexanes | 84 | 12.19 | 8.89 | 10.04 | 0.6835 | 75.3 | 88 |
| Heptanes | 112 | 25.02 | 20.42 | 21.23 | 0.7436 | 58.6 | 98 |
| Octanes | 138 | 18.76 | 17.04 | 17.18 | 0.7655 | 53.2 | 109 |
| Nonanes | 162 | 11.80 | 11.70 | 11.47 | 0.7878 | 47.9 | 119 |
| Decanes | 185 | 8.04 | 8.71 | 8.45 | 0.7967 | 45.9 | 130 |
| Undecanes | 206 | 3.78 | 4.54 | 4.37 | 0.8017 | 44.8 | 144 |
| Dodecanes | 227 | 2.68 | 3.60 | 3.40 | 0.8168 | 41.6 | 161 |
| Tridecanes | 247 | 2.34 | 3.35 | 3.11 | 0.8330 | 38.2 | 172 |
| Tetradecanes | 266 | 2.39 | 3.65 | 3.32 | 0.8483 | 35.1 | 183 |
| Pentadecanes | 285 | 2.51 | 4.13 | 3.70 | 0.8615 | 32.6 | 197 |
| Hexadecanes | 304 | 0.94 | 1.72 | 1.55 | 0.8549 | 33.9 | 220 |
| Heptadecanes | 322 | 0.88 | 1.71 | 1.55 | 0.8478 | 35.2 | 234 |
| Octadecanes | 338 | 0.58 | 1.25 | 1.13 | 0.8512 | 34.6 | 257 |
| Nonadecanes | 353 | 0.29 | 0.65 | 0.59 | 0.8544 | 34.0 | 269 |
| Eicosanes plus | FBP 353 | 1.68 | 4.97 | 4.41 | 0.8695 | 31.1 | 355 |
| | | <u>100.00</u> | <u>100.00</u> | <u>100.00</u> | | | |

446203

HIGH TEMPERATURE DISTILLATION OF
RESERVOIR FLUID SAMPLE TO EICOSANES PLUS

Sample #: SS-982 (DST #6)

| <u>Component</u> | <u>Cut Temp °C</u> | <u>Mol Percent</u> | <u>Weight Percent</u> | <u>Volume Percent</u> | <u>Density, gm/cc @ 60°F</u> | <u>°API @ 60°F</u> | <u>Mol Weight</u> |
|------------------|------------------------|------------------------|---------------------------|---------------------------|----------------------------------|------------------------|-----------------------|
| Pentanes minus | IBP 49 | 27.59 | 17.03 | 20.87 | 0.6100 | 100.2 | 70 |
| Hexanes | 84 | 12.64 | 9.82 | 10.72 | 0.6840 | 75.2 | 88 |
| Heptanes | 112 | 19.03 | 15.78 | 15.89 | 0.7416 | 59.1 | 94 |
| Octanes | 138 | 10.82 | 10.31 | 10.10 | 0.7618 | 54.1 | 108 |
| Nonanes | 162 | 7.49 | 7.73 | 7.31 | 0.7898 | 47.5 | 117 |
| Decanes | 185 | 5.08 | 5.87 | 5.50 | 0.7966 | 46.0 | 131 |
| Undecanes | 206 | 2.64 | 3.35 | 3.12 | 0.8021 | 44.7 | 144 |
| Dodecanes | 227 | 2.11 | 2.95 | 2.71 | 0.8136 | 42.3 | 159 |
| Tridecanes | 247 | 2.72 | 4.27 | 3.78 | 0.8430 | 36.2 | 178 |
| Tetradecanes | 266 | 2.13 | 3.58 | 3.12 | 0.8560 | 33.6 | 190 |
| Pentadecanes | 285 | 1.36 | 2.50 | 2.18 | 0.8584 | 33.2 | 208 |
| Hexadecanes | 304 | 0.79 | 1.55 | 1.36 | 0.8517 | 34.5 | 221 |
| Heptadecanes | 322 | 0.93 | 1.92 | 1.68 | 0.8499 | 34.8 | 234 |
| Octadecanes | 338 | 0.60 | 1.31 | 1.15 | 0.8500 | 34.8 | 248 |
| Nonadecanes | 353 | 0.49 | 1.13 | 0.99 | 0.8528 | 34.3 | 261 |
| Eicosanes plus | FBP 353 | 3.58 | 10.90 | 9.52 | 0.8554 | 33.8 | 345 |
| | | <u>100.00</u> | <u>100.00</u> | <u>100.00</u> | | | |

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

446204

HIGH TEMPERATURE DISTILLATION OF
RESERVOIR FLUID SAMPLE TO EICOSANES PLUS

Sample #: SS-1069 (DST #6)

| <u>Component</u> | <u>Cut Temp °C</u> | <u>Mol Percent</u> | <u>Weight Percent</u> | <u>Volume Percent</u> | <u>Density, gm/cc @ 60°F</u> | <u>°API @ 60°F</u> | <u>Mol Weight</u> |
|------------------|------------------------|------------------------|---------------------------|---------------------------|----------------------------------|------------------------|-----------------------|
| Pentanes minus | IBP 49 | 28.50 | 17.80 | 21.73 | 0.6100 | 100.2 | 70 |
| Hexanes | 84 | 11.81 | 9.17 | 10.00 | 0.6835 | 75.3 | 87 |
| Heptanes | 112 | 19.48 | 16.86 | 16.92 | 0.7427 | 58.8 | 97 |
| Octanes | 138 | 11.40 | 10.78 | 10.52 | 0.7632 | 53.7 | 106 |
| Nonanes | 162 | 6.96 | 7.21 | 6.80 | 0.7899 | 47.5 | 116 |
| Decanes | 185 | 5.07 | 5.93 | 5.54 | 0.7965 | 46.0 | 131 |
| Undecanes | 206 | 2.30 | 2.92 | 2.71 | 0.8014 | 44.9 | 142 |
| Dodecanes | 227 | 2.28 | 3.13 | 2.87 | 0.8118 | 42.6 | 154 |
| Tridecanes | 247 | 3.27 | 5.08 | 4.49 | 0.8422 | 36.4 | 174 |
| Tetradecanes | 266 | 1.73 | 2.93 | 2.55 | 0.8572 | 33.4 | 190 |
| Pentadecanes | 285 | 1.17 | 2.14 | 1.86 | 0.8579 | 33.3 | 205 |
| Hexadecanes | 304 | 0.83 | 1.62 | 1.42 | 0.8525 | 34.3 | 220 |
| Heptadecanes | 322 | 0.92 | 1.98 | 1.74 | 0.8485 | 35.1 | 241 |
| Octadecanes | 338 | 0.44 | 1.02 | 0.89 | 0.8503 | 34.8 | 256 |
| Nonadecanes | 353 | 0.39 | 0.93 | 0.81 | 0.8528 | 34.3 | 269 |
| Eicosanes plus | FBP 353 | 3.45 | 10.50 | 9.15 | 0.8554 | 33.8 | 341 |
| | | <u>100.00</u> | <u>100.00</u> | <u>100.00</u> | | | |

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

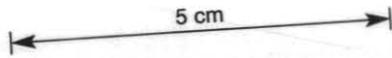
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FINGERPRINT ANALYSIS - RELATIVE RATIO DATA

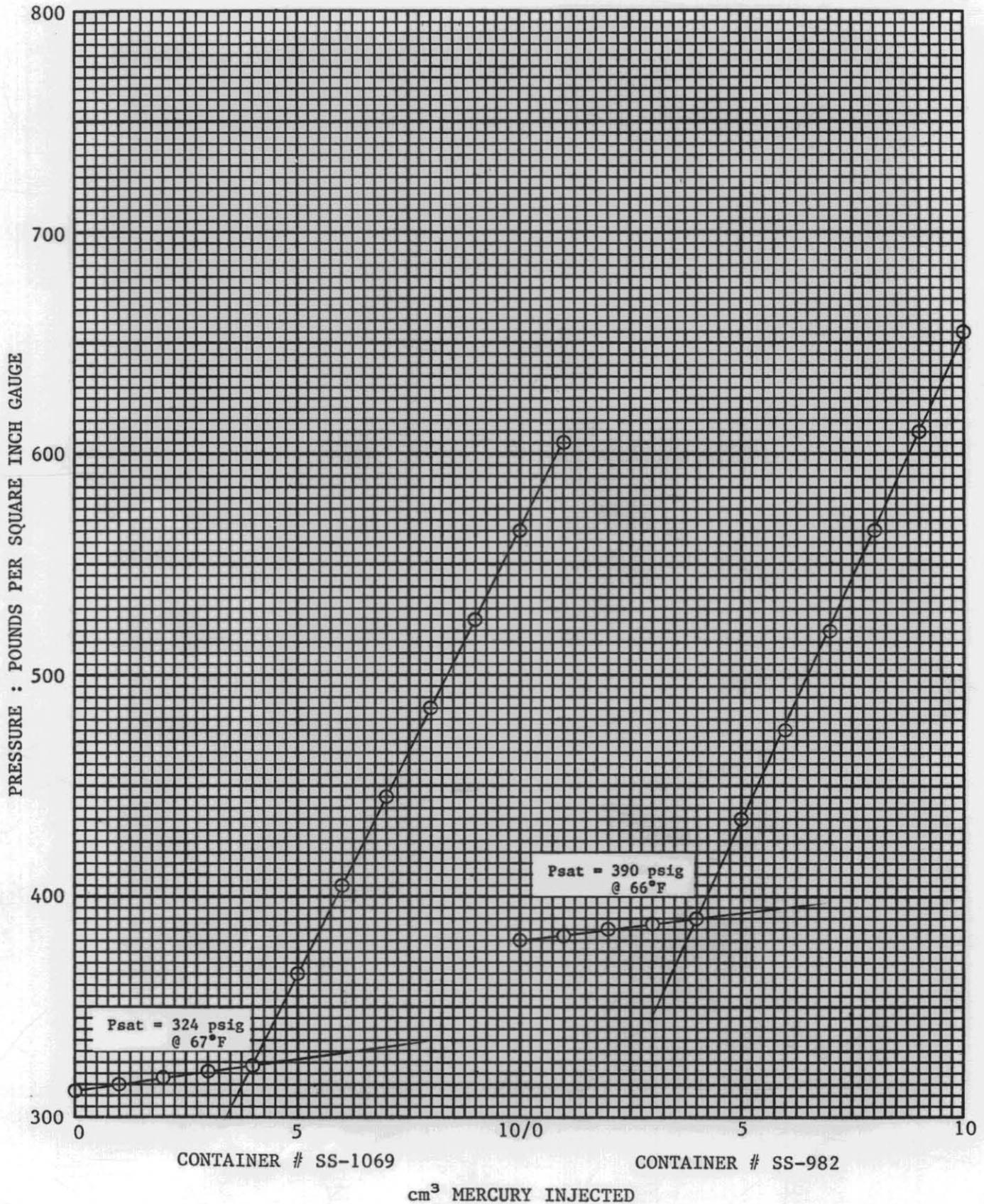
| DST #: | 4 | 5 | 6 | 6 | 6 |
|-----------------------|--------------|--------------|--------------|---------------|----------------|
| <u>Sample:</u> | <u>4 - 7</u> | <u>5 - 4</u> | <u>6 - 8</u> | <u>SS-982</u> | <u>SS-1069</u> |
| nC6/nC13 | 2.36 | 3.86 | 3.56 | 1.52 | 4.46 |
| MCP/nC7 | 1.03 | 1.24 | 0.67 | 0.99 | 1.84 |
| CH/nC7 | 1.08 | 1.12 | 0.78 | 1.12 | 1.60 |
| nC7/nC13 | 1.40 | 2.07 | 3.08 | 1.32 | 1.71 |
| MCH/nC8 | 1.89 | 2.01 | 1.88 | 1.84 | 2.11 |
| To1/nC8 | 1.27 | 1.04 | 0.93 | 1.01 | 1.17 |
| nC8/nC13 | 1.58 | 2.22 | 3.11 | 1.55 | 2.17 |
| Ethyl BZ/nC9 | 0.10 | 0.11 | 0.08 | 0.11 | 0.12 |
| P&M Xyl/nC9 | 0.07 | 0.07 | 0.09 | 0.07 | 0.07 |
| O-Xyl/nC9 | 0.18 | 0.19 | 0.17 | 0.19 | 0.19 |
| nC9/nC13 | 1.51 | 1.97 | 2.57 | 1.39 | 1.85 |
| i-Propyl BZ/nC10 | 0.06 | 0.08 | 0.16 | 0.08 | 0.09 |
| n-Propyl BZ/nC10 | 0.12 | 0.17 | 0.11 | 0.17 | 0.17 |
| 1,2,4 Trim BZ/nC10 | 0.86 | 0.78 | 0.64 | 0.79 | 0.80 |
| nC10/nC13 | 1.48 | 1.68 | 1.97 | 1.28 | 1.64 |
| IM3 Propyl BZ/nC11 | 0.23 | 0.23 | 0.11 | 0.24 | 0.24 |
| Butyl BZ/nC11 | 0.06 | 0.06 | 0.09 | 0.07 | 0.07 |
| 1,3 Dim 4ET BZ/nC11 | 0.23 | 0.24 | 0.17 | 0.26 | 0.25 |
| nC11/nC13 | 1.31 | 1.34 | 1.60 | 1.16 | 1.34 |
| nC12/nC13 | 1.03 | 1.17 | 1.26 | 0.96 | 1.12 |
| <u>Farnesane/nC14</u> | 0.44 | 0.28 | 0.23 | 0.43 | 0.36 |
| nC14/nC13 | 1.00 | 1.07 | 0.84 | 0.96 | 0.93 |
| nC15/nC13 | 0.95 | 0.98 | 0.59 | 0.93 | 0.86 |
| nC16/nC13 | 0.86 | 0.86 | 0.46 | 0.80 | 0.77 |
| nC17/nC13 | 0.73 | 0.75 | 0.38 | 0.62 | 0.58 |
| <u>Pristane/nC17</u> | 0.98 | 1.21 | 1.08 | 1.35 | 1.31 |
| nC18/nC13 | 0.73 | 0.76 | 0.31 | 0.73 | 0.64 |
| <u>Phytane/nC18</u> | 0.22 | 0.22 | 0.14 | 0.25 | 0.23 |
| nC19/nC13 | 0.75 | 0.78 | 0.27 | 0.69 | 0.64 |
| nC20/nC13 | 0.72 | 0.78 | 0.23 | 0.70 | 0.61 |
| nC21/nC13 | 0.69 | 0.76 | 0.20 | 0.67 | 0.55 |
| nC22/nC13 | 0.65 | 0.71 | 0.18 | 0.64 | 0.54 |
| nC23/nC13 | 0.64 | 0.75 | 0.16 | 0.66 | 0.53 |
| nC24/nC13 | 0.66 | 0.71 | 0.13 | 0.59 | 0.48 |
| nC25/nC13 | 0.57 | 0.67 | 0.13 | 0.55 | 0.44 |
| nC26/nC13 | 0.50 | 0.62 | 0.09 | 0.46 | 0.39 |
| nC27/nC13 | 0.51 | 0.64 | 0.09 | 0.46 | 0.37 |
| nC28/nC13 | 0.39 | 0.48 | 0.06 | 0.34 | 0.27 |
| nC29/nC13 | 0.37 | 0.48 | 0.05 | 0.32 | 0.23 |
| nC30/nC13 | 0.25 | 0.32 | 0.03 | 0.19 | 0.15 |

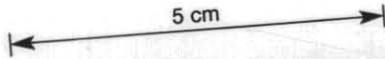
BASIC CRUDE TESTS ON STOCK TANK OIL

| DST #: | 4 | 5 | 6 | 6 | 6 | |
|---|---------|--------|--------|--------|---------|-------|
| Sample: | 4-7 | 5-4 | 6-8 | SS-982 | SS-1069 | |
| API Gravity @ 60°F: | 45.9 | 48.7 | 51.9 | 57.7 | 58.7 | |
| Pour Point : | 54°F | 48°F | 16°F | 43°F | 37°F | |
| Cloud Point : | 59°F | 59°F | 32°F | 52°F | 48°F | |
| Wax Content : | 2.399% | 0.300% | 0.300% | 3.105% | 3.448% | |
| Kinematic Viscosity @ 60°F : (centistokes) | 1.544 | 2.995 | 1.036 | 1.020 | 1.008 | |
| | @ 80°F | 1.389 | 2.262 | 0.943 | 0.946 | 0.907 |
| | @ 100°F | 1.232 | 1.745 | 0.843 | 0.881 | 0.811 |
| | @ 150°F | 0.965 | 1.099 | 0.652 | 0.754 | 0.659 |
| | @ 212°F | 0.747 | 0.831 | 0.525 | 0.717 | 0.551 |
| Water and Sediment : (BS & W) | 5.30% | 0.45% | 0.96% | 0.02% | 0.05% | |

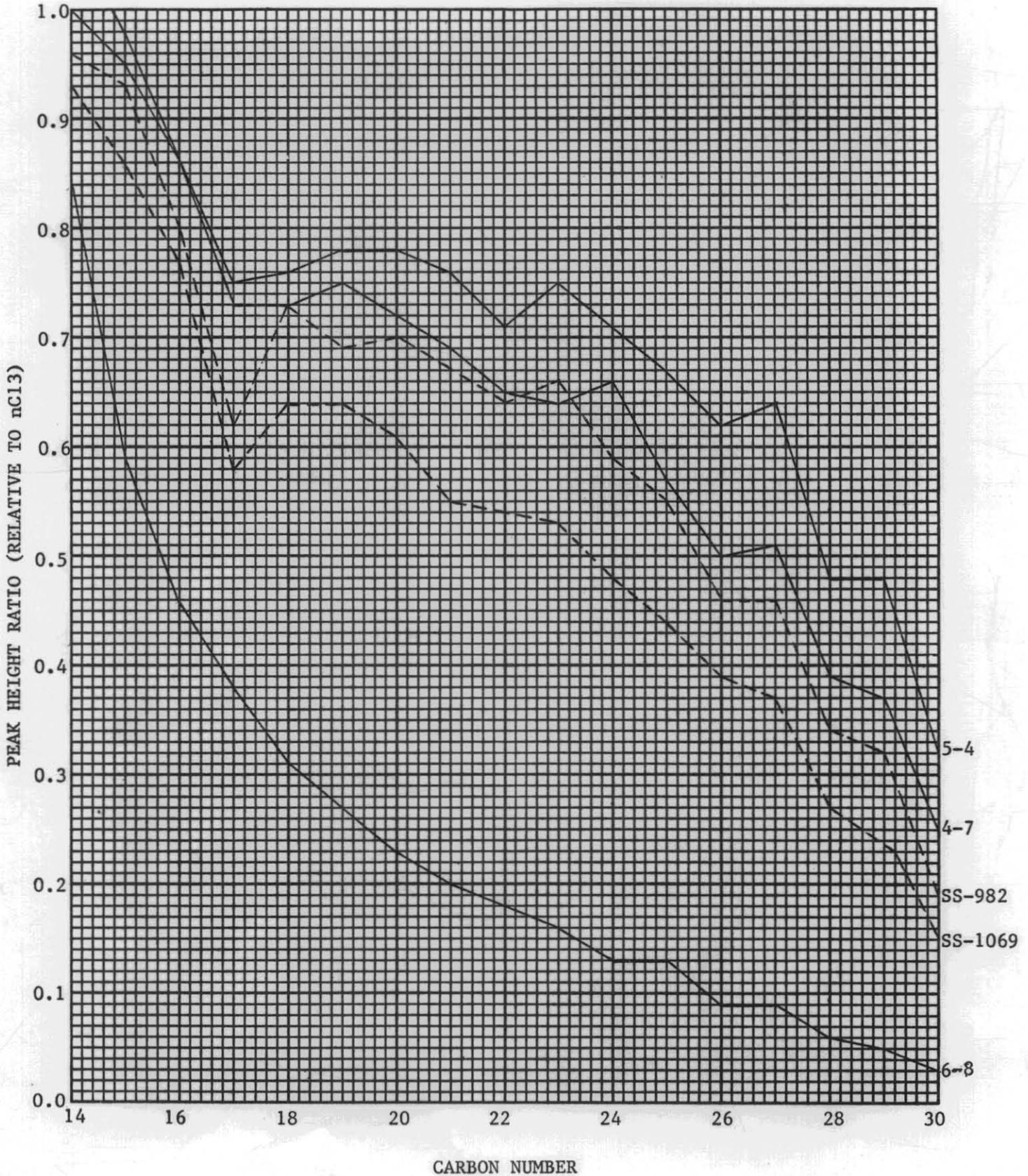


Company Amoco Australia Petroleum Co. Formation _____
 Well Pelican #5 State Tasmania
 Field Pelican Country Australia





Company Amoco Australia Petroleum Co. Formation _____
 Well Pelican #5 State Tasmania
 Field Pelican Country Australia



446210

207186



AMOCO AUSTRALIA PETROLEUM COMPANY

PELICAN #5

RESERVOIR FLUID STUDY

Litton

Core Lab

Core Laboratories Australia Pty. Ltd.
447-449 Belmont Avenue,
Kewdale,
Western Australia 6105
(09) 353 3944

7th October, 1986

Amoco Australia Petroleum Company,
Level 12,
15 Blue Street,
NORTH SYDNEY, N.S.W. 2060.

Attention: K. Grant

Subject : Reservoir Fluid Study
Well : Pelican #5
File : AFL 86026

Dear Sir,

Gas and liquid samples were collected at the surface of the subject well and submitted to our laboratory for use in a reservoir fluid study. Presented in the following report are the results of this study as requested in attachment three of analysis programme MISC-AUP-171-L-400/220-JWH by Amoco Australia Petroleum Company.

The separator gas sample (cylinder no. A11011) was found to have an opening pressure of 313 psig @ 65°F. The cylinder showed no signs of leaks and its hydrocarbon contents were analysed through C₁₁⁺ including helium content. These results are reported on page two.

The separator liquid sample (cylinder no. SS 709) was found to have a bubble point pressure of 450 psig at 67°F. When transferring liquid samples into laboratory cylinders gaseous dirty water was noted on breaking the connection after the first transfer. A new separator liquid sample (cylinder no. SS 1822) was sent to us for continuation of the study.

Cylinder no. SS 1822 arrived with one valve open but plugged. The quality check indicated the sample had a bubble point of 1320 psig @ 65°F which was not representative of the separator conditions. The results of the bubble point checks can be found on page one and are depicted graphically on pages three and four.

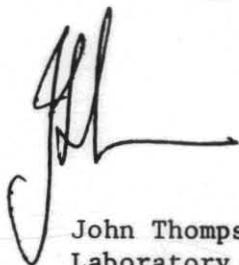
As suggested, sample from the original cylinder (no. SS 709) was transferred into a windowed cell to measure the volume of condensate available. Only 85 cc's of condensate was observed before water entered the cell. A visual bubble point of 522 psig @ 64°F was observed.

Core Laboratories Australia Pty. Ltd.

As it appeared neither sample was representative of the separator liquid, we were instructed to continue the study using cylinder no. SS 982 (liquid) and SS 818 (gas). When it was found that cylinder SS 818 had insufficient gas volume to continue the recombination programme, we were instructed to cease work on the remainder of the study.

We thank Amoco Australia Petroleum Company for the opportunity to have been of service. Please do not hesitate to contact us should you require any further information.

Yours faithfully
CORE LABORATORIES AUSTRALIA PTY.LTD.

A handwritten signature in black ink, appearing to be 'J. Thompson', with a long horizontal stroke extending to the right.

John Thompson
Laboratory Supervisor

JRT:KD:jc:86026

HYDROCARBON ANALYSIS OF SEPARATOR GAS SAMPLE TO UNDECANES PLUSCylinder #:

A11011

Opening Pressure:

313 psig @ 65°F

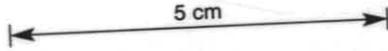
| <u>Component</u> | <u>Mol Percent</u> | <u>GPM</u> |
|-------------------|------------------------|--------------|
| Helium | 0.00 | |
| Hydrogen Sulphide | 0.00 | |
| Carbon Dioxide | 10.44 | |
| Nitrogen | 0.31 | |
| Methane | 69.65 | |
| Ethane | 10.99 | 2.932 |
| Propane | 6.10 | 1.674 |
| iso-Butane | 1.09 | 0.349 |
| n-Butane | 0.95 | 0.299 |
| iso-Pentane | 0.21 | 0.077 |
| n-Pentane | 0.14 | 0.051 |
| Hexanes | 0.07 | 0.029 |
| Heptanes | 0.05 | 0.032 (C7+) |
| Octanes | 0.02 | |
| Nonanes | Trace | |
| Decanes | Trace | |
| Undecanes plus | Trace | |
| | <u>100.00</u> | <u>5.443</u> |

Gas gravity (Air = 1.000):

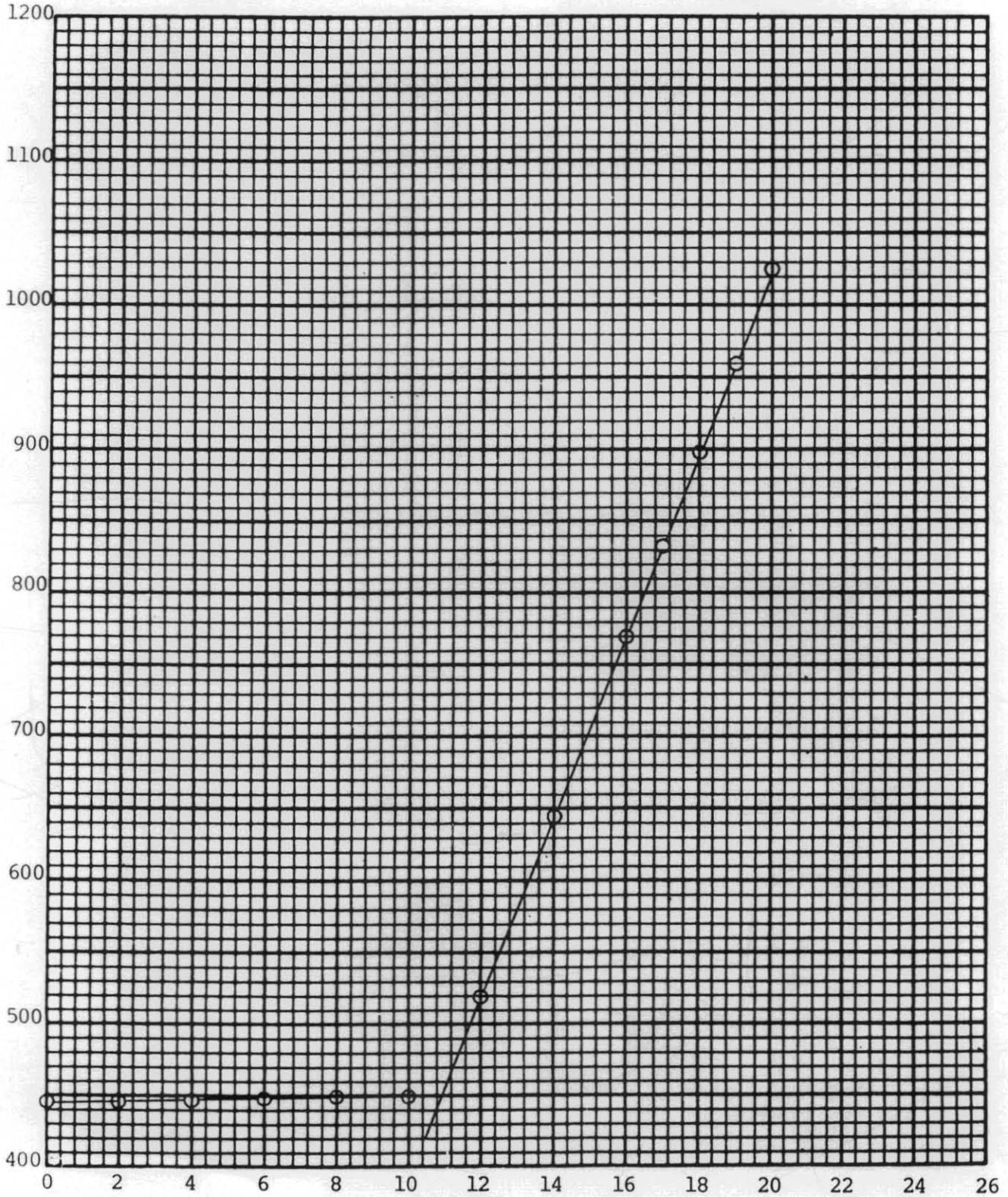
0.808

Gross heating value (BTU
per cubic foot of dry gas
@ 14.696 psia and 60°F):

1139

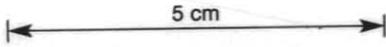


| | | | |
|---------|--------------------------------------|-----------|------------------|
| Company | <u>Amoco Australia Petroleum Co.</u> | Formation | _____ |
| Well | <u>Pelican #5</u> | State | <u>Tasmania</u> |
| Field | <u>Pelican</u> | Country | <u>Australia</u> |

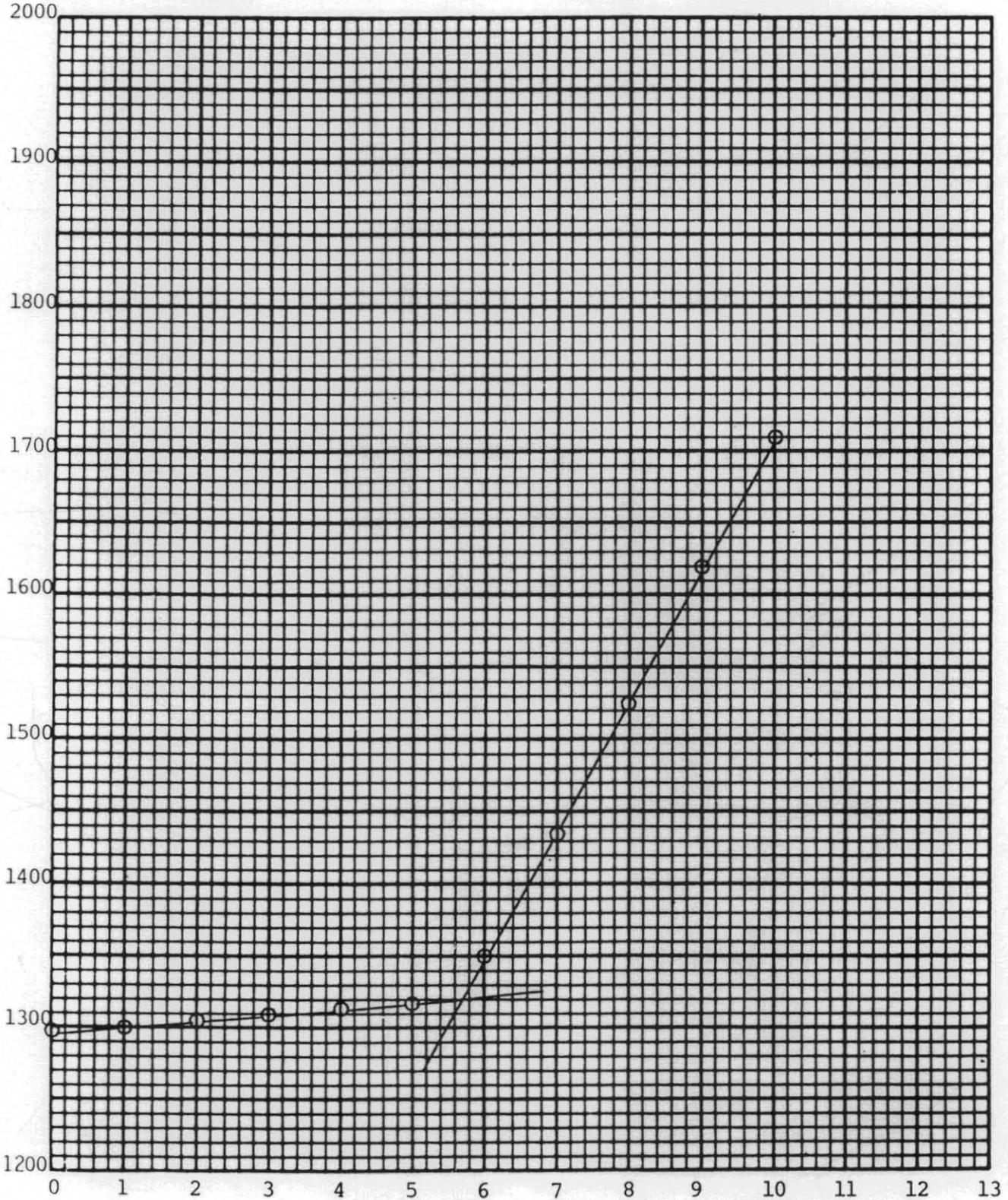


Cylinder No: SS 709
Cm³ Mercury Injected

Pressure [bar] vs. Cylinder No. Gauge



Company Amoco Australia Petroleum Co. Formation _____
Well Pelican #5 State Tasmania
Field Pelican Country Australia



Cylinder No: SS 1822
Cm³ Mercury Injected

446217

ENCLOSURE F

WELL TEST REPORT

RISH/86

AMOCO AUSTRALIA PETROLEUM COMPANY
WELL : PELICAN #5
AREA : BASS STRAIT
DST # : 1,2,2A,3,4,5,5A & 6
07TH MARCH - 13TH APRIL 1986

CONTENTS

DESCRIPTION

TEST OBJECTIVE

DESCRIPTION OF OPERATIONS

SEQUENCE OF OPERATIONS

WELL DATA

TEST STRING

TEST EQUIPMENT

TEST RESULTS

OIL FLOW RATE CALCULATIONS

GAS FLOW RATE CALCULATIONS

SAMPLE DATA

FIELD READINGS & CHARTS

FIGURES

| | | | |
|-----|---------------------|------------------|-----------------------|
| 1. | FIELD CHART DST #1 | | 14 MAR 86 – 15 MAR 86 |
| 2. | FIELD CHART DST #1 | SURFACE RECORDER | 15 MAR 86 – 16 MAR 86 |
| 3. | FIELD CHART DST #2 | SURFACE RECORDER | 16 MAR 86 |
| 4. | FIELD CHART DST #2A | SURFACE RECORDER | 20 MAR 86 |
| 5. | FIELD CHART DST #3 | SURFACE RECORDER | 20 MAR 86 – 21 MAR 86 |
| 6. | FIELD CHART DST #4 | | 25 MAR 86 – 26 MAR 86 |
| 7. | FIELD CHART DST #4 | SEPARATOR | 26 MAR 86 |
| 8. | FIELD CHART DST #4 | SURFACE RECORDER | 26 MAR 86 – 27 MAR 86 |
| 9. | FIELD CHART DST #4 | SEPARATOR | 27 MAR 86 |
| 10. | FIELD CHART DST #5 | SURFACE RECORDER | 30 MAR 86 – 31 MAR 86 |
| 11. | FIELD CHART DST #5 | SURFACE RECORDER | 31 MAR 86 |
| 12. | FIELD CHART DST #5A | | 08 APR 86 – 09 APR 86 |
| 13. | FIELD CHART DST #5A | SURFACE RECORDER | 09 APR 86 |
| 14. | FIELD CHART DST #6 | SURFACE RECORDER | 10 APR 86 – 11 APR 86 |
| 15. | FIELD CHART DST #6 | SEPARATOR | 11 APR 86 – 12 APR 86 |
| 16. | FIELD CHART DST #6 | WELLHEAD CHART | 11 APR 86 – 12 APR 86 |



446220

Sale Office:

Otis Engineering Corporation
324 Raglan St., P.O. Box 324,
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Tel.: (051) 44 3255
Telex: AA55240 OTISALE

Perth Office:

Otis Engineering Corporation
21 Alcoa St.,
Maddington, W.A., 6109, Australia
Tel.: (09) 459 8045
Telex: AA93527 HALPR

Adelaide Office:

Otis Engineering Corporation
44 Churchill Rd.,
Dry Creek, S.A., 5094, Australia
Tel.: (08) 260 6057
Telex: AA87473 HALADL

30TH MAY 1986

AMOCO AUSTRALIA PETROLEUM LIMITED
15 BLUE STREET
SYDNEY
NEW SOUTH WALES 2000
AUSTRALIA

Dear Sir,

Please find attached the Otis Well Test Report for the drill stem tests conducted on your well, PELICAN #5, during 07TH MARCH - 13TH APRIL 1986 onboard the rig DIAMOND M. EPOCH.

We, at Otis, are continually striving to improve the content and format of our Well Test Reports and trust that our standard format report is acceptable and contains all the information you require. However should you have any queries, or improvement that you would like to see incorporated into our report, please do not hesitate to contact the WTS Department at our SALE/PERTH OFFICE in AUSTRALIA.

It has been a pleasure working with AMOCO AUSTRALIA PETROLEUM LIMITED on this well, and we hope we may continue to be of service to you in the future.

Yours sincerely,
OTIS ENGINEERING CORPORATION


ANTHONY WOOLHAM/GRAHAM MCKAY
Well Testing Services Department
AUSTRALIA

446221

Description

TEST OBJECTIVE

The test objective for **PELICAN #5** was to conduct drill stem tests on the zones specified by the representative of AMOCO AUSTRALIA PETROLEUM COMPANY encompassing the following:-

1. To determine the initial reservoir pressure.
2. To determine reservoir parameters of KH, skin, boundaries and changes in these parameters within the radius of investigation of the test.
3. To obtain representative water samples, if produced, to determine R_w and composition. Other tests may also be conducted on the sample.
4. To determine well productivity.
5. To compile an Otis computerised Well Test Report.

| TEST NO. | INTERVAL | | FORMATION | THICKNESS |
|----------|---------------|--------|-----------|-------------|
| DST#1 | 3672 - 3699 | METRES | SANDSTONE | 27.0 METRES |
| DST#2 | 3607 - 3619 | METRES | SANDSTONE | 12.0 METRES |
| DST#2A | 3612 - 3618 | METRES | SANDSTONE | 6.0 METRES |
| DST#3 | 3440 - 3451 | METRES | SANDSTONE | 11.0 METRES |
| DST#4 | 3142 - 3163.5 | METRES | SANDSTONE | 21.5 METRES |
| DST#5 | 2868 - 2884 | METRES | SANDSTONE | 16.0 METRES |
| DST#5A | 2855 - 2860.5 | METRES | SANDSTONE | 5.5 METRES |
| DST#6 | 2786 - 2790 | METRES | SANDSTONE | 4.0 METRES |

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 1
 FORMATION : SANDSTONE
 INTERVAL TESTED : 3672 - 3699 METRES
 DATE : 14TH - 16TH MARCH 1986

The test string was run in the hole and partially displaced with 7200 feet of drill water. With the well opened on a 16/64" adjustable choke the interval 3672 - 3686 metres was perforated using 2-1/8" enerjet guns, 4 shots per foot at zero degree phasing.

The well was opened for a 10 minute initial flow period with no indication at the bubble hose of fluid movement downhole. With the well shut-in at the bubble hose the spent perforating guns were rigged down.

Perforating guns to perforate interval 3686 - 3693 metres were run in the hole but were unable to pass 3258 metres. The perforating guns were pulled out of the hole and Otis Wireline rigged up to run a 2-1/8" gauge cutter. The gauge cutter was run in the hole to depth with no problems. After rigging down the Wireline tools, the perforating guns were run in the hole.

15 MAR 1986

0735 hours - With the well opened on a 16/64" choke and zero wellhead pressure the interval 3686 - 3699 metres was perforated using 2-1/8" enerjet guns, 4 shots per foot at zero degree phasing

After flowing the well for 10 minutes with no indication of flow downhole, the well was shut-in at the choke manifold and the spent perforating guns pulled to surface.

Otis Electric Line was rigged up. GRC pressure gauge and casing collar locator was run in the hole for a fluid gradient survey.

Amoco Australia
Palican #5
DST #1
Page 2

1210 hours - The well was opened to the flare on a 16/64" adjustable choke.

1735 hours - After encountering problems, the GRC gauge got hung up and malfunctioned, the well was shut-in and the gauge pulled to surface and rigged down.

1845 hours - Weight was picked up on the test string to open the Halliburton hydraulic circulating valve for the test string displacement with 81 bbls of drill water.

1900 hours - The packer became unseated and was re-set one hour later. The test string was displaced with 81 bbls of drill water and the LPR test tool was opened.

2227 hours - The well was opened to the flare on a 16/64" adjustable choke with no indication of flow.

16 MAR 1986

0007 hours - The well was shut-in at the choke manifold and a 2-1/8" gauge cutter rigged up and ran in the hole.

0045 hours - The well was opened to the flare on a 16/64" adjustable choke. The gauge cutter first hung up at 3680 metres and later at 3530 metres and was unable to be jarred free.

0355 hours - After several attempts the LPR-N tester valve was closed cutting the Wireline leaving the tools downhole and allowing the slickline to be retrieved.

0505 hours - Wireline blind box and jars were run in the hole with the well opened to the flare.

0545 hours - Junked Wireline gauge cutter and jars knocked down the hole into 5" rathole. Blind box pulled out of the hole. Perforating guns for DST #2 picked up and ran in the hole.

1057 hours - The zone for DST #2 was perforated ending DST #1.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 2
 FORMATION : SANDSTONE
 INTERVAL TESTED : 3607 - 3619 METRES
 DATE : 16TH MARCH 1986

The test string had been displaced with drill water and with the perforations from DST #1 open, the well was opened to the flare on a 16/64" adjustable choke when the test zone was perforated using 2-1/8" enerjet guns, 4 shots per foot at zero degree phasing.

The well was opened for a 10 minute initial flow period with no indication of flow observed at the bubble hose. The spent perforating guns were rigged down and an Otis 2-1/8" gauge cutter was rigged up and ran in the hole. The gauge cutter was unable to pass below 3616 metres and was unable to be pulled back past 3540 metres.

After extensive jarring at 3540 metres on the gauge ring with no effect in freezing the tool, the LPR valve was cycled several times cutting the wire and allowing the slickline to be retrieved.

After several unsuccessful attempts to open the LPR-M2 valve the hydraulic circulating valve was opened to reverse out the test string ending DST #2.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 2A
 FORMATION : SANDSTONE
 INTERVAL TESTED : 3612 - 3618 METRES
 DATE : 20TH MARCH 1986

The zone was re-perforated at 3612 - 3618 metres using 3-5/8" casing guns, 6 shots per foot at 60 degree phasing.

The test string was run in the hole, displaced with 77 bbls water and pressure tested to 5000 PSI.

0857 hours - Pressure was applied to the annulus to open the LPR-N test tool. On opening there was an immediate increased of 700 PSI observed at the wellhead. (This pressure was considered to be hydrostatic pressure that was trapped when the packer was set).

0859 hours - The well was opened to the flare on a 16/64" adjustable choke for an initial flow period of 1 hour 36 minutes.

1035 hours - The well was shut-in at the subsea lubricator valve to rig up and run the production logging tool.

1235 hours - The subsea lubricator valve was pumped open and the well was opened to the flare on a 16/64" adjustable choke whilst the production logging tool was run in the hole.

1705 hours - Logging completed. The tool was pulled to surface and the well shut-in by pumping closed the subsea lubricator valve thus ending DST #2A.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 3
 FORMATION : SANDSTONE
 INTERVAL TESTED : 3440 - 3451 METRES
 DATE : 20TH - 21ST MARCH 1986

2110 hours - The well was opened to the flare on a 16/64" adjustable choke before the zone was perforated using 2-1/8" enerjet guns, 4 shots per foot at zero degree phasing.

The well was shut-in at the choke manifold after a 10 minute initial flow period. The spent perforating guns were rigged down. The production logging tool was rigged up and run in the hole to the test interval.

21ST MARCH 1986

0050 hours - After a 3.5 hour initial shut-in and with 1000 PSI on the wellhead the well was opened to the flare on a 16/64" adjustable choke. The well was flowed for 68 minutes before being shut-in at the choke manifold.

0345 hours - The production logging tool stucked at 3367 metres.

0520 hours - With 1175 PSI on the wellhead the choke manifold bypass was opened to bleed down the pressure, enabling the production logging tool to become free and to be pulled to surface.

0855 hours - The annulus pressure was bled down to close the LPR-N valve. 800 PSI surface pressure was bled down through the bubble before 3400 PSI was applied to the annulus to open the LPR-M2 valve and reversed circulating the test string ending DST #3.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 4
 FORMATION : SANDSTONE
 INTERVAL TESTED : 3142 - 3163.5 METRES
 DATE : 25TH - 27TH MARCH 1986

The test string and tubing conveyed perforating guns were run in the hole and displaced with 71 bbls of diesel.

25TH MARCH 1986

1600 hours - The annulus was pressurized to 1400 PSI opening the LPR-N test tool resulting in a 200 PSI wellhead pressure.

1620 hours - The wellhead pressure was bled down and the annulus pressure increased to 2500 PSI, activated the guns and perforated the test zone with 12 shots per foot at 120 degree phasing.

1627 hours - With 8 PSI on the wellhead the well was opened to the oil burners on a 16/64" adjustable choke for a 7 minute initial flow period.

1633 hours - The well was shut-in at the choke manifold for a 58 minute initial buildup.

1731 hours - The well was opened for the major flow period on a 16/64" adjustable choke.

1840 hours - The flow was diverted to the stock tank to monitor the diesel cushion return.

26TH MARCH 1986

0235 hours - With 44 bbls of diesel cushion recovered in the stock tank the choke was increased to a 32/64" adjustable and the flow diverted to the oil guns.

0245 hours - Rathole mud reached surface and the flow was diverted to the gas flare.

Amoco Australia
Pelican #5
DST #4
Page 2

0327 hours - Choke changed to 24/64" adjustable.

0346 hours - Choke changed to 16/64" adjustable.

0440 hours - Choke changed to 16/64" positive.

0500 hours - The flow was diverted to the separator where gas rates were calculated, pressurized gas sample and atmospheric condensate samples obtained.

1518 hours - The separator was bypassed and the annulus pressure bled down closing the LPR-N test tool for a final buildup period of 15 hours.

27TH MARCH 1986

0618 hours - The annulus was pressurized to open the LPR-N test tool for the final flow period.

0630 hours - The well was opened to the gas flare on a 16/64" adjustable choke.

0700 hours - The choke was gradually increased and stabilized on a 2" positive before the flow was directed to the separator where gas rates were calculated and pressurized gas and atmospheric condensate samples obtained.

0908 hours - The annulus pressure was bled down closing the LPR-N test tool ending DST #2.

0918 hours - The annulus was pressured opening the LPR-M2 valve. Reversed circulating the test string overboard ending DST #4.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 5
 FORMATION : SANDSTONE
 INTERVAL TESTED : 2868 - 2884 METRES
 DATE : 30TH - 31ST MARCH 1986

The test string and tubing conveyed perforating guns were run in the hole and the test string displaced with 61 bbls of gaseous nitrogen giving a wellhead pressure of 3100 PSI. The wellhead pressure was bled back to 1350 PSI before the annulus pressure was increased to 1450 PSI to open the LPR-N test tool.

The annulus was increased to 2500 PSI and at 0543 hours the zone was perforated with the tubing conveyed guns, 12 shots per foot at 120 degree phasing.

At 0721 hours and with 1850 PSI wellhead pressure the well was opened to the gas flare on a 16/64" adjustable choke. At 0850 hours gas reached surface and at 0930 hours the Schlumberger production logging tool was run in the hole.

At 0938 hours water reached surface. The choke was increased to a 24/64" to a 32/64" adjustable before the well was shut-in at 1324 hours for an initial buildup period.

After a 6 hour 27 minute initial buildup the well was opened to the flare on a 16/64" adjustable choke for a 2 hour 14 minute flow period before being shut-in at the choke manifold for a 8 hour 27 minute second buildup period.

At 0633 hours and with the production logging tool at the surface the well was opened to the gas flare on a 8/64" positive choke. At 0945 hours a 49 degree API waxy oil reached surface and the flow was diverted to the oil guns. At 1100 hours water reached surface and at 1215 hours the flow was diverted to the stock tank to monitor returns.

At 1441 hours the choke was increased to 128/64" positive. The production logging tool was pulled to the surface and at 1607 hours with 4.75 bbls of liquid measured in the stock tank the annulus pressure was bled down closing the LPR-N valve.

At 1742 hours the annulus was pressurized to open the LPR-M2 valve. Reversed circulating the test string ending DST #5.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
WELL : PELICAN #5
DST NO. : 5A
FORMATION : SANDSTONE
INTERVAL TESTED : 2855 - 2860.5 METRES
DATE : 08TH - 09TH APRIL 1986

The test string was run in hole and displaced with nitrogen. Approximately 700 PSI was held on the tubing while Schlumberger perforated the interval 2855 - 2860.5 metres using 2-1/8" through tubing perforating guns.

On retrieval of the Schlumberger perforating guns the well was opened through the choke manifold for the first flow period. During this flow wellhead pressure remained at zero with only a slight bubble indication at surface. After 11 hours formation fluid had not reached surface, the well was then shut-in downhole and test string reversed out where upon formation water samples were obtained at the choke manifold.

DESCRIPTION OF OPERATIONS

COMPANY : AMOCO AUSTRALIA PETROLEUM CO.
 WELL : PELICAN #5
 DST NO. : 6
 FORMATION : SANDSTONE
 INTERVAL TESTED : 2786 - 2790 METRES
 DATE : 10TH - 12TH APRIL 1986

The test string was run in hole and the packer set. All surface equipment was pressure tested to 5000 PSI before displacing the tubing with nitrogen. Approximately 1350 PSI was held on the tubing while Schlumberger perforated the interval 2786 - 2790 metres. Wellhead pressure buildup rapidly to 2700 PSI. Schlumberger then retrieved their perforating guns and ran the Otis HP gauge and latched into the downhole shut-in tool.

At 0812 hours the well was opened through the choke manifold for the 1st flow on a 16/64" choke which was later increased to 24/64" for the first rate. After approximately 7 hours of stabilized conditions the well was shut in downhole for 5 hours.

For the second rate a 96/64" choke was selected. Surging wellhead conditions were encountered which consequently affected the stability of the rates recorded at the separator.

NB: All separator samples were obtained during rate #1 when conditions were most stable.

At 0407 hours the well was shut-in downhole for approximately 3 hours after which Schlumberger unlatched from the downhole shut-in tool and pulled out of hole. Tubing contents were then reversed out prior to pulling the string.

446233

Sequence of Operations

446234

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

1 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| | | | 1 |
| 07MAR86 | | GEORGE PETTY DEPARTED SINGAPORE | 1 |
| | | TONY WOOLHAM AND THOMAS DEPARTED SALE. BUCKLAND ALREADY ON RIG | 2 |
| | 1100 | TEST CREW ARRIVED ON RIG. PREPARED TEST EQUIPMENT | 3 |
| | | RIGGED UP SURFACE SAFETY SYSTEM | 4 |
| 08MAR86 | | PRESSURE TESTED CHOKE / SURFACE TEST TREE / SUBSEA TEST TREE AND | 5 |
| | | SUBSEA LUBRICATOR VALVE TO 8000 PSI - OKAY | 6 |
| | | CALIBRATED GAUGES. PRESSURE TESTED NEEDLE VALVES | 7 |
| | | FIRED UP HEATER ON MAIN GAS BURNERS | 8 |
| 09MAR86 | | PRESSURE TESTED X-OVERS TO 8000 PSI - OKAY | 9 |
| | | EVACUATED SAMPLE CYLINDERS. CLEANED TANK SIGHT GLASSES | 10 |
| | | RIGGED UP PROPANE LINES TO BURNERS | 11 |
| 10MAR86 | | SERVICED SHRINKAGE TESTER ON SEPARATOR | 12 |
| | | PREPARED AND SERVICED TEST EQUIPMENT | 13 |
| 11MAR86 | | GENERAL MAINTENANCE OF PRODUCTION TESTING EQUIPMENT | 14 |
| 12MAR86 | 1115 | PICKED UP SUBSEA TEST TREE FOR DUMMY RUN | 15 |
| | 1145 | FUNCTION TESTED LATCH WHILST IN ROTARY | 16 |
| | 1155 | SUBSEA TEST TREE RAN IN THE HOLE | 17 |
| | 1225 | PICKED UP SUBSEA LUBRICATOR VALVE AND TORQUED UP IN ROTARY | 18 |
| | 1315 | PICKED UP SURFACE TEST TREE AND MADE UP TO LANDING STRING | 19 |

446235

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

2 14

CUSTOMER

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AMOCO AUSTRALIA PETROLEUM CO.

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CUSTOMER REPRESENTED BY

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Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| | | | |
|---------|------|--|----|
| 1 | | | 1 |
| 12MAR86 | 1400 | UNABLE TO PRESSURE TEST SUBSEA TEST TREE BALLS FROM BELOW - INDICATION OF | 2 |
| | | BALLS NOT CLOSING | 3 |
| | 1415 | STARTED PULLING LANDING STRING OUT OF HOLE | 4 |
| | 1425 | LAI D DOWN SURFACE TEST TREE | 5 |
| | 1435 | LAI D BACK SUBSEA LUBRICATOR VALVE IN DERRICK | 6 |
| | 1440 | SUBSEA TEST TREE AT SURFACE. CONTROL LINE PORTS FLUSHED THROUGH | 7 |
| | | BALLS FUNCTIONED SEVERAL TIMES AND APPEARED TO BE OPERATING CORRECTLY | 8 |
| | 1725 | SUBSEA TEST TREE RAN IN HOLE | 9 |
| | 1745 | SUBSEA LUBRICATOR VALVE RAN IN HOLE | 10 |
| | 1800 | SUBSEA TEST TREE LANDED OUT IN WELLHEAD. RAMS CLOSED | 11 |
| | | UNABLE TO PRESSURE TEST BALLS - INDICATION OF BALLS NOT CLOSING | 12 |
| | 1810 | LANDING STRING PULLED OUT OF HOLE | 13 |
| | | SUBSEA TEST TREE SERVICE BROKE AND LAI D DOWN FOR INSPECTION | 14 |
| | | SUBSEA TEST TREE FUNCTIONED ON DECK WITH NO OBVIOUS SIGN OF PROBLEM ALTHOUGH | 15 |
| | | CLOSING TIME OF BALL WAS LOWER WHEN BLE D BACK THROUGH REEL PACK | 16 |
| 13MAR86 | 0015 | SUBSEA TEST TREE PICKED UP AND RAN IN HOLE | 17 |
| | 0040 | SUBSEA LUBRICATOR VALVE PICKED UP AND RAN IN HOLE | 18 |
| | 0100 | SUBSEA TEST TREE BALLS PRESSURE TESTED TO 3000 PSI - OKAY | 19 |
| | 0115 | LAI D BACK SUBSEA TEST TREE IN DERRICK | |

SEQUENCE OF OPERATIONS

446236

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

3 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

PELICAN

BASS STRAIT

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Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

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OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| | | | 1 |
| 13MAR86 | 0130 | LAI D BACK SUBSEA LUBRICATOR VALVE IN DERRICK | 2 |
| | | GENERAL MAINTENANCE OF PRODUCTION TESTING EQUIPMENT | 3 |
| | | PICKED UP SUBSEA TEST TREE AND RAN IN HOLE | 4 |
| | | PICKED UP SUBSEA LUBRICATOR VALVE AND RAN IN HOLE | 5 |
| | 2130 | PICKED UP SURFACE TEST TREE AND MADE UP TO LANDING STRING | 6 |
| | 2250 | SET R.T.T.S. PACKER | 7 |
| | 2320 | PRESSURE TESTED KILL VALVE / MASTER VALVE AND SAFETY VALVE ON | 8 |
| | | SURFACE TEST TREE TO 8000 PSI - OKAY | 9 |
| | 2345 | PRESSURE TESTED TUBING AGAINST CHOKE MANIFOLD VALVE TO 8000 PSI - OKAY | 10 |
| | | RIGGED UP COFLEXIP HOSE AND CHOKE MANIFOLD | 11 |
| | | FLUSHED LINES | 12 |
| 14MAR86 | 0935 | PRESSURE TESTED HEATER INLET AND BYPASS VALVES TO 5000 PSI - OKAY | 13 |
| | 0950 | PRESSURE TESTED CHOKE TO 8000 PSI - OKAY | 14 |
| | 1300 | PERFORATING GUNS RAN IN THE HOLE | 15 |
| | 1445 | TEST ZONE PERFORATED (SEE FIELD READINGS) | 16 |
| 16MAR86 | 2230 | REVERSED OUT TEST STRING ENDING DST #2 | 17 |
| | 2320 | BROKE OUT SURFACE TEST TREE AND LAID DOWN | 18 |
| 17MAR86 | 0015 | BROKE OUT SUBSEA LUBRICATOR VALVE AND LAID BACK IN DERRICK | 19 |
| | 0040 | SERVICE BROKE SUBSEA TEST TREE FOR INSPECTION | |

446237

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

4 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| | | | 1 |
| 17MAR86 | | REDRESSED LOWER BALL AND SEATED ON SUBSEA TEST TREE | 2 |
| | | FUNCTION TESTED LATCH. PRESSURE TESTED BALLS TO 8000 PSI - OKAY | 3 |
| | | DRIFTED BALLS WITH 2.5 INCH BLIND BOX | 4 |
| | | PRESSURE TESTED SURFACE TEST TREE FROM BELOW | 5 |
| | | SAFETY VALVE / SWAB VALVE / KILL VALVE AND MASTER VALVE TO 8000 PSI - OKAY | 6 |
| 18MAR86 | | SERVICED AND PREPARED EQUIPMENT FOR DST #2A | 7 |
| 19MAR86 | | SERVICED AND PREPARED EQUIPMENT FOR DST #2A | 8 |
| 20MAR86 | 0440 | PICKED UP SUBSEA TEST TREE. TORQUED UP SERVICE BROKE JOINTS | 9 |
| | | FUNCTION TESTED LATCH | 10 |
| | 0535 | SUBSEA TEST TREE RAN IN THE HOLE | 11 |
| | 0555 | PICKED UP SUBSEA LUBRICATOR VALVE AND MADE UP TO TEST STRING | 12 |
| | 0625 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 13 |
| | 0715 | SET PACKER AND LANDED FLUTED HANGER | 14 |
| | 0745 | PRESSURE TESTED SURFACE EQUIPMENT AND TEST STRING TO 5000 PSI | 15 |
| | 0815 | STARTED DISPLACING TEST STRING WITH WATER | 16 |
| | 0857 | PRESSURED UP ANNULUS TO OPEN LPR-N. STARTED DST #2A (SEE FIELD READINGS) | 17 |
| 21MAR86 | 0910 | PRESSURED UP ON ANNULUS TO OPEN LPR-M2 TO REVERSE CIRCULATE TEST STRING | 18 |
| | | ENDED DST #3 | 19 |
| | 1105 | BROKE OUT SURFACE TEST TREE AND LAID DOWN | |

446238

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

DST#1-6

RIG NAME

DIAMOND M. EPOCH

PAGE OF

5 14

CUSTOMER

AMOCO AUSTRALIA PETROLEUM CO.

WELL NAME OR NUMBER

PELICAN #5

FIELD

PELICAN

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BASS STRAIT

CUSTOMER REPRESENTED BY

Mr. J Guillery/E Bowden/J Harkin/T Mosness

OTIS TEST SUPERVISOR

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|---|----|
| | | | 1 |
| 21MAR86 | 1150 | BROKE OUT SUBSEA LUBRICATOR VALVE AND STOOD BACK IN DERRICK | 1 |
| | 1215 | BROKE OUT SUBSEA TEST TREE AND STOOD BACK IN DERRICK | 2 |
| | | STRIPPED OUT AND REPLACED O-RINGS AND SEALS IN UPSTREAM LO-TORC VALVE | 3 |
| | | PRESSURE TESTED TO 8000 PSI - OKAY | 4 |
| | | PRESSURE TESTED SURFACE TEST TREE TO 8000 PSI - OKAY | 5 |
| 22MAR86 | | READY EQUIPMENT FOR DST #4 | 6 |
| 23MAR86 | | PREPARED AND READY EQUIPMENT | 7 |
| 24MAR86 | 1505 | PICKED UP SUBSEA TEST TREE / MADE UP TO TEST STRING AND RAN IN THE HOLE | 8 |
| | 1550 | PICKED UP SUBSEA LUBRICATOR VALVE. MADE UP TO TEST STRING AND RAN IN HOLE | 9 |
| | 1610 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 10 |
| | 1645 | SET PACKER | 11 |
| | 1825 | LOGGING TOOLS RAN IN THE HOLE FOR CORRELATION | 12 |
| | 2100 | RIGGED DOWN LOGGING TOOLS AND SURFACE FLOWLINES | 13 |
| | 2150 | UNSEATED PACKER | 14 |
| | 2205 | BROKE OUT SURFACE TEST TREE AND LAID DOWN | 15 |
| | 2225 | BROKE OUT SUBSEA LUBRICATOR VALVE AND STOOD BACK IN DERRICK | 16 |
| | 2245 | BROKE OUT SUBSEA TEST TREE AND STOOD BACK IN DERRICK | 17 |
| | 2325 | PICKED UP SUBSEA TEST TREE. MADE UP TO TEST STRING AND RAN IN THE HOLE | 18 |
| | 2355 | PICKED UP SUBSEA LUBRICATOR VALVE. MADE UP TO TEST STRING AND RAN IN THE HOLE | 19 |

446239

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

6 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| | | | 1 |
| 25MAR86 | 0025 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 2 |
| | 0040 | STARTED RIGGING UP SURFACE FLOWLINES | 3 |
| | 0100 | SET PACKER | 4 |
| | 0132 | PRESSURE TESTED SURFACE LINES AGAINST HEATER TO 5000 PSI - OKAY | 5 |
| | 0305 | LOGGING TOOLS RAN IN THE HOLE FOR CORRELATION | 6 |
| | 0500 | RIGGED DOWN LOGGING TOOLS | 7 |
| | 0520 | PRESSURE TESTED SURFACE LINES AND CHOKE MANIFOLD TO 5000 PSI | 8 |
| | 0550 | STARTED DISPLACING TEST STRING WITH DIESEL | 9 |
| | 0645 | bled DOWN 2200 PSI WELLHEAD PRESSURE TO BURNERS | 10 |
| | 0700 | STARTED RIGGING UP OTIS LUBRICATOR | 11 |
| | 1030 | PRESSURE TESTED LUBRICATOR AND CHOKE TO 5000 PSI - OKAY | 12 |
| | | DOWNHOLE SHUT-IN TOOL RAN IN THE HOLE | 13 |
| | 1600 | ELECTRIC LINE GAUGES PULLED INTO LUBRICATOR | 14 |
| | 1620 | PERFORATED ZONE. STARTED DST #4 (SEE FIELD READINGS) | 15 |
| 27MAR86 | 0945 | STARTED REVERSE CIRCULATION OF TEST STRING ENDING DST #4 | 16 |
| | 1135 | BROKE OUT SURFACE TEST TREE AND LAID DOWN | 17 |
| | 1615 | BROKE OUT SUBSEA LUBRICATOR VALVE AND STOOD BACK IN DERRICK | 18 |
| | 1640 | BROKE OUT SUBSEA TEST TREE AND STOOD BACK IN DERRICK | 19 |
| | | PRESSURE TESTED BACK AND FRONT VALVES ON CHOKE MANIFOLD TO 5000 PSI - OKAY | |

446240

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

7 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E. Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|---|----|
| 27MAR86 | | PRESSURE TESTED ALL VALVES ON SURFACE TEST TREE FROM BELOW TO 5000 PSI | 1 |
| 28MAR86 | | PREPARED AND SERVICED EQUIPMENT FOR DST #5 | 2 |
| | | BROKE OUT WATER LINES TO BOTH BOOMS AND FLUSHED WITH SEA WATER | 3 |
| 29MAR86 | 1210 | PICKED UP SUBSEA TEST TREE. MADE UP TO TEST STRING AND RAN IN THE HOLE | 4 |
| | 1230 | PICKED UP SUBSEA LUBRICATOR VALVE. MADE UP TO TEST STRING AND RAN IN THE HOLE | 5 |
| | 1250 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 6 |
| | 1327 | SET PACKER | 7 |
| | 1420 | RIGGED UP SCHLUMBERGER LUBRICATOR AND RAN C.C.L. FOR CORRELATION | 8 |
| | 1630 | STARTED LOGGING DOWN SCHLUMBERGER LUBRICATOR | 9 |
| | 1845 | PRESSURE TESTED TUBING AND SURFACE FLOWLINES AGAINST CHOKE TO 5000 PSI - OKAY | 10 |
| | 1945 | RIGGED UP OTIS ELECTRIC LINE LUBRICATOR. DEAD SHORT ON CABLE | 11 |
| | | CUT CABLE AND MADE UP NEW HEAD | 12 |
| | 2115 | RIGGED UP ELECTRIC LINE LUBRICATOR AND PRESSURE TESTED TO 5000 PSI | 13 |
| | 2230 | PICKED UP ON TEST STRING. PULLED ELECTRIC LINE AND | 14 |
| | | DOWNHOLE SHUT-IN TOOL OUT OF ROPE SOCKET LOSING SAME DOWNHOLE | 15 |
| | | RIGGED DOWN OTIS LUBRICATOR | 16 |
| | 2350 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | 17 |
| | | STARTED RIGGING UP SCHLUMBERGER LUBRICATOR AND PRODUCTION LOGGING TOOL | 18 |
| 30MAR86 | 0125 | STABBED SCHLUMBERGER LUBRICATOR AND TOOLS ONTO TEST STRING AND | 19 |

446241

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

CUSTOMER

WELL NAME OR NUMBER

DST#1-6

FIELD

DIAMOND M. EPOCH

AREA

8 14

CUSTOMER REPRESENTED BY

PELICAN #5

PELICAN

BASS STRAIT

OTIS TEST SUPERVISOR

Mr. J Guillery/E. Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| | | | 1 |
| 30MAR86 | | PRESSURE TESTED LUBRICATOR AND TEST STRING TO 4000 PSI - OKAY | 2 |
| | 0222 | PICKED UP WEIGHT ON TEST STRING AND OPENED CIRCULATING VALVE | 3 |
| | | STARTED DISPLACING TEST STRING WITH NITROGEN | 4 |
| | 0515 | STOPPED DISPLACING 3100 PSI WELLHEAD PRESSURE | 5 |
| | 0525 | CLOSED BOP ON RAM LOCK. STARTED PRESSURING ANNULUS TO OPEN LPR-N TEST TOOL | 6 |
| | 0532 | bled DOWN WELLHEAD PRESSURE TO 1400 PSI | 7 |
| | | PUMPED UP ANNULUS TO 2500 PSI TO ACTIVATE PERFORATING GUNS | 8 |
| | | STARTED DST #5 (SEE FIELD READINGS) | 9 |
| 31MAR86 | 1730 | PRESSURED UP ANNULUS TO OPEN LPR-M2 VALVE | 10 |
| | | REVERSED CIRCULATING THE TEST STRING ENDING DST #5 | 11 |
| | 1915 | BROKE OUT SURFACE TEST TREE AND LAID DOWN | 12 |
| | 2120 | BROKE OUT SUBSEA LUBRICATOR VALVE AND STOOD BACK IN DERRICK | 13 |
| | 2155 | BROKE OUT SUBSEA TEST TREE AND STOOD BACK IN DERRICK | 14 |
| | | PRESSURE TESTED ALL VALVES ON SURFACE TEST TREE AND | 15 |
| | | CHOKE MANIFOLD TO 5000 PSI - OKAY | 16 |
| 01APR86 | | DRAINED WATER FROM STOCK TANK | 17 |
| | | PREPARED AND FUNCTIONED EQUIPMENT FOR NEXT DST | 18 |
| 02APR86 | 0915 | BROKE OUT SUBSEA TEST TREE AND LAID DOWN | 19 |
| | 1000 | BROKE OUT SUBSEA LUBRICATOR VALVE AND LAID DOWN | |

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

9 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E. Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|---|----------|
| 02APR86 | | PRESSURE TESTED SUBSEA LUBRICATOR VALVE AND SUBSEA TEST TREE TO 5000 PSI - OK | 1 |
| 03APR86 | | GENERAL MAINTENANCE OF EQUIPMENT | 2 |
| 04APR86 | | GENERAL MAINTENANCE OF EQUIPMENT | 3 |
| 05APR86 | | GENERAL MAINTENANCE OF EQUIPMENT | 4 |
| | | MADE UP AND PRESSURE TESTED DOWNHOLE SHUT-IN TOOL NIPPLE WITH AMOCO X-OVERS | 5 |
| 06APR86 | 0615 | PICKED UP SUBSEA TEST TREE AND MADE UP TO TEST STRING | 6 |
| | 0720 | PICKED UP SUBSEA LUBRICATOR VALVE AND MADE UP TO TEST STRING | 7 |
| | 0745 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 8 |
| | 0830 | LANDED OUT TEST STRING AND SET PACKER | 9 |
| | 0930 | RIGGED UP SCHLUMBERGER LUBRICATOR | 10 |
| | 1033 | BEGAN CYCLING HALLIBURTON 'OMNI' VALVE | 11 |
| | 1103 | UNSUCCESSFUL PRESSURE TEST OF TEST STRING | 12 |
| | 1155 | RECYCLED 'OMNI' VALVE | 13 |
| | 1215 | PRESSURE TESTED SURFACE FLOWLINES AND LUBRICATOR AGAINST CHOKE AND MASTER VALVE TO 5000 PSI - OKAY | 14 15 |
| | 1220 | RIGGED DOWN SURFACE FLOWLINES | 16 |
| | 1235 | RIGGED DOWN LUBRICATOR | 17 |
| | 1340 | UNSEATED PACKER | 18 |
| | 1342 | RESEATED PACKER AND CLOSED SLIP JOINT SAFETY VALVE | 19 |

446243

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

10 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|---|----|
| | | | 1 |
| 06APR86 | 1355 | PRESSURE TESTED TEST STRING AGAINST SAFETY VALVE TO 5000 PSI - OKAY | 2 |
| | 1425 | PICKED UP ON TEST STRING BUT UNABLE TO RESET PACKER | 3 |
| | 1435 | BROKE OUT SINGLE FROM TEST STRING AND PICKED UP TEST STRING | 4 |
| | 1450 | MADE UP SINGLE TO TEST STRING | 5 |
| | 1505 | PRESSURE TESTED TEST STRING AGAINST SAFETY VALVE TO 5000 PSI - OKAY | 6 |
| | 1522 | UNSEATED PACKER | 7 |
| | 1550 | LAID DOWN SURFACE TEST TREE | 8 |
| | 1615 | BROKE OUT SUBSEA LUBRICATOR VALVE. REMOVED FROM TEST STRING | 9 |
| | | REDRESSED LEAKING 4-1/2 INCH IF SEALING SURFACE ON TOP OF HANDLING SUB | 10 |
| | 1705 | BROKE OUT SUBSEA TEST TREE AND LAID BACK IN DERRICK | 11 |
| 07APR86 | 1725 | PICKED UP SUBSEA TEST TREE / MADE UP TO TEST STRING AND RAN IN HOLE | 12 |
| | 1805 | PICKED UP SUBSEA LUBRICATOR VALVE. MADE UP TO TEST STRING AND RAN IN HOLE | 13 |
| | 1835 | PICKED UP SURFACE TEST TREE AND MADE UP TO TEST STRING | 14 |
| | 1906 | SET PACKER AND LANDED OUT TEST STRING | 15 |
| | 1935 | PRESSURE TESTED TUBING AGAINST SWAB AND SAFETY VALVE TO 5000 PSI | 16 |
| | 1945 | STARTED RIGGING UP SCHLUMBERGER LUBRICATOR | 17 |
| | 2110 | RIGGED UP AND FLUSHED SURFACE FLOWLINES WITH WATER | 18 |
| | 2115 | PRESSURE TESTED LUBRICATOR AGAINST MASTER VALVE AND CHOKE MANIFOLD | 19 |
| | 2158 | PICKED UP ON TEST STRING TO OPEN CIRCULATING VALVE | |

446244

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

11 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|---|----|
| 07APR86 | 2202 | STARTED DISPLACING TEST STRING WITH NITROGEN | 1 |
| | 2303 | STOPPED DISPLACING STRING WITH NITROGEN | 2 |
| | 2326 | CLOSED CIRCULATING VALVE AND BLED TUBING PRESSURE DOWN FROM 3000PSI TO 670PSI | 3 |
| 08APR86 | 0020 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE AND BLED DOWN PRESSURE | 4 |
| | 0205 | PERFORATING GUNS IN THE LUBRICATOR | 5 |
| | 0220 | EQUALIZED PRESSURE ACROSS SUBSEA LUBRICATOR VALVE AND PUMPED OPEN | 6 |
| | 0225 | PERFORATING GUNS RAN IN THE HOLE | 7 |
| | 0330 | PERFORATING GUNS UNABLE TO PASS THE BUNDLE CARRIER | 8 |
| | 0340 | bled off ANNULUS PRESSURE TO CLOSE LPR-N VALVE | 9 |
| | 0345 | PRESSURED UP ANNULUS TO 1900 PSI TO OPEN LPR-N VALVE | 10 |
| | 0415 | PERFORATING GUNS STILL UNABLE TO PASS BUNDLE CARRIER | 11 |
| | | STARTED PULLING GUNS OUT OF THE HOLE | 12 |
| | 0441 | bled off ANNULUS PRESSURE TO CLOSE LPR-N VALVE | 13 |
| | 0450 | bled DOWN WELLHEAD PRESSURE TO 600 PSI | 14 |
| | 0503 | PRESSURED UP ANNULUS TO OPEN LPR-N VALVE IN ATTEMPT TO FLOW WELL WITH | 15 |
| | | DIFFERENTIAL PRESSURE ABOVE AND BELOW LPR-N | 16 |
| | 0505 | INDICATION OF LPR-N VALVE OPENED. PERFORATING GUNS RAN BACK IN THE HOLE | 17 |
| | 0540 | PERFORATING GUNS STILL UNABLE TO PASS BUNDLE CARRIER | 18 |
| | | STARTED PULLING GUNS OUT OF THE HOLE | 19 |

446245

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

12 14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

DATE

TIME

OPERATIONS

| DATE | TIME | OPERATIONS | |
|---------|------|--|----|
| 08APR86 | 0635 | PERFORATING GUNS AT SURFACE | 1 |
| | 0642 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | 2 |
| | 0644 | BLD OFF SURFACE PRESSURE. SLIGHT LEAKED IN SUBSEA LUBRICATOR VALVE | 3 |
| | | FUNCTIONED SUBSEA LUBRICATOR VALVE | 4 |
| | 0730 | BLD OFF ANNULUS PRESSURE TO CLOSE LPR-N | 5 |
| | 0737 | OPENED SUBSEA LUBRICATOR VALVE AND BLED DOWN TEST STRING | 6 |
| | 0748 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | 7 |
| | 0755 | RIGGED DOWN PERFORATING GUNS | 8 |
| | 0850 | STARTED RIGGING UP OTIS LUBRICATOR AND WIRELINE | 9 |
| | 0925 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | 10 |
| | 0927 | PRESSURED UP ON ANNULUS TO OPEN LPR-N VALVE | 11 |
| | 0930 | 2.125 INCH GAUGE CUTTER RAN IN THE HOLE | 12 |
| | 1000 | GAUGE CUTTER PASSED BUNDLE CARRIER WITH NO OBVIOUS RESTRICTION | 13 |
| | | STARTED PULLING OUT OF HOLE WITH GAUGE CUTTER | 14 |
| | 1020 | CLOSED SUBSEA LUBRICATOR VALVE AND BLED OFF LUBRICATOR | 15 |
| | | RIGGED UP TO RUN SCHLUMBERGER PERFORATING GUNS | 16 |
| | 1220 | PRESSURE TESTED TEST STRING WITH NITROGEN AT 5000 PSI | 17 |
| | 1350 | SCHLUMBERGER PERFORATED INTERVAL 2855-2860.5 METRES (SEE FIELD READINGS) | 18 |
| 09APR86 | 1221 | SHEARED LPR-M2 AND REVERSED OUT TEST STRING | 19 |

446246

SEQUENCE OF OPERATIONS

OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE

OF

DST#1-6

DIAMOND M. EPOCH

13

14

CUSTOMER

WELL NAME OR NUMBER

FIELD

AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY

OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS | |
|---------|------|---|----|
| | | | 1 |
| 09APR86 | 1330 | UNSEATED PACKER AND CONTINUED CIRCULATION | 1 |
| | 1615 | PULLED OUT OF HOLE TEST STRING. BROKE OUT SUBSEA LUBRICATOR VALVE | 2 |
| | 1640 | BROKE OUT SUBSEA TEST TREE AND RACKED IN DERRICK ENDING DST #5A | 3 |
| 10APR86 | | REPLACED DAMAGE BALL AND SEATED ASSY IN SUBSEA LUBRICATOR VALVE | 4 |
| | 1355 | MADE UP SUBSEA TEST TREE AND RAN IN HOLE. STARTED DST #6 | 5 |
| | 1540 | RIGGED UP SURFACE LINES AND EQUIPMENT | 6 |
| | 1608 | PRESSURE TESTED TUBING AT 5000 PSI | 7 |
| | 1650 | PRESSURE TESTED SURFACE LINES AND CHOKE MANIFOLD AT 5000 PSI | 8 |
| | 1728 | OTIS WIRELINE RAN IN HOLE 2-1/8 INCH GAUGE RING | 9 |
| | 1900 | RIGGED UP SCHLUMBERGER LUBRICATOR | 10 |
| | 1935 | PRESSURE TESTED LUBRICATOR AT 5000 PSI | 11 |
| | 2000 | DISPLACED TEST STRING WITH NITROGEN | 12 |
| | 2127 | BLD DOWN TEST STRING PRESSURE TO 1250 PSI | 13 |
| | 2150 | OPENED LPR-N TESTER VALVE | 14 |
| | 2400 | SCHLUMBERGER RAN IN HOLE TO PERFORATE | 15 |
| 11APR86 | 0126 | SCHLUMBERGER PERFORATED INTERVAL 2786-2790 METRES | 16 |
| | | STARTED DST #6 (SEE FIELD REDINGS) | 17 |
| 12APR86 | 0932 | SHEARED LPR-M2 AND REVERSED OUT TEST STRING | 18 |
| | 1400 | RIGGED DOWN SURFACE EQUIPMENT | 19 |

SEQUENCE OF OPERATIONS



OEC-872-1-B-SIN

TEST NUMBER

RIG NAME

PAGE OF

DST#1-6

DIAMOND M. EPOCH

14 14

CUSTOMER WELL NAME OR NUMBER FIELD AREA

AMOCO AUSTRALIA PETROLEUM 'CO.

PELICAN #5

PELICAN

BASS STRAIT

CUSTOMER REPRESENTED BY OTIS TEST SUPERVISOR

Mr. J Guillery/E Bowden/J Harkin/T Mosness

TONY WOOLHAM / GRAHAM MCKAY

| DATE | TIME | OPERATIONS |
|---------|------|---|
| 1 | | |
| 12APR86 | 1500 | CIRCULATED TO CONDITION MUD |
| 2 | | |
| | 2130 | BROKE OUT SUBSEA TEST TREE. ENDED DST #6 |
| 3 | | |
| 13APR86 | | RIGGED DOWN ALL TEST EQUIPMENT AND LOADED ONTO BOAT FOR DEVONPORT |
| 4 | | |
| | 1230 | CREW DEPARTED RIG FOR DEVONPORT |
| 5 | | |
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446248

Well Data



TEST STRING

446249

| TEST NUMBER | | RIG NAME | | DATE (DAY MO. YR.) | | PAGE | | OF | | | |
|-------------------------------|--------------------------------|------------------|---------------------|---------------------------------|-----------------|---------------------------|--------------------------|------------------------|-------------|--|--|
| DST #1 | | DIAMOND M. EPOCH | | 14MAR86 | | 1 | | 1 | | | |
| CUSTOMER | | | WELL NAME OR NUMBER | | | FIELD | | | AREA | | |
| AMOCO AUSTRALIA PETROLEUM CO. | | | PELICAN #5 | | | PELICAN | | | BASS STRAIT | | |
| TOP OF HOLE | DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | | INTERVAL TESTED (FEET) | | | |
| | | | 321 | 72.6 | 0 TIDE | 15.8 | | 3672-3699M | | | |
| ITEM # | DESCRIPTION | | | | | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) | | | |
| 1 | SURFACE TEST TREE | | | | | | 2.880 | | | | |
| 2 | 3 JOINTS HW DRILL PIPE | | | | | 6.500 | 3.125 | 91.28 | | | |
| 3 | PUP JOINT HW DRILL PIPE | | | | | 6.500 | 3.125 | 5.02 | | | |
| 4 | XD 4-1/2IF X 4-1/2 4 STUB ACME | | | | | | | | | | |
| 5 | SUBSEA LUBRICATOR VALVE | | | | | 10.750 | 2.880 | 9.50 | | | |
| 6 | 7 JOINTS HW DRILL PIPE | | | | | 6.500 | 3.125 | 212.74 | | | |
| 7 | XD 4-1/2IF X 4-1/2 4 STUB ACME | | | | | | | | | | |
| 8 | SUBSEA TEST TREE | | | | | 10.750 | 2.940 | | | | |
| 9 | XD 4-1/2 4STUB ACME X 3-1/2VAM | | | | | 6.250 | | 1.00 | | | |
| 10 | 333 JOINTS VAM TUBING | | | | | 3.500 | 2.750 | | | | |
| 11 | XD 3-1/2VAM BOX X 3-1/2PH6 PIN | | | | | 4.750 | 2.750 | 1.00 | | | |
| 12 | SRD NIPPLE | | | | | 4.625 | 2.230 | 2.00 | | | |
| 13 | XD 3-1/2PH6 BOX X 3-1/2IF PIN | | | | | 4.750 | 2.750 | 1.00 | | | |
| 14 | FULL FLOW SAFETY VALVE | | | | | 5.000 | 2.250 | 4.76 | | | |
| 15 | 1 STAND DRILL COLLARS | | | | | 4.750 | 2.312 | 93.52 | | | |
| 16 | SLIP JOINT | | | | | 5.000 | 2.250 | 18.16 | | | |
| 17 | SLIP JOINT | | | | | 5.000 | 2.250 | 15.66 | | | |
| 18 | SLIP JOINT | | | | | 5.000 | 2.250 | 13.16 | | | |
| 19 | 3 STANDS DRILL COLLARS | | | | | 4.750 | 2.312 | 277.91 | | | |
| 20 | FULL FLOW HYD CIRC VALVE | | | | | 4.625 | 2.250 | 7.22 | | | |
| 21 | SLIP JOINT | | | | | 5.000 | 2.250 | 18.16 | | | |
| 22 | 4 STANDS DRILL COLLARS | | | | | 4.750 | 2.312 | 370.52 | | | |
| 23 | LPR-M2 CIRC SAFETY VALVE | | | | | 5.000 | 2.250 | 19.40 | | | |
| 24 | FULL FLOW DRAIN VALVE | | | | | 5.000 | 2.250 | 1.00 | | | |
| 25 | LPR-N TEST VALVE | | | | | 5.000 | 2.250 | 16.40 | | | |
| 26 | FULL FLOW HYD CIRC VALVE | | | | | 4.625 | 2.250 | 7.22 | | | |
| 27 | JARS | | | | | 4.625 | 2.250 | 5.00 | | | |
| 28 | BUNDLE CARRIER | | | | | 5.030 | 2.187 | 7.97 | | | |
| 29 | XD 3-1/2IF BOX X 2-7/8EUE PIN | | | | | 4.750 | 2.310 | 1.18 | | | |
| 30 | RTTS SAFETY JOINT | | | | | 4.870 | 2.440 | 3.30 | | | |
| 31 | RTTS PACKER | | | | | 5.750 | 2.400 | 4.52 | | | |
| 32 | XD 2-7/8EUE PIN X 3-1/2FH PIN | | | | | 4.620 | 2.250 | 1.04 | | | |
| 33 | XD 3-1/2FH BOX X 3-1/2IF PIN | | | | | 4.750 | 2.310 | 1.03 | | | |
| 34 | DRILL PIPE | | | | | 3.500 | 2.764 | 31.00 | | | |
| 35 | XD 3-1/2IF BOX X 3-1/2EUE PIN | | | | | 4.750 | 2.250 | 1.00 | | | |
| 36 | WIRELINE RE-ENTRY GUIDE | | | | | | | 0.83 | | | |
| 37 | | | | | | | | | | | |
| 38 | | | | | | | | | | | |
| | | | | | | | | BOTTOM OF HOLE | | | |

11595



TEST STRING

446250

| TEST NUMBER | | RIG NAME | | DATE (DAY MO. YR.) | | PAGE | | OF | | | |
|-------------------------------|--------------------------------|---------------------------|--------------------------|---------------------------------|-----------------|--------------------|--|------------------------|-------------|--|--|
| DST #2A & 3 | | DIAMOND M. EPOCH | | 20MAR86 | | 1 | | 1 | | | |
| CUSTOMER | | | WELL NAME OR NUMBER | | | FIELD | | | AREA | | |
| AMOCO AUSTRALIA PETROLEUM CO. | | | FELICAN #5 | | | FELICAN | | | BASS STRAIT | | |
| TOP OF HOLE | DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | | INTERVAL TESTED (FEET) | | | |
| | | | 321 | 73 | RKB | 15.0 | | SEE DESC. | | | |
| ITEM # | DESCRIPTION | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) | | | | | | | |
| 1 | OTIS CONTROL HEAD | | | | | | | | | | |
| 2 | 3 JOINTS 5-INCH DRILL PIPE | 5.000 | 4.276 | 91.28 | | | | | | | |
| 3 | PUP JOINT | 5.000 | 4.276 | 5.02 | | | | | | | |
| 4 | OTIS SUBSEA LUBRICATOR VALVE | 10.750 | 2.940 | 9.50 | | | | | | | |
| 5 | 7 JOINTS 5-INCH DRILL PIPE | 5.000 | 4.276 | 212.74 | | | | | | | |
| 6 | OTIS SUBSEA TEST TREE | 10.750 | 2.940 | 20.00 | | | | | | | |
| 7 | 108 STANDS TUBING | 3.500 | 2.750 | | | | | | | | |
| 8 | XD 3-1/2VAM BOX X 3-1/2PH6 PIN | 4.750 | 2.750 | 1.00 | | | | | | | |
| 9 | SRO LATCH NIPPLE | 4.625 | 2.750 | 2.00 | | | | | | | |
| 10 | XD 3-1/2PH6 BOX X 3-1/2IF PIN | 4.750 | 2.750 | 1.00 | | | | | | | |
| 11 | FULL FLOW SAFETY VALVE | 5.000 | 2.250 | 4.00 | | | | | | | |
| 12 | 1 STAND DRILL COLLAR | 4.750 | 2.312 | 93.52 | | | | | | | |
| 13 | SLIP JOINT | 5.000 | 2.250 | 18.16 | | | | | | | |
| 14 | SLIP JOINT | 5.000 | 2.250 | 13.66 | | | | | | | |
| 15 | SLIP JOINT | 5.000 | 2.250 | 13.16 | | | | | | | |
| 16 | 3 STANDS DRILL COLLAR | 4.750 | 2.312 | 277.91 | | | | | | | |
| 17 | FULL FLOW HYD CIRC VALVE | 4.625 | 2.250 | 7.22 | | | | | | | |
| 18 | SLIP JOINT | 5.000 | 2.250 | 13.16 | | | | | | | |
| 19 | 4 STANDS DRILL COLLAR | 4.750 | 2.312 | 370.52 | | | | | | | |
| 20 | LPR-M2 CIRC SAFETY VALVE | 5.000 | 2.250 | 18.40 | | | | | | | |
| 21 | FULL FLOW DRAIN VALVE | 5.000 | 2.250 | 1.00 | | | | | | | |
| 22 | LPR-N TESTER VALVE | 5.000 | 2.250 | 16.40 | | | | | | | |
| 23 | FULL FLOW HYD CIRC VALVE | 4.625 | 2.250 | 7.22 | | | | | | | |
| 24 | JARS | 4.625 | 2.250 | 5.00 | | | | | | | |
| 25 | BUNDLE CARRIER | 5.030 | 2.187 | 7.97 | | | | | | | |
| 26 | XD 3-1/2IF BOX X 2-7/8EUE PIN | 4.750 | 2.310 | 1.18 | | | | | | | |
| 27 | RTTS SAFETY JOINT | 4.870 | 2.440 | 3.30 | | | | | | | |
| 28 | RTTS PACKER | 5.750 | 2.460 | 4.52 | | | | | | | |
| 29 | XD 2-7/8EUE PIN X 3-1/2FH PIN | 4.820 | 2.250 | 1.04 | | | | | | | |
| 30 | XD 3-1/2FH BOX X 3-1/2IF PIN | 4.750 | 2.310 | 1.03 | | | | | | | |
| 31 | 1 JOINT DRILL PIPE | 3.500 | 2.764 | 31.00 | | | | | | | |
| 32 | XD 3-1/2IF BOX X 3-1/2EUE PIN | 4.750 | 2.250 | 1.00 | | | | | | | |
| 33 | WIRELINE RE-ENTRY GUIDE | | | 0.83 | | | | | | | |
| 34 | | | | | | | | | | | |
| 35 | PACKER SET AT 11024 FEET | | | | | | | | | | |
| 36 | | | | | | | | | | | |
| 37 | | | | | | | | | | | |
| 38 | | | | | | | | | | | |

11024

BOTTOM OF HOLE



TEST STRING

446251

| CUSTOMER | | WELL NAME OR NUMBER | | RIG NAME | | DATE (DAY MO. YR.) | | PAGE OF | |
|-------------------------------|--|-----------------------|-------------------|---------------------------------|---------------------------|--------------------------|---------------|------------------------|--|
| AMOCO AUSTRALIA PETROLEUM CO. | | PELICAN #5 | | DIAMOND M. EPOCH | | 24MAR86 | | 1 2 | |
| TOP OF HOLE | | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | | INTERVAL TESTED (FEET) | |
| | | | 321 | 73 | 0 TIDE | 11.8 | | 3142-3163.5M | |
| | | DEPTH (FEET) | ITEM # | DESCRIPTION | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) | | |
| | | | 1 | OTIS CONTROL HEAD | | | | | |
| | | | 2 | 3 JOINTS 5-INCH DRILL PIPE | 5.000 | | 91.28 | | |
| | | | 3 | PUP JOINT | 5.000 | | 5.02 | | |
| | | | 4 | OTIS SUBSEA LUBRICATOR VALVE | 10.750 | 2.940 | 9.50 | | |
| | | | 5 | 7 JOINTS 5-INCH DRILL PIPE | 5.000 | | 212.74 | | |
| | | | 6 | OTIS SUBSEA TEST TREE | 10.750 | 2.940 | 20.00 | | |
| | | | 7 | 96 STANDS 3-1/2 TUBING | 3.500 | 2.750 | 9313.90 | | |
| | | | 8 | 2 JOINTS 3-1/2 TUBING | 3.500 | 2.750 | 63.04 | | |
| | | | 9 | 10 FT PUP JOINT | 3.500 | 2.750 | 10.10 | | |
| | | | 10 | XD 3-1/2VAM BOX X 3-1/2PH6 PIN | 4.750 | 2.750 | 1.00 | | |
| | | | 11 | SRO LATCH NIPPLE | 4.625 | 2.300 | 2.00 | | |
| | | | 12 | XD 3-1/2PH6 BOX X 3-1/2IF PIN | 4.750 | 2.750 | 1.00 | | |
| | | | 13 | FULL FLOW SAFETY VALVE | 5.000 | 2.250 | 4.76 | | |
| | | | 14 | 1 STAND DRILL COLLAR | 4.750 | 2.312 | 93.52 | | |
| | | | 15 | SLIP JOINT | 5.000 | 2.250 | 18.16 | | |
| | | | 16 | SLIP JOINT | 5.000 | 2.250 | 15.66 | | |
| | | | 17 | SLIP JOINT | 5.000 | 2.250 | 13.16 | | |
| | | | 18 | 3 STANDS DRILL COLLAR | 4.750 | 2.312 | 277.91 | | |
| | | | 19 | FULL FLOW HYD CIRC VALVE | 4.625 | 2.250 | 7.22 | | |
| | | | 20 | SLIP JOINT | 5.000 | 2.250 | 13.16 | | |
| | | | 21 | 4 STANDS DRILL COLLAR | 4.750 | 2.312 | 370.52 | | |
| | | | 22 | LPR-M2 CIRC SAFETY VALVE | 5.000 | 2.250 | 17.40 | | |
| | | | 23 | FULL FLOW DRAIN VALVE | 5.000 | 2.250 | 1.00 | | |
| | | | 24 | LPR-N TESTER VALVE | 5.000 | 2.250 | 16.40 | | |
| | | | 25 | FULL FLOW HYD CIRC VALVE | 4.625 | 2.250 | 7.22 | | |
| | | | 26 | DRAG BLOCK ASSY | 5.875 | 2.250 | 2.16 | | |
| | | | 27 | BUNDLE CARRIER | 5.375 | 2.187 | 7.97 | | |
| | | | 28 | DRAG BLOCK ASSY | 5.875 | 2.250 | 2.16 | | |
| | | | 29 | BIG JOHN JARS | 4.625 | 2.250 | 5.00 | | |
| | | | 30 | XD 3-1/2IF BOX X 3-1/2FH PIN | 4.750 | 2.310 | 1.03 | | |
| | | | 31 | FULL FLOW VR SAFETY JOINT | 4.625 | 2.250 | 4.78 | | |
| | | | 32 | XD 3-1/2FH BOX X 3-1/2IF PIN | 4.625 | 2.310 | 1.00 | | |
| | | | 33 | PRESSURE PORTED SUB | 4.750 | 2.380 | 3.28 | | |
| | | | 34 | XD 3-1/2IF BOX X 3-1/2FH PIN | 4.750 | 2.310 | 0.78 | | |
| | | | 35 | XD 3-1/2FH BOX X 3-1/8SN PIN | 4.750 | 1.750 | 1.00 | | |
| | | | 36 | RTTS PACKER | 5.750 | 2.440 | 3.74 | | |
| | | | 37 | PERFORATED TAIL PIPE | 2.875 | 2.440 | 5.34 | | |
| | | | 38 | SLOTTED TAIL PIPE | 2.875 | | 5.91 | | |
| | | BOTTOM OF HOLE | | | | | | | |



TEST STRING

446252

| | | | |
|-----------------------|------------------------------|-------------------------------|------------------|
| TEST NUMBER DST #4 | RIG NAME DIAMOND M. EPOCH | DATE (DAY MO. YR.) 24MAR86 | PAGE OF 2 2 |
|-----------------------|------------------------------|-------------------------------|------------------|

| | | | |
|---|-----------------------------------|------------------|---------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | AREA BASS STRAIT |
|---|-----------------------------------|------------------|---------------------|

| | | | | | | | |
|-------------|--------------|--------------|--------------------------|---------------------------------------|---------------------------|----------------------------|--|
| TOP OF HOLE | DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) 321 | GROUND ELEV./WATER DEPTH (FEET) 73 | REFERENCE ELEV. 0 TIDE | MUD WT. (LBS./FT.) 11.8 | INTERVAL TESTED (FEET) 3142-3163.5M |
|-------------|--------------|--------------|--------------------------|---------------------------------------|---------------------------|----------------------------|--|

| ITEM # | DESCRIPTION | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) |
|--------|--------------------------|---------------------------|--------------------------|---------------|
| 1 | FIRING HEAD | 3.125 | | 2.23 |
| 2 | TOP GUNS | 5.000 | | 86.52 |
| 3 | | | | |
| 4 | PACKER SET AT 10280 FEET | | | |
| 5 | | | | |
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| 37 | | | | |
| 38 | | | | |

BOTTOM OF HOLE



TEST STRING

446253

| CUSTOMER | | WELL NAME OR NUMBER | TEST NUMBER | RIG NAME | DATE (DAY MO. YR.) | PAGE | OF |
|-------------------------------|----------------|---------------------|---------------------------------|------------------|---------------------------|--------------------------|---------------|
| AMOCO AUSTRALIA PETROLEUM CO. | | PELICAN #5 | DST #5 | DIAMOND M. EPOCH | 29MAR86 | 1 | 1 |
| TOP OF HOLE | | PELICAN | KB | PELICAN | BASS STRAIT | AREA | |
| DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | INTERVAL TESTED (FEET) | |
| | | 321 | 73 | KB | 9.3 | 2868-2884M | |
| | | ITEM # | DESCRIPTION | | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) |
| | | 1 | OTIS CONTROL HEAD | | | | |
| | | 2 | 3 JOINTS 5-INCH DRILL PIPE | | 5.000 | | 91.28 |
| | | 3 | OTIS SUBSEA LUBRICATOR VALVE | | 10.750 | 2.940 | 5.02 |
| | | 4 | TIW VALVE | | 5.000 | 2.875 | |
| | | 5 | 7 JOINT 5-INCH DRILL PIPE | | 5.000 | | 212.74 |
| | | 6 | OTIS SUBSEA TEST TREE | | 10.750 | 2.940 | 20.00 |
| | | 7 | 87 STANDS TUBING | | 3.500 | 2.750 | 8160.00 |
| | | 8 | 2 PUP JOINTS | | 3.500 | 2.750 | 15.18 |
| | | 9 | XD 3-1/2VAM BOX X 3-1/2PH6 PIN | | 4.750 | 2.750 | 1.00 |
| | | 10 | JRD LATCH NIPPLE | | 4.625 | 2.300 | 2.00 |
| | | 11 | XD 3-1/2PH6 BOX X 3-1/2IF PIN | | 4.750 | 2.750 | 1.00 |
| | | 12 | FULL FLOW SAFETY VALVE | | 5.000 | 2.250 | 4.76 |
| | | 13 | 1 STAND DRILL COLLAR | | 4.750 | 2.312 | 93.52 |
| | | 14 | SLIP JOINT | | 5.000 | 2.250 | 18.16 |
| | | 15 | SLIP JOINT | | 5.000 | 2.250 | 15.66 |
| | | 16 | SLIP JOINT | | 5.000 | 2.250 | 13.16 |
| | | 17 | 3 STANDS DRILL COLLAR | | 4.750 | 2.312 | 277.91 |
| | | 18 | FULL FLOW HYD CIRC VALVE | | 4.625 | 2.250 | 7.22 |
| | | 19 | SLIP JOINT | | 5.000 | 2.250 | 13.16 |
| | | 20 | 4 STANDS DRILL COLLAR | | 4.750 | 2.312 | 370.52 |
| | | 21 | LPR-M2 CIRC SAFETY VALVE | | 5.000 | 2.250 | 17.40 |
| | | 22 | FULL FLOW DRAIN VALVE | | 5.000 | 2.250 | 1.00 |
| | | 23 | LPR-N TESTER VALVE | | 5.000 | 2.250 | 16.40 |
| | | 24 | FULL FLOW HYD CIRC VALVE | | 4.625 | 2.250 | 7.22 |
| | | 25 | DRAG BLOCK ASSY | | 8.150 | 2.600 | 2.73 |
| | | 26 | BUNDLE CARRIER | | 5.375 | 2.187 | 7.97 |
| | | 27 | BIG JOHN JARS | | 4.625 | 2.250 | 5.00 |
| | | 28 | XD 3-1/2IF BOX X 3-1/2FH PIN | | 4.750 | 2.310 | 1.03 |
| | | 29 | FULL FLOW VR SAFETY JOINT | | 4.625 | 2.250 | 4.78 |
| | | 30 | XD 3-1/2FH BOX X 3-1/2IF PIN | | 4.625 | 2.310 | 1.00 |
| | | 31 | PRESSURE PORTED SUB | | 4.750 | 2.380 | 3.28 |
| | | 32 | XD 3-1/2IF BOX X 3-1/2FH PIN | | 4.750 | 2.310 | 0.78 |
| | | 33 | RTTS TESTING PACKER | | 8.150 | 3.750 | 5.27 |
| | | 34 | XD 4-1/2IF BOX X 3-1/2IF PIN | | | | 0.78 |
| | | 35 | XD 3-1/2IF BOX X 2-7/8EUE PIN | | | | 1.17 |
| | | 36 | SLOTTED TAIL PIPE | | 2.785 | | 5.91 |
| | | 37 | FIRING HEAD | | 3.125 | | 2.23 |
| | BOTTOM OF HOLE | 38 | TOP GUNS | | 5.000 | | 86.52 |



TEST STRING

446254

| | | | | |
|-------------|------------------|--------------------|------|----|
| TEST NUMBER | RIG NAME | DATE (DAY MO. YR.) | PAGE | OF |
| DST #5A | DIAMOND M. EPOCH | 07APR86 | 1 | 1 |

| | | | |
|-------------------------------|---------------------|---------|-------------|
| CUSTOMER | WELL NAME OR NUMBER | FIELD | AREA |
| AMOCO AUSTRALIA PETROLEUM CO. | PELICAN #5 | PELICAN | BASS STRAIT |

| TOP OF HOLE | DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | INTERVAL TESTED (FEET) | | |
|-------------|--------------|--------------|--------------------------------|---------------------------------|-----------------|--------------------|---------------------------|--------------------------|---------------|
| | | | 321 | 73 | 0 TIDE | 9.2 | 2855-2860.5M | | |
| | | ITEM # | DESCRIPTION | | | | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) |
| | | 1 | OTIS CONTROL HEAD | | | | | | |
| | | 2 | 4 JOINTS DRILL PIPE | | | | 5.000 | | 121.28 |
| | | 3 | PUP JOINT | | | | 5.000 | | 5.02 |
| | | 4 | OTIS SUBSEA LUBRICATOR VALVE | | | | 10.750 | 2.940 | 9.50 |
| | | 5 | 6 JOINTS DRILL PIPE | | | | 5.000 | | 182.74 |
| | | 6 | OTIS SUBSEA TEST TREE | | | | 10.750 | 2.940 | 20.00 |
| | | 7 | 85 STANDS & 1 DOUBLE | | | | 3.500 | 2.750 | 8024.29 |
| | | 8 | XD 3-1/2VAM BOX X 3-1/2PH6 PIN | | | | 4.750 | 2.750 | 1.00 |
| | | 9 | SRO LATCH NIPPLE | | | | 4.625 | 2.300 | 2.00 |
| | | 10 | XD 3-1/2PH6 BOX X 3-1/2IF PIN | | | | 4.750 | 2.750 | 1.00 |
| | | 11 | SLIP JOINT SAFETY VALVE | | | | 5.000 | 2.250 | 4.76 |
| | | 12 | 1 STAND DRILL COLLAR | | | | 4.750 | 2.312 | 92.61 |
| | | 13 | SLIP JOINT | | | | 5.000 | 2.250 | 18.16 |
| | | 14 | SLIP JOINT | | | | 5.000 | 2.250 | 15.66 |
| | | 15 | SLIP JOINT | | | | 5.000 | 2.250 | 13.16 |
| | | 16 | 3 STANDS DRILL COLLAR | | | | 4.750 | 2.312 | 277.91 |
| | | 17 | FULL FLOW HYD CIRC VALVE | | | | 4.625 | 2.250 | 7.22 |
| | | 18 | SLIP JOINT | | | | 5.000 | 2.250 | 13.16 |
| | | 19 | 4 STANDS DRILL COLLAR | | | | 4.750 | 2.312 | 370.52 |
| | | 20 | LPR-M2 CIRC SAFETY VALVE | | | | 5.000 | 2.250 | 17.40 |
| | | 21 | DRAIN VALVE | | | | 5.000 | 2.250 | 1.00 |
| | | 22 | LPR-N TESTER VALVE | | | | 5.000 | 2.250 | 16.40 |
| | | 23 | FULL FLOW HYD CIRC VALVE | | | | 4.625 | 2.250 | 7.22 |
| | | 24 | BUNDLE CARRIER | | | | 5.375 | 2.187 | 7.97 |
| | | 25 | JARS | | | | 4.625 | 2.250 | 5.00 |
| | | 26 | XD 3-1/2IF BOX X 3-1/2FH PIN | | | | 4.750 | 2.310 | 1.03 |
| | | 27 | SAFETY JOINT | | | | 4.625 | 2.250 | 4.78 |
| | | 28 | RTTS PACKER | | | | 8.150 | 3.750 | 5.27 |
| | | 29 | XD 4-1/2IF X 3-1/2JC PIN | | | | 6.120 | 2.310 | 0.78 |
| | | 30 | BUNDLE CARRIER (EMR) | | | | 5.375 | 2.187 | 7.97 |
| | | 31 | DRAG BLOCK ASSY | | | | 8.150 | 2.600 | 2.73 |
| | | 32 | 1 JOINT DRILL PIPE | | | | 3.500 | 2.764 | 31.00 |
| | | 33 | XD 3-1/2IF BOX X 3-1/2EUE PIN | | | | 4.750 | 2.250 | 1.00 |
| | | 34 | WIRELINE RE-ENTRY GUIDE | | | | | | 0.83 |
| | | 35 | | | | | | | |
| | | 36 | PACKER SET AT 9233 FEET | | | | | | |
| | | 37 | | | | | | | |
| | | 38 | | | | | | | |
| | | | BOTTOM OF HOLE | | | | | | |



TEST STRING

446255

| | | | | | | |
|---|--|-----------------------------------|--|-------------------------------|-----------|---------------------|
| TEST NUMBER DST #6 | | RIG NAME DIAMOND M. EPOCH | | DATE (DAY MO. YR.) 06APR86 | PAGE 1 | OF 1 |
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | | WELL NAME OR NUMBER PELICAN #5 | | FIELD PELICAN | | AREA BASS STRAIT |

| TOP OF HOLE | DEPTH (FEET) | DEPTH (FEET) | KB ELEVATION (FT) | GROUND ELEV./WATER DEPTH (FEET) | REFERENCE ELEV. | MUD WT. (LBS./FT.) | INTERVAL TESTED (FEET) |
|-------------|--------------------------------|---------------------------|--------------------------|---------------------------------|-----------------|--------------------|------------------------|
| | | | 321 | 73 | 0 TIDE | 9.2 | 2786-2790M |
| ITEM # | DESCRIPTION | OUTSIDE DIAMETER (INCHES) | INSIDE DIAMETER (INCHES) | LENGTH (FEET) | | | |
| 1 | OTIS CONTROL HEAD | | | | | | |
| 2 | 3 JOINTS 5-INCH DRILL PIPE | 5.000 | | 91.28 | | | |
| 3 | PUP JOINT | 5.000 | | 5.02 | | | |
| 4 | OTIS SUBSEA LUBRICATOR VALVE | 10.750 | 2.940 | 9.50 | | | |
| 5 | 7 JOINTS 5-INCH DRILL PIPE | 5.000 | | 212.74 | | | |
| 6 | OTIS SUBSEA TEST TREE | 10.750 | 2.940 | 20.00 | | | |
| 7 | 88 STANDS & 2 SINGLE TUBING | 3.500 | 2.750 | 8307.83 | | | |
| 8 | XO 3-1/2VAM BOX X 3-1/2PH6 PIN | 4.750 | 2.750 | 1.00 | | | |
| 9 | SRO LATCH NIPPLE | 4.625 | 2.300 | 2.00 | | | |
| 10 | XO 3-1/2PH BOX X 3-1/2IF PIN | 4.750 | 2.750 | 1.00 | | | |
| 11 | SLIP JOINT SAFETY VALVE | 5.000 | 2.250 | 4.76 | | | |
| 12 | 1 STAND DRILL COLLAR | 4.750 | 2.312 | 92.61 | | | |
| 13 | SLIP JOINT | 5.000 | 2.250 | 18.16 | | | |
| 14 | SLIP JOINT | 5.000 | 2.250 | 15.66 | | | |
| 15 | SLIP JOINT | 5.000 | 2.250 | 13.16 | | | |
| 16 | 5 STANDS DRILL COLLAR | 4.750 | 2.312 | 370.82 | | | |
| 17 | LPR-M2 CIRC SAFETY VALVE | 5.000 | 2.250 | 17.40 | | | |
| 18 | OMNI VALVE | 5.000 | 2.250 | 20.70 | | | |
| 19 | DRAIN VALVE | 5.000 | 2.250 | 1.00 | | | |
| 20 | LPR-N TESTER VALVE | 5.000 | 2.250 | 16.40 | | | |
| 21 | FULL FLOW HYD CIRC VALVE | 4.625 | 2.250 | 7.22 | | | |
| 22 | BUNDLE CARRIER | 5.375 | 2.187 | 7.97 | | | |
| 23 | JARS | 4.625 | 2.250 | 5.00 | | | |
| 24 | XO 3-1/2IF BOX X 3-1/2FH PIN | 4.750 | 2.310 | 1.03 | | | |
| 25 | SAFETY JOINT | 4.625 | 2.250 | 4.78 | | | |
| 26 | RTTS PACKER | 8.150 | 3.750 | 5.27 | | | |
| 27 | XO 4-1/2IF BOX X 3-1/2IF PIN | 6.120 | 2.310 | 0.78 | | | |
| 28 | BUNDLE CARRIER (EMR) | 5.375 | 2.187 | 7.97 | | | |
| 29 | DRAG BLOCK ASSY | 8.150 | 2.600 | 2.73 | | | |
| 30 | 1 JOINT DRILL PIPE | 3.500 | 2.764 | 31.00 | | | |
| 31 | XO 3-1/2IF BOX X 3-1/2EUE PIN | 4.750 | 2.250 | 1.00 | | | |
| 32 | WIRELINE RE-ENTRY GUIDE | | | 0.83 | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | | | | |
| 37 | | | | | | | |
| | BOTTOM OF HOLE | | | | | | |

446256

Test Equipment

EQUIPMENT LIST

| | | |
|---|-----------------------------------|-------------------|
| 1 | SUBSEA TEST TREE | 78-EO-208 |
| 1 | SUBSEA LUBRICATOR VALVE | 78-EO-85 |
| 1 | SURFACE TEST TREE | 3" X 10000 PSI WP |
| 1 | CHOKE MANIFOLD | 3" X 10000 PSI WP |
| 1 | 2MM BTU INDIRECT GAS FIRED HEATER | |
| 1 | 1440 PSI 3 PHASE SEPARATOR | |
| 1 | 120 BBLs 50 PSI STOCK TANK | |
| 1 | 2400 BBLs/DAY TRANSFER PUMP | |
| 2 | CB-12 BURNERS & BOOMS | |

446258

Test Results



TEST RESULTS

OEC-865-1-C

| | | | | | | |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|
| TEST NUMBER DST#4 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER ONE | DATE (DAY MO YR) 26MAR86 | PAGE 1 | OF 2 |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|

| | | | | |
|---|--------------------------------|---------------------------------------|--|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | OIL GRAVITY @ 60°F (°API) 0 | GAS SPECIFIC GRAVITY (AIR = 1) .83 | INTERVAL TESTED (FEET) 3142-3163.5M | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP |
|---|--------------------------------|---------------------------------------|--|--|

| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (psi) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARATOR PRESSURE (psi) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE Q _g | CORRECTED OIL FLOW RATE Q _o | WATER FLOW RATE (BPD) | <input type="checkbox"/> (GOR MSCF/STO BBL) <input type="checkbox"/> (OGR STO BBL/MSCF) | WOR (BBL/STO BBL) | WGR (BBL/MMSCF) |
|------------------------------|---------------------------------|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------|--------------------|---|---|--------------------------|--|----------------------|--------------------|
| | | | | | | DEPTH (FT) (psi) | DEPTH (FT) (°F) | (MSCF/D) | (STO BPD) | | | | |
| 26 | | | | | | C02 = 5.5 | | | | | | | |
| 0745 | 14.22 | 307 | 63 | 16 | 49 | 0.00 | 0 | 333.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 6.0 | | | | | | | |
| 0800 | 14.47 | 290 | 63 | 16 | 47 | 0.00 | 0 | 330.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.7 | | | | | | | |
| 0815 | 14.72 | 280 | 63 | 16 | 46 | 0.00 | 0 | 327.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.7 | | | | | | | |
| 0830 | 14.97 | 272 | 63 | 16 | 46 | 0.00 | 0 | 324.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.1 | | | | | | | |
| 0845 | 15.22 | 252 | 63 | 16 | 50 | 0.00 | 0 | 323.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.1 | | | | | | | |
| 0900 | 15.47 | 245 | 64 | 16 | 53 | 0.00 | 0 | 315.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 0915 | 15.72 | 245 | 65 | 16 | 53 | 0.00 | 0 | 292.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 0930 | 15.97 | 250 | 65 | 16 | 53 | 0.00 | 0 | 289.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 0945 | 16.22 | 256 | 67 | 16 | 50 | 0.00 | 0 | 289.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1000 | 16.47 | 250 | 68 | 16 | 48 | 0.00 | 0 | 288.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1015 | 16.72 | 250 | 68 | 16 | 47 | 0.00 | 0 | 291.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1030 | 16.97 | 250 | 67 | 16 | 47 | 0.00 | 0 | 291.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1045 | 17.22 | 250 | 67 | 16 | 46 | 0.00 | 0 | 291.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1100 | 17.47 | 250 | 66 | 16 | 47 | 0.00 | 0 | 294.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.0 | | | | | | | |
| 1115 | 17.72 | 250 | 66 | 16 | 47 | 0.00 | 0 | 293.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | | | | | | C02 = 5.5 | | | | | | | |
| 1130 | 17.97 | 250 | 65 | 16 | 49 | 0.00 | 0 | 298.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | | | | | | | |
|----------------|-------|--------------|------|-----------------|------|---------------|--|----------------|--|--------------|--|
| FLOW TIME FROM | 0730 | FLOW TIME TO | 1130 | NUMBER FOR RATE | | FLOW TIME/END | | NUMBER OF RATE | | | |
| GAS (MSCF): | 50.78 | OIL (BBL): | 0.00 | WATER (BBL): | 0.00 | GAS (MSCF): | | OIL (BBL): | | WATER (BBL): | |



TEST RESULTS

OEC-865-1-C

| | | | | | |
|----------------------|-----------------------------------|---------------------|--|-----------|---------|
| TEST NUMBER DST#4 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER DATE (DAY MO YR) ONE 26MAR86 | PAGE 2 | OF 2 |
|----------------------|-----------------------------------|---------------------|--|-----------|---------|

| | | | | |
|---|--------------------------------|---------------------------------------|--|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | OIL GRAVITY @ 60°F (°API) 0 | GAS SPECIFIC GRAVITY (AIR = 1) .83 | INTERVAL TESTED (FEET) 3142-3163.5M | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP |
|---|--------------------------------|---------------------------------------|--|--|

| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (PSI) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARATOR PRESSURE (PSI) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE | CORRECTED OIL FLOW RATE | WATER FLOW RATE (BPD) | <input type="checkbox"/> (GOR MSCF STO BBL) | WOR (BBL STO BBL) | WGR (BBL MMSCF) | |
|------------------------------|---------------------------------|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------|--------------------|----------------------------|-----------------------------|--------------------------|---|----------------------|--------------------|----|
| | | | | | | DEPTH (FT) (PSI) | DEPTH (FT) (°F) | Q _g (MSCF/D) | Q _o (STO BPD) | | | | | |
| 1 26 | | | | | | C02 = 5.5 | | | | | | | | |
| 1145 | 18.22 | 250 | 65 | 16 | 50 | 0.00 | 0 | 291.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 2 26 | | | | | | C02 = 5.5 | | | | | | | | |
| 1200 | 18.47 | 248 | 65 | 16 | 50 | 0.00 | 0 | 288.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2 |
| 3 26 | | | | | | C02 = 5.5 | | | | | | | | |
| 1215 | 18.72 | 248 | 65 | 16 | 50 | 0.00 | 0 | 284.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3 |
| 4 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1230 | 18.97 | 298 | 64 | 16 | 50 | 0.00 | 0 | 288.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4 |
| 5 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1245 | 19.22 | 255 | 64 | 16 | 50 | 0.00 | 0 | 288.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5 |
| 6 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1300 | 19.47 | 248 | 63 | 16 | 50 | 0.00 | 0 | 291.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6 |
| 7 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1315 | 19.72 | 244 | 64 | 16 | 50 | 0.00 | 0 | 288.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7 |
| 8 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1330 | 19.97 | 225 | 64 | 16 | 50 | 0.00 | 0 | 285.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8 |
| 9 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1345 | 20.22 | 260 | 64 | 16 | 48 | 0.00 | 0 | 275.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9 |
| 10 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1400 | 20.47 | 265 | 64 | 16 | 44 | 0.00 | 0 | 278.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10 |
| 11 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1415 | 20.72 | 268 | 65 | 16 | 47 | 0.00 | 0 | 282.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11 |
| 12 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1430 | 20.97 | 265 | 64 | 16 | 44 | 0.00 | 0 | 285.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12 |
| 13 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1445 | 21.22 | 270 | 65 | 16 | 45 | 0.00 | 0 | 293.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13 |
| 14 26 | | | | | | C02 = 5.0 | | | | | | | | |
| 1500 | 21.47 | 260 | 64 | 16 | 48 | 0.00 | 0 | 306.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14 |
| 15 26 | | | | | | | | | | | | | | 15 |
| 16 26 | | | | | | | | | | | | | | 16 |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | |
|---------------------|-------------------|-------------------|-----------------------------------|-----------------|-------------------|
| FLOW TIME FROM 1130 | FLOW TIME TO 1500 | NUMBER FOR RATE | FLOW TIME/END FOR TEST UP TO 1500 | NUMBER OF RATE | |
| GAS (MSCF): 41.96 | OIL (BBL): 0.00 | WATER (BBL): 0.00 | GAS (MSCF): 92.75 | OIL (BBL): 0.00 | WATER (BBL): 0.00 |



TEST RESULTS

OEC-865-1-C

| | | | | | |
|-----------------------------|--|----------------------------|---|------------------|----------------|
| TEST NUMBER DST#4 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER DATE (DAY MO YR) TWO 27MAR86 | PAGE 1 | OF 1 |
|-----------------------------|--|----------------------------|---|------------------|----------------|

| | | | | |
|--|---------------------------------------|--|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | OIL GRAVITY @ 60°F (°API) 0 | GAS SPECIFIC GRAVITY (AIR = 1) .83 | INTERVAL TESTED (FEET) 3142-3163.5M | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP |
|--|---------------------------------------|--|---|---|

| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (PSI) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARA- TOR PRESS- URE (PSI) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE Q _g | CORRECTED OIL FLOW RATE Q _o | WATER FLOW RATE (BPD) | <input type="checkbox"/> (GOR MSCF STO BBL) | WOR ($\frac{BBL}{STO BBL}$) | WGR ($\frac{BBL}{MMSCF}$) |
|---------------------------------|---------------------------------------|--------------------------------|------------------------------|------------------------------|--|---------------------------|--------------------------|--|--|--------------------------------|---|----------------------------------|--------------------------------|
| | | | | | | DEPTH (FT) (PSI) | DEPTH (FT) (°F) | (MSCF/D) | (STO BPD) | | <input type="checkbox"/> (OGR STO BBL MSCF) | | |
| 1 27 | | | | | | CD2 = 5.0 | | | | | | | |
| 0720 | 0.83 | 38 | 60 | 128 | 33 | 0.00 | 0 | 501.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 27 | | | | | | CD2 = 5.0 | | | | | | | |
| 0730 | 0.99 | 35 | 60 | 128 | 30 | 0.00 | 0 | 478.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0740 | 1.16 | 35 | 60 | 128 | 30 | 0.00 | 0 | 457.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 27 | | | | | | CD2 = 5.8 | | | | | | | |
| 0750 | 1.33 | 35 | 60 | 128 | 30 | 0.00 | 0 | 457.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 27 | | | | | | CD2 = 6.0 | | | | | | | |
| 0800 | 1.49 | 35 | 60 | 128 | 30 | 0.00 | 0 | 449.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0810 | 1.66 | 35 | 60 | 128 | 30 | 0.00 | 0 | 442.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0820 | 1.83 | 35 | 60 | 128 | 30 | 0.00 | 0 | 434.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0830 | 1.99 | 40 | 60 | 128 | 32 | 0.00 | 0 | 436.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0840 | 2.16 | 37 | 60 | 128 | 32 | 0.00 | 0 | 436.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0850 | 2.33 | 37 | 60 | 128 | 31 | 0.00 | 0 | 431.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 27 | | | | | | CD2 = 5.5 | | | | | | | |
| 0900 | 2.49 | 35 | 60 | 128 | 31 | 0.00 | 0 | 431.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | | | | | | | |
|-------------------|-------|-----------------|------|--------------------|---------------------------------|--------------|-------------------|------------|------|--------------|------|
| FLOW TIME FROM | 0715 | FLOW TIME TO | 0900 | NUMBER FOR RATE | FLOW TIME/END FOR TEST UP TO | 0900 | NUMBER OF RATE | | | | |
| GAS (MSCF): | 32.68 | OIL (BBL): | 0.00 | WATER (BBL): | 0.00 | GAS (MSCF): | 32.68 | OIL (BBL): | 0.00 | WATER (BBL): | 0.00 |

446262



TEST RESULTS

OEC-865-1-C

| | | | | | | |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|
| TEST NUMBER DST#6 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER ONE | DATE (DAY MO YR) 11APR86 | PAGE 1 | OF 2 |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|

| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | | OIL GRAVITY @ 60°F (°API) 57.4 | | GAS SPECIFIC GRAVITY (AIR = 1) .82 | | INTERVAL TESTED (FEET) 2786-2790M | | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP | | | | | |
|---|---------------------------------|-----------------------------------|------------------------|---------------------------------------|-----------------------------|--------------------------------------|--------------------|--|-----------------------------|--------------------------|--|----------------------|--------------------|
| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (psi) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARATOR PRESSURE (psi) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE | CORRECTED OIL FLOW RATE | WATER FLOW RATE (BPD) | <input checked="" type="checkbox"/> (GOR MSCF STO BBL) | WOR (BBL STO BBL) | WGR (BBL MMSCF) |
| | | | | | | DEPTH (FT) (psi) | DEPTH (FT) (°F) | Q _g (MSCF/D) | Q _o (STO BPD) | | <input type="checkbox"/> (OGR STO BBL MSCF) | | |
| 11 | 1100 | 2.79 | 1620 | 91 | 290 | 25% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1115 | 3.04 | 1615 | 92 | 290 | 20% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1130 | 3.29 | 1615 | 92 | 290 | 20% H2O / | 0.00 | TRACE OF SEDIMENT / CL- 2000PPM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1145 | 3.54 | 1631 | 94 | 290 | 15% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1200 | 3.79 | 1620 | 94 | 290 | 2% CO2 / | 0.00 | 15% H2O / TRACE OF SED. / CL- 1600PPM | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1215 | 4.04 | 1620 | 95 | 290 | 20% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1230 | 4.29 | 1620 | 95 | 290 | 20% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1245 | 4.54 | 1622 | 95 | 295 | 20% H2O / | 0.00 | TRACE OF SEDIMENT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1300 | 4.79 | 1623 | 96 | 300 | 7% CO2 / | 0.00 | 15% H2O | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1315 | 5.04 | 1625 | 97 | 300 | 20% H2O | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1330 | 5.29 | 1625 | 97 | 300 | 6% CO2 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1345 | 5.54 | 1625 | 97 | 305 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1400 | 5.79 | 1625 | 98 | 305 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1415 | 6.04 | 1625 | 98 | 305 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1430 | 6.29 | 1625 | 98 | 305 | 6.5% CO2 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 1445 | 6.54 | 1625 | 98 | 310 | CL- 1500PPM | 0.00 | | 0.00 | 71.99 | 8.71 | 0.00 | 0.00 |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | | | | | | | |
|----------------|--------|--------------|------|-----------------|------|------------------------------|--|----------------|--|--------------|--|
| FLOW TIME FROM | 1045 | FLOW TIME TO | 1445 | NUMBER FOR RATE | | FLOW TIME/END FOR TEST UP TO | | NUMBER OF RATE | | | |
| GAS (MSCF): | 594.41 | OIL (BBL): | 4.24 | WATER (BBL): | 0.74 | GAS (MSCF): | | OIL (BBL): | | WATER (BBL): | |

446263



TEST RESULTS

OEC-865-1-C

| | | | | | | |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|
| TEST NUMBER DST#6 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER ONE | DATE (DAY MO YR) 11APR86 | PAGE 2 | OF 2 |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|

| | | | | |
|---|-----------------------------------|---------------------------------------|--------------------------------------|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | OIL GRAVITY @ 60°F (°API) 57.4 | GAS SPECIFIC GRAVITY (AIR = 1) .82 | INTERVAL TESTED (FEET) 2786-2790M | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP |
|---|-----------------------------------|---------------------------------------|--------------------------------------|--|

| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (psi) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARATOR PRESSURE (psi) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE | CORRECTED OIL FLOW RATE | WATER FLOW RATE (BPD) | <input checked="" type="checkbox"/> (GOR MSCF STO BBL) <input type="checkbox"/> (OGR STO BBL MSCF) | WOR (BBL STO BBL) | WGR (BBL MMSCF) |
|------------------------------|---------------------------------|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------|--------------------|----------------------------|-----------------------------|--------------------------|---|----------------------|--------------------|
| | | | | | | DEPTH (FT) (psi) | DEPTH (FT) (°F) | Q _g (MSCF/D) | Q _o (STO BPD) | | | | |
| 11 1500 | 6.79 | 1625 | 99 | 24 | 305 | 0.00 | 0 | 3603.91 | 448.79 | 79.19 | 8.03 | 0.00 | 0.00 |
| 11 1515 | 7.04 | 1625 | 99 | 24 | 305 | 0.00 | 0 | 3565.29 | 448.79 | 79.19 | 7.94 | 0.00 | 0.00 |
| 11 1530 | 7.29 | 1625 | 99 | 24 | 305 | 0.00 | 0 | 3521.43 | 448.79 | 79.19 | 7.84 | 0.00 | 0.00 |
| 11 1545 | 7.54 | 1625 | 99 | 24 | 310 | 0.00 | 0 | 3547.28 | 448.79 | 79.19 | 7.90 | 0.00 | 0.00 |
| 11 1600 | 7.79 | 1625 | 99 | 24 | 315 | 0.00 | 0 | 3537.73 | 448.79 | 79.19 | 7.88 | 0.00 | 0.00 |
| 11 1615 | 8.04 | 1625 | 100 | 24 | 320 | 0.00 | 0 | 3485.59 | 611.99 | 107.99 | 5.69 | 0.00 | 0.00 |
| 11 1630 | 8.29 | 1625 | 100 | 24 | 320 | 0.00 | 0 | 3485.59 | 611.99 | 107.99 | 5.69 | 0.00 | 0.00 |
| 11 1645 | 8.54 | 1610 | 100 | 24 | 320 | 0.00 | 0 | 3485.59 | 611.99 | 107.99 | 5.69 | 0.00 | 0.00 |
| 11 1700 | 8.79 | 1625 | 100 | 24 | 320 | 0.00 | 0 | 3485.59 | 448.79 | 79.19 | 7.76 | 0.00 | 0.00 |
| 11 1715 | 9.04 | 1625 | 100 | 24 | 315 | 0.00 | 0 | 3497.23 | 407.99 | 71.99 | 8.57 | 0.00 | 0.00 |
| 11 1730 | 9.29 | 1625 | 100 | 24 | 310 | 0.00 | 0 | 3507.58 | 448.79 | 79.19 | 7.81 | 0.00 | 0.00 |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | |
|---------------------|-------------------|--------------------|-----------------------------------|-------------------|---------------------|
| FLOW TIME FROM 1445 | FLOW TIME TO 1730 | NUMBER FOR RATE | FLOW TIME/END FOR TEST UP TO 1730 | NUMBER OF RATE | |
| GAS (MSCF): 403.36 | OIL (BBLs): 56.09 | WATER (BBLs): 9.89 | GAS (MSCF): 997.77 | OIL (BBLs): 60.34 | WATER (BBLs): 10.63 |



TEST RESULTS

OEC-865-1-C

446264

| | | | | | | |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|
| TEST NUMBER DST#6 | WELL NAME OR NUMBER PELICAN #5 | AREA BASS STRAIT | RATE/BUILD-UP NUMBER TWO | DATE (DAY MO YR) 12APR86 | PAGE 1 | OF 1 |
|----------------------|-----------------------------------|---------------------|-----------------------------|-----------------------------|-----------|---------|

| | | | | |
|---|-----------------------------------|---------------------------------------|--------------------------------------|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | OIL GRAVITY @ 60°F (°API) 57.4 | GAS SPECIFIC GRAVITY (AIR = 1) .82 | INTERVAL TESTED (FEET) 2786-2790M | STANDARD CONDITIONS 14.73 PRESS 60.0 TEMP |
|---|-----------------------------------|---------------------------------------|--------------------------------------|--|

| DAY TIME (24 HR CLOCK) | FLOW OR SHUT-IN TIME (HOURS) | WELL HEAD PRESSURE (psi) | WELL HEAD TEMP (°F) | CHOKE SIZE (64TH INCH) | SEPARATOR PRESSURE (psi) | BOTTOM HOLE PRESSURE @ | BOTTOM HOLE TEMP @ | CORRECTED GAS FLOW RATE | CORRECTED OIL FLOW RATE | WATER FLOW RATE (BPD) | <input checked="" type="checkbox"/> (GOR MSCF STO BBL) | WOR (BBL STO BBL) | WGR (BBL MMSCF) | | |
|------------------------------|---------------------------------|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------|--------------------|----------------------------|-----------------------------|--------------------------|--|----------------------|--------------------|------|----|
| | | | | | | DEPTH (FT) (psi) | DEPTH (FT) (°F) | Q _g (MSCF/D) | Q _o (STO BPD) | | <input type="checkbox"/> (OGR STO BBL MSCF) | | | | |
| 12 | 0245 | 3.56 | 525 | 125 | 96 | 385 | 0.00 | 0 | 5503.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 12 | 0300 | 3.81 | 535 | 125 | 96 | 380 | 0.00 | 0 | 5657.23 | 302.39 | 705.59 | 18.70 | 0.00 | 0.00 | 2 |
| 12 | 0315 | 4.06 | 530 | 125 | 96 | 380 | 0.00 | 0 | 5529.91 | 369.59 | 686.39 | 14.96 | 0.00 | 0.00 | 3 |
| 12 | 0330 | 4.31 | 520 | 126 | 96 | 380 | 0.00 | 0 | 5465.14 | 496.79 | 607.19 | 11.00 | 0.00 | 0.00 | 4 |
| 12 | 0345 | 4.56 | 525 | 127 | 96 | 375 | 0.00 | 0 | 5491.18 | 386.39 | 717.59 | 14.21 | 0.00 | 0.00 | 5 |
| 12 | 0400 | 4.81 | 525 | 129 | 96 | 380 | 0.00 | 0 | 5529.91 | 441.59 | 662.39 | 12.52 | 0.00 | 0.00 | 6 |
| 7 | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | 16 |

TOTAL WELL EFFLUENTS PRODUCED

| | | | | | |
|---------------------|-------------------|--------------------|-----------------------------------|------------------|--------------------|
| FLOW TIME FROM 0230 | FLOW TIME TO 0400 | NUMBER FOR RATE | FLOW TIME/END FOR TEST UP TO 0400 | NUMBER OF RATE | |
| GAS (MSCF): 345.59 | OIL (BBL): 20.79 | WATER (BBL): 35.19 | GAS (MSCF): 345.59 | OIL (BBL): 20.79 | WATER (BBL): 35.19 |

446265

Oil Flow
Rate Calculations



MEASUREMENT BY METER

$$V_o = V_m C_f k (1 - BSW/100)$$

WHERE

- V_o = VOLUME OF OIL AT ATMOSPHERIC PRESSURE AND TEMPERATURE (GENERALLY 60°F)
- V_m = VOLUME OF OIL REGISTERED BY METER(S) SINCE LAST READING AT SEPARATOR PRESSURE AND TEMPERATURE
- C_f = MEASURED CORRECTION FACTOR. IT IS OBTAINED BY CALIBRATING THE METER WITH A TANK DURING THE TEST AND INCLUDES BOTH THE METER FACTOR, M, AND THE WEATHERING FACTOR, W_f . $C_f = M W_f$
- M = METER FACTOR. IT IS TO CORRECT FOR ANY METER NON LINEARITIES.
- W_f = WEATHERING FACTOR = VOLUME OF OIL AT ATMOSPHERIC PRESSURE AND 60°F ÷ VOLUME OF OIL AT SEPARATOR CONDITIONS. NOTE: $W_f = (1 - Sh)$, WHERE Sh = OIL SHRINKAGE FROM SEPARATOR TO STOCK TANK CONDITIONS = (VOLUME OF OIL AT SEPARATOR CONDITIONS - VOLUME OF OIL AT ATMOSPHERIC PRESSURE AND 60°F) ÷ VOLUME OF OIL AT SEPARATOR CONDITIONS.
- k = TEMPERATURE CORRECTION FACTOR FROM ASTM TABLES (k = 1 FOR AN OIL TEMPERATURE OF 60°F).
- BSW = BASIC SEDIMENT AND WATER MEASURED USING API FIELD CENTRIFUGE METHOD = PERCENT OF BASIC SEDIMENT AND WATER VOLUME TO TOTAL VOLUME OF OIL AND BSW.
- Q_o = CORRECTED OIL FLOW RATE = V_o ÷ TIME TO PRODUCE THE VOLUME, V_o .

MEASUREMENT IN TANK

$$V_o = V_t k (1 - BSW/100)$$

V_o , k, BSW, AND Q_o - AS ABOVE

V_t = VOLUME OF OIL MEASURED IN TANK AT TANK TEMPERATURE SINCE LAST READING

446269

Gas Flow
Rate Calculations



METHOD OF CALCULATING GAS FLOW RATES

BASED ON A.G.A. REPORT NO. 3

446270

OEC-863-B

$$Q_g = C \sqrt{h_w P_f}$$

WHERE

C = Fpv X Fb X Fg X Ftf X Ftb X Fpb X Fr X Y2 X Fm X UNIT CONVERSION FACTOR

- Qg = CORRECTED GAS FLOW RATE
- C = ORIFICE FLOW CONSTANT
- hw = DIFFERENTIAL PRESSURE ACROSS ORIFICE IN INCHES WATER @ 60°F
- Pf = ABSOLUTE STATIC PRESSURE IN psi

AND

- Fpv = SUPERCOMPRESSIBILITY FACTOR (CORRECTED FOR N₂, H₂S, AND CO₂ EFFECTS ON FINAL REPORT, (IF DESIRED))
- Fb = BASIC ORIFICE FACTOR
- Fg = SPECIFIC GRAVITY FACTOR
- Ftf = FLOWING TEMPERATURE FACTOR
- Ftb = TEMPERATURE BASE FACTOR
- Fpb = PRESSURE BASE FACTOR
- Fr = REYNOLDS NUMBER FACTOR = 1
- Y₂ = EXPANSION FACTOR FOR DOWNSTREAM PRESSURE TAP
- Fm = MANOMETER FACTOR = 1
- UNIT CONVERSION FACTOR = FACTOR CHANGING FLOW RATE UNITS

WE CAN UNITE Fu = Ftb X Fpb X UNIT CONVERSION FACTOR

(Fu FACTORS ARE GIVEN IN TABLE BELOW FOR DIFFERENT STANDARD CONDITIONS AND FLOW RATE UNITS)

C₁ = Fu X Fg (THEORETICALLY CONSTANT DURING TEST)

C₂ = Fpv X Fb X Ftf X Y₂

THEN C = C₁ X C₂

TABLE OF Fu FACTORS

| STANDARD CONDITIONS | RATE OF FLOW UNITS | Cu | | | |
|---------------------|--------------------|----------|---------|----------------------|---------------------|
| | | Ft/HOURS | Ft/DAY | M ³ /HOUR | M ³ /DAY |
| 14.65 psi | 60°F | 1.0055 | 24.1311 | 0.0285 | 0.6834 |
| 14.73 psi | 60°F | 1 | 24 | 0.0283 | 0.6797 |
| 760 mm Hg | 0°C | 0.9483 | 22.7604 | 0.0269 | 0.6446 |
| 760 mm Hg | 15°C | 1.0004 | 24.0094 | 0.0283 | 0.6799 |
| 750 mm Hg | 15°C | 1.0137 | 24.3295 | 0.0287 | 0.6890 |

OTIS GAS FLOW RATE CALCULATIONS
OJLS
OEC-862-1-B

| | | | | | | |
|----------------------|--------------------|---------------------|-----------------------------------|---------------------------------|-----------|---------|
| TEST NUMBER DST#4 | RATE NUMBER ONE | AREA BASS STRAIT | WELL NAME OR NUMBER PELICAN #5 | DATE (DAY, MO, YR) 26 MAR 86 | PAGE 1 | OF 2 |
|----------------------|--------------------|---------------------|-----------------------------------|---------------------------------|-----------|---------|

| | | | | | | |
|---|--|-------|---------------------------------------|----------------------------|--------------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | STANDARD CONDITIONS X 14.73 psi 60 °F | OTHER | ATM. PRESS P _c = 659.91 | T _c = 429.95 | MEAS. <input type="checkbox"/> | GAS SPECIFIC GRAVITY-G 0.830 |
|---|--|-------|---------------------------------------|----------------------------|--------------------------------|---------------------------------|

| | | | | | | | |
|-----------------------------|----------------------------------|-----------------------------------|--|------------------------------------|---------------------------------------|---------------------------------|---|
| METER TYPE DANIEL SENIOR | METER RUN SIZE (INCHES) 5.761 | FLOW RECORDER TYPE BARTON 202A | h _w RANGE (INCHES WATER) 0-100 | STATIC PRESS RANGE (psi) 0-1500 | F _U TABLE PREV. PAGE 24 | F _g = √1/G 1.0976 | C ₁ = F _U X F _g 26.3424 |
|-----------------------------|----------------------------------|-----------------------------------|--|------------------------------------|---------------------------------------|---------------------------------|---|

| DAY TIME (24 HR CLOCK) | FLOW TIME (HOURS) | STATIC PRESSURE P ₁ (PSIA) | DIFFERENTIAL PRESSURE h _w (INCHES WATER) | DOWN STREAM GAS TEMP. (°F) | h _w P _f | ORIFICE SIZE d (INCHES) | C ₂ = F _b X F _{tf} X F _{pv} X Y ₂ | | | | C ₂ | C (C=C ₁ X C ₂) | CORRECTED GAS FLOW RATE Q _g = C √h _w P _f (MSCF/D) |
|------------------------------|----------------------|---|---|-------------------------------|-------------------------------|-------------------------------|--|-----------------|-----------------|----------------|----------------|---|--|
| | | | | | | | F _b | F _{tf} | F _{pv} | Y ₂ | | | |
| 1 26 | | | | | | | | | | | | | |
| 0745 | 14.23 | 64 | 61 | 65 | 62.48 | 1.000 | 200.95 | 0.9952 | 1.0093 | 1.0064 | 203.156 | 5351.6 | 333.68 |
| 2 26 | | | | | | | | | | | | | |
| 0800 | 14.48 | 62 | 62 | 66 | 62.00 | 1.000 | 200.95 | 0.9942 | 1.0089 | 1.0067 | 202.955 | 5346.3 | 330.76 |
| 3 26 | | | | | | | | | | | | | |
| 0815 | 14.73 | 61 | 62 | 67 | 61.49 | 1.000 | 200.95 | 0.9933 | 1.0087 | 1.0068 | 202.744 | 5340.7 | 327.73 |
| 4 26 | | | | | | | | | | | | | |
| 0830 | 14.98 | 61 | 61 | 69 | 61.00 | 1.000 | 200.95 | 0.9914 | 1.0086 | 1.0067 | 202.317 | 5329.5 | 324.39 |
| 5 26 | | | | | | | | | | | | | |
| 0845 | 15.23 | 65 | 57 | 71 | 60.86 | 1.000 | 200.95 | 0.9895 | 1.0091 | 1.0058 | 201.863 | 5317.5 | 323.01 |
| 6 26 | | | | | | | | | | | | | |
| 0900 | 15.48 | 68 | 52 | 72 | 59.46 | 1.000 | 200.95 | 0.9886 | 1.0095 | 1.0051 | 201.596 | 5310.5 | 315.17 |
| 7 26 | | | | | | | | | | | | | |
| 0915 | 15.73 | 68 | 45 | 72 | 55.31 | 1.000 | 200.95 | 0.9886 | 1.0095 | 1.0044 | 201.457 | 5306.8 | 292.98 |
| 8 26 | | | | | | | | | | | | | |
| 0930 | 15.98 | 68 | 44 | 72 | 54.69 | 1.000 | 200.95 | 0.9886 | 1.0095 | 1.0043 | 201.437 | 5306.3 | 289.68 |
| 9 26 | | | | | | | | | | | | | |
| 0945 | 16.23 | 65 | 46 | 72 | 54.68 | 1.000 | 200.95 | 0.9886 | 1.0090 | 1.0047 | 201.433 | 5306.2 | 289.55 |
| 10 26 | | | | | | | | | | | | | |
| 1000 | 16.48 | 63 | 47 | 72 | 54.41 | 1.000 | 200.95 | 0.9886 | 1.0087 | 1.0050 | 201.428 | 5306.1 | 288.12 |
| 11 26 | | | | | | | | | | | | | |
| 1015 | 16.73 | 62 | 49 | 73 | 55.11 | 1.000 | 200.95 | 0.9877 | 1.0086 | 1.0053 | 201.260 | 5301.6 | 291.59 |
| 12 26 | | | | | | | | | | | | | |
| 1030 | 16.98 | 62 | 49 | 73 | 55.11 | 1.000 | 200.95 | 0.9877 | 1.0086 | 1.0053 | 201.260 | 5301.6 | 291.59 |
| 13 26 | | | | | | | | | | | | | |
| 1045 | 17.23 | 61 | 50 | 74 | 55.22 | 1.000 | 200.95 | 0.9868 | 1.0084 | 1.0055 | 201.072 | 5296.7 | 291.88 |
| 14 26 | | | | | | | | | | | | | |
| 1100 | 17.48 | 62 | 50 | 75 | 55.67 | 1.000 | 200.95 | 0.9858 | 1.0085 | 1.0054 | 200.884 | 5291.7 | 294.00 |
| 15 26 | | | | | | | | | | | | | |
| 1115 | 17.73 | 62 | 50 | 77 | 55.67 | 1.000 | 200.95 | 0.9840 | 1.0083 | 1.0054 | 200.490 | 5281.3 | 293.42 |
| 16 26 | | | | | | | | | | | | | |
| 1130 | 17.98 | 64 | 50 | 77 | 56.56 | 1.000 | 200.95 | 0.9840 | 1.0086 | 1.0052 | 200.511 | 5281.9 | 298.17 |
| 17 26 | | | | | | | | | | | | | |
| 1145 | 18.23 | 65 | 47 | 77 | 55.27 | 1.000 | 200.95 | 0.9840 | 1.0088 | 1.0048 | 200.460 | 5280.6 | 291.27 |
| 18 26 | | | | | | | | | | | | | |
| 1200 | 18.48 | 65 | 46 | 77 | 54.68 | 1.000 | 200.95 | 0.9840 | 1.0088 | 1.0047 | 200.439 | 5280.0 | 288.12 |



GAS FLOW RATE CALCULATIONS

CEC-862-1-B

446274

| | | | | | | |
|----------------------|--------------------|---------------------|-----------------------------------|---------------------------------|-----------|---------|
| TEST NUMBER DST#6 | RATE NUMBER ONE | AREA BASS STRAIT | WELL NAME OR NUMBER PELICAN #5 | DATE (DAY, MO, YR) 11 APR 86 | PAGE 1 | OF 2 |
|----------------------|--------------------|---------------------|-----------------------------------|---------------------------------|-----------|---------|

| | | | | | | | |
|---|---|---------------------------------------|--|---|---------------------------------|---------------------------------|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | STANDARD CONDITIONS <input checked="" type="checkbox"/> 14.73 psi 60 °F <input type="checkbox"/> OTHER | ATM. PRESS P _c = 660.37 | T _c = 426.80 | MEAS. EST. <input type="checkbox"/> <input checked="" type="checkbox"/> | GAS SPECIFIC GRAVITY-G 0.820 | | |
| METER TYPE DANIEL SENIOR | METER RUN SIZE (INCHES) 5.761 | FLOW RECORDER TYPE BARTON 202A | h _w RANGE (INCHES WATER) 0-100 | STATIC PRESS RANGE (PSI) 0-1500 | FU TABLE PREV. PAGE 24 | F _g = √1/G 1.1043 | C ₁ = F _u X F _g 26.5032 |

| DAY TIME (24 HR CLOCK) | FLOW TIME (HOURS) | STATIC PRESSURE P ₁ (PSIA) | DIFFERENTIAL PRESSURE h _w (INCHES WATER) | DOWN STREAM GAS TEMP. (°F) | h _w P _f | ORIFICE SIZE d (INCHES) | C ₂ = F _b X F _{tf} X F _{pv} X Y ₂ | | | | C ₂ | C (C=C ₁ X C ₂) | CORRECTED GAS FLOW RATE Q _g = C √h _w P _f (MSCF/D) |
|------------------------------|----------------------|---|---|-------------------------------|-------------------------------|-------------------------------|--|-----------------|-----------------|----------------|----------------|---|--|
| | | | | | | | F _b | F _{tf} | F _{pv} | Y ₂ | | | |
| 1 11 | | | | | | | | | | | | | |
| 1100 | 2.80 | 305 | 48 | 50 | 120.99 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.203 | 29317.9 | 3.545825 |
| 2 11 | | | | | | | | | | | | | |
| 1115 | 3.05 | 305 | 48 | 50 | 120.99 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.203 | 29317.9 | 3.545825 |
| 3 11 | | | | | | | | | | | | | |
| 1130 | 3.30 | 305 | 49 | 50 | 122.24 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.226 | 29318.5 | 3.582646 |
| 4 11 | | | | | | | | | | | | | |
| 1145 | 3.55 | 305 | 48 | 50 | 120.99 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.203 | 29317.9 | 3.545825 |
| 5 11 | | | | | | | | | | | | | |
| 1200 | 3.80 | 305 | 49 | 50 | 122.24 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.226 | 29318.5 | 3.582646 |
| 6 11 | | | | | | | | | | | | | |
| 1215 | 4.05 | 305 | 48 | 50 | 120.99 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.203 | 29317.9 | 3.545825 |
| 7 11 | | | | | | | | | | | | | |
| 1230 | 4.30 | 305 | 48 | 50 | 120.99 | 2.250 | 1039.46 | 1.0097 | 1.0528 | 1.0010 | 1106.203 | 29317.9 | 3.545825 |
| 8 11 | | | | | | | | | | | | | |
| 1245 | 4.55 | 310 | 48 | 50 | 121.98 | 2.250 | 1039.46 | 1.0097 | 1.0538 | 1.0009 | 1107.220 | 29344.8 | 3.578086 |
| 9 11 | | | | | | | | | | | | | |
| 1300 | 4.80 | 315 | 48 | 51 | 122.96 | 2.250 | 1039.46 | 1.0087 | 1.0544 | 1.0009 | 1106.737 | 29332.0 | 3.605277 |
| 10 11 | | | | | | | | | | | | | |
| 1315 | 5.05 | 315 | 48 | 51 | 122.96 | 2.250 | 1039.46 | 1.0087 | 1.0544 | 1.0009 | 1106.737 | 29332.0 | 3.605277 |
| 11 11 | | | | | | | | | | | | | |
| 1330 | 5.30 | 315 | 47 | 51 | 121.67 | 2.250 | 1039.46 | 1.0087 | 1.0544 | 1.0009 | 1106.715 | 29331.4 | 3.567452 |
| 12 11 | | | | | | | | | | | | | |
| 1345 | 5.55 | 320 | 46 | 51 | 121.32 | 2.250 | 1039.46 | 1.0087 | 1.0554 | 1.0009 | 1107.711 | 29357.8 | 3.560422 |
| 13 11 | | | | | | | | | | | | | |
| 1400 | 5.80 | 320 | 46 | 50 | 121.32 | 2.250 | 1039.46 | 1.0097 | 1.0558 | 1.0009 | 1109.227 | 29398.0 | 3.565296 |
| 14 11 | | | | | | | | | | | | | |
| 1415 | 6.05 | 320 | 46 | 50 | 121.32 | 2.250 | 1039.46 | 1.0097 | 1.0558 | 1.0009 | 1109.227 | 29398.0 | 3.565296 |
| 15 11 | | | | | | | | | | | | | |
| 1430 | 6.30 | 320 | 46 | 50 | 121.32 | 2.250 | 1039.46 | 1.0097 | 1.0558 | 1.0009 | 1109.227 | 29398.0 | 3.565296 |
| 16 11 | | | | | | | | | | | | | |
| 1445 | 6.55 | 325 | 45 | 50 | 120.93 | 2.250 | 1039.46 | 1.0097 | 1.0568 | 1.0008 | 1110.240 | 29424.9 | 3.557039 |
| 17 11 | | | | | | | | | | | | | |
| 1500 | 6.80 | 320 | 47 | 50 | 122.63 | 2.250 | 1039.46 | 1.0097 | 1.0558 | 1.0009 | 1109.250 | 29398.6 | 3.603914 |
| 18 11 | | | | | | | | | | | | | |
| 1515 | 7.05 | 320 | 46 | 50 | 121.32 | 2.250 | 1039.46 | 1.0097 | 1.0558 | 1.0009 | 1109.227 | 29398.0 | 3.565296 |

446277

Sample Data



SURFACE SAMPLING DATA

OEC-877-1-B

446278

| | | | | | | | | | | | |
|--|--|---|--|----------------------------|--|--|--|-------------------------|---|--|--|
| TEST NUMBER DST #4 | | RATE NUMBER ONE | | AREA BASS STRAIT | | DATE (DAY MO YR.) 26 MAR 86 | | PAGE OF 1 2 | | | |
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | | | WELL NAME OR NUMBER PELICAN #5 | | | FIELD PELICAN | | | FORMATION SANDSTONE | | |
| ELEVATION (FEET) | | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER 14.73 PRESS. 60 TEMP. | | | | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING | | | INTERVAL TESTED (FEET) 3142-3163.5M | | |

SAMPLE # 1

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1345 | W3A-4882 | 1 GAL | EVACUATED | | GAS | SEPARATOR | 48 | 73 | 14.73 | 75 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|-------|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 260 | 64 | 16 | 48 | 73 | | | 988 | 271 | | | | | 0.83 | 1.0087 | 275.20 | | | |

SAMPLE # 2

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1400 | W3A-1754 | 1 GAL | EVACUATED | | GAS | SEPARATOR | 44 | 72 | 14.73 | 75 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|-------|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 265 | 64 | 16 | 44 | 72 | | | 986 | 271 | | | | | 0.83 | 1.0082 | 278.72 | | | |

SAMPLE # 3

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1415 | W3A-2452 | 1 GAL | EVACUATED | | GAS | SEPARATOR | 47 | 71 | 14.73 | 75 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|-------|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 268 | 65 | 16 | 47 | 71 | | | 999 | 271 | | | | | 0.83 | 1.0087 | 282.99 | | | |

- (a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
- (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
- (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY

JOSEPH PAKIAM



SURFACE SAMPLING DATA

OEC-877-1-B

446279

| | | | | |
|-----------------------|--------------------|---------------------|------------------------------|------------------|
| TEST NUMBER DST #4 | RATE NUMBER ONE | AREA BASS STRAIT | DATE (DAY MO YR.) 26MAR86 | PAGE OF 2 2 |
|-----------------------|--------------------|---------------------|------------------------------|------------------|

| | | | |
|---|---|---|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | FORMATION SANDSTONE |
| ELEVATION (FEET) | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING 14.73 PRESS. 60 TEMP. | INTERVAL TESTED (FEET) 3142-3163.5M |

SAMPLE # 4

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1430 | W3A-1299 | 1 GAL. | EVACUATED | | GAS | SEPARATOR | 44 | 70 | 14.73 | 75 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT STOCK TANK <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | WATER FLOW RATE (BPD) |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|--------------------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | | | |
| 265 | 64 | 16 | 44 | 70 | | | 1001 | 271 | | | | | 0.83 | 1.0083 | 285.22 | | |

SAMPLE # 5

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1445 | A-11022 | 20 LTR | EVACUATED | | GAS | SEPARATOR | 48 | 69 | 14.73 | 75 | 20 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT STOCK TANK <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | WATER FLOW RATE (BPD) |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|--------------------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | | | |
| 270 | 65 | 16 | 48 | 69 | | | 1003 | 271 | | | | | 0.83 | 1.0084 | 293.53 | | |

SAMPLE #

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| | | | | | | | | | | | |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT STOCK TANK <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | WATER FLOW RATE (BPD) |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|---|--|--------------------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | | | |
| | | | | | | | | | | | | | | | | | |

(a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
 (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
 (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY
JOSEPH PAKIAM



SURFACE SAMPLING DATA

OEC-877-1-B

446280

| | | | | |
|-----------------------|--------------------|---------------------|------------------------------|------------------|
| TEST NUMBER DST #4 | RATE NUMBER TWO | AREA BASS STRAIT | DATE (DAY MO YR.) 27MAR86 | PAGE OF 1 1 |
|-----------------------|--------------------|---------------------|------------------------------|------------------|

| | | | |
|---|---|--|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | FORMATION SANDSTONE |
| ELEVATION (FEET) | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING 14.73 PRESS. 60 TEMP. WELL FLOWING | INTERVAL TESTED (FEET) 3142-3163.5M |

SAMPLE # 1

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 0800 | T-99924 | 1 GAL | EVACUATED | | GAS | SEPARATOR | 30 | 64 | 14.73 | 58 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|-------------------------------------|---|---|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK | <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) |
| 35 | 60 | 128 | 30 | 64 | | | | | | | | | 0.83 | 1.0065 | <input checked="" type="checkbox"/> | 449.63 | | |

SAMPLE # 2

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 0810 | W3-1647 | 1 GAL | EVACUATED | | GAS | SEPARATOR | 30 | 64 | 14.73 | 58 | 10 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|-------------------------------------|---|---|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK | <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) |
| 35 | 60 | 128 | 30 | 64 | | | | | | | | | 0.83 | 1.0065 | <input checked="" type="checkbox"/> | 442.25 | | |

SAMPLE #

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| | | | | | | | | | | | |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE |
|------------------|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|---------------------------|------------|-----------------------|-----------------------|--------------------|-----------------|-------------------------------------|---|---|-----------------|
| PRESS. (psig) | TEMP. (°F) | SIZE (64th INCH) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | PRESS. (psig) | TEMP. (°F) | GRAVITY @ 60 °F (°API) | BSW (%) | C _f (c) | W _f (c) | GRAVITY (AIR=1) | F _{PV} | <input type="checkbox"/> STOCK TANK | <input type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> GOR <input type="checkbox"/> OGR <input type="checkbox"/> STOCK TANK <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) |
| | | | | | | | | | | | | | | | <input type="checkbox"/> | | | |

- (a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
- (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
- (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY

OTIS TEST CREW



SURFACE SAMPLING DATA

OEC-877-1-B

446281

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|-----------------------|--------------------|---------------------|--------------------------------|------------------|
| TEST NUMBER DST #6 | RATE NUMBER ONE | AREA BASS STRAIT | DATE (DAY MO YR.) 11 APR 86 | PAGE OF 1 3 |
|-----------------------|--------------------|---------------------|--------------------------------|------------------|

| | | | |
|---|---|---|--------------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | FORMATION SANDSTONE |
| ELEVATION (FEET) | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING 14.73 PRESS. 60 TEMP. | INTERVAL TESTED (FEET) 2786-2790M |

SAMPLE # 1

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1330 | SS-134 | 1 GAL | VACUUM | | GAS | SEPARATOR | 300 | 51 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | LO STAGE SEP. | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE | |
|-----------|-------|-------------|---------------|---------------|-------------|-------|--------|-------|-----------------|-----|----------------|----------------|---------|-----------------|----------------------------|-------------------------------------|-----------|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | STOCK TANK | SEP. COND. | GOR | OGR | WATER FLOW RATE |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (MCF/BBL) | (BBL/MMCF) | (BPD) |
| 1626 | 97 | 24 | 300 | 51 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0544 | 3.567 | | | | |

SAMPLE # 2

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1330 | SS-1069 | 1 GAL | VACUUM | | COND. | SEPARATOR | 300 | 51 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | LO STAGE SEP. | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE | |
|-----------|-------|-------------|---------------|---------------|-------------|-------|--------|-------|-----------------|-----|----------------|----------------|---------|-----------------|-------------------------------------|--------------------------|-----------|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | STOCK TANK | SEP. COND. | GOR | OGR | WATER FLOW RATE |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (MCF/BBL) | (BBL/MMCF) | (BPD) |
| 1626 | 97 | 24 | 300 | 51 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0544 | | | | | |

SAMPLE # 3

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1500 | SS-818 | 1 GAL | VACUUM | | GAS | SEPARATOR | 305 | 50 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | LO STAGE SEP. | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | SEPARATION | | WATER FLOW RATE | |
|-----------|-------|-------------|---------------|---------------|-------------|-------|--------|-------|-----------------|-----|----------------|----------------|---------|-----------------|-------------------------------------|--------------------------|-----------|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | STOCK TANK | SEP. COND. | GOR | OGR | WATER FLOW RATE |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (MCF/BBL) | (BBL/MMCF) | (BPD) |
| 1626 | 99 | 24 | 305 | 50 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0558 | 3.6039 | 8031.8 | | | 79 |

(a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
 (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
 (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY
JOSEPH PAKIAM



SURFACE SAMPLING DATA

OEC-877-1-B

446282

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|------------------------------|---------------------------|----------------------------|---------------------------------------|-------------------------|
| TEST NUMBER DST #6 | RATE NUMBER ONE | AREA BASS STRAIT | DATE (DAY MO YR.) 11 APR 86 | PAGE OF 2 3 |
|------------------------------|---------------------------|----------------------------|---------------------------------------|-------------------------|

| | | | |
|--|---|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | FORMATION SANDSTONE |
| ELEVATION (FEET) | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING 14.73 PRESS. 60 TEMP. | INTERVAL TESTED (FEET) 2786-2790M |

SAMPLE # 4

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-----------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1500 | SS-982 | 1 GAL | VACUUM | | COND. SEPARATOR | | 305 | 50 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input checked="" type="checkbox"/> GOR <input type="checkbox"/> OGR | WATER FLOW RATE | |
|-----------|-------|-------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|------------|------------|----------------------------|--|----------------------|-------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | SEP. COND. | STOCK TANK | SEP. COND. | (BPD) (MMCF/D) | (MCF/BBL) (BBL/MMCF) | (BPD) |
| 1626 | 99 | 24 | 305 | 50 | | | | | 57.4 | 15 | 1.0 | 20% | 0.82 | 1.0558 | 448.7 | | | 8031.8 | | 79 |

SAMPLE # 5

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|---------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1645 | SS-1007 | 1 GAL | VACUUM | | GAS SEPARATOR | | 320 | 52 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | WATER FLOW RATE | |
|-----------|-------|-------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|------------|------------|----------------------------|---|----------------------|-------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | SEP. COND. | STOCK TANK | SEP. COND. | (BPD) (MMCF/D) | (MCF/BBL) (BBL/MMCF) | (BPD) |
| 1610 | 100 | 24 | 320 | 52 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0579 | 3.4855 | | | 5696.1 | | 108 |

SAMPLE # 6

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal.) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|----------------------------------|------------------------------|---|-----------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1645 | SS-1822 | 1 GAL | VACUUM | | COND. SEPARATOR | | 320 | 52 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input checked="" type="checkbox"/> GOR <input type="checkbox"/> OGR | WATER FLOW RATE | |
|-----------|-------|-------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|------------|------------|----------------------------|--|----------------------|-------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | SEP. COND. | STOCK TANK | SEP. COND. | (BPD) (MMCF/D) | (MCF/BBL) (BBL/MMCF) | (BPD) |
| 1610 | 100 | 24 | 320 | 52 | | | | | 57.4 | 15 | 1.0 | 20% | 0.82 | 1.0579 | 611.9 | | | 5696.1 | | 108 |

- (a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
- (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
- (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY

JOSEPH PAKIAM



SURFACE SAMPLING DATA

OEC-877-1-B

446283

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|-----------------------|--------------------|---------------------|--------------------------------|------------------|
| TEST NUMBER DST #6 | RATE NUMBER ONE | AREA BASS STRAIT | DATE (DAY MO YR.) 11 APR 86 | PAGE OF 3 3 |
|-----------------------|--------------------|---------------------|--------------------------------|------------------|

| | | | |
|---|---|-----------------------|--|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | WELL NAME OR NUMBER PELICAN #5 | FIELD PELICAN | FORMATION SANDSTONE |
| ELEVATION (FEET) | STANDARD CONDITIONS <input type="checkbox"/> 14.73 psi 60°F <input type="checkbox"/> OTHER | 14.73 PRESS. 60 TEMP. | TIME WELL FLOWING OR SHUT IN BEFORE SAMPLING |
| | | | INTERVAL TESTED (FEET) 2786-2790M |

SAMPLE # 7

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1700 | SS-756 | 1 GAL | VACUUM | | GAS | SEPARATOR | 320 | 52 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|-----------|-------|-------------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|---------|-----------------|---|---|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | GRAVITY | F _{PV} | <input type="checkbox"/> STOCK TANK | <input type="checkbox"/> STOCK TANK | WATER FLOW RATE | |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | (AIR=1) | | <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 1625 | 100 | 24 | 320 | 52 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0579 | 3.4855 | | | 7767.9 | 79 | |

SAMPLE # 8

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1700 | SS-709 | 1 GAL | VACUUM | | COND. | SEPARATOR | 320 | 52 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|-----------|-------|-------------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|---------|-----------------|---|---|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | GRAVITY | F _{PV} | <input checked="" type="checkbox"/> STOCK TANK | <input type="checkbox"/> STOCK TANK | WATER FLOW RATE | |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | (AIR=1) | | <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 1625 | 100 | 24 | 320 | 52 | | | | | 57.4 | 15 | 1.0 | 20% | 0.82 | 1.0579 | 448.7 | | | 7767.9 | 79 | |

SAMPLE # 9

| TIME TAKEN | CONTAINER # | CONTAINER VOL. (cc) or (gal) | INITIALLY FILLED WITH (a) | VOL. OF FILL REMAINING WITH SAMPLE (b) | SAMPLE TYPE | SAMPLE TAKEN AT | SAMPLING PRESSURE (psig) | SAMPLING TEMP. (°F) | ATMOSPHERIC PRESS. (psi) | ATMOS. TEMP. (°F) | TIME TO TAKE SAMPLE (min.) |
|------------|-------------|---------------------------------|------------------------------|---|-------------|-----------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------------|
| 1715 | A-11011 | 20 LTR | VACUUM | | GAS | SEPARATOR | 315 | 52 | 14.73 | 60 | 15 |

FIELD READINGS AND FACTORS USED

| WELL HEAD | | CHOKE | HI STAGE SEP. | | LO STAGE SEP. | | BOTTOM HOLE | | | | OIL | | | | GAS | | TOTAL GAS/OIL FLOW RATE AT | <input type="checkbox"/> GOR <input type="checkbox"/> OGR | | WATER FLOW RATE |
|-----------|-------|-------------|---------------|-------|---------------|-------|-------------|-------|-----------------|-----|----------------|----------------|---------|-----------------|---------|-----------------|---|---|-----------------|-----------------|
| PRESS. | TEMP. | SIZE | PRESS. | TEMP. | PRESS. | TEMP. | PRESS. | TEMP. | GRAVITY @ 60 °F | BSW | C _f | W _f | GRAVITY | F _{PV} | GRAVITY | F _{PV} | <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | WATER FLOW RATE | |
| (psig) | (°F) | (64th INCH) | (psig) | (°F) | (psig) | (°F) | @ | @ | (°API) | (%) | (c) | (c) | (AIR=1) | | (AIR=1) | | <input checked="" type="checkbox"/> SEP. COND. (BPD) (MMCF/D) | <input type="checkbox"/> SEP. COND. (MCF/BBL) (BBL/MMCF) | (BPD) | |
| 1625 | 100 | 24 | 315 | 52 | | | | | 57.4 | 15 | | 20% | 0.82 | 1.0569 | 3.497 | | | 8573.1 | 72 | |

- (a) CONTAINER MAY BE INITIALLY FILLED WITH WATER OR MERCURY (Hg) OR BE EVACUATED (VACUUM).
- (b) VOLUME OF WATER OR MERCURY LEFT WITH WELL EFFLUENT SAMPLE.
- (c) C_f IS MEASURED CORRECTION FACTOR FOR CORRECTING OIL VOLUME FROM SEPARATOR TO STOCK TANK CONDITIONS. IT INCLUDES WEATHERING FACTOR, W_f, AND METER NONLINEARITY EFFECTS, M. C_f = M W_f.

SAMPLED BY

JOSEPH PAKIAM

446284

Field Readings
and Charts



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

| | | | | | |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 14MAR86 | PAGE 1 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|---|------------------------|--|--------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|------------------------|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|---|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 14 0950 | 0.00 | TEST STRING RAN IN THE HOLE | | | | | | | | | | | | | | | | | 1 |
| 2 | 14 0950 | 0.00 | TEST STRING AND SURFACE EQUIPMENT | | | | | | | | | | | | | | | | | 2 |
| 3 | 14 0950 | 0.00 | TESTED TO 8000 PSI - OKAY | | | | | | | | | | | | | | | | | 3 |
| 4 | 14 1300 | 3.16 | PERFORATING GUNS RAN IN HOLE | | | | | | | | | | | | | | | | | 4 |
| 5 | 14 1445 | 4.91 | 3672-3686 METRES PERFORATED USING | | | | | | | | | | | | | | | | | 5 |
| 6 | 14 1445 | 4.91 | 2-1/8" ENERJET GUNS. WELL OPENED TO FLARE | | | | | | | | | | | | | | | | | 6 |
| 7 | 14 1446 | 0.01 | NO POSITIVE INDICATION OF FLOW AT BUBBLE HOSE | | | | | | | | | | | | | | | | | 7 |
| 8 | 14 1448 | 0.04 | 0 | 66 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 14 1450 | 0.08 | 0 | 66 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 14 1456 | 0.18 | WELL SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | 10 |
| 11 | 14 1500 | 0.06 | 0 | 66 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 14 1515 | 0.31 | 0 | 66 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 14 1530 | 0.56 | 0 | 66 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 14 1600 | 1.06 | 0 | 66 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 14 1625 | 1.48 | PERFORATING GUNS AT SURFACE | | | | | | | | | | | | | | | | | 15 |
| 16 | 14 1630 | 1.56 | SUBSEA LUBRICATOR VALVE PUMPED CLOSE | | | | | | | | | | | | | | | | | 16 |
| 17 | 14 1630 | 1.56 | PERFORATING GUNS RIGGED DOWN | | | | | | | | | | | | | | | | | 17 |

Computer - Evans Toppan (Hous)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446286

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 14MAR86 | PAGE 2 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|---|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) (INS) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 14 | RIGGED UP PERFORATING GUNS | | | | | | | | | | | | | | | | | | 1 |
| 1755 | 2.98 | 0 | 66 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 14 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 2 |
| 1813 | 3.28 | 1 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 14 | GUNS RAN IN HOLE | | | | | | | | | | | | | | | | | | 3 |
| 1813 | 3.28 | 1 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 14 | | | | | | | | | | | | | | | | | | | 4 |
| 1840 | 3.73 | 2 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 14 | | | | | | | | | | | | | | | | | | | 5 |
| 1845 | 3.81 | 3 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 14 | | | | | | | | | | | | | | | | | | | 6 |
| 1900 | 4.06 | 7 | 65 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 14 | | | | | | | | | | | | | | | | | | | 7 |
| 1915 | 4.31 | 18 | 65 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 14 | | | | | | | | | | | | | | | | | | | 8 |
| 1930 | 4.56 | 35 | 65 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 14 | | | | | | | | | | | | | | | | | | | 9 |
| 1945 | 4.81 | 68 | 64 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 14 | | | | | | | | | | | | | | | | | | | 10 |
| 2000 | 5.06 | 70 | 64 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 14 | PERFORATING GUNS UNABLE TO PASS 3258 METRES | | | | | | | | | | | | | | | | | | 11 |
| 2005 | 5.14 | 65 | 64 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 14 | STARTED PULLING OUT OF HOLE | | | | | | | | | | | | | | | | | | 12 |
| 2005 | 5.14 | 65 | 64 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 14 | | | | | | | | | | | | | | | | | | | 13 |
| 2015 | 5.31 | 55 | 64 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 14 | | | | | | | | | | | | | | | | | | | 14 |
| 2030 | 5.56 | 32 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 14 | | | | | | | | | | | | | | | | | | | 15 |
| 2100 | 6.06 | 15 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 14 | PERFORATING GUNS AT SURFACE | | | | | | | | | | | | | | | | | | 16 |
| 2122 | 6.43 | 13 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 14 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 17 |
| 2125 | 6.48 | 13 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Farnas Toppan (Harris)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446287

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| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 14MAR86 | PAGE 3 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

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|---|--|--|--------------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------------|---|---|

| DAY | TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|-----|------|---|----------------------|------------|----------------------|---------------|----------|----------------------|------------------------|--------------------|----------------------|------------------------------------|------------|--|--|----------------------------|-------------------------|------------------------|---|----------------|----|
| | | FLOW OR SHUT-IN DURATION (HOURS) | TUBING PRESS. (PSIG) | TEMP. (°F) | CASING PRESS. (PSIG) | BHP (PSIG) | BHT (°F) | MAN. CHOKE (64TH IN) | HEATER CHOKE (64TH IN) | ORIFICE SIZE (INS) | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN H ₂ O) | TEMP. (°F) | GAS GRAVITY (AIR=1) % H ₂ S | # 1 TANK OR METER READING (INS OR BBL) | # 1 OIL TEMP (°F) | OIL GRAVITY @ 60°F °API | W _i BSW (%) | # 1 TANK OR METER READING (INS. OR BBL) | SALINITY (%) | |
| 1 | 14 | BLED DOWN SURFACE PRESSURE | | | | | | | | | | | | | | | | | | | 1 |
| | 2130 | 6.56 | 0 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 14 | SCHLUMBERGER LUBRICATOR RIGGED DOWN | | | | | | | | | | | | | | | | | | | 2 |
| | 2225 | 7.48 | 0 | 63 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 14 | OTIS LUBRICATOR RIGGED UP AND PRESSURE TESTED | | | | | | | | | | | | | | | | | | | 3 |
| | 2315 | 8.31 | 0 | 62 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 14 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | | 4 |
| | 2350 | 8.89 | 0 | 60 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 14 | WIRELINE GAUGE CUTTER RAN IN HOLE | | | | | | | | | | | | | | | | | | | 5 |
| | 2350 | 8.89 | 0 | 60 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 15 | OTIS WIRELINE BACK AT SURFACE | | | | | | | | | | | | | | | | | | | 6 |
| | 0145 | 10.81 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 15 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | | 7 |
| | 0145 | 10.81 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 15 | RIGGED DOWN LUBRICATOR | | | | | | | | | | | | | | | | | | | 8 |
| | 0145 | 10.81 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 15 | SCHLUMBERGER LUBRICATOR RIGGED UP AND | | | | | | | | | | | | | | | | | | | 9 |
| | 0305 | 12.14 | 0 | 58 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 15 | PRESSURE TESTED | | | | | | | | | | | | | | | | | | | 10 |
| | 0305 | 12.14 | 0 | 58 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 15 | PERFORATING GUNS PICKED UP INTO LUBRICATOR | | | | | | | | | | | | | | | | | | | 11 |
| | 0500 | 14.06 | 0 | 58 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 15 | SUBSEA LUBRICATOR VALVE PUMPED OPEN | | | | | | | | | | | | | | | | | | | 12 |
| | 0525 | 14.48 | 0 | 58 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 15 | PERFORATING GUNS RAN IN THE HOLE | | | | | | | | | | | | | | | | | | | 13 |
| | 0525 | 14.48 | 0 | 58 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 15 | | | | | | | | | | | | | | | | | | | | 14 |
| | 0605 | 15.14 | 45 | 57 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 15 | | | | | | | | | | | | | | | | | | | | 15 |
| | 0615 | 15.31 | 150 | 57 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 15 | | | | | | | | | | | | | | | | | | | | 16 |
| | 0630 | 15.56 | 450 | 57 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 15 | | | | | | | | | | | | | | | | | | | | 17 |
| | 0645 | 15.81 | 680 | 57 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Furns Toppan Data



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446288

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 15MAR86 | PAGE 4 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|---|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|--------------------------|--|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _f | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) |
| 1 | 15 | | | | | | | | | | | | | | | | | | |
| | 0715 | 16.31 | 700 | 57 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 2 | 15 | PERFORATING GUNS AT DEPTH AND CORRELATED | | | | | | | | | | | | | | | | | |
| | 0730 | 16.56 | 480 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 3 | 15 | | | | | | | | | | | | | | | | | | |
| | 0733 | 16.61 | 430 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 4 | 15 | PRESSURE BLED OFF TEST STRING | | | | | | | | | | | | | | | | | |
| | 0734 | 16.63 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 5 | 15 | 3686-3699 METRES ZONE PERFORATED USING | | | | | | | | | | | | | | | | | |
| | 0735 | 16.64 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 6 | 15 | 2-1/8" ENERJET GUNS | | | | | | | | | | | | | | | | | |
| | 0735 | 16.64 | 0 | 60 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 7 | 15 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | |
| | 0735 | 16.64 | 0 | 60 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 8 | 15 | NO INDICATION OF FLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0736 | 0.01 | 0 | 60 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 9 | 15 | | | | | | | | | | | | | | | | | | |
| | 0740 | 0.08 | 0 | 60 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 10 | 15 | WELL SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | |
| | 0745 | 0.16 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 11 | 15 | | | | | | | | | | | | | | | | | | |
| | 0750 | 0.08 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 12 | 15 | PERFORATING GUNS STARTED PULLING OUT OF THE HOLE | | | | | | | | | | | | | | | | | |
| | 0755 | 0.16 | 6 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 13 | 15 | | | | | | | | | | | | | | | | | | |
| | 0800 | 0.24 | 7 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 14 | 15 | | | | | | | | | | | | | | | | | | |
| | 0815 | 0.49 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 15 | 15 | | | | | | | | | | | | | | | | | | |
| | 0830 | 0.74 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 16 | 15 | | | | | | | | | | | | | | | | | | |
| | 0845 | 0.99 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 17 | 15 | | | | | | | | | | | | | | | | | | |
| | 0900 | 1.24 | 0 | 60 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | |

Computer - Form 7 (Revised 1/80)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 15MAR86 | PAGE 5 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|---|--|--|--------------------------------------|---|---|
| INTERNAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------------|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|---------------|--------------------------|---------------|--------|---------------|------|--------------|------------|--------------|--------------|-----------------------|--------------|--------------------|--|---------------------------|--------------|-------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 15 | | | | | | | | | | | | | | | | | | | | |
| 0930 | 1.74 | 0 | 60 | 1900 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 15 | | | | | | | | | | | | | | | | | | | | |
| 0935 | 1.83 | 0 | 60 | 1900 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 15 | | | | | | | | | | | | | | | | | | | | |
| 0940 | 1.91 | 0 | 60 | 1900 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 15 | | | | | | | | | | | | | | | | | | | | |
| 1100 | 3.24 | 0 | 60 | 1900 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 15 | | | | | | | | | | | | | | | | | | | | |
| 1110 | 3.41 | 0 | 60 | 1900 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 15 | | | | | | | | | | | | | | | | | | | | |
| 1140 | 3.91 | 0 | 62 | 1880 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 7 15 | | | | | | | | | | | | | | | | | | | | |
| 1140 | 3.91 | 0 | 62 | 1880 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 8 15 | | | | | | | | | | | | | | | | | | | | |
| 1200 | 4.24 | 0 | 63 | 1880 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 9 15 | | | | | | | | | | | | | | | | | | | | |
| 1210 | 4.41 | 0 | 63 | 1870 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 10 15 | | | | | | | | | | | | | | | | | | | | |
| 1230 | 0.33 | 0 | 63 | 1860 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 11 15 | | | | | | | | | | | | | | | | | | | | |
| 1300 | 0.83 | 0 | 63 | 1860 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 12 15 | | | | | | | | | | | | | | | | | | | | |
| 1330 | 1.33 | 0 | 63 | 1860 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 13 15 | | | | | | | | | | | | | | | | | | | | |
| 1400 | 1.83 | 0 | 64 | 1840 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 14 15 | | | | | | | | | | | | | | | | | | | | |
| 1430 | 2.33 | 0 | 64 | 1840 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 15 15 | | | | | | | | | | | | | | | | | | | | |
| 1500 | 2.83 | 0 | 64 | 1840 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 16 15 | | | | | | | | | | | | | | | | | | | | |
| 1530 | 3.33 | 0 | 64 | 1820 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 17 15 | | | | | | | | | | | | | | | | | | | | |
| 1600 | 3.83 | 0 | 64 | 1820 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |

446290


 FIELD READINGS
 SINGLE STAGE UNIT
 OEC - 905-1-A

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|----------|---------------------|--------------------------|--------------------|------|----|
| TEST NO. | WELL NAME OR NUMBER | TEST UNIT DESCRIPTION | DATE (DAY, MO, YR) | PAGE | OF |
| DST#1 | PELICAN #5 | 1440PSI 3PHASE SEPARATOR | 15MAR86 | 6 | 10 |

| | | | | |
|-------------------------------|---------|-----------|----------------|-------------------|
| CUSTOMER | FIELD | FORMATION | OIL METER SIZE | METER RANGE (BBL) |
| AMOCO AUSTRALIA PETROLEUM.CO. | PELICAN | SANDSTONE | 0 | --- |

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|-----------------|------------------------|---|--------------------|-------------------------------------|--|
| INTERVAL TESTED | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO | GAS METER RUN SIZE | DIFF. RANGE (INS. H ₂ O) | STATIC PRESSURE TAKEN |
| 3672-3699 MTR | (FT.) | <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | 0 (INS) | 0-100 | <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|-----|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (F) | (PSIG) | (PSIG) | (F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 15 | | | | | | | | | | | | | | | | | | | |
| | 1630 | 4.33 | 0 | 64 | 1810 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 2 | 15 | | | | | | | | | | | | | | | | | | | |
| | 1700 | 4.83 | 0 | 62 | 1810 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 3 | 15 | | | | | | | | | | | | | | | | | | | |
| | 1730 | 5.33 | 0 | 61 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 4 | 15 | ELECTRIC LINE GRC GAUGE AT SURFACE | | | | | | | | | | | | | | | | | | |
| | 1735 | 5.41 | 0 | 61 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 5 | 15 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | |
| | 1742 | 5.53 | 0 | 61 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 15 | RIGGED DOWN ELECTRIC LINE | | | | | | | | | | | | | | | | | | |
| | 1745 | 0.05 | 0 | 61 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 15 | BLED DOWN ANNULUS PRESSURE | | | | | | | | | | | | | | | | | | |
| | 1820 | 0.63 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 15 | PRESSURE TESTED / REPAIRED VALVE ON | | | | | | | | | | | | | | | | | | |
| | 1830 | 0.79 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 15 | CHOKE MANIFOLD TO 8000 PSI | | | | | | | | | | | | | | | | | | |
| | 1830 | 0.79 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 15 | PICKED UP WEIGHT OF TEST STRING TO OPEN | | | | | | | | | | | | | | | | | | |
| | 1845 | 1.04 | | | | | | | | | | | | | | | | | | |
| 11 | 15 | HYDRAULIC CIRCULATING VALVE | | | | | | | | | | | | | | | | | | |
| | 1845 | 1.04 | | | | | | | | | | | | | | | | | | |
| 12 | 15 | UNSEATED PACKER | | | | | | | | | | | | | | | | | | |
| | 1900 | 1.29 | | | | | | | | | | | | | | | | | | |
| 13 | 15 | RESEATED PACKER | | | | | | | | | | | | | | | | | | |
| | 2105 | 3.38 | | | | | | | | | | | | | | | | | | |
| 14 | 15 | ANNULUS PRESSURIZED TO OPEN LPR TEST TOOL | | | | | | | | | | | | | | | | | | |
| | 2120 | 3.63 | 0 | 58 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 15 | BLED OFF ANNULUS PRESSURE TO DISPLACE | | | | | | | | | | | | | | | | | | |
| | 2130 | 3.79 | 0 | 58 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 15 | TUBING WITH 81 BBL OF DRILL WATER | | | | | | | | | | | | | | | | | | |
| | 2130 | 3.79 | 0 | 58 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 15 | ANNULUS PRESSURIZED TO OPEN LPR TEST TOOL | | | | | | | | | | | | | | | | | | |
| | 2220 | 4.63 | 0 | 58 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446291

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 15MAR86 | PAGE 7 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
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|---|--|--|--------------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 15 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 1 |
| 2227 | 4.74 | 600 | 58 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 15 | | | | | | | | | | | | | | | | | | | 2 |
| 2229 | 0.03 | 30 | 58 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 15 | | | | | | | | | | | | | | | | | | | 3 |
| 2230 | 0.04 | 15 | 59 | 1880 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 15 | | | | | | | | | | | | | | | | | | | 4 |
| 2231 | 0.06 | 10 | 60 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 15 | | | | | | | | | | | | | | | | | | | 5 |
| 2232 | 0.08 | 8 | 60 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 15 | | | | | | | | | | | | | | | | | | | 6 |
| 2233 | 0.09 | 4 | 63 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 15 | | | | | | | | | | | | | | | | | | | 7 |
| 2238 | 0.18 | 0 | 63 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 15 | | | | | | | | | | | | | | | | | | | 8 |
| 2245 | 0.29 | 0 | 62 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 15 | | | | | | | | | | | | | | | | | | | 9 |
| 2250 | 0.38 | 0 | 61 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 15 | | | | | | | | | | | | | | | | | | | 10 |
| 2300 | 0.54 | 0 | 60 | 1870 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 15 | | | | | | | | | | | | | | | | | | | 11 |
| 2315 | 0.79 | 0 | 60 | 1880 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 15 | | | | | | | | | | | | | | | | | | | 12 |
| 2330 | 1.04 | 0 | 59 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 15 | | | | | | | | | | | | | | | | | | | 13 |
| 2345 | 1.29 | 0 | 59 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 15 | STARTED TO RIG UP OTIS LUBRICATOR TO | | | | | | | | | | | | | | | | | | 14 |
| 2350 | 1.38 | 0 | 59 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 15 | RUN GAUGE RING | | | | | | | | | | | | | | | | | | 15 |
| 2350 | 1.38 | 0 | 59 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 16 | WELL SHUT-IN AT CHOKE MANIFOLD FOR PRESSURE TEST | | | | | | | | | | | | | | | | | | 16 |
| 0007 | 1.66 | 0 | 59 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 16 | LUBRICATOR PRESSURE TESTED TO 5000 PSI - OKAY | | | | | | | | | | | | | | | | | | 17 |
| 0042 | 0.58 | 0 | 59 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer-Forens Toppan (Honey)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446292

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| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 16MAR86 | PAGE 8 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|--------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) - |
|--|-------------------------|-------------------------------|----------------------------|--------------------------------|

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|---|--|--|--------------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _f | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | GAUGE CUTTER STARTED IN THE HOLE | | | | | | | | | | | | | | | | | | |
| 0044 | 0.61 | 0 | 59 | 1930 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | |
| 0045 | 0.63 | 0 | 59 | 1930 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 16 | | | | | | | | | | | | | | | | | | | |
| 0100 | 0.25 | 0 | 58 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 16 | | | | | | | | | | | | | | | | | | | |
| 0115 | 0.50 | 0 | 58 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 16 | GAUGE CUTTER HUNG UP AT 3680 METRES | | | | | | | | | | | | | | | | | | |
| 0125 | 0.66 | 0 | 58 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 16 | | | | | | | | | | | | | | | | | | | |
| 0130 | 0.74 | 0 | 58 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 16 | GAUGE CUTTER FREED | | | | | | | | | | | | | | | | | | |
| 0145 | 0.99 | 0 | 58 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 16 | GAUGE CUTTER HUNG UP @ 3530MTRS (BUNDLE CARRIER) | | | | | | | | | | | | | | | | | | |
| 0200 | 1.24 | 0 | 57 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 16 | | | | | | | | | | | | | | | | | | | |
| 0215 | 1.49 | 0 | 57 | 1970 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 16 | | | | | | | | | | | | | | | | | | | |
| 0230 | 1.74 | 0 | 57 | 1975 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 16 | | | | | | | | | | | | | | | | | | | |
| 0245 | 1.99 | 0 | 57 | 1975 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 16 | BLED DOWN ANNULUS PRESSURE TO CLOSE LPR-N | | | | | | | | | | | | | | | | | | |
| 0250 | 2.08 | 0 | 57 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 16 | WELL SHUT-IN | | | | | | | | | | | | | | | | | | |
| 0250 | 2.08 | 0 | 57 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 16 | PRESSURED UP ANNULUS. LPR-N DID NOT CUT WIRELINE | | | | | | | | | | | | | | | | | | |
| 0255 | 0.08 | 0 | 57 | 2000 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 16 | STRAIN TOOK ON WIRELINE IN ATTEMPT TO BREAK IT | | | | | | | | | | | | | | | | | | |
| 0300 | 0.16 | 0 | 57 | 2000 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 16 | BLED DOWN ANNULUS TO CLOSE LPR-N | | | | | | | | | | | | | | | | | | |
| 0304 | 0.23 | 0 | 57 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 16 | DID NOT CUT WIRE | | | | | | | | | | | | | | | | | | |
| 0304 | 0.23 | 0 | 57 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446293

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| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 16MAR86 | PAGE 9 | OF 10 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) -- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|---|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | PRESSURED UP ANNULUS TO OPEN LPR-N | | | | | | | | | | | | | | | | | | 1 |
| 0312 | 0.36 | 0 | 57 | 2300 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 16 | BLED DOWN ANNULUS TO CLOSE LPR-N | | | | | | | | | | | | | | | | | | 2 |
| 0315 | 0.41 | 0 | 57 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 16 | PRESSURED UP ANNULUS TO OPEN LPR-N | | | | | | | | | | | | | | | | | | 3 |
| 0320 | 0.49 | 0 | 57 | 2300 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 16 | BLED DOWN ANNULUS TO CLOSE LPR-N | | | | | | | | | | | | | | | | | | 4 |
| 0330 | 0.66 | 0 | 57 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 16 | WIREFLINE SEVERED STARTED PULLING OUT OF HOLE | | | | | | | | | | | | | | | | | | 5 |
| 0335 | 0.74 | 0 | 57 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 16 | PRESSURED UP ANNULUS TO OPEN LPR-N | | | | | | | | | | | | | | | | | | 6 |
| 0340 | 0.83 | 0 | 57 | 1920 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 7 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 7 |
| 0340 | 0.83 | 0 | 57 | 1920 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 8 | 16 | WIREFLINE OUT OF THE HOLE | | | | | | | | | | | | | | | | | | 8 |
| 0355 | 0.25 | 0 | 58 | 1880 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 9 | 16 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 9 |
| 0400 | 0.33 | 0 | 58 | 1880 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 16 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 10 |
| 0505 | 1.08 | 0 | 58 | 1880 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 11 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 11 |
| 0505 | 1.08 | 0 | 58 | 1880 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 12 | 16 | BLIND BOX AND JARS RAN IN HOLE | | | | | | | | | | | | | | | | | | 12 |
| 0505 | 1.08 | 0 | 58 | 1880 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 13 | 16 | | | | | | | | | | | | | | | | | | | 13 |
| 0515 | 0.16 | 0 | 58 | 1900 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 14 | 16 | | | | | | | | | | | | | | | | | | | 14 |
| 0530 | 0.41 | 0 | 58 | 1900 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 15 | 16 | STUCKED GAUGE CUTTER AND JARS KNOCKED OUT OF | | | | | | | | | | | | | | | | | | 15 |
| 0545 | 0.66 | 0 | 58 | 1900 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 16 | 16 | TEST STRING | | | | | | | | | | | | | | | | | | 16 |
| 0545 | 0.66 | 0 | 58 | 1900 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 17 | 16 | | | | | | | | | | | | | | | | | | | 17 |
| 0600 | 0.91 | 0 | 58 | 1900 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |

Computer Form Toppan House



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446294

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| TEST NO. DST#1 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 16MAR86 | PAGE 10 | OF 10 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|---|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3672-3699 MTR | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | | | | | | | | | | | | | | | | | | | |
| 0615 | 1.16 | 0 | 58 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 16 | WIRELINER TOOLS IN LUBRICATOR | | | | | | | | | | | | | | | | | | |
| 0630 | 1.41 | 0 | 58 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 16 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | |
| 0633 | 1.46 | 0 | 58 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 16 | RIGGED DOWN LUBRICATOR | | | | | | | | | | | | | | | | | | |
| 0633 | 1.46 | 0 | 58 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 16 | STARTED RIGGING UP PERFORATING GUNS FOR DST #2 | | | | | | | | | | | | | | | | | | |
| 0650 | 0.28 | 0 | 58 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 16 | PRESSURE TESTED LUBRICATOR TO 8000 PSI | | | | | | | | | | | | | | | | | | |
| 0745 | 1.19 | 0 | 58 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 16 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | |
| 0920 | 2.78 | 0 | 60 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 16 | PERFORATING GUNS RAN IN HOLE | | | | | | | | | | | | | | | | | | |
| 0920 | 2.78 | 0 | 60 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | |
| 0920 | 2.78 | 0 | 60 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 16 | WELL SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | |
| 1025 | 3.86 | 0 | 63 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 16 | | | | | | | | | | | | | | | | | | | |
| 1055 | 4.36 | 0 | 63 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 16 | ZONE PERFORATED FOR DST #2 ENDING DST #1 | | | | | | | | | | | | | | | | | | |
| 1057 | 4.39 | 0 | 64 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | |

Computer Form Tappan Phone



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446295

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| TEST NO. DST#2 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 16MAR86 | PAGE 1 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3607-3619M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) (INS) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | WITH THE TEST STRING DISPLACED WITH | | | | | | | | | | | | | | | | | | 1 |
| 1057 | 0.00 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 16 | 81 BBLs OF WATER. THE ZONE WAS PERFORATED USING | | | | | | | | | | | | | | | | | | 2 |
| 1057 | 0.00 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 16 | 2-1/8" ENERJET GUNS. THE WELL WAS IMMEDIATELY | | | | | | | | | | | | | | | | | | 3 |
| 1057 | 0.00 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 16 | OPENED TO THE FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 4 |
| 1057 | 0.00 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 16 | | | | | | | | | | | | | | | | | | | |
| 1058 | 0.01 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 16 | | | | | | | | | | | | | | | | | | | |
| 1059 | 0.03 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 16 | | | | | | | | | | | | | | | | | | | |
| 1100 | 0.04 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 16 | | | | | | | | | | | | | | | | | | | |
| 1101 | 0.06 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 16 | | | | | | | | | | | | | | | | | | | |
| 1102 | 0.08 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 16 | | | | | | | | | | | | | | | | | | | |
| 1103 | 0.09 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 16 | | | | | | | | | | | | | | | | | | | |
| 1105 | 0.13 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 16 | WELL SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 12 |
| 1107 | 0.16 | 0 | 64 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 16 | | | | | | | | | | | | | | | | | | | |
| 1108 | 0.01 | 0 | 64 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 16 | | | | | | | | | | | | | | | | | | | |
| 1109 | 0.03 | 0 | 64 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 16 | | | | | | | | | | | | | | | | | | | |
| 1110 | 0.04 | 0 | 63 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 16 | SCHLUMBERGER STARTED PULLING PERFORATING GUNS | | | | | | | | | | | | | | | | | | 16 |
| 1115 | 0.13 | 4 | 63 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 16 | OUT OF HOLE | | | | | | | | | | | | | | | | | | 17 |
| 1115 | 0.13 | 4 | 63 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Form - Toppan - Dura



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446296

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| TEST NO. DST#2 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 16MAR86 | PAGE 2 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|--|--|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
| INTERVAL TESTED 3607-3619M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- |
| | | | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM | |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | PRESSURE INCREASED DUE TO SWABBING EFFECT | | | | | | | | | | | | | | | | | | 1 |
| | 1120 | 0.21 | 6 | 63 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 16 | | | | | | | | | | | | | | | | | | | 2 |
| | 1125 | 0.29 | 6 | 63 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 16 | | | | | | | | | | | | | | | | | | | 3 |
| | 1130 | 0.38 | 7 | 63 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 16 | | | | | | | | | | | | | | | | | | | 4 |
| | 1145 | 0.63 | 6 | 63 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 16 | | | | | | | | | | | | | | | | | | | 5 |
| | 1200 | 0.88 | 3 | 62 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 16 | | | | | | | | | | | | | | | | | | | 6 |
| | 1215 | 1.13 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 16 | PERFORATING GUNS AT SURFACE | | | | | | | | | | | | | | | | | | 7 |
| | 1225 | 1.29 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 16 | PUMPED CLOSE SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 8 |
| | 1227 | 1.33 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 16 | STARTED RIGGING DOWN SPENT PERFORATING GUNS | | | | | | | | | | | | | | | | | | 9 |
| | 1230 | 1.38 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 16 | RIGGED UP OTIS LUBRICATOR AND | | | | | | | | | | | | | | | | | | 10 |
| | 1425 | 3.29 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 16 | PRESSURE TESTED TO 5000 PSI - OKAY | | | | | | | | | | | | | | | | | | 11 |
| | 1425 | 3.29 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 16 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 12 |
| | 1440 | 3.54 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 16 | WIRELINE RAN IN HOLE | | | | | | | | | | | | | | | | | | 13 |
| | 1440 | 3.54 | 0 | 62 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 16 | | | | | | | | | | | | | | | | | | | 14 |
| | 1445 | 3.63 | 0 | 64 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 16 | THP INCREASED DUE TO SWABBING EFFECT OF W/L TOOL | | | | | | | | | | | | | | | | | | 15 |
| | 1500 | 3.88 | 10 | 64 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 16 | WIRELINE GAUGE CUTTER UNABLE TO PASS 3616 METRES | | | | | | | | | | | | | | | | | | 16 |
| | 1515 | 4.13 | 30 | 65 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 16 | GAUGE CUTTER UNABLE TO PASS 3540 METRES | | | | | | | | | | | | | | | | | | 17 |
| | 1530 | 4.38 | 40 | 62 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer - Furnis Toppan Thorne



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446297

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| TEST NO. DST#2 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 16MAR86 | PAGE 3 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3607-3619M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 16 | WIREFLINE BEING JARRED AT 3540 METRES | | | | | | | | | | | | | | | | | | 1 |
| | 1545 | 4.63 | 50 | 62 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1600 | 4.88 | 80 | 62 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1615 | 5.13 | 120 | 62 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1630 | 5.38 | 170 | 61 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1645 | 5.63 | 220 | 61 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1700 | 5.88 | 300 | 60 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1715 | 6.13 | 400 | 60 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 8 |
| | 1723 | 6.26 | 460 | 60 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1724 | 0.01 | 50 | 60 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1725 | 0.03 | 0 | 60 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 11 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1730 | 0.11 | 0 | 61 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1735 | 0.19 | 0 | 62 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1740 | 0.28 | 0 | 62 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 16 | | | | | | | | | | | | | | | | | | | |
| | 1800 | 0.61 | 0 | 60 | 1950 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 16 | INCREASED PRESSURE ON ANNULUS | | | | | | | | | | | | | | | | | | 15 |
| | 1810 | 0.78 | 0 | 60 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 16 | 700 LBS STRAIN TAKEN ON WIREFLINE | | | | | | | | | | | | | | | | | | 16 |
| | 1810 | 0.78 | 0 | 60 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 | 16 | BLED OFF ANNULUS PRESSURE IN ATTEMPT TO HAVE | | | | | | | | | | | | | | | | | | 17 |
| | 1825 | 0.25 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer - Form Topgan (Rev)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 16MAR86 | PAGE 4 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|--|--|--------------------------------|---|---|
| INTERVAL TESTED 3607-3619M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) (INS) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 | 16 | LPR-N VALVE CUT WIRELINE | | | | | | | | | | | | | | | | | | | 1 |
| 1825 | 0.25 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 2 | 16 | REPRESSURIZED ANNULUS | | | | | | | | | | | | | | | | | | | 2 |
| 1845 | 0.58 | 0 | 60 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 3 | 16 | INCREASED ANNULUS PRESSURE | | | | | | | | | | | | | | | | | | | 3 |
| 1848 | 0.63 | 0 | 60 | 2420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 4 | 16 | ANNULUS PRESSURE BLED DOWN TO CLOSE | | | | | | | | | | | | | | | | | | | 4 |
| 1900 | 0.83 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 5 | 16 | LPR VALVE ON WIRELINE - UNSUCCESSFUL | | | | | | | | | | | | | | | | | | | 5 |
| 1900 | 0.83 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 6 | 16 | REPRESSURIZED ANNULUS PRESSURE | | | | | | | | | | | | | | | | | | | 6 |
| 1920 | 1.16 | 0 | 60 | 2800 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 7 | 16 | BLED OFF ANNULUS PRESSURE. WIRELINE SEVERED | | | | | | | | | | | | | | | | | | | 7 |
| 1937 | 1.44 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 8 | 16 | STARTED PULLING WIRE OUT OF HOLE | | | | | | | | | | | | | | | | | | | 8 |
| 1937 | 1.44 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 9 | 16 | WIRELINE OUT OF HOLE | | | | | | | | | | | | | | | | | | | 9 |
| 1950 | 1.66 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 10 | 16 | STARTED RIGGING DOWN LUBRICATOR | | | | | | | | | | | | | | | | | | | 10 |
| 1950 | 1.66 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 11 | 16 | PRESS. UP ON ANNULUS TO 3400PSI TO SHEAR LPR-M2 | | | | | | | | | | | | | | | | | | | 11 |
| 2100 | 2.83 | 0 | 60 | 3400 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 12 | 16 | BLED OFF ANNULUS PRESSURE. LPR-M2 NOT SHEARED | | | | | | | | | | | | | | | | | | | 12 |
| 2105 | 2.91 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 13 | 16 | PRESS. UP ON ANNULUS TO 3480PSI TO SHEAR LPR-M2 | | | | | | | | | | | | | | | | | | | 13 |
| 2115 | 3.08 | 0 | 60 | 3480 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 14 | 16 | BLED PRESSURE OFF ANNULUS. LPR-M2 NOT SHEARED | | | | | | | | | | | | | | | | | | | 14 |
| 2117 | 3.11 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 15 | 16 | PRESS. UP ON ANNULUS TO 3300PSI TO SHEAR LPR-M2 | | | | | | | | | | | | | | | | | | | 15 |
| 2122 | 3.19 | 0 | 60 | 3300 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 16 | 16 | BLED OFF ANNULUS PRESSURE. LPR-M2 NOT SHEARED | | | | | | | | | | | | | | | | | | | 16 |
| 2124 | 3.23 | 0 | 60 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 17 | 16 | PRESS. UP ON ANNULUS TO 3500PSI TO SHEAR LPR-M2 | | | | | | | | | | | | | | | | | | | 17 |
| 2202 | 3.86 | 0 | 60 | 3500 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446299

| | | | | | |
|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 16MAR86 | PAGE 5 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|

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|--------------------------------------|------------------------|--|--------------------------------------|---|---|
| INTERVAL TESTED 3607-3619M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) -- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--------------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|---|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 | 16 | BLED OFF ANNULUS PRESSURE. LPR-M2 NOT SHEARED | | | | | | | | | | 1 | | | | | | | | 1 | |
| 2206 | 3.93 | 0 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 16 | PICKED UP TEST STRING & OPENED CIRCULATING VALVE | | | | | | | | | | 2 | | | | | | | | | 2 |
| 2206 | 3.93 | 0 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 16 | REVERSED OUT WATER CUSHION ENDING DST #2 | | | | | | | | | | 3 | | | | | | | | | 3 |
| 2206 | 3.93 | 0 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | 4 | |
| 6 | | | | | | | | | | | | | | | | | | | | 6 | |
| 6 | | | | | | | | | | | | | | | | | | | | 6 | |
| 7 | | | | | | | | | | | | | | | | | | | | 7 | |
| 8 | | | | | | | | | | | | | | | | | | | | 8 | |
| 9 | | | | | | | | | | | | | | | | | | | | 9 | |
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| 11 | | | | | | | | | | | | | | | | | | | | 11 | |
| 12 | | | | | | | | | | | | | | | | | | | | 12 | |
| 13 | | | | | | | | | | | | | | | | | | | | 13 | |
| 14 | | | | | | | | | | | | | | | | | | | | 14 | |
| 15 | | | | | | | | | | | | | | | | | | | | 15 | |
| 16 | | | | | | | | | | | | | | | | | | | | 16 | |
| 17 | | | | | | | | | | | | | | | | | | | | 17 | |

Computer Form Tappan Thoro



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 20MAR86 | PAGE 1 | OF 4 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|--|--|--|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- | |
| INTERVAL TESTED 3612-3618M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 20 | THE TEST ZONE WAS PERFORATED USING 3-5/8" | | | | | | | | | | | | | | | | | | 1 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 2 | 20 | CASING GUNS & SPF AT 60 DEGREE PHASING | | | | | | | | | | | | | | | | | | 2 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 3 | 20 | THE TEST STRING WAS RUN IN THE HOLE | | | | | | | | | | | | | | | | | | 3 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 4 | 20 | PRESSURE TESTED TO 5000 PSI AND DISPLACED WITH | | | | | | | | | | | | | | | | | | 4 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 5 | 20 | 77 BBLs OF DRILL WATER | | | | | | | | | | | | | | | | | | 5 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 6 | 20 | TEST STRING LANDED IN WEAR BUSHING | | | | | | | | | | | | | | | | | | 6 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 7 | 20 | PIPE RAMS CLOSED | | | | | | | | | | | | | | | | | | 7 |
| 0848 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 8 | 20 | STARTED PRESSURING UP ON ANNULUS TO OPEN LPR-N | | | | | | | | | | | | | | | | | | 8 |
| 0857 | 0.15 | 0 | 67 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 20 | AN IMMEDIATE INCREASED IN WHP WHEN LPR-N OPENED | | | | | | | | | | | | | | | | | | 9 |
| 0858 | 0.16 | 700 | 67 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 20 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 10 |
| 0859 | 0.18 | 700 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 20 | | | | | | | | | | | | | | | | | | | 11 |
| 0900 | 0.01 | 30 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 20 | | | | | | | | | | | | | | | | | | | 12 |
| 0901 | 0.03 | 0 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 20 | | | | | | | | | | | | | | | | | | | 13 |
| 0902 | 0.04 | 0 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 20 | | | | | | | | | | | | | | | | | | | 14 |
| 0903 | 0.06 | 0 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 20 | | | | | | | | | | | | | | | | | | | 15 |
| 0904 | 0.08 | 0 | 67 | 1800 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 20 | | | | | | | | | | | | | | | | | | | 16 |
| 0905 | 0.09 | 0 | 67 | 2000 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 20 | | | | | | | | | | | | | | | | | | | 17 |
| 0910 | 0.18 | 0 | 69 | 1980 | 0.0 | 0 | 16 | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 20MAR86 | PAGE 2 | OF 4 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 3612-3618M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|---------------|--------------------------|---------------|--------|---------------|-------|-----------|------------|--|--------------|-------------------------|--------------|--------------------|--|---------------------------|--------------|----------------------------|---|---------------------------|----------|----------------|--|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | | |
| 1 20 | 0915 | 0.26 | 0 | 69 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 2 20 | 0930 | 0.51 | 0 | 69 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 3 20 | 0945 | 0.76 | 0 | 69 | 1910 | 0.0 | 0 | 16 | STARTED RIGGING UP SCHLUMBERGER LUBRICATOR | | | | | | | | | | | | | |
| 4 20 | 1000 | 1.01 | 0 | 69 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 5 20 | 1015 | 1.26 | 0 | 69 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 6 20 | 1030 | 1.51 | 0 | 69 | 1880 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 7 20 | 1035 | 1.59 | 0 | 69 | 1880 | 0.0 | 0 | 0 | WELL SHUT-IN. PUMPED S.S.L.V. CLOSE | | | | | | | | | | | | | |
| 8 20 | 1100 | 0.41 | 0 | 69 | 1900 | 0.0 | 0 | 0 | PRESSURE TESTED LUBRICATOR TO 5000 PSI - OKAY | | | | | | | | | | | | | |
| 9 20 | 1235 | 1.99 | 100 | 65 | 1840 | 0.0 | 0 | 16 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | |
| 10 20 | 1235 | 1.99 | 100 | 65 | 1840 | 0.0 | 0 | 16 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | |
| 11 20 | 1236 | 0.01 | 10 | 65 | 1840 | 0.0 | 0 | 16 | SCHLUMBERGER PRODUCTION LOGGING TOOL RAN IN HOLE | | | | | | | | | | | | | |
| 12 20 | 1237 | 0.03 | 1 | 65 | 1840 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 13 20 | 1238 | 0.04 | 1 | 65 | 1840 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 14 20 | 1239 | 0.06 | 1 | 65 | 1840 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 15 20 | 1240 | 0.08 | 0 | 65 | 1840 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 16 20 | 1245 | 0.16 | 0 | 65 | 1840 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 17 20 | 1300 | 0.41 | 0 | 65 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |

Computer - Furnas Toppan Hous



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446302

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 20MAR86 | PAGE 3 | OF 4 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 3612-3618M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1315 | 0.66 | 0 | 65 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 2 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1330 | 0.91 | 0 | 65 | 1970 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 3 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1345 | 1.16 | 0 | 65 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 4 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1400 | 1.41 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 5 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1415 | 1.66 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 6 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1430 | 1.91 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 7 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1445 | 2.16 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 8 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1500 | 2.41 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1515 | 2.66 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1530 | 2.91 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 11 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1545 | 3.16 | 0 | 64 | 1940 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1600 | 3.41 | 0 | 64 | 1920 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1615 | 3.66 | 0 | 64 | 1910 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1630 | 3.91 | 0 | 64 | 1900 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1645 | 4.16 | 0 | 64 | 1890 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1700 | 4.41 | 0 | 64 | 1890 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 | 20 | | | | | | | | | | | | | | | | | | | |
| | 1705 | 4.49 | 0 | 64 | 1890 | 0.0 | 0 | 0 | | | | | | | | | | | | |

PRODUCTION LOGGING TOOL STARTED OUT OF HOLE

PRODUCTION LOGGING TOOL AT SURFACE

SUBSEA LUBRICATOR VALVE PUMPED CLOSE

Computer Form - Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446303

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#2A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 20MAR86 | PAGE 4 | OF 4 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|---|---------------------------|--|--|---|---|
| INTERVAL TESTED 3612-3618M (FT.) | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|---|---------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|--------------------------|---------------|----------------|---------------|---------------|------------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) |
| 1 | 20 | ENDED | DST #2A | | | | | | | | | | | | | | | | |
| | 1705 | 4.49 | 0 | 64 | 1890 | 0.0 | 0 | 0 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | |
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FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446304

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| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 20MAR86 | PAGE 1 | OF 6 |
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| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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| INTERVAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | WATER METERING | | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|----------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 20 | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | 1 |
| 1806 | 0.00 | 0 | 64 | 1840 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 20 | PERFORATING GUNS RAN IN HOLE | | | | | | | | | | | | | | | | | | 2 |
| 1806 | 0.00 | 0 | 64 | 1840 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 20 | WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 3 |
| 2010 | 2.06 | 0 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 4 | 20 | ZONE PERFORATED USING 2-1/8" ENERJET GUNS | | | | | | | | | | | | | | | | | | 4 |
| 2011 | 0.01 | 30 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 5 | 20 | IMMEDIATE RESPONSED OF PRESSURE AT SURFACE | | | | | | | | | | | | | | | | | | 5 |
| 2011 | 0.01 | 30 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 6 | 20 | | | | | | | | | | | | | | | | | | | |
| 2012 | 0.03 | 8 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 7 | 20 | | | | | | | | | | | | | | | | | | | |
| 2013 | 0.04 | 2 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 8 | 20 | | | | | | | | | | | | | | | | | | | |
| 2014 | 0.06 | 1 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 9 | 20 | | | | | | | | | | | | | | | | | | | |
| 2015 | 0.08 | 1 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 10 | 20 | | | | | | | | | | | | | | | | | | | |
| 2016 | 0.09 | 0 | 67 | 1950 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | |
| 11 | 20 | WELL SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 11 |
| 2020 | 0.16 | 0 | 67 | 1950 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 20 | | | | | | | | | | | | | | | | | | | |
| 2022 | 0.03 | 2 | 67 | 1950 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 20 | | | | | | | | | | | | | | | | | | | |
| 2023 | 0.04 | 2 | 67 | 1940 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 20 | | | | | | | | | | | | | | | | | | | |
| 2024 | 0.06 | 3 | 67 | 1940 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 20 | SCHLUMBERGER STARTED PULLING GUNS OUT OF HOLE | | | | | | | | | | | | | | | | | | 15 |
| 2025 | 0.08 | 5 | 67 | 1940 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 20 | | | | | | | | | | | | | | | | | | | |
| 2030 | 0.16 | 10 | 67 | 1940 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 20 | | | | | | | | | | | | | | | | | | | |
| 2035 | 0.24 | 10 | 67 | 1940 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |

Computer Form - Toppan Photo



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446305

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| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 20MAR86 | PAGE 2 | OF 6 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERNAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|---------------|---|---------------|--------|---------------|------|--------------|------------|--------------|--------------|-------------------------|--------------|--------------------|--|---------------------------|--------------|-------------|---|---------------------------|----------|--|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 20 | | | | | | | | | | | | | | | | | | | | | |
| 2040 | 0.33 | 9 | 67 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 2 20 | | | | | | | | | | | | | | | | | | | | | |
| 2045 | 0.41 | 7 | 67 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 3 20 | | | | | | | | | | | | | | | | | | | | | |
| 2050 | 0.49 | 6 | 67 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 4 20 | | | | | | | | | | | | | | | | | | | | | |
| 2055 | 0.58 | 5 | 67 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 5 20 | | | | | | | | | | | | | | | | | | | | | |
| 2100 | 0.66 | 5 | 67 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 6 20 | | PERFORATING GUNS AT SURFACE | | | | | | | | | | | | | | | | | | | |
| 2115 | 0.91 | 7 | 67 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 7 20 | | SUBSEA LUBRICATOR VALVE PUMPED CLOSE | | | | | | | | | | | | | | | | | | | |
| 2120 | 0.99 | 7 | 67 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 8 20 | | BLED OFF SURFACE PRESSURE. RIGGED DOWN GUNS | | | | | | | | | | | | | | | | | | | |
| 2125 | 1.08 | 0 | 67 | 1920 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 9 20 | | PUMPED OPEN SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | | | |
| 2232 | 2.19 | 0 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 10 20 | | PRODUCTION LOGGING TOOL RAN IN HOLE | | | | | | | | | | | | | | | | | | | |
| 2232 | 2.19 | 0 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 11 20 | | CHOKE MANIFOLD CLOSED | | | | | | | | | | | | | | | | | | | |
| 2235 | 2.24 | 0 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 12 20 | | | | | | | | | | | | | | | | | | | | | |
| 2240 | 2.33 | 5 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 13 20 | | | | | | | | | | | | | | | | | | | | | |
| 2245 | 2.41 | 10 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 14 20 | | | | | | | | | | | | | | | | | | | | | |
| 2250 | 2.49 | 14 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 15 20 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | 2.66 | 20 | 60 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 16 20 | | | | | | | | | | | | | | | | | | | | | |
| 2315 | 2.91 | 180 | 65 | 1860 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 17 20 | | | | | | | | | | | | | | | | | | | | | |
| 2330 | 3.16 | 430 | 65 | 1850 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446306

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| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 20MAR86 | PAGE 3 | OF 6 |
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| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) -- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP. | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 20 | | | | | | | | | | | | | | | | | | | |
| | 2345 | 3.41 | 600 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 20 | | | | | | | | | | | | | | | | | | | |
| | 2400 | 3.66 | 725 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0015 | 3.91 | 850 | 65 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0030 | 4.16 | 940 | 65 | 1830 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0045 | 4.41 | 985 | 65 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0048 | 4.46 | 1000 | 65 | 1820 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0050 | 4.49 | 400 | 65 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 8 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0051 | 0.01 | 100 | 65 | 1820 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0052 | 0.03 | 0 | 65 | 1980 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0055 | 0.08 | 0 | 65 | 1980 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 11 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0100 | 0.16 | 0 | 65 | 1970 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0115 | 0.41 | 1 | 65 | 1970 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0130 | 0.66 | 1 | 65 | 1970 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0145 | 0.91 | 1 | 64 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0150 | 0.99 | 1 | 64 | 1960 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0158 | 1.13 | 1 | 64 | 1960 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0159 | 0.01 | 2 | 64 | 1960 | 0.0 | 0 | 0 | | | | | | | | | | | | |

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FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446307

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| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 21MAR86 | PAGE 4 | OF 6 |
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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0200 | 0.03 | 2 | 64 | 1960 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0201 | 0.04 | 3 | 64 | 1960 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0202 | 0.06 | 3 | 64 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0203 | 0.08 | 4 | 64 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0204 | 0.09 | 5 | 64 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0205 | 0.11 | 5 | 64 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0210 | 0.19 | 10 | 63 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0215 | 0.28 | 29 | 63 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0230 | 0.53 | 130 | 63 | 1950 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0245 | 0.78 | 280 | 63 | 1940 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0300 | 1.03 | 400 | 63 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0315 | 1.28 | 540 | 61 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0330 | 1.53 | 640 | 61 | 1930 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0345 | 1.78 | 730 | 61 | 1910 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0400 | 2.03 | 820 | 60 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0415 | 2.28 | 920 | 60 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 21 | | | | | | | | | | | | | | | | | | | |
| | 0430 | 2.53 | 955 | 60 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer Form Toppan House



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446308

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 21MAR86 | PAGE 5 | OF 6 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|---------------|--------------------------|---------------|--------|---------------|-------|--------------|------------|--------------|--------------|-------------------------|--------------|----------------------------|--|---------------------------|--------------|----------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 21 | 0445 | 2.78 | 1025 | 60 | 1880 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 21 | 0500 | 3.03 | 1100 | 60 | 1880 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 21 | 0515 | 3.28 | 1175 | 60 | 1870 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 21 | 0520 | 3.36 | 1175 | 60 | 1870 | 0.0 | 0 | 128 | | | | | | | | | | | | |
| 5 21 | 0520 | 3.36 | 1175 | 60 | 1870 | 0.0 | 0 | 128 | | | | | | | | | | | | |
| 6 21 | 0524 | 3.43 | 0 | 60 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 21 | 0524 | 3.43 | 0 | 60 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 21 | 0524 | 3.43 | 0 | 60 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 21 | 0625 | 4.44 | 0 | 60 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 21 | 0625 | 4.44 | 0 | 60 | 1840 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 21 | 0720 | 5.36 | 0 | 60 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 21 | 0724 | 5.43 | 110 | 59 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 21 | 0725 | 5.44 | 115 | 59 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 21 | 0726 | 5.46 | 120 | 59 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 21 | 0727 | 5.48 | 130 | 59 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 21 | 0728 | 5.49 | 135 | 59 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 21 | 0730 | 5.53 | 158 | 60 | 1800 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer - Forms Toppan Fibre



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446309

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#3 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 21MAR86 | PAGE 6 | OF 6 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 3440-3451M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|--|---------------|--------------------------|---------------|--------|---------------|-------|--------------|------------|--------------|--------------|-------------------------|--------------|----------------------------|--|---------------------------|--------------|----------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 21 0735 | 5.61 | 200 | 60 | 1800 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 21 0740 | 5.69 | 250 | 60 | 1800 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 21 0745 | 5.78 | 285 | 60 | 1790 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 21 0800 | 6.03 | 415 | 60 | 1790 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 21 0815 | 6.28 | 550 | 60 | 1790 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 21 0830 | 6.53 | 670 | 60 | 1780 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 7 21 0845 | 6.78 | 750 | 60 | 1760 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 8 21 0855 | 6.94 | 800 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| BLED OFF ANNULUS PRESSURE TO CLOSE LPR-N VALVE | | | | | | | | | | | | | | | | | | | | |
| 9 21 0855 | 6.94 | 800 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| BLED OFF SURFACE PRESSURE TO ZERO THRU B/HOSE | | | | | | | | | | | | | | | | | | | | |
| 10 21 0910 | 7.19 | 0 | 60 | 3400 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| PRESSURED UP ANNULUS TO OPEN LPR-M2 | | | | | | | | | | | | | | | | | | | | |
| 11 21 0911 | 7.21 | 0 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| LPR-M2 OPENED. REVERSED OUT TEST STRING OVER | | | | | | | | | | | | | | | | | | | | |
| 12 21 0911 | 7.21 | 0 | 60 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| SHALE SHAKERS ENDING DST #3 | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | |

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FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446310

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 25MAR86 | PAGE 1 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

| | | | | | |
|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 25 | THE TEST STRING AND TUBING CONVEYED PERFORATING | | | | | | | | | | | | | | | | | | 1 |
| 0630 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 2 | 25 | GUNS WERE RAN IN THE HOLE | | | | | | | | | | | | | | | | | | 2 |
| 0630 | 0.00 | | | | | | | | | | | | | | | | | | | |
| 3 | 25 | THE TEST STRING WAS DISPLACED WITH | | | | | | | | | | | | | | | | | | 3 |
| 0630 | 0.00 | 2200 | 0 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 25 | 71 BBL'S OF DIESEL | | | | | | | | | | | | | | | | | | 4 |
| 0630 | 0.00 | 2200 | 0 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 25 | BLED DOWN WELLHEAD PRESSURE TO THE OIL BURNERS | | | | | | | | | | | | | | | | | | 5 |
| 0645 | 0.25 | | | | | | | | | | | | | | | | | | | |
| 6 | 25 | OTIS DOWNHOLE SHUT-IN TOOL RAN IN THE HOLE | | | | | | | | | | | | | | | | | | 6 |
| 1045 | 4.25 | | | | | | | | | | | | | | | | | | | |
| 7 | 25 | DOWNHOLE SHUT-IN TOOL HUNG UP | | | | | | | | | | | | | | | | | | 7 |
| 1220 | 5.83 | | | | | | | | | | | | | | | | | | | |
| 8 | 25 | POSSIBLE LANDING NIPPLE | | | | | | | | | | | | | | | | | | 8 |
| 1220 | 5.83 | | | | | | | | | | | | | | | | | | | |
| 9 | 25 | STARTED PULLING DOWNHOLE SHUT-IN TOOL TO SURFACE | | | | | | | | | | | | | | | | | | 9 |
| 1440 | 8.16 | | | | | | | | | | | | | | | | | | | |
| 10 | 25 | DOWNHOLE SHUT-IN TOOL IN LUBRICATOR | | | | | | | | | | | | | | | | | | 10 |
| 1600 | 9.49 | 0 | 65 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 25 | PRESSURED UP ON ANNULUS TO OPEN LPR-N TEST TOOL | | | | | | | | | | | | | | | | | | 11 |
| 1607 | 9.61 | 100 | 65 | 1420 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 25 | OPENED BUBBLE HOSE TO BLED OFF PRESSURE | | | | | | | | | | | | | | | | | | 12 |
| 1608 | 9.63 | 200 | 65 | 1420 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 25 | OPENED CHOKE MFLD. BYPASS TO BLED DOWN PRESSURE | | | | | | | | | | | | | | | | | | 13 |
| 1609 | 9.64 | 0 | 65 | 1420 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 25 | | | | | | | | | | | | | | | | | | | 14 |
| 1610 | 9.66 | 0 | 65 | 1420 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 25 | | | | | | | | | | | | | | | | | | | 15 |
| 1615 | 9.74 | 0 | 65 | 1470 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 25 | INCREASED ANNULUS PRESSURE. PERFORATED THE ZONE | | | | | | | | | | | | | | | | | | 16 |
| 1620 | 9.83 | 0 | 65 | 2500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 25 | | | | | | | | | | | | | | | | | | | 17 |
| 1621 | 9.84 | 0 | 65 | 2500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |

Computer - Form 70000 (Rev. 10/85)

446311



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 25MAR86 | PAGE 2 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

| | | | | | |
|--|------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) (IN) | (64TH) (IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 25 | VACUUM OBSERVED AT BUBBLE HOSE | | | | | | | | | | | | | | | | | | 1 |
| 1622 | 9.86 | 0 | 65 | 2500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 1 |
| 2 | 25 | DIESEL FLOWED AT BUBBLE HOSE | | | | | | | | | | | | | | | | | | 2 |
| 1623 | 9.88 | 0 | 65 | 2500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 2 |
| 3 | 25 | | | | | | | | | | | | | | | | | | | 3 |
| 1624 | 9.89 | 0 | 65 | 2500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 3 |
| 4 | 25 | | | | | | | | | | | | | | | | | | | 4 |
| 1626 | 9.93 | 6 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 4 |
| 5 | 25 | WELL OPENED TO OIL BURNERS ON 16/64" ADJ. CHOKE | | | | | | | | | | | | | | | | | | 5 |
| 1627 | 9.94 | 8 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 5 |
| 6 | 25 | | | | | | | | | | | | | | | | | | | 6 |
| 1628 | 0.01 | 5 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 6 |
| 7 | 25 | | | | | | | | | | | | | | | | | | | 7 |
| 1629 | 0.03 | 5 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 7 |
| 8 | 25 | | | | | | | | | | | | | | | | | | | 8 |
| 1630 | 0.04 | 5 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 8 |
| 9 | 25 | | | | | | | | | | | | | | | | | | | 9 |
| 1631 | 0.06 | 5 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 9 |
| 10 | 25 | | | | | | | | | | | | | | | | | | | 10 |
| 1632 | 0.08 | 5 | 65 | 2440 | 0.0 | 0 | 16 | 16 | | | | | | | | | | | | 10 |
| 11 | 25 | WELL SHUT-IN AT CHOKE MFLD. FOR INITIAL BUILDUP | | | | | | | | | | | | | | | | | | 11 |
| 1633 | 0.09 | 6 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 11 |
| 12 | 25 | | | | | | | | | | | | | | | | | | | 12 |
| 1634 | 0.01 | 12 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 12 |
| 13 | 25 | | | | | | | | | | | | | | | | | | | 13 |
| 1635 | 0.03 | 45 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 13 |
| 14 | 25 | | | | | | | | | | | | | | | | | | | 14 |
| 1636 | 0.04 | 120 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 14 |
| 15 | 25 | | | | | | | | | | | | | | | | | | | 15 |
| 1637 | 0.06 | 160 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 15 |
| 16 | 25 | | | | | | | | | | | | | | | | | | | 16 |
| 1638 | 0.08 | 200 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 16 |
| 17 | 25 | | | | | | | | | | | | | | | | | | | 17 |
| 1639 | 0.09 | 290 | 65 | 2440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | 17 |

Computer Form Toppan House



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446312

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 25MAR86 | PAGE 3 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

| | | | | | |
|--|------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|------|---------------|--|--|--|---------------|--|--------------|--|--------------|--|--|--|----------------------------|--|--|--|----------------|--|
|------|---------------|--|--|--|---------------|--|--------------|--|--------------|--|--|--|----------------------------|--|--|--|----------------|--|

| DAY | FLOW OR SHUT-IN DURATION (HOURS) | TUBING PRESS. (PSIG) | TEMP. (°F) | CASING PRESS. (PSIG) | B H P (PSIG) | B H T (°F) | MAN CHOKE (64TH IN) | HEATER CHOKE (64TH IN) | ORIFICE SIZE (INS) | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN H ₂ O) | TEMP. (°F) | GAS GRAVITY (AIR=1) % H ₂ S | # 1 TANK OR METER READING (INS OR BBL) | # 1 OIL TEMP (°F) | OIL GRAVITY @ 60°F °API | W _i BSW (%) | # 1 TANK OR METER READING (INS. OR BBL) | SALINITY (%) | | |
|-----|----------------------------------|----------------------|---|----------------------|--------------|------------|---------------------|------------------------|--------------------|----------------------|------------------------------------|------------|---|--|-------------------|-------------------------|------------------------|---|--------------|--|-------------------|
| | | | | | | | | | | | | | | | | | | | | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) |
| 1 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1640 | 0.11 | 340 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1645 | 0.19 | 555 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1650 | 0.28 | 705 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1655 | 0.36 | 830 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1700 | 0.44 | 950 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1705 | 0.53 | 1030 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1710 | 0.61 | 1110 | 65 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1715 | 0.69 | 1150 | 64 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1720 | 0.78 | 1240 | 64 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1725 | 0.86 | 1295 | 64 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1730 | 0.94 | 1350 | 63 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 25 | | WELL OPENED TO OIL BURNERS ON 16/64" ADJ. CHOKE | | | | | | | | | | | | | | | | | | |
| | 1731 | 0.96 | 1200 | 63 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1732 | 0.01 | 800 | 63 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1733 | 0.03 | 60 | 63 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1734 | 0.04 | 8 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1735 | 0.06 | 3 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 25 | | | | | | | | | | | | | | | | | | | | |
| | 1736 | 0.08 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer-Frama Toppan Itasca



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 25MAR86 | PAGE 4 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

| | | | | | |
|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 25 | | | | | | | | | | | | | | | | | | | |
| 1737 | 0.09 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 25 | | | | | | | | | | | | | | | | | | | |
| 1738 | 0.11 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 25 | | | | | | | | | | | | | | | | | | | |
| 1739 | 0.13 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 25 | | | | | | | | | | | | | | | | | | | |
| 1740 | 0.14 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 25 | | | | | | | | | | | | | | | | | | | |
| 1741 | 0.16 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 25 | DOWNHOLE SHUT-IN TOOL RAN IN THE HOLE | | | | | | | | | | | | | | | | | | |
| 1743 | 0.19 | 0 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 25 | | | | | | | | | | | | | | | | | | | |
| 1745 | 0.23 | 1 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 25 | | | | | | | | | | | | | | | | | | | |
| 1750 | 0.31 | 1 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 25 | | | | | | | | | | | | | | | | | | | |
| 1755 | 0.39 | 1 | 63 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 25 | | | | | | | | | | | | | | | | | | | |
| 1800 | 0.48 | 1 | 62 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 25 | | | | | | | | | | | | | | | | | | | |
| 1815 | 0.73 | 1 | 62 | 2430 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 25 | | | | | | | | | | | | | | | | | | | |
| 1830 | 0.98 | 1 | 60 | 2430 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 25 | FLOW DIVERTED TO STOCK TANK. OIL TANK = 0.00 BBL | | | | | | | | | | | | | | | | | | |
| 1840 | 1.14 | 1 | 60 | 2430 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 25 | | | | | | | | | | | | | | | | | | | |
| 1845 | 1.23 | 3 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 25 | | | | | | | | | | | | | | | | | | | |
| 1900 | 1.48 | 3 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 25 | OIL TANK = 0.5 BBL | | | | | | | | | | | | | | | | | | |
| 1915 | 1.73 | 2 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 25 | OIL TANK = 1.5 BBL | | | | | | | | | | | | | | | | | | |
| 1930 | 1.98 | 2 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer Form Toppan Placer



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446314

| | | | | | |
|--------------------------|--|--|--------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR) 25MAR86 | PAGE 5 | OF 12 |
|--------------------------|--|--|--------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|--------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) - |
|--|-------------------------|-------------------------------|----------------------------|--------------------------------|

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|--|--|--|--|---|---|
| INTERNAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|----------------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 25 | OIL TANK = 2.0 BBLs | | | | | | | | | | | | | | | | | | |
| 1945 | 2.23 | 1 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 25 | OIL TANK = 2.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2000 | 2.48 | 1 | 60 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 25 | OIL TANK = 3.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2015 | 2.73 | 1 | 60 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 25 | OIL TANK = 4.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2030 | 2.98 | 1 | 60 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 25 | OIL TANK = 5.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2045 | 3.23 | 0 | 60 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 25 | OIL TANK = 5.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2100 | 3.48 | 0 | 60 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 25 | OIL TANK = 6.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2115 | 3.73 | 0 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 25 | OIL TANK = 6.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2130 | 3.98 | 0 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 25 | OIL TANK = 7.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2145 | 4.23 | 0 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 25 | OIL TANK = 7.75 BBLs | | | | | | | | | | | | | | | | | | |
| 2200 | 4.48 | 0 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 25 | OIL TANK = 8.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2215 | 4.73 | 0 | 58 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 25 | OIL TANK = 9.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2230 | 4.98 | 2 | 59 | 2470 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 25 | OIL TANK = 9.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2245 | 5.23 | 2 | 59 | 2470 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 25 | OIL TANK = 10.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2300 | 5.48 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 25 | OIL TANK = 10.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2315 | 5.73 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 25 | OIL TANK = 11.0 BBLs | | | | | | | | | | | | | | | | | | |
| 2330 | 5.98 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 25 | OIL TANK = 11.5 BBLs | | | | | | | | | | | | | | | | | | |
| 2345 | 6.23 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer Form Toppan Flow



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446315

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 25MAR86 | PAGE 6 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|

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|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|------------------------------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 25 | OIL TANK = 12.5 BBLs | | | | | | | | | | | | | | | | | | 1 |
| 2400 | 6.48 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 26 | OIL TANK = 14.0 BBLs | | | | | | | | | | | | | | | | | | 2 |
| 0015 | 6.73 | 2 | 59 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 26 | OIL TANK = 15.0 BBLs | | | | | | | | | | | | | | | | | | 3 |
| 0030 | 6.98 | 2 | 59 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 26 | OIL TANK = 16.0 BBLs | | | | | | | | | | | | | | | | | | 4 |
| 0045 | 7.23 | 2 | 59 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 26 | OIL TANK = 17.0 BBLs | | | | | | | | | | | | | | | | | | 5 |
| 0100 | 7.48 | 2 | 59 | 2440 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 26 | OIL TANK = 18.5 BBLs | | | | | | | | | | | | | | | | | | 6 |
| 0115 | 7.73 | 2 | 59 | 2450 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 26 | OIL TANK = 20.5 BBLs | | | | | | | | | | | | | | | | | | 7 |
| 0130 | 7.98 | 3 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 26 | OIL TANK = 22.0 BBLs | | | | | | | | | | | | | | | | | | 8 |
| 0145 | 8.23 | 5 | 59 | 2460 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 26 | OIL TANK = 24.0 BBLs | | | | | | | | | | | | | | | | | | 9 |
| 0200 | 8.48 | 9 | 60 | 2470 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 26 | OIL TANK = 27.0 BBLs | | | | | | | | | | | | | | | | | | 10 |
| 0215 | 8.73 | 32 | 61 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 26 | OIL TANK = 29.0 BBLs | | | | | | | | | | | | | | | | | | 11 |
| 0220 | 8.81 | 54 | 62 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 26 | OIL TANK = 31.0 BBLs | | | | | | | | | | | | | | | | | | 12 |
| 0225 | 8.89 | 96 | 64 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 26 | OIL TANK = 33.0 BBLs | | | | | | | | | | | | | | | | | | 13 |
| 0230 | 8.98 | 160 | 64 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 26 | CHANGED TO 24/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 14 |
| 0231 | 8.99 | 200 | 65 | 2410 | 0.0 | 0 | 24 | | | | | | | | | | | | | |
| 15 | 26 | OIL TANK = 44.0 BBLs | | | | | | | | | | | | | | | | | | 15 |
| 0234 | 9.04 | 250 | 66 | 2410 | 0.0 | 0 | 24 | | | | | | | | | | | | | |
| 16 | 26 | CHANGED TO 32/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 16 |
| 0235 | 9.06 | 260 | 67 | 2410 | 0.0 | 0 | 32 | | | | | | | | | | | | | |
| 17 | 26 | OIL TANK = 44.0 BBLs | | | | | | | | | | | | | | | | | | 17 |
| 0235 | 9.06 | 260 | 67 | 2410 | 0.0 | 0 | 32 | | | | | | | | | | | | | |

Computer - Form Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446316

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 26MAR86 | PAGE 7 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|------------------------------------|-------|---------------|---------------|------|------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|----------------------------|-------------|----------------|---|----------------|--|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 | 26 | FLOW DIVERTED TO OIL BURNERS | | | | | | | | | | | | | | | | | | | 1 |
| 0236 | 9.08 | 300 | 68 | 2410 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 2 | 26 | GAS AT SURFACE | | | | | | | | | | | | | | | | | | | 2 |
| 0237 | 9.09 | 290 | 68 | 2410 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 3 | 26 | | | | | | | | | | | | | | | | | | | | 3 |
| 0238 | 9.11 | 300 | 70 | 2420 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 4 | 26 | | | | | | | | | | | | | | | | | | | | 4 |
| 0239 | 9.12 | 320 | 70 | 2420 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 5 | 26 | | | | | | | | | | | | | | | | | | | | 5 |
| 0240 | 9.14 | 340 | 70 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 6 | 26 | MUD TO SURFACE | | | | | | | | | | | | | | | | | | | 6 |
| 0245 | 9.22 | 350 | 70 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 7 | 26 | FLOW DIVERTED TO GAS FLARE | | | | | | | | | | | | | | | | | | | 7 |
| 0255 | 9.39 | 340 | 70 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 8 | 26 | | | | | | | | | | | | | | | | | | | | 8 |
| 0300 | 9.47 | 250 | 71 | 2500 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 9 | 26 | | | | | | | | | | | | | | | | | | | | 9 |
| 0305 | 9.55 | 180 | 70 | 2500 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 10 | 26 | | | | | | | | | | | | | | | | | | | | 10 |
| 0310 | 9.64 | 150 | 70 | 2510 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 11 | 26 | | | | | | | | | | | | | | | | | | | | 11 |
| 0315 | 9.72 | 160 | 70 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 12 | 26 | | | | | | | | | | | | | | | | | | | | 12 |
| 0320 | 9.80 | 240 | 70 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 13 | 26 | | | | | | | | | | | | | | | | | | | | 13 |
| 0325 | 9.89 | 350 | 75 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | | | |
| 14 | 26 | CHANGED TO 24/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | 14 |
| 0327 | 9.92 | 310 | 77 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 15 | 26 | | | | | | | | | | | | | | | | | | | | 15 |
| 0328 | 9.94 | 310 | 77 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 16 | 26 | | | | | | | | | | | | | | | | | | | | 16 |
| 0329 | 9.95 | 300 | 76 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 17 | 26 | | | | | | | | | | | | | | | | | | | | 17 |
| 0330 | 9.97 | 265 | 75 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |

Computer-Forms Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446317

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 26MAR86 | PAGE 8 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

| | | | | | |
|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 26 | | | | | | | | | | | | | | | | | | | 1 |
| | 0335 | 10.05 | 235 | 73 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 2 | 26 | | | | | | | | | | | | | | | | | | | 2 |
| | 0340 | 10.14 | 213 | 71 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 3 | 26 | | | | | | | | | | | | | | | | | | | 3 |
| | 0345 | 10.22 | 207 | 70 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 4 | 26 | | | | | | | | | | | | | | | | | | | 4 |
| | 0346 | 10.23 | 195 | 68 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 5 | 26 | | | | | | | | | | | | | | | | | | | 5 |
| | 0350 | 10.30 | 197 | 68 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 6 | 26 | | | | | | | | | | | | | | | | | | | 6 |
| | 0400 | 10.47 | 167 | 65 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 7 | 26 | | | | | | | | | | | | | | | | | | | 7 |
| | 0405 | 10.55 | 153 | 65 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 8 | 26 | | | | | | | | | | | | | | | | | | | 8 |
| | 0410 | 10.64 | 147 | 64 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 26 | | | | | | | | | | | | | | | | | | | 9 |
| | 0415 | 10.72 | 140 | 64 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 26 | | | | | | | | | | | | | | | | | | | 10 |
| | 0420 | 10.80 | 130 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 11 | 26 | | | | | | | | | | | | | | | | | | | 11 |
| | 0425 | 10.89 | 128 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 26 | | | | | | | | | | | | | | | | | | | 12 |
| | 0430 | 10.97 | 123 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 26 | | | | | | | | | | | | | | | | | | | 13 |
| | 0435 | 11.05 | 121 | 62 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 26 | | | | | | | | | | | | | | | | | | | 14 |
| | 0440 | 11.14 | 122 | 62 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 26 | | | | | | | | | | | | | | | | | | | 15 |
| | 0442 | 11.17 | 130 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 26 | | | | | | | | | | | | | | | | | | | 16 |
| | 0443 | 11.19 | 134 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 | 26 | | | | | | | | | | | | | | | | | | | 17 |
| | 0444 | 11.20 | 137 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | |

CHANGED TO 16/64" ADJUSTABLE CHOKE

CHANGED TO 16/64" POSITIVE CHOKE

Computer Form Toppin Thorne



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446318

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 26MAR86 | PAGE 9 | OF 12 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM-CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--|------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--------------------------------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP. | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0445 | 11.22 | 140 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 2 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0450 | 11.30 | 150 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 3 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0455 | 11.39 | 158 | 62 | 2400 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 4 | 26 | FLOW DIVERTED TO THE SEPARATOR | | | | | | | | | | | | | | | | | | | |
| 0500 | 11.47 | 162 | 62 | 2400 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 5 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0505 | 11.55 | 164 | 62 | 2400 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 6 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0515 | 11.72 | 164 | 62 | 2400 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 7 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0530 | 11.97 | 172 | 61 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 8 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0545 | 12.22 | 192 | 61 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 9 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0600 | 12.47 | 218 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 10 | 26 | WET GAS | | | | | | | | | | | | | | | | | | | |
| 0615 | 12.72 | 248 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 11 | 26 | TRACE OF MUD WITH THE GAS | | | | | | | | | | | | | | | | | | | |
| 0630 | 12.97 | 278 | 62 | 2410 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 12 | 26 | BSW = 0.5% SOLID / 99.5% MUDDY WATER | | | | | | | | | | | | | | | | | | | |
| 0645 | 13.22 | 299 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 13 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0700 | 13.47 | 300 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 14 | 26 | BSW = 0.4% SOLID / 99.6% MUDDY WATER | | | | | | | | | | | | | | | | | | | |
| 0715 | 13.72 | 299 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 15 | 26 | | | | | | | | | | | | | | | | | | | | |
| 0730 | 13.97 | 304 | 63 | 2420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 16 | 26 | CO2 = 5.5 | | | | | | | | | | | | | | | | | | | |
| 0745 | 14.22 | 307 | 63 | 2420 | 0.0 | 0 | 16 | 0 | 1.000 | 49 | 61 | 65 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 17 | 26 | CO2 = 6.0 | | | | | | | | | | | | | | | | | | | |
| 0800 | 14.47 | 290 | 63 | 2420 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 62 | 66 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

Computer-Form Toppan Home



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446319

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|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 26MAR86 | PAGE 10 | OF 12 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|--|--|--|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- | |
| INTERNAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _f | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 26 | C02 = | 5.7 | | | | | | | | | | | | | | | | | |
| 0815 | 14.72 | 280 | 63 | 2420 | 0.0 | 0 | 16 | 0 | 1.000 | 46 | 62 | 67 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 26 | C02 = | 5.7 | | | | | | | | | | | | | | | | | |
| 0830 | 14.97 | 272 | 63 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 46 | 61 | 69 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 26 | C02 = | 5.1 | | | | | | | | | | | | | | | | | |
| 0845 | 15.22 | 252 | 63 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 57 | 71 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 26 | C02 = | 5.1 | | | | | | | | | | | | | | | | | |
| 0900 | 15.47 | 245 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 53 | 52 | 72 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 0915 | 15.72 | 245 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 53 | 45 | 72 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 0930 | 15.97 | 250 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 53 | 44 | 72 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 0945 | 16.22 | 256 | 67 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 46 | 72 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1000 | 16.47 | 250 | 68 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 48 | 47 | 72 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1015 | 16.72 | 250 | 68 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 49 | 73 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1030 | 16.97 | 250 | 67 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 49 | 73 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1045 | 17.22 | 250 | 67 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 46 | 50 | 74 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1100 | 17.47 | 250 | 66 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 50 | 75 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 26 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 1115 | 17.72 | 250 | 66 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 50 | 77 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 26 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 1130 | 17.97 | 250 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 49 | 50 | 77 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 26 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 1145 | 18.22 | 250 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 47 | 77 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 26 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 1200 | 18.47 | 248 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 46 | 77 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 26 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 1215 | 18.72 | 248 | 65 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 45 | 77 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Computer Form - Tugan Phase



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446320

| | | | | | |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 26MAR86 | PAGE 11 | OF 12 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--|--|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1230 | 18.97 | 298 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 46 | 77 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1245 | 19.22 | 255 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 46 | 77 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1300 | 19.47 | 248 | 63 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 47 | 77 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1315 | 19.72 | 244 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 46 | 75 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1330 | 19.97 | 225 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 50 | 45 | 74 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1345 | 20.22 | 260 | 64 | 2410 | 0.0 | 0 | 16 | 0 | 1.000 | 48 | 43 | 73 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1400 | 20.47 | 265 | 64 | 2420 | 0.0 | 0 | 16 | 0 | 1.000 | 44 | 47 | 72 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1415 | 20.72 | 268 | 65 | 2420 | 0.0 | 0 | 16 | 0 | 1.000 | 47 | 46 | 71 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1430 | 20.97 | 265 | 64 | 2430 | 0.0 | 0 | 16 | 0 | 1.000 | 44 | 49 | 70 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1445 | 21.22 | 270 | 65 | 2430 | 0.0 | 0 | 16 | 0 | 1.000 | 45 | 51 | 70 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11 | 26 | C02 = | 5.0 | | | | | | | | | | 0.830 | 0.00 | 0 | | 0.00 | 0.00 | | |
| 1500 | 21.47 | 260 | 64 | 2430 | 0.0 | 0 | 16 | 0 | 1.000 | 48 | 53 | 70 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12 | 26 | BYPASSED SEPARATOR | | | | | | | | | | | | | | | | | | |
| 1515 | 21.72 | 325 | 63 | 2430 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 26 | TOTAL LIQUID PRODUCED FROM SEPARATOR 3 BBLs | | | | | | | | | | | | | | | | | | |
| 1515 | 21.72 | 325 | 63 | 2430 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 26 | BLED OFF ANNULUS TO CLOSE LPR-N TEST TOOL | | | | | | | | | | | | | | | | | | |
| 1518 | 21.77 | 325 | 63 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 26 | BLED OFF TEST STRING TO GAS FLARE | | | | | | | | | | | | | | | | | | |
| 1519 | 0.01 | 320 | 63 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 26 | | | | | | | | | | | | | | | | | | | |
| 1520 | 0.03 | 300 | 63 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 26 | | | | | | | | | | | | | | | | | | | |
| 1521 | 0.04 | 275 | 63 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Fema Toppan Thorne



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 26MAR86 | PAGE 12 | OF 12 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--|------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|--------------------------------|--------------------------|---------------|--------|---------------|-------|-----------|------------|--------------|--------------|-------------------------|--------------|--------------------|--|----------------------------|--------------|-------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 26 | | | | | | | | | | | | | | | | | | | | |
| 1522 | 0.06 | 260 | 63 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 26 | | | | | | | | | | | | | | | | | | | | |
| 1523 | 0.08 | 220 | 63 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 26 | | | | | | | | | | | | | | | | | | | | |
| 1524 | 0.09 | 190 | 63 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 26 | | | | | | | | | | | | | | | | | | | | |
| 1525 | 0.11 | 150 | 63 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 26 | | | | | | | | | | | | | | | | | | | | |
| 1530 | 0.19 | 75 | 64 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 26 | FLOW SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | | |
| 1544 | 0.43 | 99 | 64 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 7 26 | | | | | | | | | | | | | | | | | | | | |
| 2030 | 5.19 | 115 | 64 | 0 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446322

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|--------------------------|--|--|--|------------------|----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 27MAR86 | PAGE 1 | OF 3 |
|--------------------------|--|--|--|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-------------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|-------------------------------------|

| | | | | | |
|--|---------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|---------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---|---------------|--------------------------|---------------|--------|---------------|------|--------------|------------|--------------|--------------|-----------------------|--------------|----------------------------|--|---------------------------|--------------|----------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _f | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 27 | 0545 | 0.00 | 120 | 57 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 27 | 0618 | 0.55 | 120 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| PRESSURED UP ON ANNULUS TO OPEN LPR-N TEST TOOL | | | | | | | | | | | | | | | | | | | | |
| 3 27 | 0618 | 0.55 | 120 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| TO START RATE #2 | | | | | | | | | | | | | | | | | | | | |
| 4 27 | 0619 | 0.56 | 120 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 27 | 0620 | 0.58 | 120 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 27 | 0621 | 0.59 | 190 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 27 | 0622 | 0.61 | 200 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 27 | 0623 | 0.63 | 200 | 57 | 1400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 27 | 0624 | 0.64 | 210 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 27 | 0625 | 0.66 | 220 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 27 | 0626 | 0.68 | 225 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 27 | 0627 | 0.69 | 230 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 27 | 0628 | 0.71 | 235 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 27 | 0629 | 0.73 | 240 | 57 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| WELL OPENED TO FLARE ON 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 15 27 | 0630 | 0.74 | 240 | 57 | 1450 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 27 | 0631 | 0.01 | 215 | 57 | 1450 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 27 | 0632 | 0.03 | 210 | 57 | 1450 | 0.0 | 0 | 16 | | | | | | | | | | | | |

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FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446323

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 27MAR86 | PAGE 2 | OF 3 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|--|--|--|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- | |
| INTERVAL TESTED 3142-3163.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | | |
|---------------|--------------------------|-------------------------------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|--|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _f | # 1 TANK OR METER READING | SALINITY | | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | | |
| 1 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0633 | 0.04 | 180 | 58 | 1450 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 2 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0634 | 0.06 | 160 | 58 | 1460 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 3 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0635 | 0.08 | 140 | 58 | 1460 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 4 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0636 | 0.09 | 110 | 58 | 1460 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 5 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0637 | 0.11 | 98 | 58 | 1460 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 6 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0638 | 0.13 | 60 | 58 | 1470 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 7 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0639 | 0.14 | 40 | 58 | 1470 | 0.0 | 0 | 16 | | | | | | | | | | | | | | | |
| 8 | 27 | CHANGED TO 24/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 0640 | 0.16 | 180 | 58 | 1470 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 9 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0641 | 0.18 | 250 | 60 | 1470 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 10 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0642 | 0.19 | 285 | 60 | 1470 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 11 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0643 | 0.21 | 280 | 62 | 1480 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 12 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0644 | 0.23 | 280 | 62 | 1480 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 13 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0645 | 0.24 | 273 | 62 | 1480 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 14 | 27 | | | | | | | | | | | | | | | | | | | | | |
| 0650 | 0.33 | 260 | 62 | 1480 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 15 | 27 | CHANGED TO 108/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 0655 | 0.41 | 150 | 62 | 1480 | 0.0 | 0 | 108 | | | | | | | | | | | | | | | |
| 16 | 27 | CHANGED TO 128/64" POSITIVE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 0700 | 0.49 | 74 | 61 | 1480 | 0.0 | 0 | 128 | | | | | | | | | | | | | | | |
| 17 | 27 | FLOW DIVERTED TO THE SEPARATOR | | | | | | | | | | | | | | | | | | | | |
| 0705 | 0.58 | 55 | 60 | 1480 | 0.0 | 0 | 128 | | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446324

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| TEST NO. DST#4 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 27MAR86 | PAGE 3 | OF 3 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--|----------------------------------|--|--|---|---|
| INTERVAL TESTED 3142-3163.5M (FT.) | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|----------------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|----------------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 27 | | | | | | | | | | | | | | | | | | | |
| 0710 | 0.66 | 45 | 60 | 1490 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 2 | 27 | | | | | | | | | | | | | | | | | | | |
| 0715 | 0.74 | 40 | 60 | 1500 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 3 | 27 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 0720 | 0.83 | 38 | 60 | 1500 | 0.0 | 0 | 128 | 0 | 1.500 | 33 | 36 | 63 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 27 | C02 = | 5.0 | | | | | | | | | | | | | | | | | |
| 0730 | 0.99 | 35 | 60 | 1500 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 35 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0740 | 1.16 | 35 | 60 | 1500 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 32 | 63 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 27 | C02 = | 5.8 | | | | | | | | | | | | | | | | | |
| 0750 | 1.33 | 35 | 60 | 1500 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 32 | 63 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 27 | C02 = | 6.0 | | | | | | | | | | | | | | | | | |
| 0800 | 1.49 | 35 | 60 | 1520 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 31 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0810 | 1.66 | 35 | 60 | 1520 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 30 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0820 | 1.83 | 35 | 60 | 1520 | 0.0 | 0 | 128 | 0 | 1.500 | 30 | 29 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0830 | 1.99 | 40 | 60 | 1530 | 0.0 | 0 | 128 | 0 | 1.500 | 32 | 28 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0840 | 2.16 | 37 | 60 | 1530 | 0.0 | 0 | 128 | 0 | 1.500 | 32 | 28 | 65 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 27 | C02 = | 5.5 | | | | | | | | | | | | | | | | | |
| 0850 | 2.33 | 37 | 60 | 1530 | 0.0 | 0 | 128 | 0 | 1.500 | 31 | 28 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 27 | C02 = | 5.5 / BYPASSED | | | | | | | | | | | | | | | | | |
| 0900 | 2.49 | 35 | 60 | 1530 | 0.0 | 0 | 128 | 0 | 1.500 | 31 | 28 | 64 | 0.830 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 27 | BLED OFF ANNULUS PRESSURE TO CLOSE LPR-N VALVE | | | | | | | | | | | | | | | | | | |
| 0908 | 2.63 | 0 | 60 | 0 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 15 | 27 | PRESSURED UP ANNULUS TO OPEN LPR-M2 VALVE | | | | | | | | | | | | | | | | | | |
| 0918 | 2.79 | 0 | 60 | 2800 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 16 | 27 | STARTED REVERSE CIRCULATION OF TEST STRING TO | | | | | | | | | | | | | | | | | | |
| 0918 | 2.79 | 0 | 60 | 2800 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 17 | 27 | BURNERS / FLARE ENDING DST #4 | | | | | | | | | | | | | | | | | | |
| 0918 | 2.79 | 0 | 60 | 2800 | 0.0 | 0 | 128 | | | | | | | | | | | | | |

Computer - Evans Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446325

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 1 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | TEST STRING AND TUBING CONVEYED PERFORATING GUNS | | | | | | | | | | | | | | | | | | 1 |
| | 0525 | 0.00 | | | | | | | | | | | | | | | | | | |
| 2 | 30 | RAN IN THE HOLE | | | | | | | | | | | | | | | | | | 2 |
| | 0525 | 0.00 | | | | | | | | | | | | | | | | | | |
| 3 | 30 | TEST STRING DISPLACED WITH NITROGEN | | | | | | | | | | | | | | | | | | 3 |
| | 0525 | 0.00 | | | | | | | | | | | | | | | | | | |
| 4 | 30 | BOP RAMS CLOSED | | | | | | | | | | | | | | | | | | 4 |
| | 0525 | 0.00 | | | | | | | | | | | | | | | | | | |
| 5 | 30 | PRESSURED UP ANNULUS TO OPEN LPR-N TEST VALVE | | | | | | | | | | | | | | | | | | 5 |
| | 0527 | 0.03 | 1350 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 30 | BLED DOWN WELLHEAD PRESSURE | | | | | | | | | | | | | | | | | | 6 |
| | 0532 | 0.11 | 1350 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 30 | INCREASED ANNULUS PRESSURE TO ACTIVATE | | | | | | | | | | | | | | | | | | 7 |
| | 0543 | 0.29 | 1350 | 56 | 2200 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 30 | PERFORATING GUNS | | | | | | | | | | | | | | | | | | 8 |
| | 0543 | 0.29 | 1350 | 56 | 2200 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | 9 |
| | 0544 | 0.31 | 1350 | 56 | 2200 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | 10 |
| | 0545 | 0.33 | 1350 | 56 | 2400 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | 11 |
| | 0546 | 0.34 | 1360 | 56 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | 12 |
| | 0547 | 0.36 | 1370 | 56 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | 13 |
| | 0548 | 0.38 | 1390 | 56 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | 14 |
| | 0550 | 0.41 | 1402 | 58 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | 15 |
| | 0551 | 0.43 | 1420 | 58 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | 16 |
| | 0552 | 0.44 | 1425 | 59 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | 17 |
| | 0553 | 0.46 | 1430 | 59 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer - Forms Toppan Home



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446326

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 30MAR86 | PAGE 2 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0554 | 0.48 | 1440 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0555 | 0.49 | 1450 | 59 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0600 | 0.58 | 1478 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0605 | 0.66 | 1525 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0610 | 0.74 | 1545 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0615 | 0.83 | 1590 | 58 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0630 | 1.08 | 1650 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0645 | 1.33 | 1720 | 59 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0700 | 1.58 | 1785 | 59 | 2510 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0715 | 1.83 | 1830 | 59 | 2510 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0721 | 1.93 | 1850 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0722 | 0.01 | 1820 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0723 | 0.03 | 1750 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0724 | 0.04 | 1720 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0725 | 0.06 | 1680 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0726 | 0.08 | 1650 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | |
| | 0727 | 0.09 | 1600 | 59 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | |

Computer Forms Toppan (Hiro)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446327

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 3 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|-------------------------------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | |
| 0728 | 0.11 | 1570 | 59 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| 0729 | 0.13 | 1540 | 59 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| 0730 | 0.14 | 1500 | 59 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| 0735 | 0.23 | 1370 | 59 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| 0740 | 0.31 | 1220 | 57 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| 0745 | 0.39 | 1100 | 57 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | |
| 0750 | 0.48 | 980 | 57 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | |
| 0755 | 0.56 | 890 | 57 | 2480 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.64 | 790 | 57 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| 0815 | 0.89 | 565 | 58 | 2500 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | |
| 0830 | 1.14 | 390 | 59 | 2530 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | |
| 0845 | 1.39 | 250 | 59 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 30 | GAS AT SURFACE | | | | | | | | | | | | | | | | | | |
| 0850 | 1.48 | 210 | 59 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | |
| 0900 | 1.64 | 140 | 60 | 2575 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | |
| 0915 | 1.89 | 60 | 60 | 2600 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 30 | PRODUCTION LOGGING TOOL RAN IN HOLE | | | | | | | | | | | | | | | | | | |
| 0930 | 2.14 | 45 | 61 | 2520 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 30 | FLUID AT SURFACE | | | | | | | | | | | | | | | | | | |
| 0938 | 2.28 | 50 | 61 | 2520 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer Forms Toppin Plume



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446328

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 30MAR86 | PAGE 4 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|---------------|--------------------------|---------------|--------|---------------|------|--------------|------------|--------------|--------------|-------------------------|--------------|----------------------------|--|---------------------------|--------------|----------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 30 | 0945 | 2.39 | 105 | 62 | 2530 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 2 30 | 1000 | 2.64 | 110 | 62 | 2530 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 3 30 | 1007 | 2.76 | 108 | 63 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 4 30 | 1008 | 2.78 | 100 | 63 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 5 30 | 1009 | 2.79 | 105 | 63 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 6 30 | 1010 | 2.81 | 107 | 63 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 7 30 | 1015 | 2.89 | 127 | 60 | 2530 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 8 30 | 1018 | 2.94 | 150 | 60 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 9 30 | 1019 | 2.96 | 145 | 60 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 10 30 | 1020 | 2.98 | 150 | 60 | 2530 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 11 30 | 1025 | 3.06 | 100 | 62 | 2540 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 12 30 | 1030 | 3.14 | 45 | 63 | 2550 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 13 30 | 1045 | 3.39 | 0 | 64 | 2560 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 14 30 | 1100 | 3.64 | 0 | 64 | 2570 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 15 30 | 1115 | 3.89 | 10 | 64 | 2580 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 16 30 | 1130 | 4.14 | 50 | 63 | 2520 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 17 30 | 1145 | 4.39 | 44 | 65 | 2550 | 0.0 | 0 | 32 | | | | | | | | | | | | |

Computer Form Toppan Home



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 5 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|---|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|---|-------------------------|-------------------------------|----------------------------|---------------------------|

| | | | | | |
|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1200 | 4.64 | 26 | 63 | 2550 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1215 | 4.89 | 0 | 64 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1230 | 5.14 | 0 | 64 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1245 | 5.39 | 0 | 64 | 2460 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1300 | 5.64 | 0 | 64 | 2470 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1315 | 5.89 | 38 | 60 | 2480 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1324 | 6.04 | 11 | 62 | 2480 | 0.0 | 0 | 32 | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1325 | 0.01 | 20 | 62 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1326 | 0.03 | 28 | 62 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1327 | 0.04 | 31 | 63 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1328 | 0.06 | 38 | 63 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1329 | 0.08 | 40 | 62 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1330 | 0.09 | 44 | 62 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1335 | 0.18 | 60 | 63 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1340 | 0.26 | 72 | 63 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1345 | 0.34 | 83 | 62 | 2490 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1400 | 0.59 | 116 | 62 | 2490 | 0.0 | 0 | 0 | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 30MAR86 | PAGE 6 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|--|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1415 | 0.84 | 160 | 62 | 2490 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1430 | 1.09 | 200 | 62 | 2490 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1445 | 1.34 | 255 | 62 | 2470 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1500 | 1.59 | 305 | 62 | 2470 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1515 | 1.84 | 365 | 61 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1530 | 2.09 | 402 | 61 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1545 | 2.34 | 445 | 61 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1600 | 2.59 | 489 | 61 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1615 | 2.84 | 520 | 60 | 2430 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1630 | 3.09 | 555 | 60 | 2420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1645 | 3.34 | 594 | 60 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1700 | 3.59 | 620 | 59 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1715 | 3.84 | 645 | 58 | 2490 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1730 | 4.09 | 670 | 58 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1745 | 4.34 | 690 | 57 | 2470 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1800 | 4.59 | 710 | 57 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | |
| | 1815 | 4.84 | 730 | 57 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446331

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| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 7 | OF 15 |
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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | |
| 1830 | 5.09 | 750 | 56 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| 1845 | 5.34 | 760 | 56 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| 1900 | 5.59 | 765 | 56 | 2430 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| 1915 | 5.84 | 775 | 56 | 2420 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| 1930 | 6.09 | 782 | 56 | 2410 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| 1945 | 6.34 | 785 | 56 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 30 | OPENED UP TO GAS FLARE ON 16/64" ADJ. CHOKE | | | | | | | | | | | | | | | | | | |
| 1951 | 6.44 | 790 | 56 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 30 | GAS TO SURFACE | | | | | | | | | | | | | | | | | | |
| 1952 | 0.01 | 720 | 56 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| 1953 | 0.03 | 620 | 56 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| 1954 | 0.04 | 560 | 54 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | |
| 1955 | 0.06 | 510 | 53 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | |
| 1956 | 0.08 | 450 | 53 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | |
| 1957 | 0.09 | 400 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | |
| 1958 | 0.11 | 360 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | |
| 1959 | 0.12 | 330 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | |
| 2000 | 0.14 | 280 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | |
| 2001 | 0.16 | 240 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer - Ferns Toppan Thorne



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446332

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| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 8 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | | | | | | | | | | | | | | | | | | | 1 |
| 2002 | 0.17 | 200 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | 2 |
| 2003 | 0.19 | 175 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | 3 |
| 2004 | 0.21 | 150 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | 4 |
| 2005 | 0.22 | 120 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | 5 |
| 2010 | 0.31 | 51 | 52 | 2510 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | 6 |
| 2015 | 0.39 | 27 | 52 | 2520 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | 7 |
| 2020 | 0.47 | 15 | 52 | 2520 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | 8 |
| 2025 | 0.56 | 10 | 53 | 2520 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | 9 |
| 2030 | 0.64 | 6 | 54 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | 10 |
| 2035 | 0.72 | 5 | 54 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 30 | | | | | | | | | | | | | | | | | | | 11 |
| 2040 | 0.81 | 4 | 54 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 30 | | | | | | | | | | | | | | | | | | | 12 |
| 2045 | 0.89 | 4 | 55 | 2540 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 30 | | | | | | | | | | | | | | | | | | | 13 |
| 2100 | 1.14 | 2 | 55 | 2550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 30 | | | | | | | | | | | | | | | | | | | 14 |
| 2115 | 1.39 | 2 | 55 | 2550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 30 | | | | | | | | | | | | | | | | | | | 15 |
| 2130 | 1.64 | 1 | 55 | 2550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 30 | | | | | | | | | | | | | | | | | | | 16 |
| 2145 | 1.89 | 1 | 55 | 2550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 30 | | | | | | | | | | | | | | | | | | | 17 |
| 2200 | 2.14 | 1 | 55 | 2550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |

Computer-Forma Toppan (Hiro)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446333

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|--------------------------|--|--|---------------------------------------|------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 30MAR86 | PAGE 9 | OF 15 |
|--------------------------|--|--|---------------------------------------|------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|----------------------------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|---|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 30 | SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 1 |
| | 2205 | 2.22 | 1 | 55 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2210 | 0.08 | 7 | 54 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2215 | 0.16 | 10 | 54 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2230 | 0.41 | 28 | 54 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2245 | 0.66 | 61 | 54 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2300 | 0.91 | 90 | 53 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2315 | 1.16 | 125 | 53 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2330 | 1.41 | 162 | 53 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2345 | 1.66 | 209 | 53 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | | | | | | | | |
| | 2400 | 1.91 | 282 | 53 | 2540 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0015 | 2.16 | 315 | 53 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0030 | 2.41 | 340 | 53 | 2520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0045 | 2.66 | 368 | 53 | 2510 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0100 | 2.91 | 395 | 52 | 2500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0115 | 3.16 | 415 | 52 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0130 | 3.41 | 428 | 52 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0145 | 3.66 | 434 | 52 | 2480 | 0.0 | 0 | 0 | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446334

| | | | | | |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 31MAR86 | PAGE 10 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0200 | 3.91 | 440 | 52 | 2470 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0215 | 4.16 | 444 | 52 | 2470 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0230 | 4.41 | 446 | 51 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0245 | 4.66 | 447 | 51 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0300 | 4.91 | 448 | 51 | 2460 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0315 | 5.16 | 448 | 51 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0330 | 5.41 | 448 | 51 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0345 | 5.66 | 448 | 50 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0400 | 5.91 | 448 | 50 | 2450 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0415 | 6.16 | 447 | 50 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0430 | 6.41 | 447 | 50 | 2440 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0445 | 6.66 | 446 | 50 | 2420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0500 | 6.91 | 445 | 50 | 2420 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0515 | 7.16 | 443 | 50 | 2410 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0530 | 7.41 | 442 | 50 | 2410 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0545 | 7.66 | 442 | 50 | 2410 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0600 | 7.91 | 437 | 50 | 2560 | 0.0 | 0 | 0 | | | | | | | | | | | | |

SCHLUMBERGER STARTED TO PULL OUT OF HOLE



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446235

| | | | | | |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 31MAR86 | PAGE 11 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|--|--------------------------|---------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0615 | 8.16 | 437 | 50 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0630 | 8.41 | 437 | 50 | 2550 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0633 | 8.46 | 437 | 50 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| WELL OPENED TO FLARE ON 8/64" POSITIVE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 4 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0634 | 0.01 | 410 | 50 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 5 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0635 | 0.03 | 395 | 50 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 6 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0636 | 0.04 | 355 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 7 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0637 | 0.06 | 349 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 8 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0638 | 0.08 | 315 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 9 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0639 | 0.09 | 298 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 10 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0640 | 0.11 | 283 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 11 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0641 | 0.13 | 263 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 12 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0642 | 0.14 | 245 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 13 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0643 | 0.16 | 218 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 14 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0644 | 0.18 | 200 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 15 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0645 | 0.19 | 180 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 16 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0650 | 0.28 | 132 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 17 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0655 | 0.36 | 80 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |

Computer - Furnas Toppan (Honey)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446336

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|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 31MAR86 | PAGE 12 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|

| | | | | | |
|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|---------------|--------------------------|----------------|--------|---------------|-------|------------|------------|--------------|--------------|-------------------------|--------------|--------------------|--|----------------------------|--------------|-------------|---|---------------------------|----------|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0700 | 0.44 | 60 | 48 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 2 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0705 | 0.53 | 55 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 3 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0710 | 0.61 | 44 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 4 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0715 | 0.69 | 35 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 5 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0720 | 0.78 | 32 | 49 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 6 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0730 | 0.94 | 24 | 50 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 7 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0745 | 1.19 | CO2 = 10% | 15 | 50 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | |
| 8 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0800 | 1.44 | 12 | 50 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 9 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0815 | 1.69 | 8 | 50 | 2580 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 10 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0830 | 1.94 | 6 | 50 | 2580 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 11 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0845 | 2.19 | 6 | 50 | 2590 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 12 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0900 | 2.44 | 5 | 50 | 2550 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 13 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0915 | 2.69 | 4 | 51 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 14 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0930 | 2.94 | 4 | 51 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 15 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0942 | 3.14 | 4 | 51 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | |
| 16 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0945 | 3.19 | OIL TO SURFACE | 16 | 53 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | |
| 17 | 31 | | | | | | | | | | | | | | | | | | | |
| | 0950 | 3.28 | 17 | 54 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | |

Computer - Form 7000 - 1/80



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446337

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|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 31MAR86 | PAGE 13 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERNAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|---------------|---------------------------|---------------|--------|---------------|------|--------------|------------|--------------|--------------|-----------------------|--------------|--------------------|--|---------------------------|--------------|-------------|---|---------------------------|----------|--|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 31 0955 | 3.36 | 19 | 55 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 2 31 1000 | 3.44 | 20 | 56 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 3 31 1015 | 3.69 | FLOW DIVERTED TO OIL GUNS | | | | | | | | | | | | | | | | | | | |
| 4 31 1030 | 3.94 | 18 | 57 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 5 31 1045 | 4.19 | 20 | 57 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 6 31 1100 | 4.44 | 23 | 56 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 7 31 1115 | 4.69 | 28 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 8 31 1130 | 4.94 | 32 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 9 31 1145 | 5.19 | 34 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 10 31 1200 | 5.44 | 36 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 11 31 1215 | 5.69 | 39 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 12 31 1215 | 5.69 | 39 | 55 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 13 31 1230 | 5.94 | 41 | 55 | 2560 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 14 31 1245 | 6.19 | 42 | 56 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 15 31 1300 | 6.44 | 41 | 56 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 16 31 1315 | 6.69 | 39 | 56 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |
| 17 31 1330 | 6.94 | 38 | 57 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | | |

Computer - Evans Toppan (Houston)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446338

| | | | | | |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 31MAR86 | PAGE 14 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

| | | | | | |
|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|--|---------------|----------------------------------|----------------------|------------|----------------------|------------|----------|----------------------|------------------------|--------------------|----------------------|------------------------------------|------------|---|--|-------------------|-------------------------|------------------------|---|--------------|
| | DAY | FLOW OR SHUT-IN DURATION (HOURS) | TUBING PRESS. (PSIG) | TEMP. (°F) | CASING PRESS. (PSIG) | BHP (PSIG) | BHT (°F) | MAN. CHOKE (64TH IN) | HEATER CHOKE (64TH IN) | ORIFICE SIZE (INS) | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN H ₂ O) | TEMP. (°F) | GAS GRAVITY (AIR=1) % H ₂ S | # 1 TANK OR METER READING (INS OR BBL) | # 1 OIL TEMP (°F) | OIL GRAVITY @ 60°F °API | W _i BSW (%) | # 1 TANK OR METER READING (INS. OR BBL) | SALINITY (%) |
| 1 31 1345 | 7.19 | 42 | 57 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | |
| CL = 1200PPM / OIL TANK = 3.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 2 31 1400 | 7.44 | 42 | 58 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | |
| CL = 1200PPM / CO2 = 25% / OIL TANK = 3.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 3 31 1415 | 7.69 | 36 | 60 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | |
| CL = 1200PPM / OIL TANK = 3.75 BBLs | | | | | | | | | | | | | | | | | | | | |
| 4 31 1415 | 7.69 | 36 | 60 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | |
| P.L. TOOL STARTED PULLING OUT OF HOLE | | | | | | | | | | | | | | | | | | | | |
| 5 31 1430 | 7.94 | 30 | 60 | 2570 | 0.0 | 0 | 8 | | | | | | | | | | | | | |
| OIL TANK = 4.0 BBLs | | | | | | | | | | | | | | | | | | | | |
| 6 31 1435 | 8.03 | 12 | 60 | 2560 | 0.0 | 0 | 64 | | | | | | | | | | | | | |
| CHANGED TO 64/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 7 31 1436 | 8.04 | 8 | 60 | 2570 | 0.0 | 0 | 64 | | | | | | | | | | | | | |
| OIL TANK = 4.0 BBLs | | | | | | | | | | | | | | | | | | | | |
| 8 31 1438 | 8.08 | 6 | 60 | 2570 | 0.0 | 0 | 108 | | | | | | | | | | | | | |
| CHANGED TO 108/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 9 31 1439 | 8.09 | 5 | 60 | 2570 | 0.0 | 0 | 108 | | | | | | | | | | | | | |
| OIL TANK = 4.0 BBLs | | | | | | | | | | | | | | | | | | | | |
| 10 31 1440 | 8.11 | 5 | 60 | 2570 | 0.0 | 0 | 108 | | | | | | | | | | | | | |
| OIL TANK = 4.0 BBLs | | | | | | | | | | | | | | | | | | | | |
| 11 31 1441 | 8.13 | 4 | 60 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| CHANGED TO 128/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | | |
| 12 31 1442 | 8.14 | 4 | 58 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 13 31 1445 | 8.19 | 4 | 58 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 14 31 1450 | 8.28 | 4 | 58 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 15 31 1455 | 8.36 | 4 | 58 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 16 31 1500 | 8.44 | 4 | 59 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| CO2 = 28% / OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |
| 17 31 1515 | 8.69 | 4 | 60 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | | | |

Computer Form Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

| | | | | | |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|
| TEST NO. DST#5 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 31MAR86 | PAGE 15 | OF 15 |
|--------------------------|--|--|---------------------------------------|-------------------|-----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------|

| | | | | | |
|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2868-2884M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 31 | PRODUCTION LOGGING TOOL AT SURFACE | | | | | | | | | | | | | | | | | | 1 |
| 1515 | 8.69 | 4 | 60 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 2 | 31 | CL = 1200PPM / OIL TANK = 4.5 BBLs | | | | | | | | | | | | | | | | | | 2 |
| 1530 | 8.94 | 6 | 60 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 3 | 31 | CL = 1200PPM / OIL TANK = 4.75 BBLs | | | | | | | | | | | | | | | | | | 3 |
| 1545 | 9.19 | 6 | 60 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 4 | 31 | OIL TANK = 4.75 BBLs | | | | | | | | | | | | | | | | | | 4 |
| 1600 | 9.44 | 5 | 59 | 2570 | 0.0 | 0 | 128 | | | | | | | | | | | | | |
| 5 | 31 | BLED OFF ANNULUS PRESSURE CLOSING LPR-N | | | | | | | | | | | | | | | | | | 5 |
| 1607 | 9.56 | 5 | 59 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 31 | | | | | | | | | | | | | | | | | | | 6 |
| 1610 | 0.05 | 0 | 59 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 31 | STARTED RIGGING DOWN SCHLUMBERGER LUBRICATOR | | | | | | | | | | | | | | | | | | 7 |
| 1615 | 0.13 | 0 | 59 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 31 | OPENED MIDDLE PIPE RAMS | | | | | | | | | | | | | | | | | | 8 |
| 1620 | 0.21 | 0 | 59 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 31 | CLOSED MIDDLE PIPE RAMS | | | | | | | | | | | | | | | | | | 9 |
| 1630 | 0.38 | 0 | 59 | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 31 | INCREASED ANNULUS PRESSURE | | | | | | | | | | | | | | | | | | 10 |
| 1730 | 1.38 | | | | | | | | | | | | | | | | | | | 10 |
| 11 | 31 | BLED DOWN ANNULUS | | | | | | | | | | | | | | | | | | 11 |
| 1732 | 1.41 | | | | | | | | | | | | | | | | | | | 11 |
| 12 | 31 | INCREASED ANNULUS PRESSURE. OPENED LPR-M2 | | | | | | | | | | | | | | | | | | 12 |
| 1742 | 1.58 | | | | | | | | | | | | | | | | | | | 12 |
| 13 | 31 | BEGAN REVERSE CIRCULATING TEST STRING | | | | | | | | | | | | | | | | | | 13 |
| 1742 | 1.58 | | | | | | | | | | | | | | | | | | | 13 |
| 14 | 31 | ENDING DST #2 | | | | | | | | | | | | | | | | | | 14 |
| 1742 | 1.58 | | | | | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | 17 |

Computer Form Toppan Review



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446340

| | | | | | |
|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 08APR86 | PAGE 1 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | | |
|--|--|--|--------------------------------|---|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- | |
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0020 | 0.00 | | | | | | | | | | | | | | | | | | |
| 2 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0020 | 0.00 | | | | | | | | | | | | | | | | | | |
| 3 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0200 | 1.66 | | | | | | | | | | | | | | | | | | |
| 4 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0225 | 2.08 | | | | | | | | | | | | | | | | | | |
| 5 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0225 | 2.08 | | | | | | | | | | | | | | | | | | |
| 6 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0340 | 3.33 | 690 | 0 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0340 | 3.33 | 690 | 0 | 1900 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0755 | 7.58 | | | | | | | | | | | | | | | | | | |
| 9 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0930 | 9.16 | | | | | | | | | | | | | | | | | | |
| 10 | 08 | | | | | | | | | | | | | | | | | | | |
| | 0930 | 9.16 | | | | | | | | | | | | | | | | | | |
| 11 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1000 | 9.66 | | | | | | | | | | | | | | | | | | |
| 12 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1020 | 9.99 | | | | | | | | | | | | | | | | | | |
| 13 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1020 | 9.99 | | | | | | | | | | | | | | | | | | |
| 14 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1050 | 10.49 | | | | | | | | | | | | | | | | | | |
| 15 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1230 | 12.16 | 680 | 0 | 1500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1230 | 12.16 | 680 | 0 | 1500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1253 | 12.54 | 680 | 0 | 1500 | 0.0 | 0 | 0 | | | | | | | | | | | | |

Computer - Form Toppan Flow



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

TEST NO. DST#5A WELL NAME OR NUMBER PELICAN #5 TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR DATE (DAY, MO, YR.) 08APR86 PAGE 2 OF 9

CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. FIELD PELICAN FORMATION SANDSTONE OIL METER SIZE 0 METER RANGE (BBL) ---
INTERVAL TESTED 2855-2860.5M (FT.) BHP SURVEY DEPTH (FT.) GAS PRODUCED TO PIPELINE FLARE GAS METER RUN SIZE 0 (INS) DIFF. RANGE (INS. H₂O) --- STATIC PRESSURE TAKEN UPSTREAM DOWNSTREAM

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 08 | SCHLUMBERGER PERFORATED INTERVAL 2855-2860.5MTRS | | | | | | | | | | | | | | | | | | 1 |
| | 1350 | 13.49 | 680 | 0 | 1500 | 0.0 | 0 | 0 | | | | | | | | | | | | 1 |
| 2 | 08 | SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 2 |
| | 1351 | 13.51 | 700 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 2 |
| 3 | 08 | | | | | | | | | | | | | | | | | | | 3 |
| | 1352 | 13.53 | 700 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 3 |
| 4 | 08 | | | | | | | | | | | | | | | | | | | 4 |
| | 1353 | 13.54 | 700 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 4 |
| 5 | 08 | | | | | | | | | | | | | | | | | | | 5 |
| | 1354 | 13.56 | 700 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 5 |
| 6 | 08 | | | | | | | | | | | | | | | | | | | 6 |
| | 1355 | 13.58 | 710 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 6 |
| 7 | 08 | SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 7 |
| | 1356 | 13.59 | 715 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 7 |
| 8 | 08 | | | | | | | | | | | | | | | | | | | 8 |
| | 1357 | 13.61 | 718 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 8 |
| 9 | 08 | | | | | | | | | | | | | | | | | | | 9 |
| | 1358 | 13.63 | 718 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 9 |
| 10 | 08 | | | | | | | | | | | | | | | | | | | 10 |
| | 1359 | 13.64 | 720 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 10 |
| 11 | 08 | SCHLUMBERGER PULLED OUT OF HOLE WITH | | | | | | | | | | | | | | | | | | 11 |
| | 1400 | 13.66 | 720 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 11 |
| 12 | 08 | PERFORATING GUNS | | | | | | | | | | | | | | | | | | 12 |
| | 1400 | 13.66 | 720 | 56 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 12 |
| 13 | 08 | | | | | | | | | | | | | | | | | | | 13 |
| | 1405 | 13.74 | 725 | 58 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 13 |
| 14 | 08 | | | | | | | | | | | | | | | | | | | 14 |
| | 1410 | 13.83 | 732 | 58 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 14 |
| 15 | 08 | | | | | | | | | | | | | | | | | | | 15 |
| | 1415 | 13.91 | 738 | 58 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 15 |
| 16 | 08 | | | | | | | | | | | | | | | | | | | 16 |
| | 1420 | 13.99 | 744 | 59 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 16 |
| 17 | 08 | | | | | | | | | | | | | | | | | | | 17 |
| | 1425 | 14.08 | 750 | 59 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | 17 |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446342

| | | | | | |
|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 08APR86 | PAGE 3 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | | |
|--|--|--|--------------------------------|--|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) -- | |
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) -- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|---|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _t | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1430 | 14.16 | 754 | 60 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1435 | 14.24 | 758 | 60 | 1480 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1440 | 14.33 | 760 | 59 | 1490 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1445 | 14.41 | 762 | 58 | 1500 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1450 | 14.49 | 765 | 58 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 08 | | SCHLUMBERGER IN LUBRICATOR | | | | | | | | | | | | | | | | | |
| | 1455 | 14.58 | 770 | 58 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1500 | 14.66 | 772 | 57 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 08 | | CLOSED SUBSEA LUBRICATOR VALVE AND BLED OFF | | | | | | | | | | | | | | | | | |
| | 1510 | 14.83 | 788 | 57 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 08 | | LUBRICATOR TO CHANGE SCHLUMBERGER TOOL STRING | | | | | | | | | | | | | | | | | |
| | 1510 | 14.83 | 788 | 57 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 08 | | CLOSED LPR-N & REOPENED SUBSEA LUBRICATOR VALVE | | | | | | | | | | | | | | | | | |
| | 1519 | 14.98 | | | | | | | | | | | | | | | | | | |
| 11 | 08 | | BLED DOWN TUBING PRESSURE THRU CHOKE MANIFOLD | | | | | | | | | | | | | | | | | |
| | 1530 | 15.16 | 700 | 56 | 0 | 0.0 | 0 | 64 | | | | | | | | | | | | |
| 12 | 08 | | SCHLUMBERGER RIGGED DOWN PERFORATING GUNS AND | | | | | | | | | | | | | | | | | |
| | 1550 | 15.49 | | | | | | | | | | | | | | | | | | |
| 13 | 08 | | RIGGED UP TO RUN PRODUCTION LOGGING TOOL | | | | | | | | | | | | | | | | | |
| | 1550 | 15.49 | | | | | | | | | | | | | | | | | | |
| 14 | 08 | | SCHLUMBERGER RAN IN HOLE TO | | | | | | | | | | | | | | | | | |
| | 1740 | 17.33 | | | | | | | | | | | | | | | | | | |
| 15 | 08 | | ESTABLISH FLUID CONTACT | | | | | | | | | | | | | | | | | |
| | 1740 | 17.33 | | | | | | | | | | | | | | | | | | |
| 16 | 08 | | PRESSURED ANNULUS TO OPEN LPR-N | | | | | | | | | | | | | | | | | |
| | 1928 | 19.13 | | | | | | | | | | | | | | | | | | |
| 17 | 08 | | OPENED THROUGH CHOKE MANIFOLD FOR INITIAL FLOW | | | | | | | | | | | | | | | | | |
| | 1930 | 0.03 | 34 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |

Computer Form Toppan House



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446343

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 08APR86 | PAGE 4 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--|--|--|--------------------------------|---|---|
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--------------------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 08 | FLOWED GAS TO FLARE BOOM | | | | | | | | | | | | | | | | | | 1 |
| | 1931 | 0.04 | 28 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 2 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1932 | 0.06 | 26 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 3 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1933 | 0.08 | 20 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 4 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1934 | 0.09 | 15 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 5 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1935 | 0.11 | 13 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 6 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1936 | 0.13 | 11 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 7 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1937 | 0.14 | 8 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 8 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1938 | 0.16 | 6 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 9 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1939 | 0.18 | 5 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 10 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1940 | 0.19 | 4 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 11 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1942 | 0.23 | 2 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 12 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 12 |
| | 1945 | 0.28 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 13 | 08 | | | | | | | | | | | | | | | | | | | |
| | 1950 | 0.36 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 14 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 14 |
| | 1955 | 0.44 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 15 | 08 | | | | | | | | | | | | | | | | | | | |
| | 2000 | 0.53 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 16 | 08 | | | | | | | | | | | | | | | | | | | |
| | 2015 | 0.78 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |
| 17 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 17 |
| | 2030 | 1.03 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | |

Computer Form Toppan (Itose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446344

| | | | | | |
|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 08APR86 | PAGE 5 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--|--|--|--------------------------------|---|---|
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 1 |
| 2045 | 1.28 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 1 |
| 2 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 2 |
| 2100 | 1.53 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 2 |
| 3 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 3 |
| 2115 | 1.78 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 3 |
| 4 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 4 |
| 2130 | 2.03 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 4 |
| 5 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 5 |
| 2145 | 2.28 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 5 |
| 6 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 6 |
| 2200 | 2.53 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 6 |
| 7 | 08 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | | 7 |
| 2215 | 2.78 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 7 |
| 8 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 8 |
| 2230 | 3.03 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 8 |
| 9 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 9 |
| 2245 | 3.28 | 0 | 50 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 9 |
| 10 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 10 |
| 2300 | 3.53 | 0 | 49 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | 10 |
| 11 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 11 |
| 2315 | 3.78 | 0 | 49 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 11 |
| 12 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 12 |
| 2330 | 4.03 | 0 | 49 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 12 |
| 13 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 13 |
| 2345 | 4.28 | 0 | 49 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 13 |
| 14 | 08 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 14 |
| 2400 | 4.53 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 14 |
| 15 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 15 |
| 0015 | 4.78 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 15 |
| 16 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 16 |
| 0030 | 5.03 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 16 |
| 17 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 17 |
| 0045 | 5.28 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | 17 |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446345

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 09APR86 | PAGE 6 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) --- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

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|--|--|--|--------------------------------|---|---|
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|--|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) |
| 1 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0100 | 5.53 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 2 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0115 | 5.78 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 3 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0130 | 6.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 4 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0145 | 6.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 5 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0200 | 6.53 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 6 | 09 | SCHLUMBERGER PICKED UP PRODUCTION LOGGING TOOL | | | | | | | | | | | | | | | | | |
| | 0200 | 6.53 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 7 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0215 | 6.78 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 8 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0230 | 7.03 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 9 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0245 | 7.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 10 | 09 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0300 | 7.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 11 | 09 | INTERMITTENT BUBBLE INDICATION AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0315 | 7.78 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 12 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0330 | 8.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 13 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0345 | 8.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 14 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0400 | 8.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 15 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0415 | 8.78 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 16 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0430 | 9.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 17 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | |
| | 0445 | 9.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | |

Dunlop - Form Toppan (100)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446346

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 09APR86 | PAGE 7 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|--|--|--------------------------------------|--|---|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- | |
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 (INS) | DIFF. RANGE (INS. H ₂ O) -- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------------------|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F %API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 1 |
| 0500 | 9.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 2 |
| 0515 | 9.78 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 3 |
| 0530 | 10.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 4 |
| 0545 | 10.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 5 |
| 0600 | 10.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 6 |
| 0615 | 10.78 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 7 |
| 0630 | 11.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 8 |
| 0645 | 11.28 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 9 |
| 0700 | 11.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 10 |
| 0730 | 12.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 11 |
| 0800 | 12.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 09 | WEAK BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 12 |
| 0830 | 13.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 13 |
| 0900 | 13.53 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 14 |
| 0930 | 14.03 | 0 | 47 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 15 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 15 |
| 1000 | 14.53 | 0 | 48 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 16 | 09 | NO BLOW AT SURFACE | | | | | | | | | | | | | | | | | | 16 |
| 1030 | 15.03 | 0 | 55 | 1550 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 17 | 09 | BLED OFF ANNULUS PRESSURE | | | | | | | | | | | | | | | | | | 17 |
| 1030 | 15.03 | | | | | | | | | | | | | | | | | | | |

Computer - Form 7, Tappan, Illinois



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446347

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|---------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#5A | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 09APR86 | PAGE 8 | OF 9 |
|---------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

| | | | | | |
|--|------------------------|--|--------------------------------|---|---|
| INTERVAL TESTED 2855-2860.5M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 0 | DIFF. RANGE (INS. H ₂ O) --- | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--|------------------------|--|--------------------------------|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) |
| 1 | 09 | | | | | | | | | | | | | | | | | | |
| | 1030 | 15.03 | | | | | | | | | | | | | | | | | |
| 2 | 09 | | | | | | | | | | | | | | | | | | |
| | 1100 | 0.50 | | | | | | | | | | | | | | | | | |
| 3 | 09 | | | | | | | | | | | | | | | | | | |
| | 1100 | 0.50 | | | | | | | | | | | | | | | | | |
| 4 | 09 | | | | | | | | | | | | | | | | | | |
| | 1115 | 0.75 | | | | | | | | | | | | | | | | | |
| 5 | 09 | | | | | | | | | | | | | | | | | | |
| | 1221 | 1.85 | | | | | | | | | | | | | | | | | |
| 6 | 09 | | | | | | | | | | | | | | | | | | |
| | 1223 | 1.88 | 400 | 0 | 0 | 0.0 | 0 | 16 | | | | | | | | | | | |
| 7 | 09 | | | | | | | | | | | | | | | | | | |
| | 1225 | 1.91 | | | | | | | | | | | | | | | | | |
| 8 | 09 | | | | | | | | | | | | | | | | | | |
| | 1230 | 1.99 | | | | | | | | | | | | | | | | | |
| 9 | 09 | | | | | | | | | | | | | | | | | | |
| | 1239 | 2.14 | | | | | | | | | | | | | | | | | |
| 10 | 09 | | | | | | | | | | | | | | | | | | |
| | 1244 | 2.23 | | | | | | | | | | | | | | | | | |
| 11 | 09 | | | | | | | | | | | | | | | | | | |
| | 1255 | 2.41 | | | | | | | | | | | | | | | | | |
| 12 | 09 | | | | | | | | | | | | | | | | | | |
| | 1258 | 2.46 | | | | | | | | | | | | | | | | | |
| 13 | 09 | | | | | | | | | | | | | | | | | | |
| | 1330 | 2.99 | | | | | | | | | | | | | | | | | |
| 14 | 09 | | | | | | | | | | | | | | | | | | |
| | 1400 | 3.49 | | | | | | | | | | | | | | | | | |
| 15 | 09 | | | | | | | | | | | | | | | | | | |
| | 1615 | 5.74 | | | | | | | | | | | | | | | | | |
| 16 | 09 | | | | | | | | | | | | | | | | | | |
| | 1615 | 5.74 | | | | | | | | | | | | | | | | | |
| 17 | 09 | | | | | | | | | | | | | | | | | | |
| | 1640 | 6.16 | | | | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

| | | | | | |
|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 10APR86 | PAGE 1 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|---|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|---|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 10 | RAN IN HOLE SUBSEA TEST TREE | | | | | | | | | | | | | | | | | | 1 |
| | 1355 | 0.00 | | | | | | | | | | | | | | | | | | |
| 2 | 10 | RIGGED UP SURFACE TEST TREE | | | | | | | | | | | | | | | | | | 2 |
| | 1540 | 1.75 | | | | | | | | | | | | | | | | | | |
| 3 | 10 | SET PACKER | | | | | | | | | | | | | | | | | | 3 |
| | 1547 | 1.86 | | | | | | | | | | | | | | | | | | |
| 4 | 10 | RIGGED UP SURFACE EQUIPMENT | | | | | | | | | | | | | | | | | | 4 |
| | 1600 | 2.08 | | | | | | | | | | | | | | | | | | |
| 5 | 10 | PRESSURE TESTED TUBING TO 5000 PSI | | | | | | | | | | | | | | | | | | 5 |
| | 1608 | 2.21 | | | | | | | | | | | | | | | | | | |
| 6 | 10 | PRESSURE TESTED CHOKE MANIFOLD TO 5000 PSI | | | | | | | | | | | | | | | | | | 6 |
| | 1650 | 2.91 | | | | | | | | | | | | | | | | | | |
| 7 | 10 | OPENED SWAB VALVE AND TIW VALVE | | | | | | | | | | | | | | | | | | 7 |
| | 1720 | 3.41 | | | | | | | | | | | | | | | | | | |
| 8 | 10 | CLOSED MIDDLE PIPE RAM AND OPENED LPR-N TOOL | | | | | | | | | | | | | | | | | | 8 |
| | 1725 | 3.49 | | | | | | | | | | | | | | | | | | |
| 9 | 10 | OTIS RAN IN HOLE WITH GAUGE RING | | | | | | | | | | | | | | | | | | 9 |
| | 1728 | 3.54 | | | | | | | | | | | | | | | | | | |
| 10 | 10 | OTIS COMPLETED WIRELINE GAUGE RING RUN | | | | | | | | | | | | | | | | | | 10 |
| | 1805 | 4.16 | | | | | | | | | | | | | | | | | | |
| 11 | 10 | RIGGED UP SCHLUMBERGER WIRELINE LUBRICATOR | | | | | | | | | | | | | | | | | | 11 |
| | 1900 | 5.08 | | | | | | | | | | | | | | | | | | |
| 12 | 10 | BLED OFF ANNULUS PRESSURE TO CLOSE LPR-N TOOL | | | | | | | | | | | | | | | | | | 12 |
| | 1905 | 5.16 | | | | | | | | | | | | | | | | | | |
| 13 | 10 | PRESSURE TESTED SCHLUMBERGER WIRELINE | | | | | | | | | | | | | | | | | | 13 |
| | 1935 | 5.66 | | | | | | | | | | | | | | | | | | |
| 14 | 10 | LUBRICATOR TO 5000 PSI | | | | | | | | | | | | | | | | | | 14 |
| | 1935 | 5.66 | | | | | | | | | | | | | | | | | | |
| 15 | 10 | PICKED UP TEST STRING TO OPEN CIRCULATING PORTS | | | | | | | | | | | | | | | | | | 15 |
| | 1948 | 5.88 | | | | | | | | | | | | | | | | | | |
| 16 | 10 | PUMPED NITROGEN INTO STRING TO | | | | | | | | | | | | | | | | | | 16 |
| | 2000 | 6.08 | | | | | | | | | | | | | | | | | | |
| 17 | 10 | DISPLACE WATER (3000 PSI) | | | | | | | | | | | | | | | | | | 17 |
| | 2000 | 6.08 | | | | | | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446350

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 10APR86 | PAGE 2 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 10 | CLOSED CIRCULATION PORTS | | | | | | | | | | | | | | | | | | 1 |
| 2126 | 7.51 | | | | | | | | | | | | | | | | | | | |
| 2 | 10 | BLED DOWN TUBING PRESSURE TO 1250 PSI | | | | | | | | | | | | | | | | | | 2 |
| 2127 | 7.53 | | | | | | | | | | | | | | | | | | | |
| 3 | 10 | CLOSED MIDDLE RAMS | | | | | | | | | | | | | | | | | | 3 |
| 2147 | 7.86 | | | | | | | | | | | | | | | | | | | |
| 4 | 10 | OPENED LPR-N (ANNULUS PRESSURE - 1500 PSI) | | | | | | | | | | | | | | | | | | 4 |
| 2150 | 7.91 | | | | | | | | | | | | | | | | | | | |
| 5 | 10 | CLOSED TIW VALVE AND BLED OFF FLOWLINES PRESSURE | | | | | | | | | | | | | | | | | | 5 |
| 2200 | 8.08 | | | | | | | | | | | | | | | | | | | |
| 6 | 10 | PRESSURED UP ABOVE TIW VALVE AND | | | | | | | | | | | | | | | | | | 6 |
| 2355 | 9.99 | | | | | | | | | | | | | | | | | | | |
| 7 | 10 | OPENED TIW VALVE (TUBING PRESSURE 1350 PSI) | | | | | | | | | | | | | | | | | | 7 |
| 2355 | 9.99 | | | | | | | | | | | | | | | | | | | |
| 8 | 10 | SCHLUMBERGER RAN IN HOLE WITH PERFORATING GUNS | | | | | | | | | | | | | | | | | | 8 |
| 2400 | 10.08 | | | | | | | | | | | | | | | | | | | |
| 9 | 11 | SCHLUMBERGER PERFORATED INTERVAL | | | | | | | | | | | | | | | | | | 9 |
| 0126 | 11.51 | 1350 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 11 | SHUT-IN AT CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 10 |
| 0126 | 11.51 | 1350 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| 0127 | 11.53 | 1430 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 11 | | | | | | | | | | | | | | | | | | | |
| 0128 | 11.54 | 1500 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 11 | | | | | | | | | | | | | | | | | | | |
| 0129 | 11.56 | 1660 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 11 | | | | | | | | | | | | | | | | | | | |
| 0130 | 11.58 | 1740 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 11 | | | | | | | | | | | | | | | | | | | |
| 0135 | 11.66 | 2080 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 11 | | | | | | | | | | | | | | | | | | | |
| 0140 | 11.74 | 2300 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 11 | SCHLUMBERGER PULLED OUT OF HOLE WITH | | | | | | | | | | | | | | | | | | 17 |
| 0145 | 11.83 | 2460 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Furnas Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446351

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| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 11APR86 | PAGE 3 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|---|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|---|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | PERFORATING GUNS | | | | | | | | | | | | | | | | | | 1 |
| 0145 | 11.83 | 2460 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | 2 |
| 0150 | 11.91 | 2525 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | 3 |
| 0155 | 11.99 | 2570 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 11 | | | | | | | | | | | | | | | | | | | 4 |
| 0200 | 12.08 | 2600 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | 5 |
| 0205 | 12.16 | 2600 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 11 | | | | | | | | | | | | | | | | | | | 6 |
| 0210 | 12.24 | 2610 | 0 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 11 | | | | | | | | | | | | | | | | | | | 7 |
| 0215 | 12.33 | 2610 | 0 | 1540 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | 8 |
| 0220 | 12.41 | 2620 | 0 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | 9 |
| 0225 | 12.49 | 2620 | 0 | 1580 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | 10 |
| 0230 | 12.58 | 2620 | 0 | 1600 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 11 | SCHLUMBERGER TOOL IN LUBRICATOR | | | | | | | | | | | | | | | | | | 11 |
| 0232 | 12.61 | 2620 | 0 | 1610 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 11 | CLOSED TIW VALVE AND BLED PRESSURE AT | | | | | | | | | | | | | | | | | | 12 |
| 0235 | 12.66 | | | | | | | | | | | | | | | | | | | 12 |
| 13 | 11 | CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 13 |
| 0235 | 12.66 | | | | | | | | | | | | | | | | | | | 13 |
| 14 | 11 | OPENED KILL LINE VALVE | | | | | | | | | | | | | | | | | | 14 |
| 0242 | 12.78 | | | | | | | | | | | | | | | | | | | 14 |
| 15 | 11 | REDRESSED SCHLUMBERGER TOOL & CLOSED CROWN VALVE | | | | | | | | | | | | | | | | | | 15 |
| 0245 | 12.83 | | | | | | | | | | | | | | | | | | | 15 |
| 16 | 11 | OPENED CROWN VALVE | | | | | | | | | | | | | | | | | | 16 |
| 0325 | 13.49 | | | | | | | | | | | | | | | | | | | 16 |
| 17 | 11 | RIGGED UP SCHLUMBERGER WIRELINE LUBRICATOR | | | | | | | | | | | | | | | | | | 17 |
| 0400 | 14.08 | | | | | | | | | | | | | | | | | | | 17 |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446352

| | | | | | |
|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 11APR86 | PAGE 4 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|--|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | PRESSURED 2700 PSI ON WIRELINE LUBRICATOR TO | | | | | | | | | | | | | | | | | | 1 |
| 0605 | 16.16 | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | EQUALIZE ACROSS TIW VALVE | | | | | | | | | | | | | | | | | | 2 |
| 0605 | 16.16 | | | | | | | | | | | | | | | | | | | |
| 3 | 11 | OPENED TIW VALVE | | | | | | | | | | | | | | | | | | 3 |
| 0625 | 16.49 | 2700 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 11 | SCHLUMBERGER RAN IN HOLE WITH OTIS HP GAUGE | | | | | | | | | | | | | | | | | | 4 |
| 0630 | 16.58 | 2700 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | |
| 0635 | 16.66 | 2710 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 11 | | | | | | | | | | | | | | | | | | | |
| 0640 | 16.74 | 2710 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 11 | | | | | | | | | | | | | | | | | | | |
| 0645 | 16.83 | 2710 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | |
| 0650 | 16.91 | 2710 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | |
| 0655 | 16.99 | 2720 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | |
| 0700 | 17.08 | 2720 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| 0715 | 17.33 | 2720 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 12 | 11 | | | | | | | | | | | | | | | | | | | |
| 0730 | 17.58 | 2730 | 0 | 1570 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 13 | 11 | | | | | | | | | | | | | | | | | | | |
| 0745 | 17.83 | 2740 | 55 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 14 | 11 | SCHLUMBERGER TOOL AT BOTTOM | | | | | | | | | | | | | | | | | | 14 |
| 0800 | 18.08 | 2740 | 0 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 15 | 11 | BLED DOWN PRESSURE BY 100 PSI TO CHECK | | | | | | | | | | | | | | | | | | 15 |
| 0805 | 18.16 | 2650 | 0 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 16 | 11 | DOWNHOLE SHUT-IN TOOL / LATCHED | | | | | | | | | | | | | | | | | | 16 |
| 0805 | 18.16 | 2650 | 0 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 17 | 11 | | | | | | | | | | | | | | | | | | | |
| 0810 | 18.24 | 2675 | 0 | 1560 | 0.0 | 0 | 0 | | | | | | | | | | | | | |

Computer - Evans Toppan (Hose)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 11APR86 | PAGE 5 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|---|-------------------------|-------------------------------|----------------------------|---------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|--|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | ON 16/64" ADJUSTABLE CHOKE - 1ST FLOW | | | | | | | | | | | | | | | | | | 1 |
| 0812 | 18.28 | 2675 | 55 | 1560 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | |
| 0813 | 0.01 | 2450 | 55 | 1560 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | |
| 0814 | 0.03 | 2370 | 55 | 1560 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 4 | 11 | | | | | | | | | | | | | | | | | | | |
| 0815 | 0.04 | 2300 | 55 | 1560 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | |
| 0816 | 0.06 | 2220 | 55 | 1560 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 6 | 11 | | | | | | | | | | | | | | | | | | | |
| 0817 | 0.08 | 2170 | 56 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 7 | 11 | | | | | | | | | | | | | | | | | | | |
| 0818 | 0.09 | 2080 | 57 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | |
| 0819 | 0.11 | 1970 | 62 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | |
| 0820 | 0.13 | 1920 | 57 | 1570 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | |
| 0821 | 0.14 | 1880 | 57 | 1580 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| 0822 | 0.16 | 1830 | 58 | 1580 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 12 | 11 | GAS TO SURFACE | | | | | | | | | | | | | | | | | | 12 |
| 0825 | 0.21 | 1750 | 58 | 1590 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 13 | 11 | CONDENSATE TO SURFACE | | | | | | | | | | | | | | | | | | 13 |
| 0830 | 0.29 | 1610 | 58 | 1590 | 0.0 | 0 | 16 | | | | | | | | | | | | | |
| 14 | 11 | CHANGED TO 24/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | 14 |
| 0833 | 0.34 | 1500 | 65 | 1510 | 0.0 | 0 | 24 | | | | | | | | | | | | | |
| 15 | 11 | RATHOLE MUD (GAS CUT) | | | | | | | | | | | | | | | | | | 15 |
| 0836 | 0.39 | 1460 | 65 | 1510 | 0.0 | 0 | 24 | | | | | | | | | | | | | |
| 16 | 11 | SURGING WELLHEAD PRESSURE | | | | | | | | | | | | | | | | | | 16 |
| 0840 | 0.46 | 1535 | 65 | 1510 | 0.0 | 0 | 24 | | | | | | | | | | | | | |
| 17 | 11 | GAS CUT MUD | | | | | | | | | | | | | | | | | | 17 |
| 0845 | 0.54 | 1525 | 70 | 1550 | 0.0 | 0 | 24 | | | | | | | | | | | | | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446354

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 11APR86 | PAGE 6 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL/S) --- |
|--|-------------------------|-------------------------------|----------------------------|-----------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---------------|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|------|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0850 | 0.63 | 1730 | 76 | 1550 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0855 | 0.71 | 1740 | 80 | 1550 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0900 | 0.79 | 1720 | 85 | 1570 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 4 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0905 | 0.88 | 1720 | 85 | 1420 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0910 | 0.96 | 1625 | 83 | 1420 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 6 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0915 | 1.04 | 1675 | 83 | 1420 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 7 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0920 | 1.13 | 1675 | 83 | 1430 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0930 | 1.29 | 1650 | 84 | 1450 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0935 | 1.38 | 1650 | 84 | 1450 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0945 | 1.54 | 1660 | 84 | 1450 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| | 0952 | 1.66 | 1650 | 85 | 1500 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 12 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1000 | 1.79 | 1630 | 87 | 1480 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 13 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1015 | 2.04 | 1620 | 87 | 1500 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 14 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1030 | 2.29 | 1620 | 90 | 1510 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 15 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1045 | 2.54 | 1620 | 90 | 1540 | 0.0 | 0 | 24 | | | | | | | | | | | | |
| 16 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1100 | 2.79 | 1620 | 91 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 48 | 50 | 0.820 | 0.00 | 0 | 1.00 | 0.00 | 0.00 | 0.00 |
| 17 | 11 | | | | | | | | | | | | | | | | | | | |
| | 1115 | 3.04 | 1615 | 92 | 1450 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 48 | 50 | 0.820 | 0.00 | 0 | 1.00 | 0.00 | 0.00 | 0.00 |

Computer-Forma Toppan Thorne



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446355

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|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 11APR86 | PAGE 7 | OF 8 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|---|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|---|-------------------------|-------------------------------|----------------------------|---------------------------------|

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|--------------------------------------|--|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|--|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | 20% H ₂ O / TRACE OF SEDIMENT / CL- 2000PPM | | | | | | | | | | | | | | | | | | |
| 1130 | 3.29 | 1615 | 92 | 1560 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 49 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 2 | 11 | 15% H ₂ O / TRACE OF SEDIMENT | | | | | | | | | | | | | | | | | | |
| 1145 | 3.54 | 1631 | 94 | 1500 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 48 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 3 | 11 | 2% CO ₂ / 15% H ₂ O / TRACE OF SED. / CL- 1600PPM | | | | | | | | | | | | | | | | | | |
| 1200 | 3.79 | 1620 | 94 | 1500 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 49 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 4 | 11 | 20% H ₂ O / TRACE OF SEDIMENT | | | | | | | | | | | | | | | | | | |
| 1215 | 4.04 | 1620 | 95 | 1520 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 48 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 5 | 11 | 20% H ₂ O / TRACE OF SEDIMENT | | | | | | | | | | | | | | | | | | |
| 1230 | 4.29 | 1620 | 95 | 1510 | 0.0 | 0 | 24 | 0 | 2.250 | 290 | 48 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 6 | 11 | 20% H ₂ O / TRACE OF SEDIMENT | | | | | | | | | | | | | | | | | | |
| 1245 | 4.54 | 1622 | 95 | 1520 | 0.0 | 0 | 24 | 0 | 2.250 | 295 | 48 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 7 | 11 | 7% CO ₂ / 15% H ₂ O | | | | | | | | | | | | | | | | | | |
| 1300 | 4.79 | 1623 | 96 | 1530 | 0.0 | 0 | 24 | 0 | 2.250 | 300 | 48 | 51 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 8 | 11 | 20% H ₂ O | | | | | | | | | | | | | | | | | | |
| 1315 | 5.04 | 1625 | 97 | 1530 | 0.0 | 0 | 24 | 0 | 2.250 | 300 | 48 | 51 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 9 | 11 | 6% CO ₂ | | | | | | | | | | | | | | | | | | |
| 1330 | 5.29 | 1625 | 97 | 1530 | 0.0 | 0 | 24 | 0 | 2.250 | 300 | 47 | 51 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | |
| 1345 | 5.54 | 1625 | 97 | 1530 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 46 | 51 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| 1400 | 5.79 | 1625 | 98 | 1530 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 46 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 12 | 11 | | | | | | | | | | | | | | | | | | | |
| 1415 | 6.04 | 1625 | 98 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 46 | 50 | 0.820 | 0.00 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 13 | 11 | 6.5% CO ₂ | | | | | | | | | | | | | | | | | | |
| 1430 | 6.29 | 1625 | 98 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 46 | 50 | 0.820 | 2.50 | 0 | 0.00 | 1.00 | 0.00 | 0.00 | |
| 14 | 11 | CL- 1500PPM | | | | | | | | | | | | | | | | | | |
| 1445 | 6.54 | 1625 | 98 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 310 | 45 | 50 | 0.820 | 7.50 | 60 | 57.40 | 1.00 | 0.00 | 0.00 | |
| 15 | 11 | | | | | | | | | | | | | | | | | | | |
| 1500 | 6.79 | 1625 | 99 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 47 | 50 | 0.820 | 13.00 | 60 | 57.40 | 1.00 | 0.00 | 0.00 | |
| 16 | 11 | | | | | | | | | | | | | | | | | | | |
| 1515 | 7.04 | 1625 | 99 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 46 | 50 | 0.820 | 18.50 | 60 | 57.40 | 1.00 | 0.00 | 0.00 | |
| 17 | 11 | 6% CO ₂ / CL- 1600PPM | | | | | | | | | | | | | | | | | | |
| 1530 | 7.29 | 1625 | 99 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 305 | 45 | 51 | 0.820 | 24.00 | 60 | 57.40 | 1.00 | 0.00 | 0.00 | |



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446356

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| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO. YR.) 11APR86 | PAGE 8 | OF 8 |
|--------------------------|--|--|--|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|------------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) --- |
|--|-------------------------|-------------------------------|----------------------------|------------------------------------|

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|--------------------------------------|---------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|---------------------------|--|--|---|---|

| TIME | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|---------------|--------------------------------------|---------------|--------|---------------|------|-----------|------------|--------------|--------------|-----------------------|--------------|--------------------|--|---------------------------|--------------|----------------------------|---|---------------------------|----------|----------------|--|
| | DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | | |
| 11 | | | | | | | | | | | | | 0.820 | 29.50 | 60 | | 1.00 | 0.00 | | | | |
| 1545 | 7.54 | 1625 | 99 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 310 | 45 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 211 | | | | | | | | | | | | | 0.820 | 35.00 | 60 | | 1.00 | 0.00 | | | | |
| 1600 | 7.79 | 1625 | 99 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 315 | 44 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 311 | | | | | | | | | | | | | 0.820 | 42.50 | 60 | | 1.00 | 0.00 | | | | |
| 1615 | 8.04 | 1625 | 100 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 320 | 42 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 411 | | 5.5% CO ₂ / CL - 1600PPM | | | | | | | | | | | 0.820 | 50.00 | 60 | | 1.00 | 0.00 | | | | |
| 1630 | 8.29 | 1625 | 100 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 320 | 42 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 511 | | | | | | | | | | | | | 0.820 | 57.50 | 60 | | 1.00 | 0.00 | | | | |
| 1645 | 8.54 | 1610 | 100 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 320 | 42 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 611 | | | | | | | | | | | | | 0.820 | 63.00 | 60 | | 1.00 | 0.00 | | | | |
| 1700 | 8.79 | 1625 | 100 | 1540 | 0.0 | 0 | 24 | 0 | 2.250 | 320 | 42 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 711 | | | | | | | | | | | | | 0.820 | 68.00 | 60 | | 1.00 | 0.00 | | | | |
| 1715 | 9.04 | 1625 | 100 | 1550 | 0.0 | 0 | 24 | 0 | 2.250 | 315 | 43 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 811 | | 6% CO ₂ / CL - 1600PPM | | | | | | | | | | | 0.820 | 73.50 | 60 | | 1.00 | 0.00 | | | | |
| 1730 | 9.29 | 1625 | 100 | 1550 | 0.0 | 0 | 24 | 0 | 2.250 | 310 | 44 | 52 | 0.000 | 0.00 | 0 | 57.40 | 15.0 | 0.00 | 0.00 | | | |
| 911 | | SHUT-IN AT DOWNHOLE SHUT-IN TOOL FOR | | | | | | | | | | | | | | | | | | | | |
| 1730 | 9.29 | 1625 | 100 | 1550 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 1011 | | INITIAL BUILDUP | | | | | | | | | | | | | | | | | | | | |
| 1730 | 9.29 | 1625 | 100 | 1550 | 0.0 | 0 | 24 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | |

Computer-Forma Toppan Itasca



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446357

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| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 11APR86 | PAGE 1 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN | (64TH) IN | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 11 | PRESSURE MAINTAINED AT WELLHEAD WHILE SHUT-IN | | | | | | | | | | | | | | | | | | 1 |
| 1731 | 0.00 | 1600 | 100 | 1570 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | |
| 1732 | 0.01 | 1600 | 100 | 1570 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | |
| 1733 | 0.03 | 1600 | 100 | 1570 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 11 | | | | | | | | | | | | | | | | | | | |
| 1734 | 0.04 | 1600 | 100 | 1570 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | |
| 1735 | 0.06 | 1590 | 99 | 1570 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 11 | | | | | | | | | | | | | | | | | | | |
| 1736 | 0.08 | 1580 | 98 | 1560 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 11 | | | | | | | | | | | | | | | | | | | |
| 1737 | 0.09 | 1580 | 96 | 1550 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | |
| 1738 | 0.11 | 1580 | 95 | 1540 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | |
| 1739 | 0.13 | 1580 | 94 | 1540 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | | | | | | | | | | |
| 1740 | 0.14 | 1580 | 93 | 1540 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | |
| 1745 | 0.23 | 1575 | 85 | 1530 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 11 | | | | | | | | | | | | | | | | | | | |
| 1800 | 0.48 | 1550 | 75 | 1500 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 11 | | | | | | | | | | | | | | | | | | | |
| 1815 | 0.73 | 1550 | 70 | 1480 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 11 | | | | | | | | | | | | | | | | | | | |
| 1830 | 0.98 | 1550 | 65 | 1440 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 15 | 11 | | | | | | | | | | | | | | | | | | | |
| 1845 | 1.23 | 1550 | 63 | 1430 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 11 | | | | | | | | | | | | | | | | | | | |
| 1900 | 1.48 | 1550 | 60 | 1430 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 11 | SHUT-IN AT DOWNHOLE SHUT-IN TOOL AND | | | | | | | | | | | | | | | | | | 17 |
| 2300 | 5.48 | 1500 | 0 | 1420 | 0.0 | 0 | 0 | 0 | | | | | | | | | | | | |

Computer-Fore Toppan Home



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446358

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| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 11APR86 | PAGE 2 | OF 5 |
|--------------------------|--|--|--|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|-------------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|-------------------------------------|

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|--------------------------------------|---------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|---------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | | |
|---------------|--------------------------|---|-------|---------------|---------------|-------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|--|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | B H P | B H T | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH) IN) | (64TH) IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | |
| 1 | 11 | CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | | 1 |
| 2300 | 5.48 | 1500 | 0 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 2 | 11 | OPENED DOWNHOLE SHUT-IN TOOL | | | | | | | | | | | | | | | | | | | 2 |
| 2307 | 5.59 | 1525 | 55 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | | 3 |
| 2308 | 5.61 | 1575 | 55 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 4 | 11 | | | | | | | | | | | | | | | | | | | | 4 |
| 2309 | 5.63 | 1725 | 55 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 5 | 11 | | | | | | | | | | | | | | | | | | | | 5 |
| 2310 | 5.64 | 1825 | 55 | 1420 | 0.0 | 0 | 0 | | | | | | | | | | | | | | |
| 6 | 11 | OPENED THROUGH CHOKE MANIFOLD FOR 2ND FLOW ON | | | | | | | | | | | | | | | | | | | 6 |
| 2311 | 5.66 | 1875 | 57 | 1420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 7 | 11 | 16/64" ADJUSTABLE CHOKE | | | | | | | | | | | | | | | | | | | 7 |
| 2311 | 5.66 | 1875 | 57 | 1420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 8 | 11 | | | | | | | | | | | | | | | | | | | | 8 |
| 2312 | 0.01 | 1745 | 50 | 1420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 9 | 11 | | | | | | | | | | | | | | | | | | | | 9 |
| 2313 | 0.03 | 1850 | 60 | 1420 | 0.0 | 0 | 16 | | | | | | | | | | | | | | |
| 10 | 11 | INCREASED CHOKE GRADUALLY | | | | | | | | | | | | | | | | | | | 10 |
| 2314 | 0.04 | 1980 | 62 | 1420 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | | | | | | | | | | | 11 |
| 2315 | 0.06 | 2025 | 64 | 1420 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 12 | 11 | DRY GAS FLOWED BACK | | | | | | | | | | | | | | | | | | | 12 |
| 2320 | 0.14 | 2170 | 65 | 1440 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 13 | 11 | | | | | | | | | | | | | | | | | | | | 13 |
| 2325 | 0.23 | 2100 | 65 | 1450 | 0.0 | 0 | 24 | | | | | | | | | | | | | | |
| 14 | 11 | | | | | | | | | | | | | | | | | | | | 14 |
| 2330 | 0.31 | 1475 | 83 | 1460 | 0.0 | 0 | 40 | | | | | | | | | | | | | | |
| 15 | 11 | CONDENSATE AND GAS | | | | | | | | | | | | | | | | | | | 15 |
| 2335 | 0.39 | 1350 | 85 | 1460 | 0.0 | 0 | 40 | | | | | | | | | | | | | | |
| 16 | 11 | | | | | | | | | | | | | | | | | | | | 16 |
| 2340 | 0.48 | 1110 | 90 | 1470 | 0.0 | 0 | 48 | | | | | | | | | | | | | | |
| 17 | 11 | | | | | | | | | | | | | | | | | | | | 17 |
| 2345 | 0.56 | 850 | 92 | 1480 | 0.0 | 0 | 56 | | | | | | | | | | | | | | |

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FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446359

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| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 11APR86 | PAGE 3 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

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|--|-------------------------|-------------------------------|----------------------------|---------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) -- |
|--|-------------------------|-------------------------------|----------------------------|---------------------------------|

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|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | | DOWNHOLE DATA | | | | FLOW CONTROL | | | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | |
|---------------|--------------------------|----------------------------|-------|---------------|--------|---------------|------------|--------------|--------------|---------------|-------------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|------|----|----------------|--|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | | | | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | | | | |
| 1 | 11 | | | | | | | | | | | | | | | | | | | 1 | | | |
| 2350 | 0.64 | 600 | 95 | 150 | 0.0 | 0 | 68 | | | | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | 2 | | | |
| 2355 | 0.73 | 466 | 96 | 1480 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 3 | 11 | | | | | | | | | | | | | | | | | | | 3 | | | |
| 2400 | 0.81 | 430 | 96 | 1480 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 4 | 12 | | | | | | | | | | | | | | | | | | | 4 | | | |
| 0015 | 1.06 | 395 | 96 | 1500 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 5 | 12 | CO2=4% / 40% WATER / CL- | | | | 2500PPM | | | | | | | | | | | | | | | 5 | | |
| 0030 | 1.31 | 500 | 113 | 1520 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 6 | 12 | UNSTABLE WELLHEAD PRESSURE | | | | | | | | | | | | | | | | | | | 6 | | |
| 0045 | 1.56 | 470 | 115 | 1510 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 7 | 12 | 60% WATER / CL- | | | | 2500PPM | | | | | | | | | | | | | | | 7 | | |
| 0045 | 1.56 | 470 | 115 | 1510 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 8 | 12 | CO2=6% / 75% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 8 | | |
| 0100 | 1.81 | 470 | 115 | 1500 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 9 | 12 | 60% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 9 | | |
| 0115 | 2.06 | 440 | 118 | 1500 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 10 | 12 | 65% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 10 | | |
| 0130 | 2.31 | 470 | 120 | 1530 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 11 | 12 | 65% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 11 | | |
| 0145 | 2.56 | 495 | 120 | 1530 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 12 | 12 | CO2=7% / 60% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 12 | | |
| 0200 | 2.81 | 490 | 122 | 1550 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 13 | 12 | 50% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 13 | | |
| 0215 | 3.06 | 490 | 123 | 1570 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 14 | 12 | CO2=9% / 55% WATER / CL- | | | | 3000PPM | | | | | | | | | | | | | | | 14 | | |
| 0230 | 3.31 | 510 | 124 | 1600 | 0.0 | 0 | 96 | | | | | | | | | | | | | | | | |
| 15 | 12 | 70% WATER / CL- | | | | 3000PPM | | | | | | | | 0.820 | 8.00 | 0 | | 1.00 | 0.00 | | 15 | | |
| 0245 | 3.56 | 525 | 125 | 1500 | 0.0 | 0 | 96 | 0 | 2.750 | 385 | 42 | 100 | 0.000 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 16 | 12 | 70% WATER / CL- | | | | 3000PPM | | | | | | | | 0.820 | 18.50 | 60 | | 1.00 | 0.00 | | 16 | | |
| 0300 | 3.81 | 535 | 125 | 1500 | 0.0 | 0 | 96 | 0 | 2.750 | 380 | 45 | 100 | 0.000 | 0.00 | 0 | 57.40 | 70.0 | 0.00 | 0.00 | | | | |
| 17 | 12 | 65% WATER / CL- | | | | 3000PPM | | | | | | | | 0.820 | 29.50 | 60 | | 1.00 | 0.00 | | 17 | | |
| 0315 | 4.06 | 530 | 125 | 1500 | 0.0 | 0 | 96 | 0 | 2.750 | 380 | 43 | 100 | 0.000 | 0.00 | 0 | 57.40 | 65.0 | 0.00 | 0.00 | | | | |

Computer-Forma Tongan (Phone)



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446360

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|--------------------------|--|--|--|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY, MO, YR.) 12APR86 | PAGE 4 | OF 5 |
|--------------------------|--|--|--|------------------|----------------|

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|---|-------------------------|-------------------------------|----------------------------|------------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM, CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBL) --- |
|---|-------------------------|-------------------------------|----------------------------|------------------------------------|

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|--------------------------------------|---------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|---------------------------|--|--|---|---|

| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-----------------------|-------|---------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 12 | 65% WATER / CL- | | | 3000PPM | | | | | | | | 1 | 0.820 | 41.00 | 60 | 1.00 | 0.00 | 1 | |
| 0330 | 4.31 | 520 | 126 | 1500 | 0.0 | 0 | 96 | 0 | 2.750 | 380 | 42 | 100 | 0.000 | 0.00 | 0 | 57.40 | 55.0 | 0.00 | 0.00 | |
| 2 | 12 | 65% WATER / CL- | | | 3000PPM | | | | | | | | 2 | 0.820 | 52.50 | 60 | 1.00 | 0.00 | 2 | |
| 0345 | 4.56 | 525 | 127 | 1510 | 0.0 | 0 | 96 | 0 | 2.750 | 375 | 43 | 100 | 0.000 | 0.00 | 0 | 57.40 | 65.0 | 0.00 | 0.00 | |
| 3 | 12 | 60% WATER / CL- | | | 3000PPM | | | | | | | | 3 | 0.820 | 64.00 | 60 | 1.00 | 0.00 | 3 | |
| 0400 | 4.81 | 525 | 129 | 1520 | 0.0 | 0 | 96 | 0 | 2.750 | 380 | 43 | 100 | 0.000 | 0.00 | 0 | 57.40 | 60.0 | 0.00 | 0.00 | |
| 4 | 12 | SHUT-IN WELL BY DOWNHOLE SHUT-IN TOOL AND | | | | | | | | | | | | | | | | | | 4 |
| 0407 | 4.93 | 675 | 130 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 5 | 12 | CHOKE MANIFOLD | | | | | | | | | | | | | | | | | | 5 |
| 0407 | 4.93 | 675 | 130 | 1520 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 6 | 12 | | | | | | | | | | | | | | | | | | | 6 |
| 0408 | 0.01 | 675 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 7 | 12 | | | | | | | | | | | | | | | | | | | 7 |
| 0409 | 0.03 | 675 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 8 | 12 | | | | | | | | | | | | | | | | | | | 8 |
| 0410 | 0.04 | 675 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 9 | 12 | PRESSURE MAINTAINED AT SURFACE WHILE | | | | | | | | | | | | | | | | | | 9 |
| 0415 | 0.13 | 675 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 10 | 12 | SHUT-IN DOWNHOLE | | | | | | | | | | | | | | | | | | 10 |
| 0415 | 0.13 | 675 | 0 | 1510 | 0.0 | 0 | 0 | | | | | | | | | | | | | |
| 11 | 12 | SCHLUMBERGER PULLED OUT OF HOLE WITH HP GAUGE | | | | | | | | | | | | | | | | | | 11 |
| 0700 | 2.88 | | | | | | | | | | | | | | | | | | | 11 |
| 12 | 12 | BLED OFF LUBRICATOR | | | | | | | | | | | | | | | | | | 12 |
| 0750 | 3.71 | | | | | | | | | | | | | | | | | | | 12 |
| 13 | 12 | PRESSURED ANNULUS TO SHEAR LPR-M2 AND | | | | | | | | | | | | | | | | | | 13 |
| 0932 | 5.41 | | | | | | | | | | | | | | | | | | | 13 |
| 14 | 12 | REVERSED OUT THROUGH BURNER | | | | | | | | | | | | | | | | | | 14 |
| 0932 | 5.41 | | | | | | | | | | | | | | | | | | | 14 |
| 15 | 12 | MUD RETURNED - CIRCULATED TO PITS | | | | | | | | | | | | | | | | | | 15 |
| 0950 | 5.71 | | | | | | | | | | | | | | | | | | | 15 |
| 16 | 12 | RIGGED DOWN SURFACE EQUIPMENT | | | | | | | | | | | | | | | | | | 16 |
| 1400 | 9.88 | | | | | | | | | | | | | | | | | | | 16 |
| 17 | 12 | CONTINUED CIRCULATING TO CONDITION MUD | | | | | | | | | | | | | | | | | | 17 |
| 1400 | 9.88 | | | | | | | | | | | | | | | | | | | 17 |

Computer Form Toppan Dime



FIELD READINGS
SINGLE STAGE UNIT
OEC - 905-1-A

446361

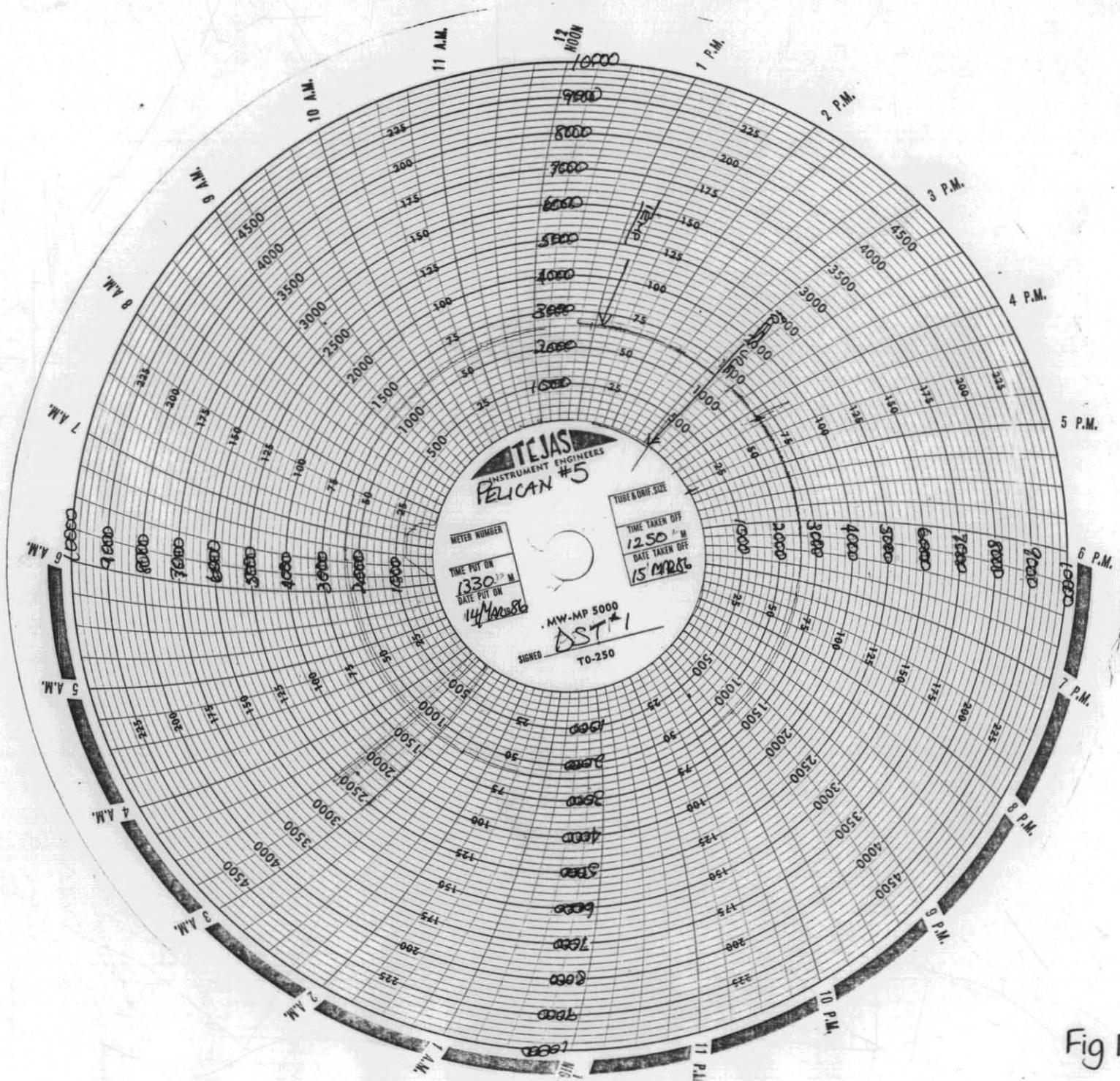
| | | | | | |
|--------------------------|--|--|---------------------------------------|------------------|----------------|
| TEST NO. DST#6 | WELL NAME OR NUMBER PELICAN #5 | TEST UNIT DESCRIPTION 1440PSI 3PHASE SEPARATOR | DATE (DAY. MO. YR.) 12APR86 | PAGE 5 | OF 5 |
|--------------------------|--|--|---------------------------------------|------------------|----------------|

| | | | | |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|
| CUSTOMER AMOCO AUSTRALIA PETROLEUM.CO. | FIELD PELICAN | FORMATION SANDSTONE | OIL METER SIZE 0 | METER RANGE (BBLs) --- |
|--|-------------------------|-------------------------------|----------------------------|----------------------------------|

| | | | | | |
|--------------------------------------|------------------------|--|--|---|---|
| INTERVAL TESTED 2786-2790M | BHP SURVEY DEPTH (FT.) | GAS PRODUCED TO <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE | GAS METER RUN SIZE 5.761 (INS) | DIFF. RANGE (INS. H ₂ O) 0-100 | STATIC PRESSURE TAKEN <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |
|--------------------------------------|------------------------|--|--|---|---|

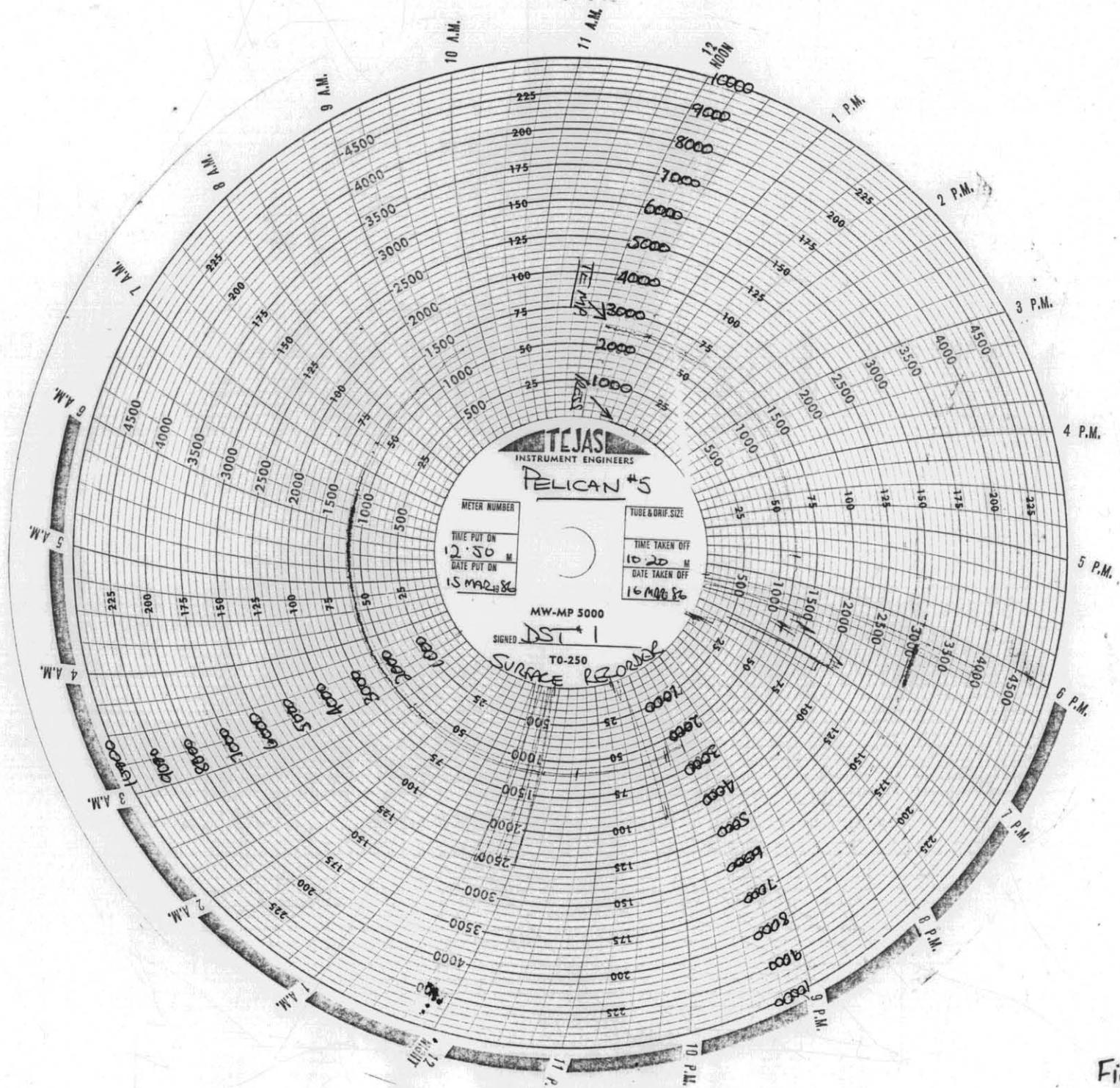
| TIME | | WELLHEAD DATA | | | DOWNHOLE DATA | | FLOW CONTROL | | GAS METERING | | | | OIL OR CONDENSATE METERING | | | | WATER METERING | | | |
|---------------|--------------------------|---|-------|---------------|---------------|------|--------------|--------------|--------------|---------------|-------------------------|-------|----------------------------|--|-------------------|-------------|----------------|---|----------|----|
| DAY | FLOW OR SHUT-IN DURATION | TUBING PRESS. | TEMP. | CASING PRESS. | BHP | BHT | MAN. CHOKE | HEATER CHOKE | ORIFICE SIZE | STATIC PRESS. | DIFF. PRESS. | TEMP. | GAS GRAVITY (AIR=1) | # 1 TANK OR METER READING | # 1 OIL TEMP | OIL GRAVITY | W _i | # 1 TANK OR METER READING | SALINITY | |
| 24 HOUR CLOCK | (HOURS) | (PSIG) | (°F) | (PSIG) | (PSIG) | (°F) | (64TH IN) | (64TH IN) | (INS) | (PSIG) | (IN H ₂ O) | (°F) | % H ₂ S | # 2 TANK OR METER READING (INS OR BBL) | # 2 OIL TEMP (°F) | @ 60°F °API | BSW (%) | # 2 TANK OR METER READING (INS. OR BBL) | (%) | |
| 1 | 12 | PULLED OUT OF HOLE WITH TEST STRING | | | | | | | | | | | | | | | | | | 1 |
| | 2115 17.13 | | | | | | | | | | | | | | | | | | | |
| 2 | 12 | BROKE OUT SUBSEA TEST TREE ENDED DST #6 | | | | | | | | | | | | | | | | | | 2 |
| | 2130 17.38 | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | 17 |

Computer Form Toppan (Hore)



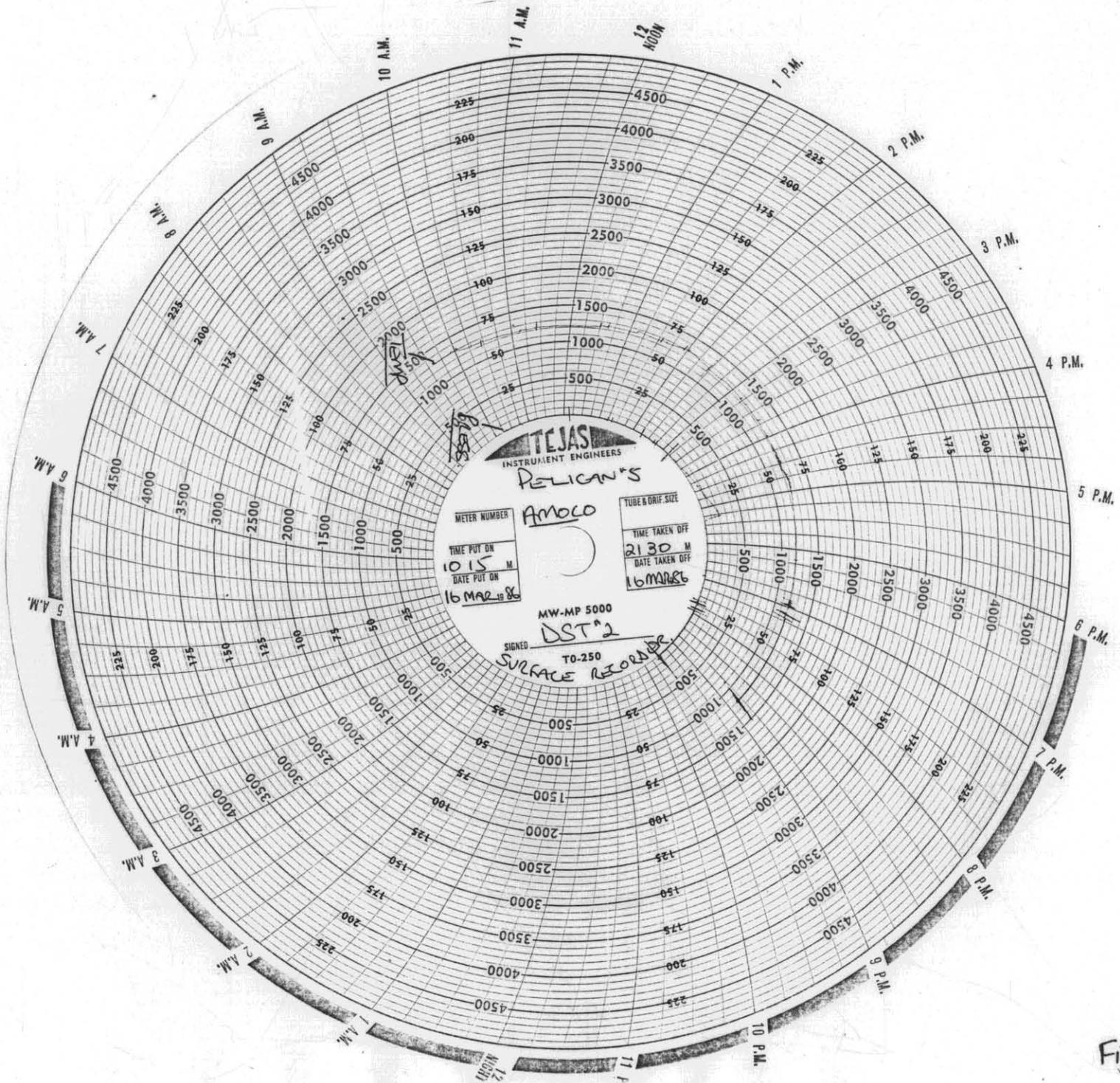
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Fig 1



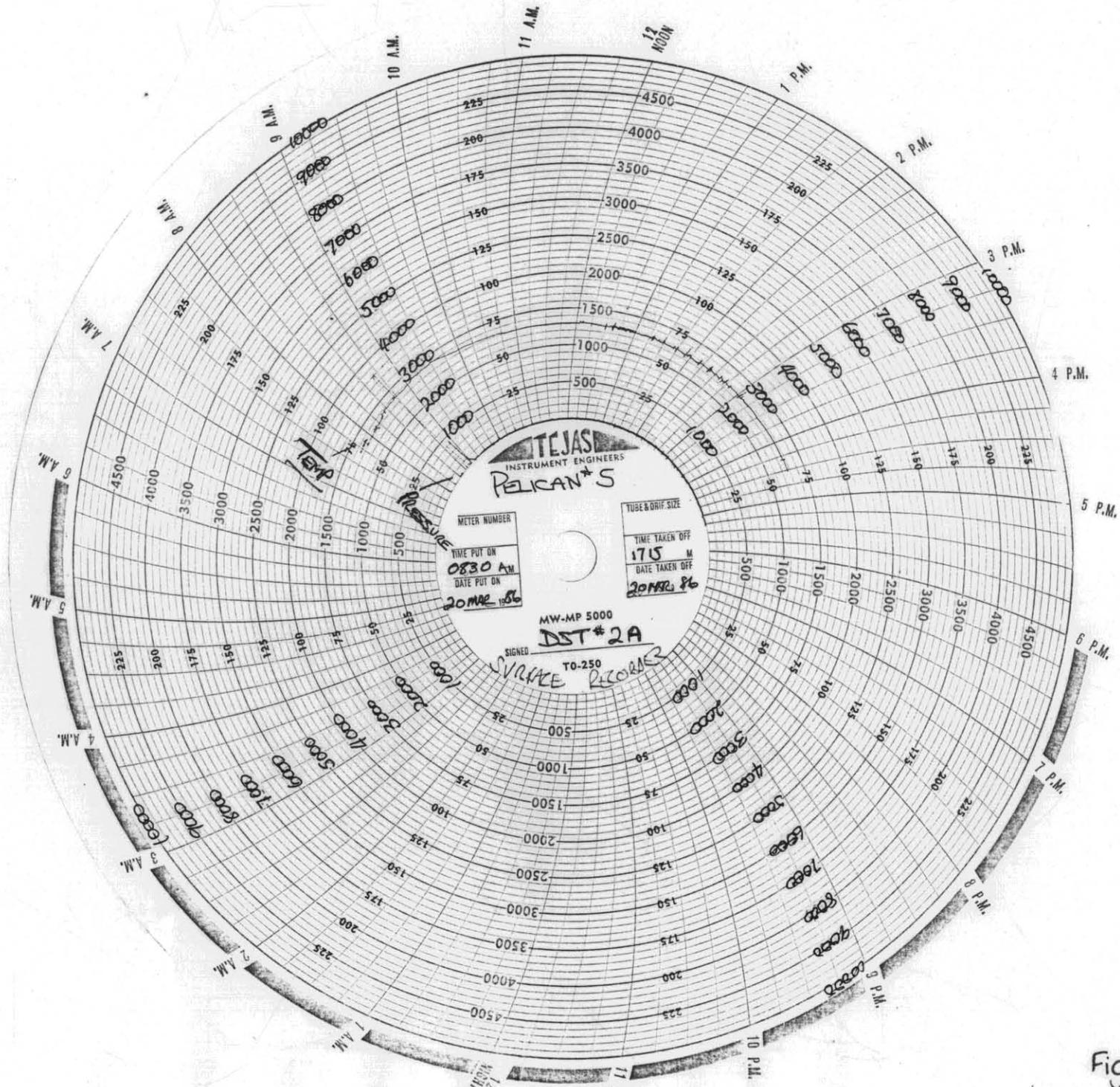
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Fig 2



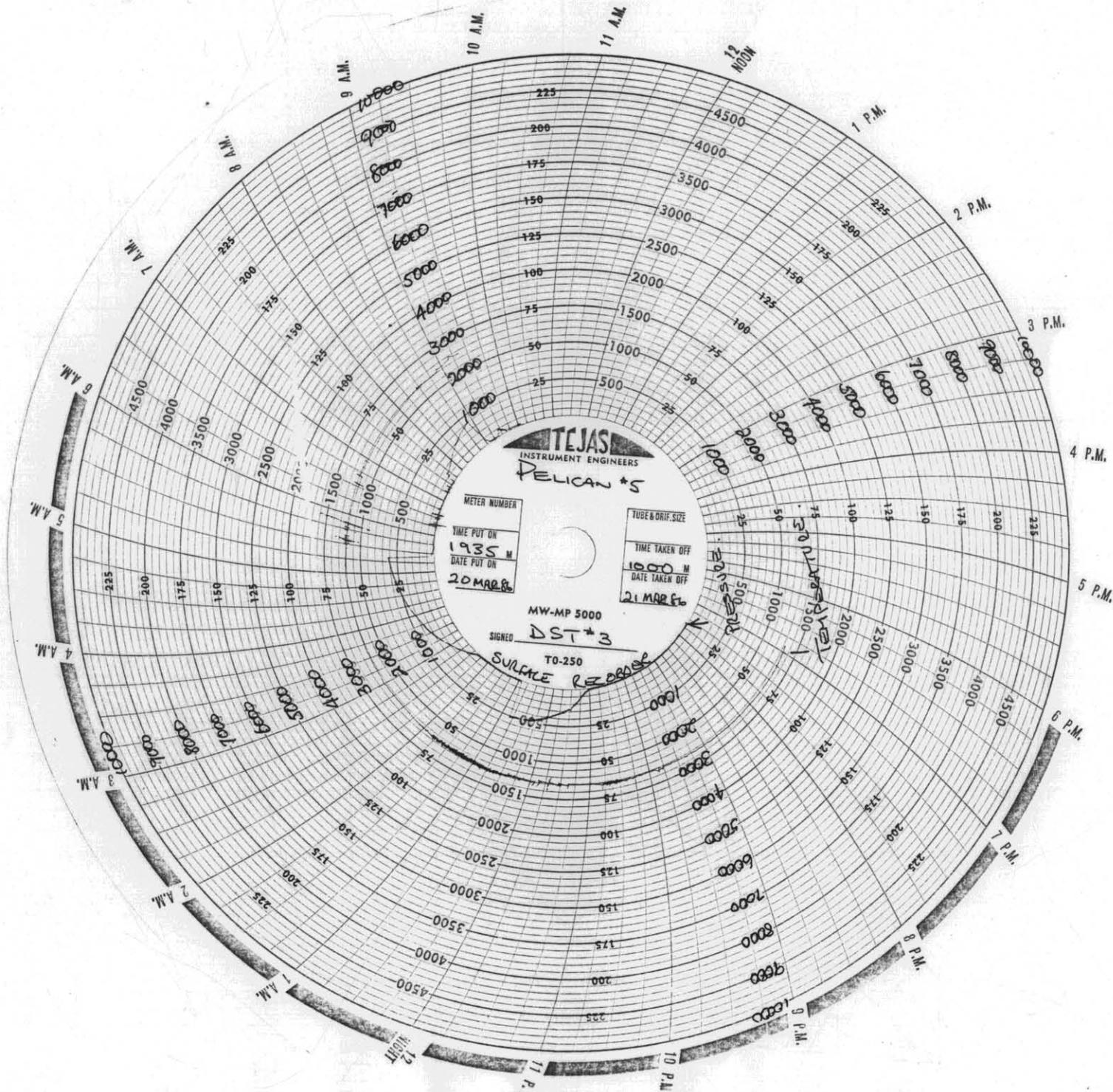
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Fig 3



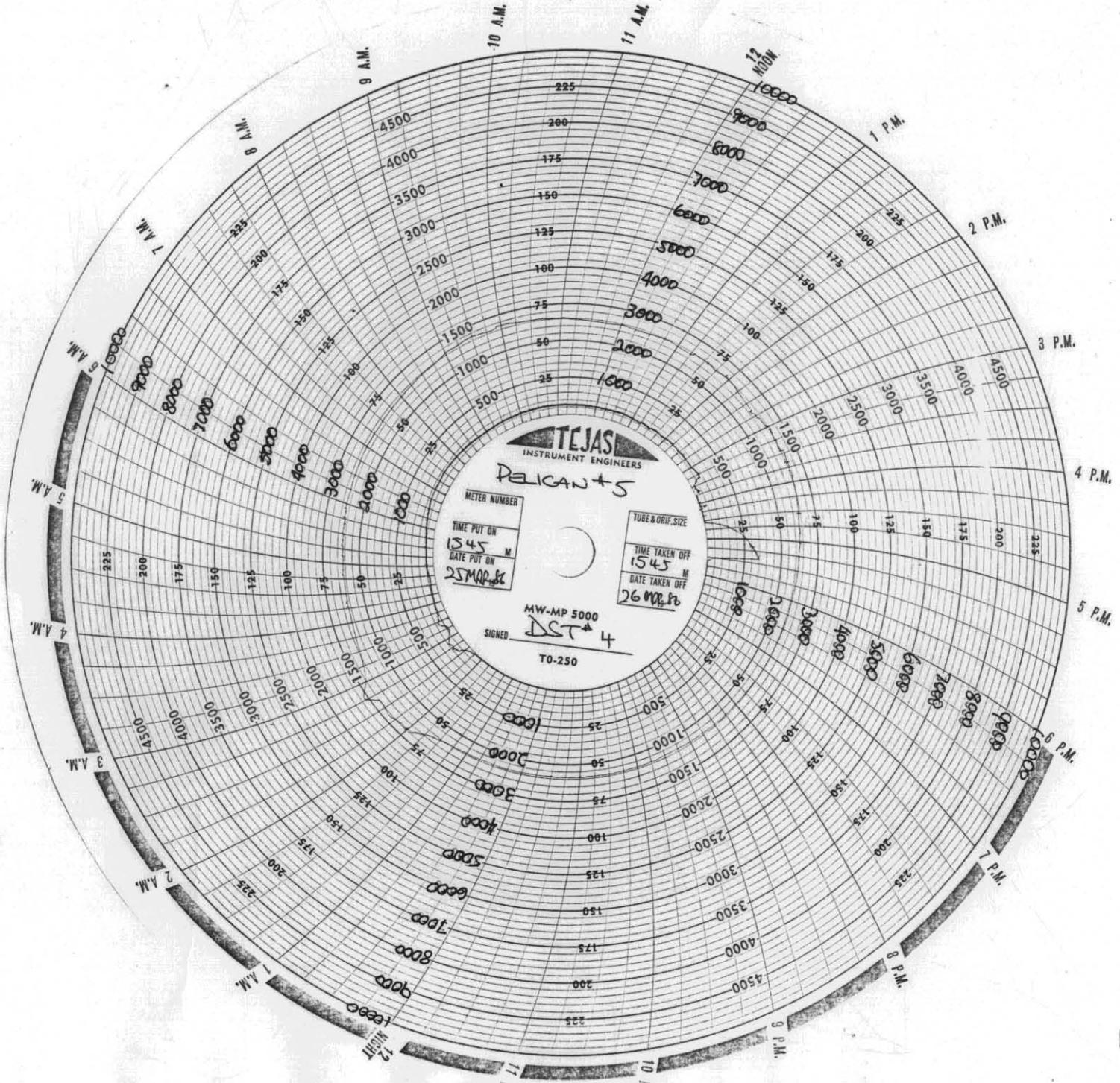
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Fig 4.



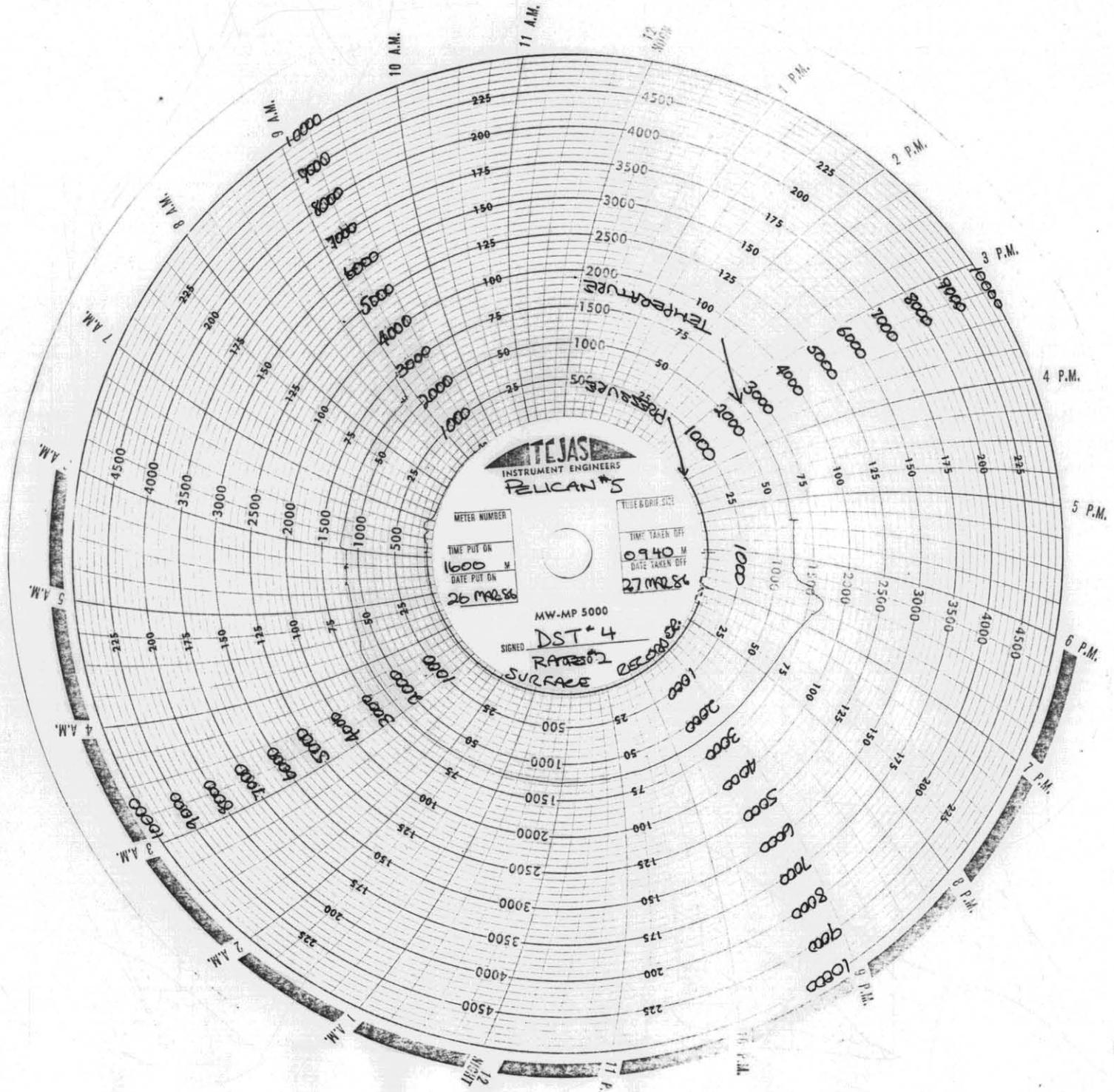
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Fig 5



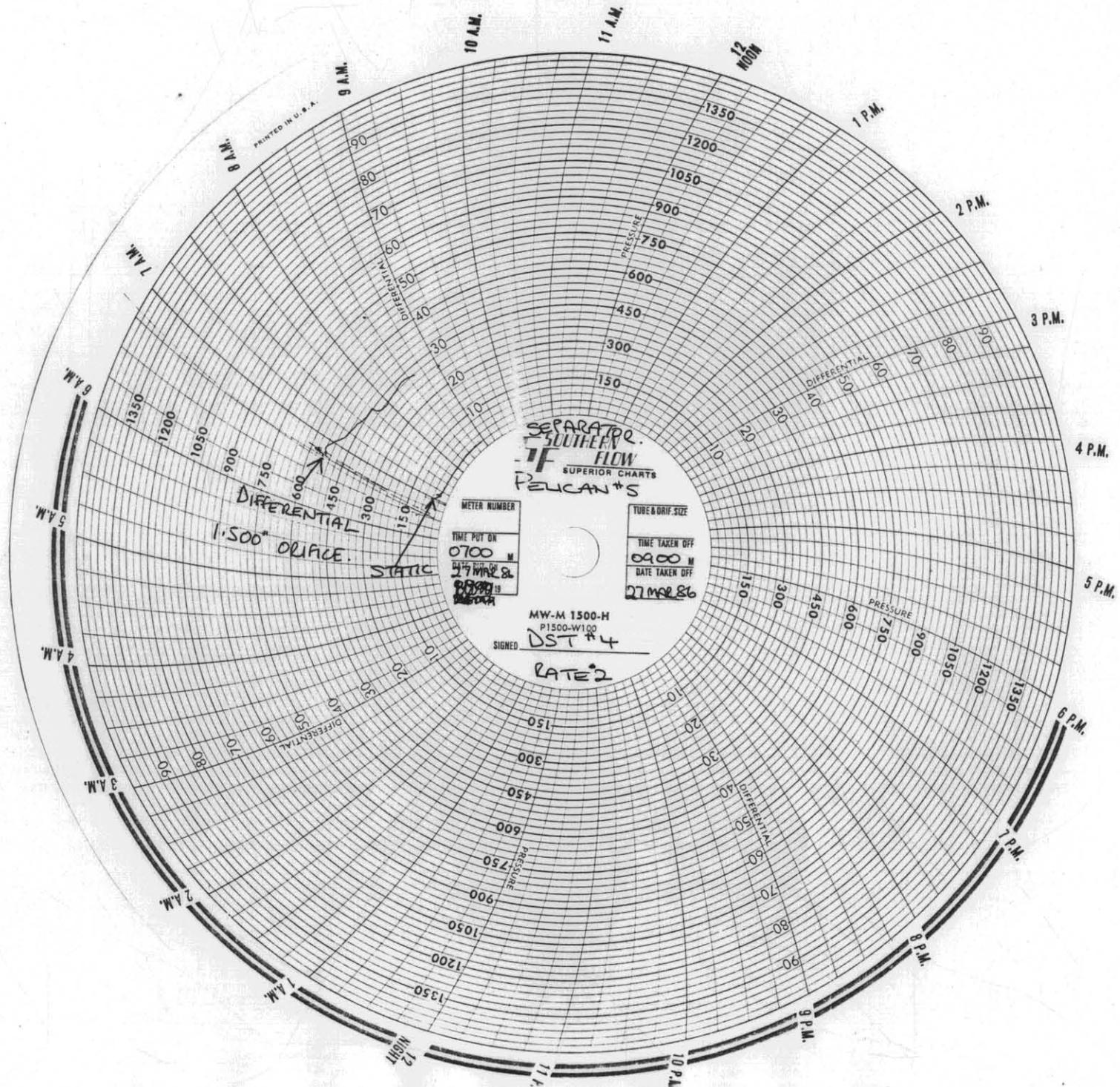
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Fig 6



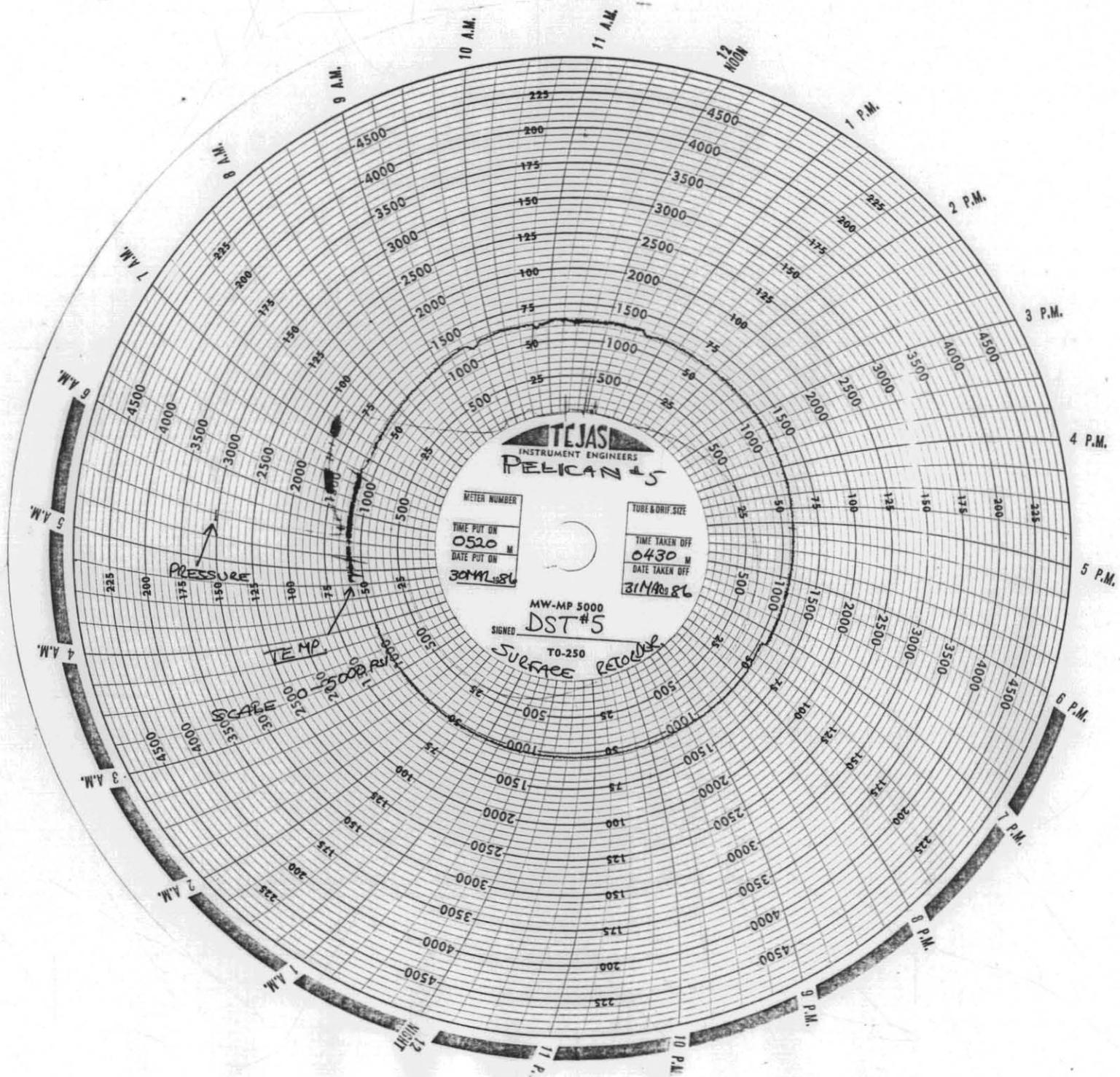
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Fig 8



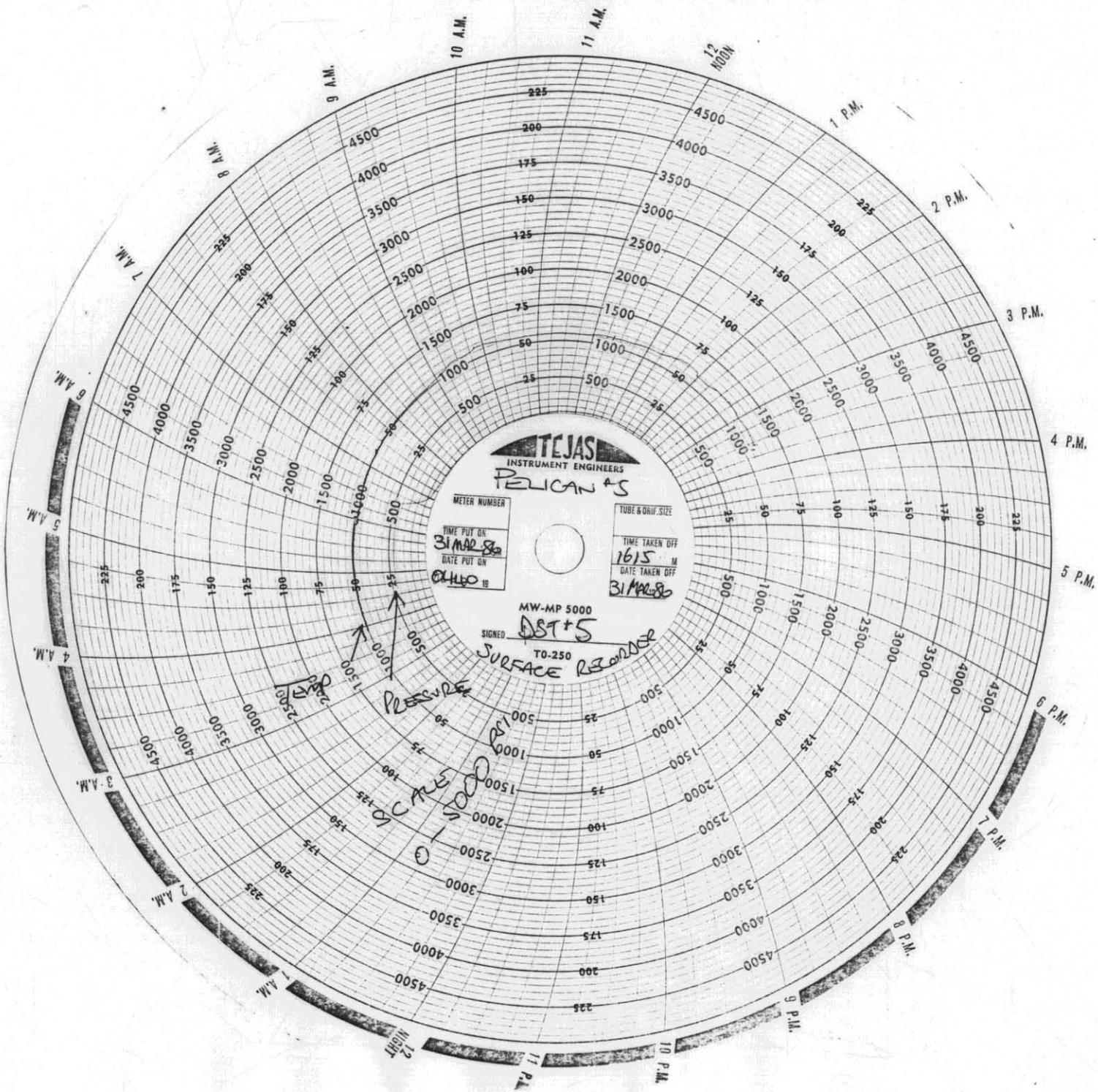
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Fig 9



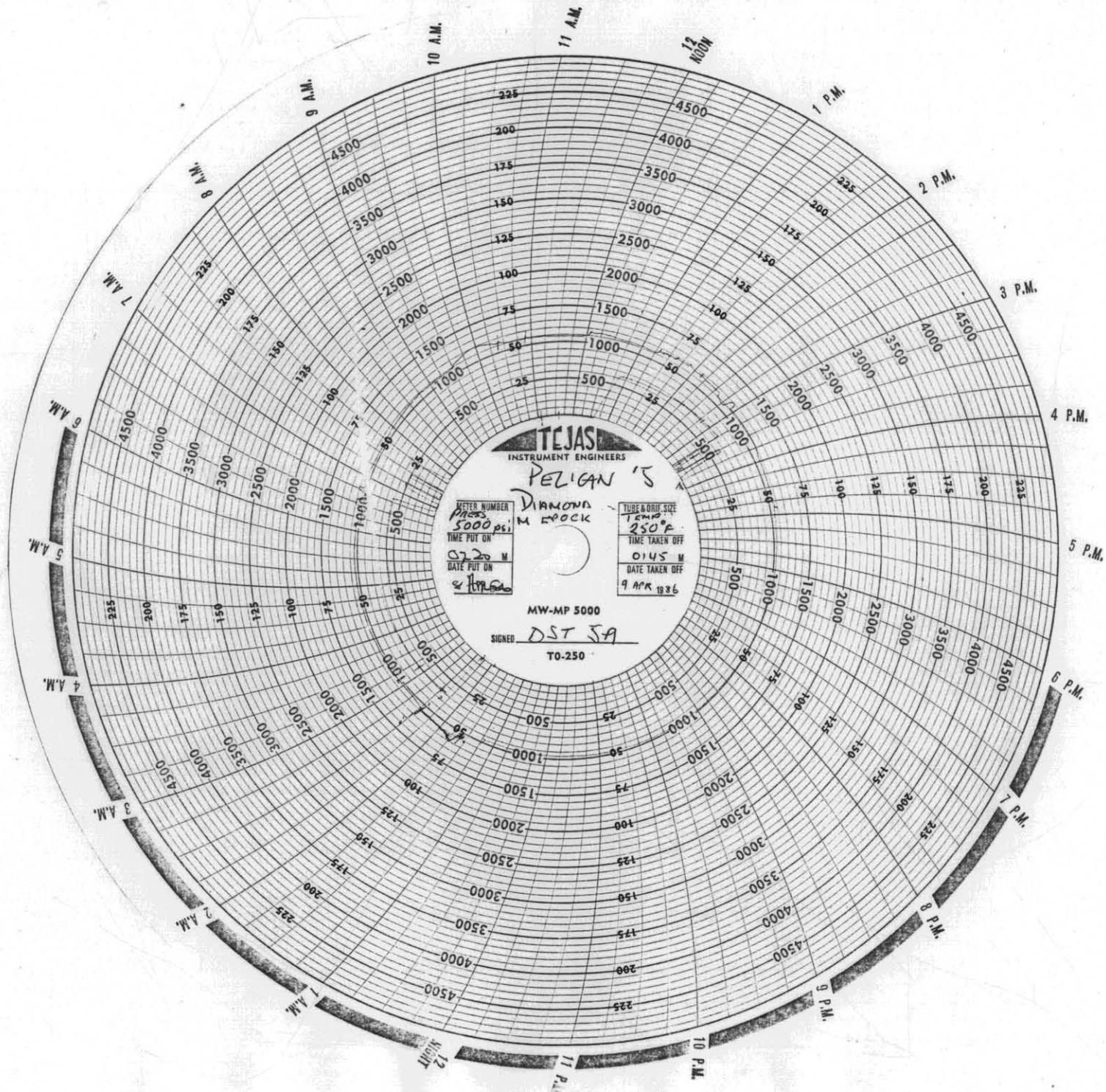
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Fig 10



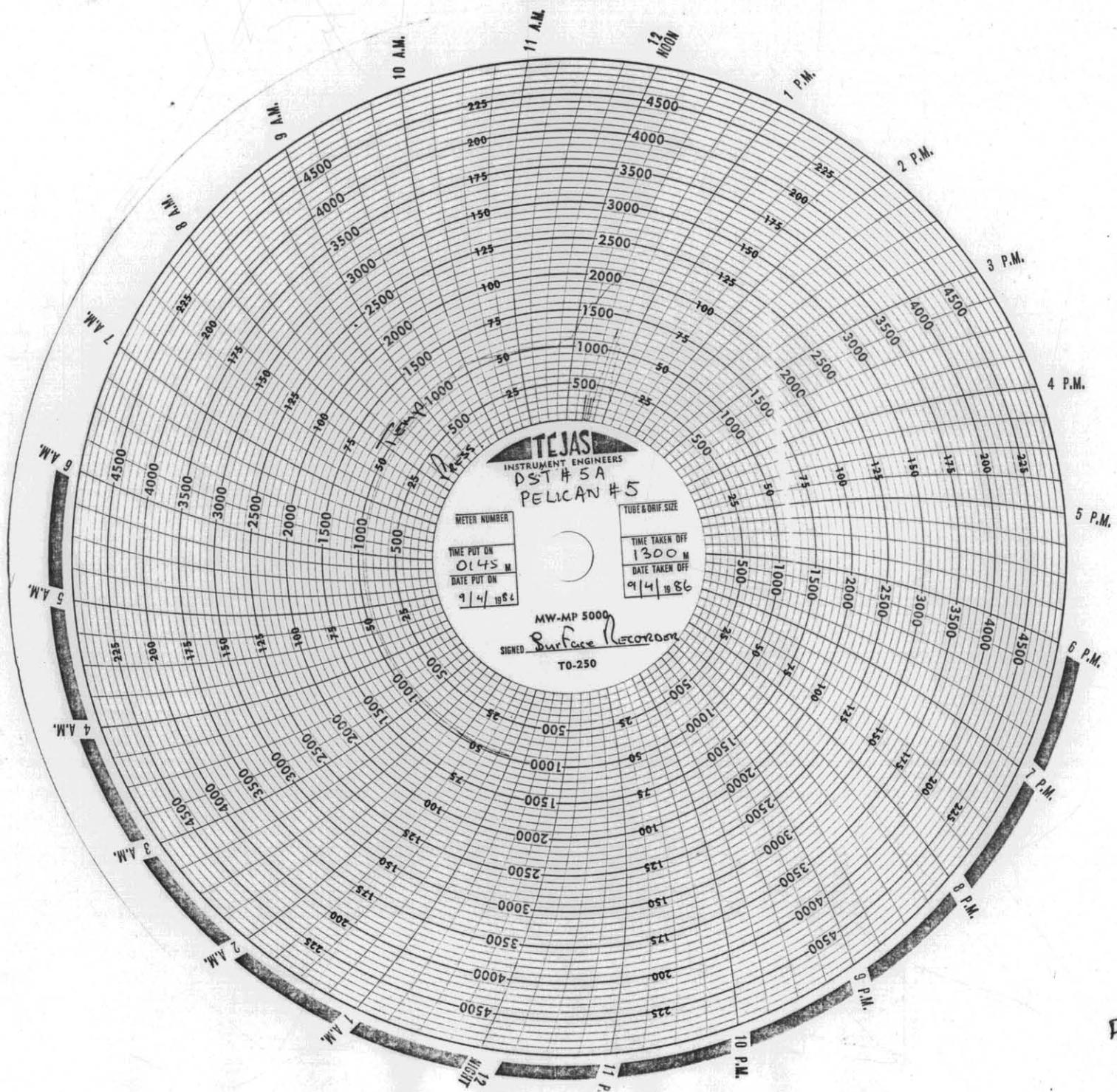
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Fig 11



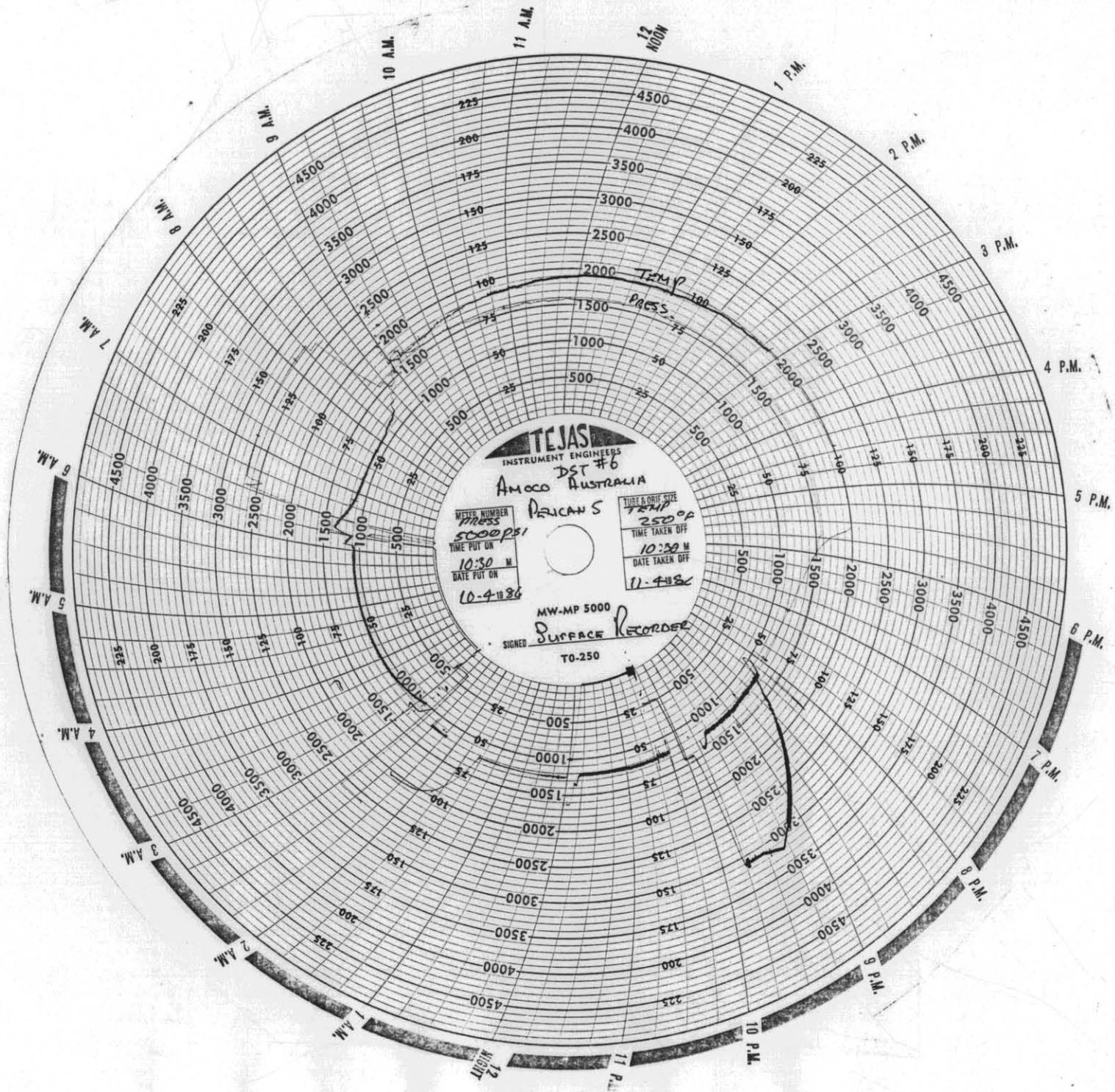
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Fig 12



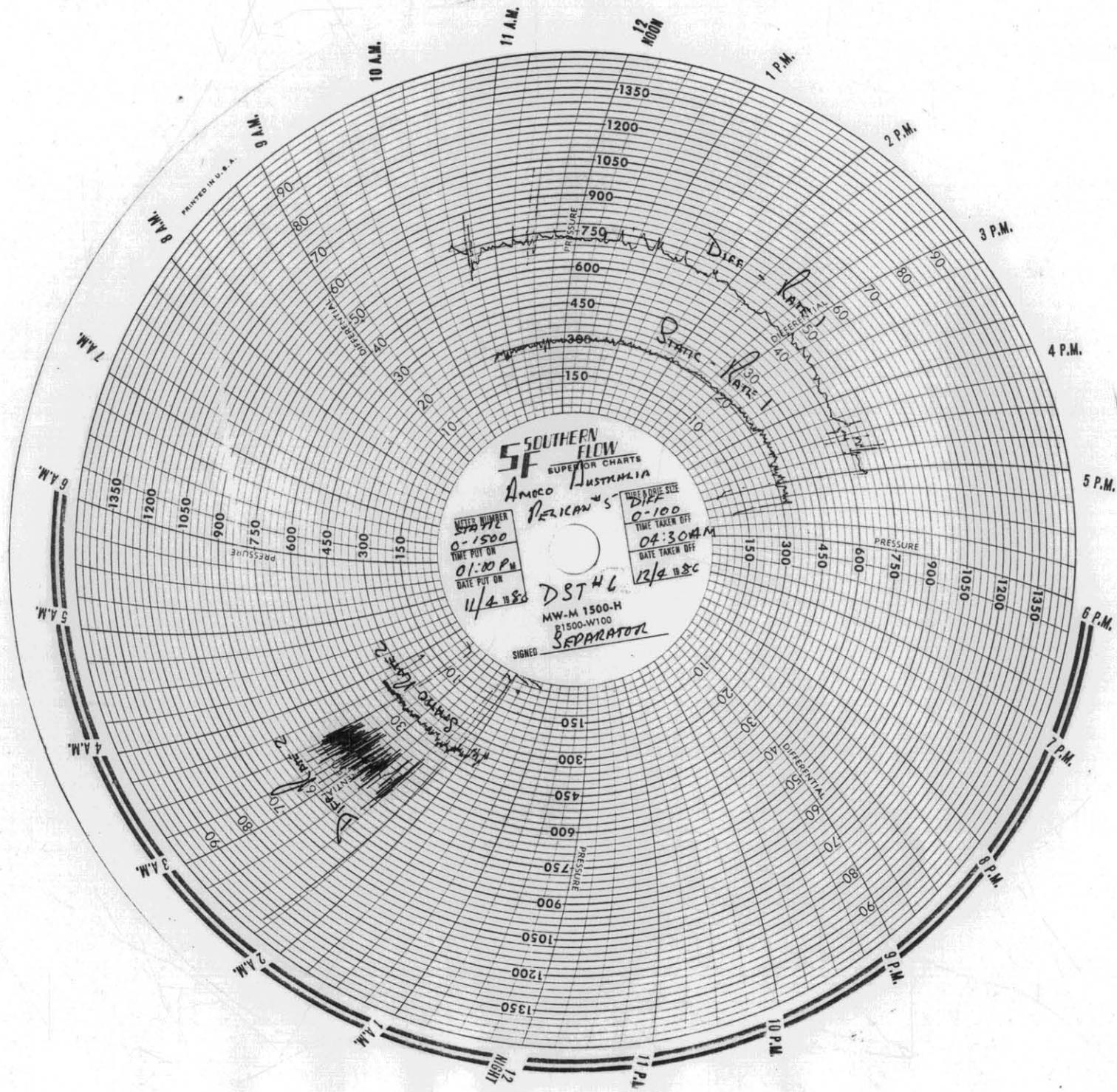
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Fig 13



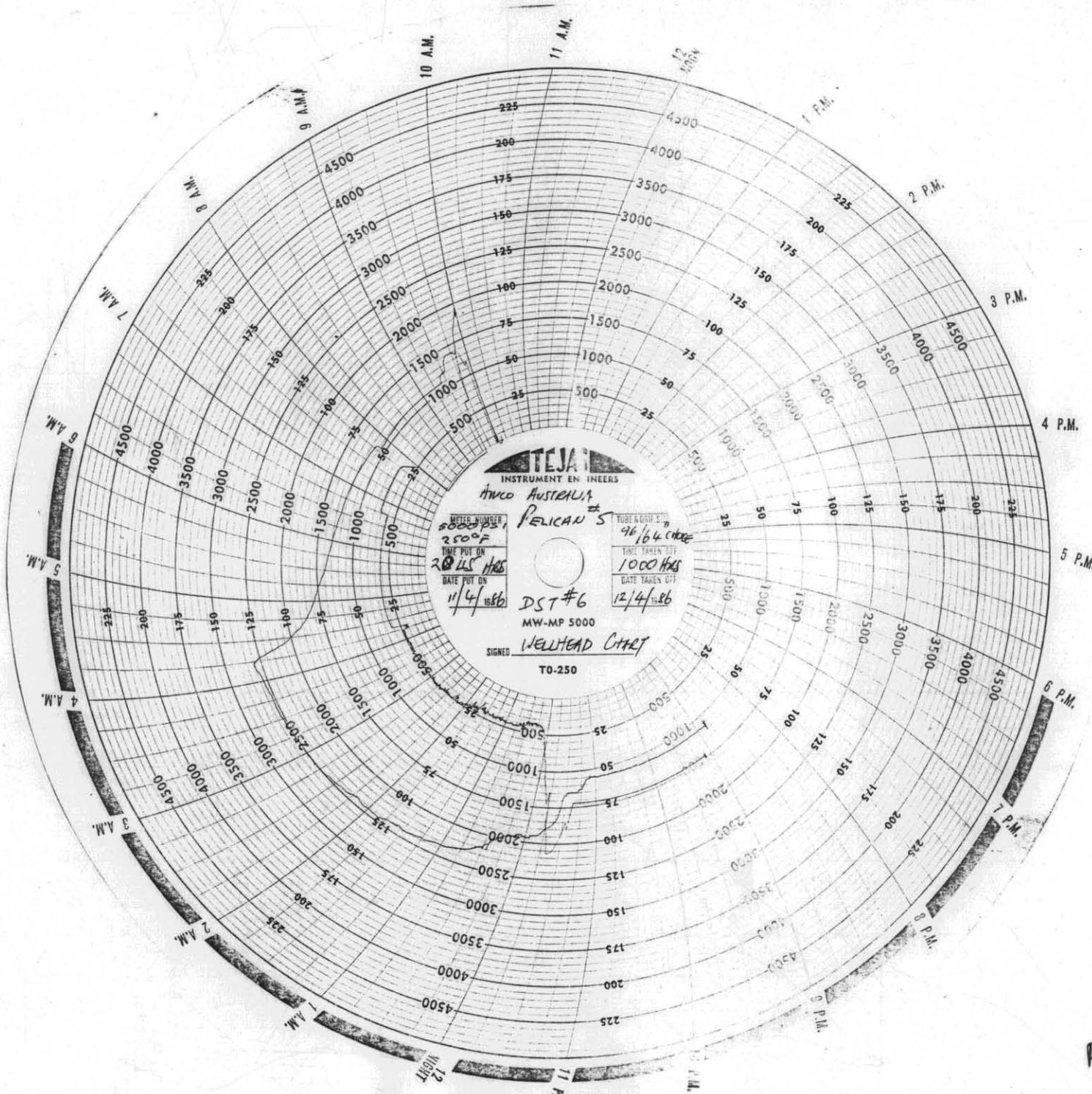
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Fig 14



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Fig 15



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Fig 16