

PETROFINA EXPLORATION AUSTRALIA S. A.

PETROLEUM DIVISION

27 NOV 1989



ANEMONE - 1 / 1A

FINAL WELL REPORT (VOLUME 2 : TESTING)

DEPT. NAT. RES & ENV



PE903142



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PETROLEUM DIVISION

A N E M O N E - 1/1A

27 NOV 1989

F I N A L W E L L R E P O R T

(VOLUME II)

Prepared by: Bruno de Vinck

November 1989

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V O L U M E I I

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DST #1

ANEMONE-1A

DST 1 TRANSIENT PRESSURE TESTING

The perforated intervals 4599-4629 mkb and 4618 - 4652 mkb were tested as indicated in Figure 1.

The main results are summarised in Table 1 but some comments should be added.

1. Initial Pressure:

The initial reservoir pressure at 4600m is estimated between 9600 and 9900 psi. Because the static gradient below the pressure gauges at the time of the first shut-in is unknown it is not possible to estimate the initial pressure with more precision.

The equivalent mud density required to balance this pressure would be 1.47 to 1.52 gr/cc. Therefore the reservoir was, at least partially, drilled underbalanced if all the sands had the same equivalent pressure. This could explain the high gas content in the mud and to a certain extent could be the reason for the largely washed out hole.

2. Formation Permeability and Skin

All the interpretations were carried out assuming gas condensate bearing sands and consequently the gas pseudo-pressure function, $m(p)$ was used.

A test was done with the main build-up, by assuming a volatile oil reservoir, and a permeability of 0.08 md was obtained from the Horner type plot.

It must be emphasized that the permeabilities and skin factors listed in Table 1 should be read as order of magnitude. Due to the very low permeability the time required to reach the infinite acting region was very long. However, the derivative analysis seems to confirm that the permeability is around 0.2 md.

Any turbulence effect was neglected. That effect is significant in low permeability formations but in this case the rate is small.

The calculated skins vary from slightly negative (-0.3 and -2.6; in semi-log and Horner plots of last build-up) to around 8 to 9 in the derivative plots. We think that the last figures are more reliable as the permeability reduction close to the wellbore due to the liquid drop out and any eventual partial penetration effect (if only part of shots reached the formation) will justify a positive skin.

3. Radius of Investigation:

The radius of investigation is small, maybe around 60 ft. This is due to the low permeability and high total compressibility.

No boundary effects were observed. The calculated lower extrapolated pressure in the last build-up, which could indicate reservoir depletion, should be interpreted with caution due to the insufficient build-up time.

4. **Conclusions:**

We suggest that the pressure history between 27 September and the end of the main build-up on 1 October be interpreted using a generalised superposition function. This work will be done by Petrofina Brussels with the INTERPRET Software (SCI-Intercomp). However, we feel confident to say that the tested interval in DST 1 has a very low permeability (approx. 0.2 md) and low to nil damage due to drilling fluids.

A complete set of the quick analysis plots (carried out on the rig) and results of gauge 73033 pressure data are attached to this note.

David Sousa
5 October 1989

TABLE 1

ANEMONE - 1A ; DST 1
SUMMARY OF TRANSIENT PRESSURE ANALYSIS

GAUGE DEPTH (m)	75188 4267.8	73033 4267.8	71532 4299.3	74907 4299.3
1st SHUT IN				

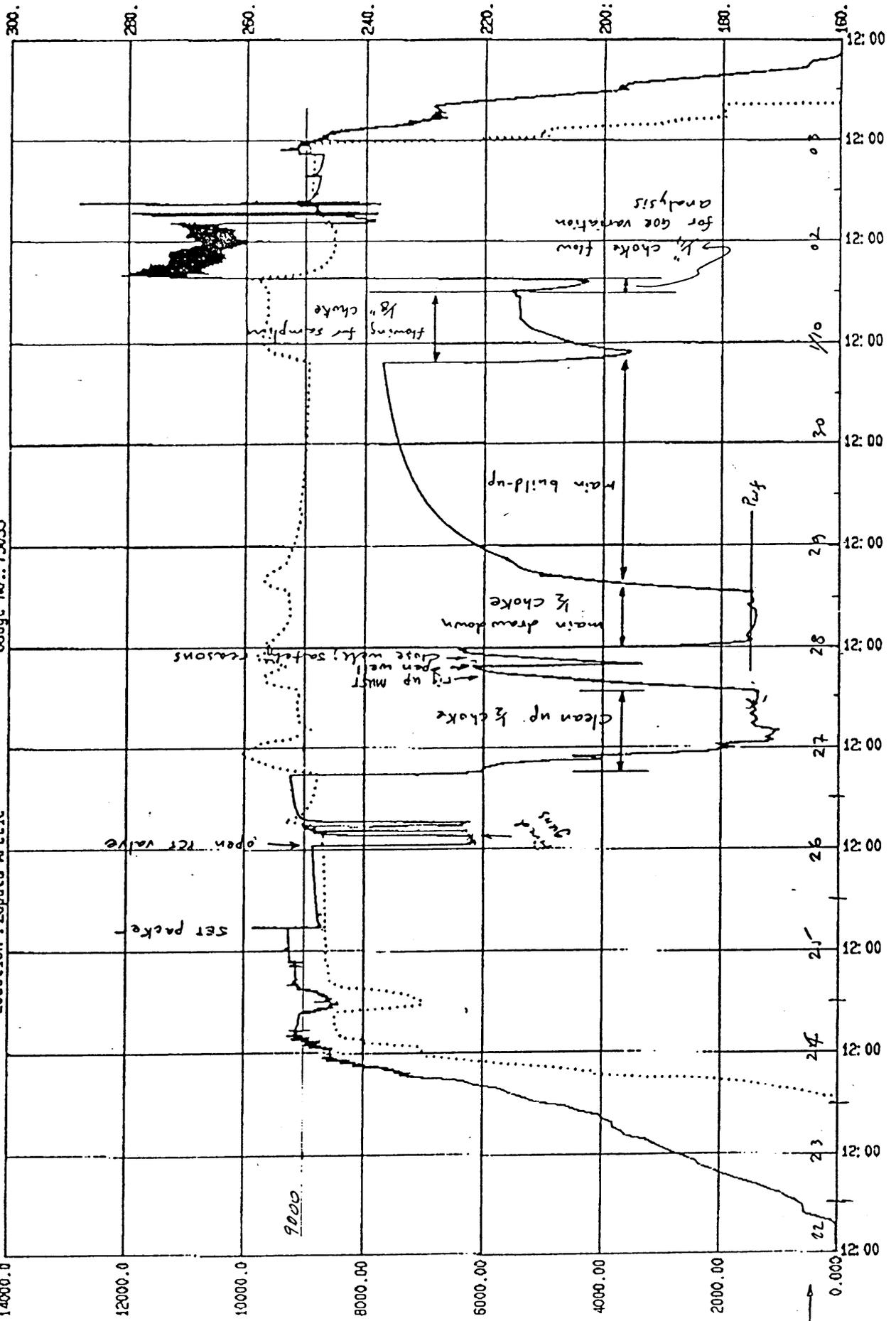
P* (psia)	9115	9224	9164	9164
MAIN DRAWDOWN				

Semilog analysis				
KH (mdft)	4.63	9.73		
K (md)	0.06	0.13		
Skin	0.1	5.2		
Radius invest. (ft)	59	85		
Derivative analysis				
KH (mdft)	13	13.8		
K (md)	0.18	0.18		
Skin	9.4	9.6		
IN BUILD-UP				

Semilog analysis				
KH (mdft)	3.9	3.9		
K (md)	0.05	0.05		
Skin	-0.3	-0.3		
Radius invest. (ft)	54	54		
Horner analysis				
KH (mdft)	0.99	0.97		
K (md)	0.01	0.01		
Skin	-2.6	-2.7		
Radius invest. (ft)	27	27		
P* (psia)	8341	8369		
Derivative analysis				
KH (mdft)	10.1	10.1		
K (md)	0.14	0.14		
Skin	8.7	8.7		

FIGURE 1

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic
Engineer : Walker
Date : 22/09/89
Recorder : Memory Gauge
Gauge No. : 73033
Comments : Gauge depth = 4267. RLB.



Real Time (24.00 hours per division)

Report# 10.35

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033A.GAS

Test type: CRB

Date: 04/10/89 Time: 15:15

RESERVOIR CONSTANTS

Formation thickness (h).....:	74.000 ft
Average formation porosity (φ).....:	0.1600
Well radius (rw).....:	0.4000 ft
Gauge depth.....:	4267.000 ft
Datum depth.....:	0.0000 ft

GAS COMPOSITION Mol percent (Optional)

Methane...:	.000	Ethane....:	.000	Propane...:	.000	Iso-Butane:	.000
n-Butane...:	.000	IsoPentane:	.000	n-Pentane...:	.000	Hexanes...:	.000
C 7 +.....:	.000	Nitrogen...:	.000	CO2.....:	.000	H2S.....:	.000
						C7+ mol wt:	.000

RESERVOIR VARIABLES

Reservoir pressure.....:	8500.000 psia
Temperature (T).....:	260.000 deg F
Water saturation (Sw).....:	0.4000
Water compressibility (Cw).....:	3.500E-06 psi-1
Formation compressibility (Cf).....:	3.500E-06 psi-1
Gas gravity.....:	1.260 sp grav
Initial gas viscosity (μi).....:	0.0642 cp
Initial z-factor (zi).....:	1.439
Gas compressibility (Cg).....:	2.526E-05 psi-1
Initial system compressibility (Ct).....:	2.006E-05 psi-1

E.P.O.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033A.GAS

Date: 04/10/89 Time: 15:15

Test type: CRB

RESULTS FROM HORNER ANALYSIS
using Pressure-squared and Real time

Line :

Intercept.....:	85.084 ✓	
Slope.....:	-113.197 ✓	
Start of line.....:(	0.0369 ,	80.856)
End of line.....:(	0.0307 ,	81.610)
Coefficient of determination....:	0.9916	
Number of points.....:	21	
p**2 at dt = 1 hr.....:	77.493 psia ² (*1E-06)	
Extrapolated p**2.....:	85.084 psia ² (*1E-06) ✓	
Permeability-thickness (kh).....:	1.005 md.ft	
Permeability (k).....:	0.0136 md	
Total skin factor (s).....:	-1.380	
dP skin (constant rate).....:	-6205.501 psi	
Radius of investigation.....:	3.042 ft	
Extrapolated pressure.....:	9224.117 psia ✓	
Pressure at dt = 1 hour.....:	8803.040 psia	

initial pressure @ Perfs → 9602 to 9943 psi

6 PLOTS

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033B.GAS

Test type: CRD

Date: 04/10/89 Time: 16:40

RESERVOIR CONSTANTS

Formation thickness (h).....:	74.000 ft
Average formation porosity (Ø).....:	0.1500
Well radius (rw).....:	0.4000 ft
Gauge depth.....:	4257.000 ft
Datum depth.....:	0.0000 ft

GAS COMPOSITION Mol percent (Optional)

Methane...:	.000	Ethane....:	.000	Propane...:	.000	Iso-Butane:	.000
n-Butane...:	.000	IsoPentane:	.000	n-Pentane...:	.000	Hexanes....:	.000
C 7 +.....:	.000	Nitrogen..:	.000	CO2.....:	.000	H2S.....:	.000
						C7+ mol wt:	.000

RESERVOIR VARIABLES

Reservoir pressure.....:	9224.000 psia
Temperature (T).....:	260.000 deg F
Water saturation (Sw).....:	0.4000
Water compressibility (Cw).....:	3.500E-06 psi-1
Formation compressibility (Cf).....:	3.500E-06 psi-1
Gas gravity.....:	1.260 sp grav
Initial gas viscosity (ui).....:	0.0669 cp
Initial z-factor (zi).....:	1.535
Gas compressibility (Cg).....:	2.258E-05 psi-1
Initial system compressibility (Ct).....:	1.845E-05 psi-1

N. B. GAUGE 73033
 START TIME 13:58 22/09/89
 DATA SENT MY MODEM
 FILE 73033, TDA
 DIR C:\TRANS.

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033B.GAS

Date: 04/10/89 Time: 16:40

Test type: CRD

RESULTS FROM SEMILOG ANALYSIS
using Pseudo-pressure and Real time

Line :

Intercept.....:	340.094	
Slope.....:	-126.586	
Start of line.....:(	1.097 ,	202.173)
End of line.....:(	1.120 ,	198.359)
Coefficient of determination....:	0.9615	
Number of points.....:	7	

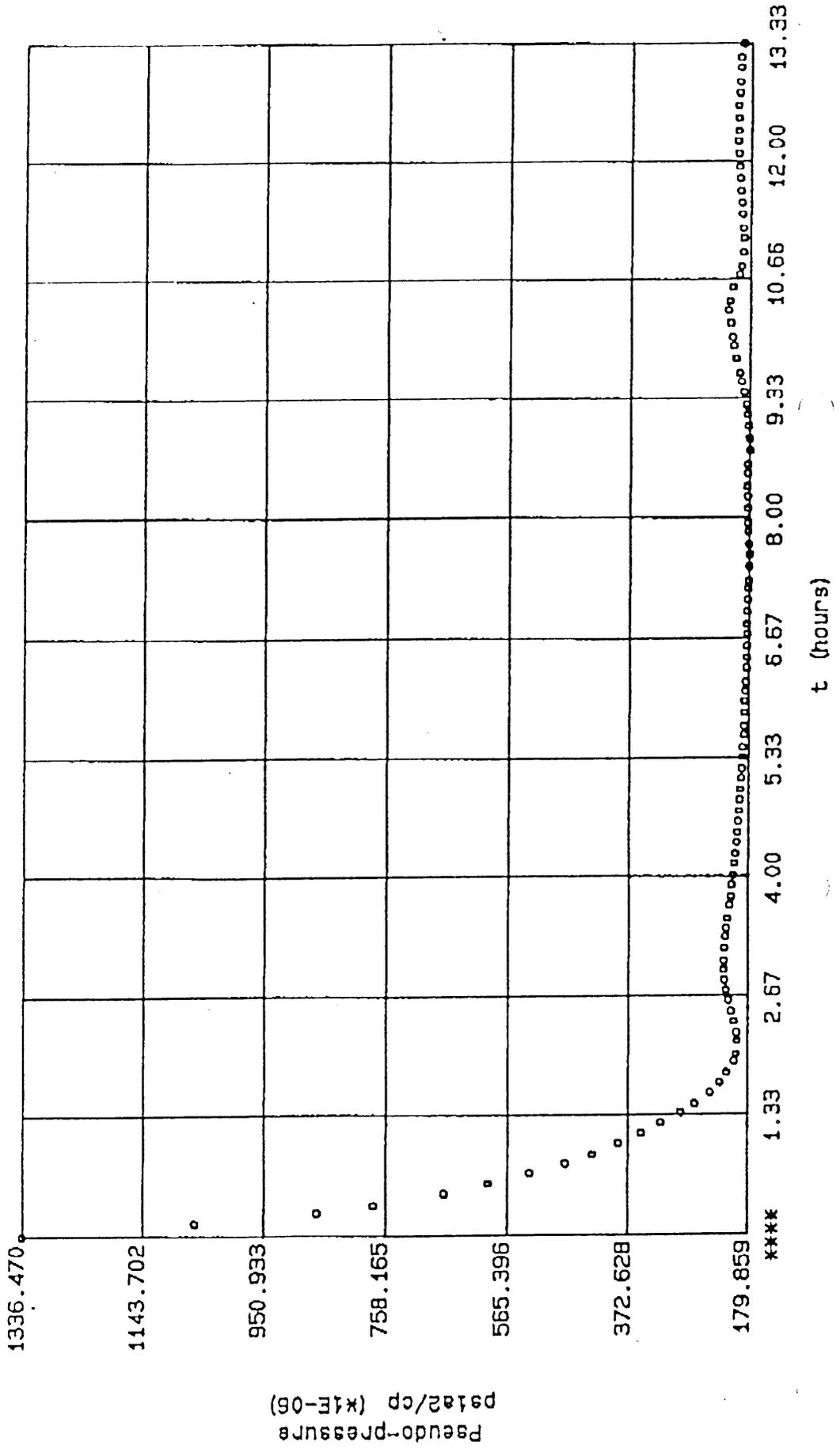
m(p) at dt = 1 hr.....:	340.094 psia ² /cp (*1E-06)
Permeability-thickness (kh).....:	9.725 md.ft
Permeability (k).....:	0.1314 md
Total skin factor (s).....:	5.159
dP skin (constant rate).....:	2255.771 psi
Radius of investigation.....:	85.294 ft
Pressure at dt = 1 hour.....:	2045.743 psia

PAWSTYEM (C) EPDS 1986, 87, 88.

CARTESIAN PLOT

File.....: 730300.GAS Field.....: Mildcat
 Analyst name.....: J. Walker Date.....: 04/10/89
 Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic
 Well.....: Aronson # 1A Test.....: DST # 1

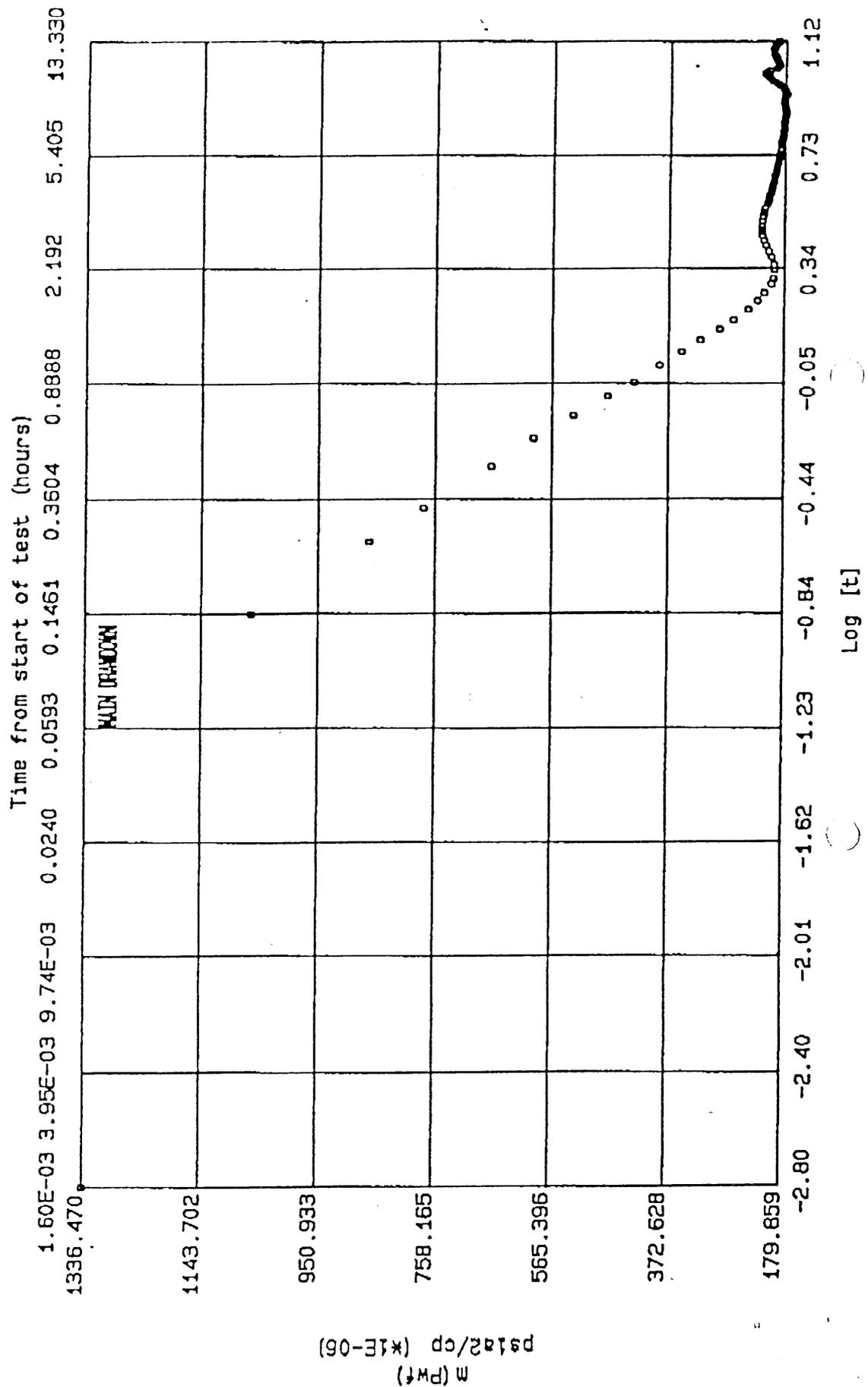
MAIN DRAWING



PARSYSTEM (C) EPDS 1986, 87, 88.

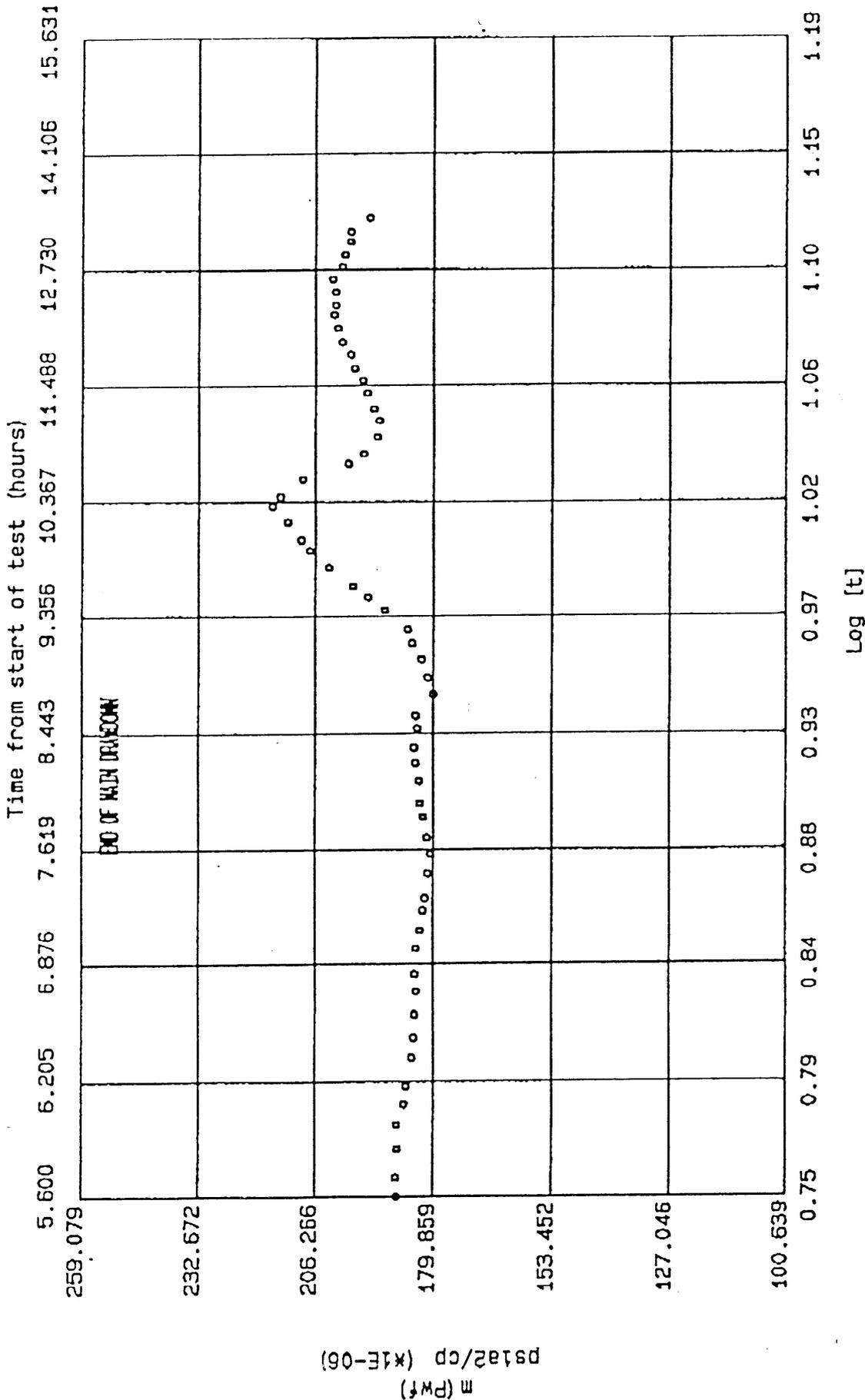
SEMILOG DRAWDOWN PLOT

File.....: 730338.GAS
 Analyst name.....: J.Walker
 Company.....: Petrofina Exploration Australia SA
 Well.....: Arbonne # 1A
 Field.....: Wilcat
 Date.....: 04/10/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST # 1



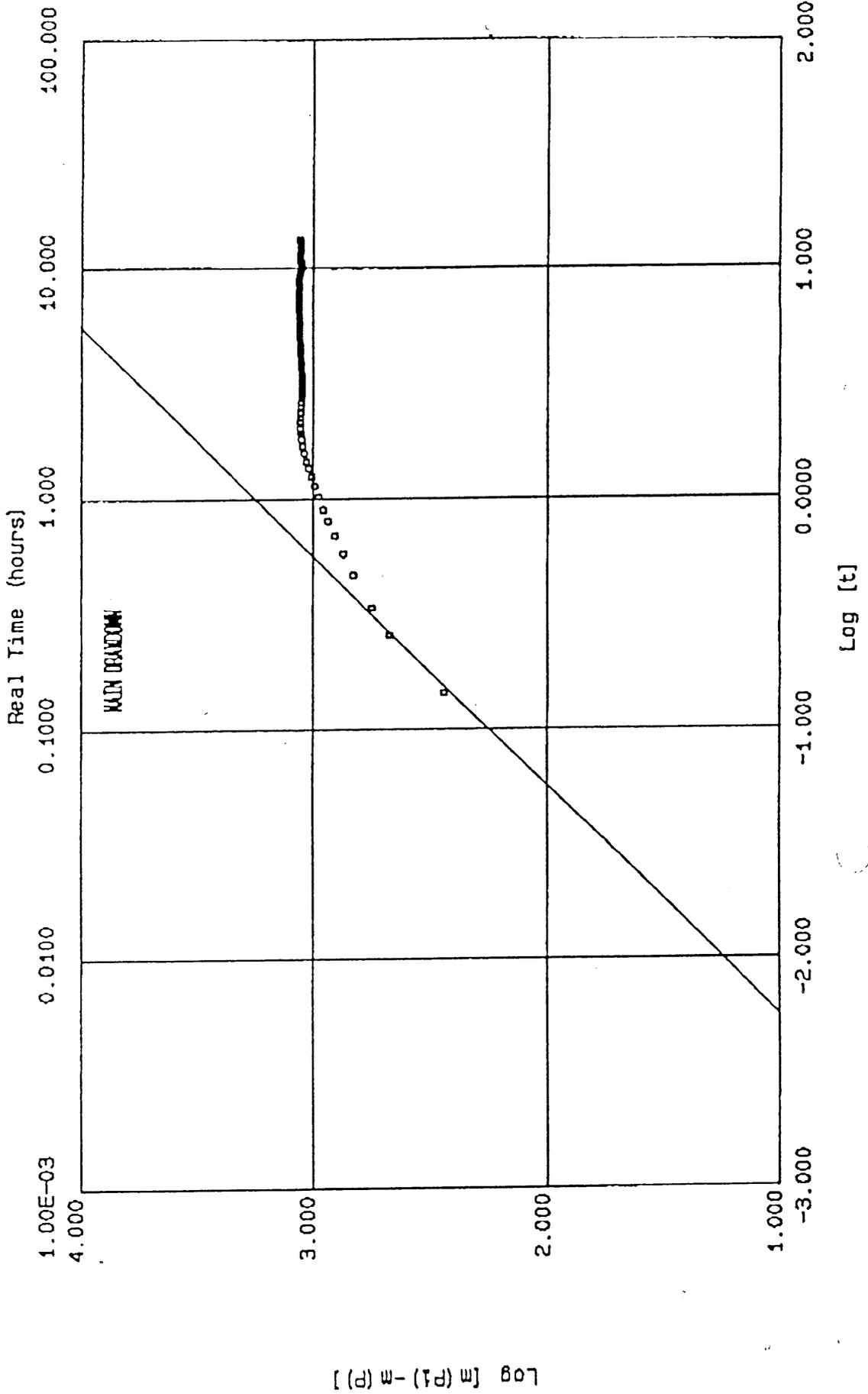
SEMILOG DRAWDOWN PLOT

File.....: 730300.GAS Field.....: Wilocat
 Analyst name.....: J. Walker Date.....: 04/10/89
 Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic
 Well.....: Aremore # 1A Test.....: DST # 1



LOG-LOG PLOT

File.....: 730339.GAS
 Analyst name.....: J. Walker
 Company.....: Petrofina Exploration Australia SA
 Well.....: Anemone F 1A
 Field.....: Wildcat
 Date.....: 04/10/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST # 1
 Slope.....: 1.000
 Intercept.....: 3.250
 Wellbore Vol.: 143.566
 Storage coef.: 3.242E-03



Log [m (P1) - m (P)]

Log [t]

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033B.GAS

Test type: CRD

Date: 04/10/89 Time: 16:02

RESULTS FROM LOG-LOG ANALYSIS

Line :

Intercept.....:	3.250
Slope.....:	1.000
Apparent wellbore volume.....:	143.566 bbl
Dim. wellbore storage constant (Cd).....:	67.721
Storage coefficient (initial).....:	3.242E-03 bbl/psi

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 730338.GAS

Test type: CRD

Date: 04/10/89 Time: 16:59

RESULTS FROM A HOMOGENEOUS RESERVOIR TYPE-CURVE MATCH
(WELLBORE STORAGE ANALYSIS)

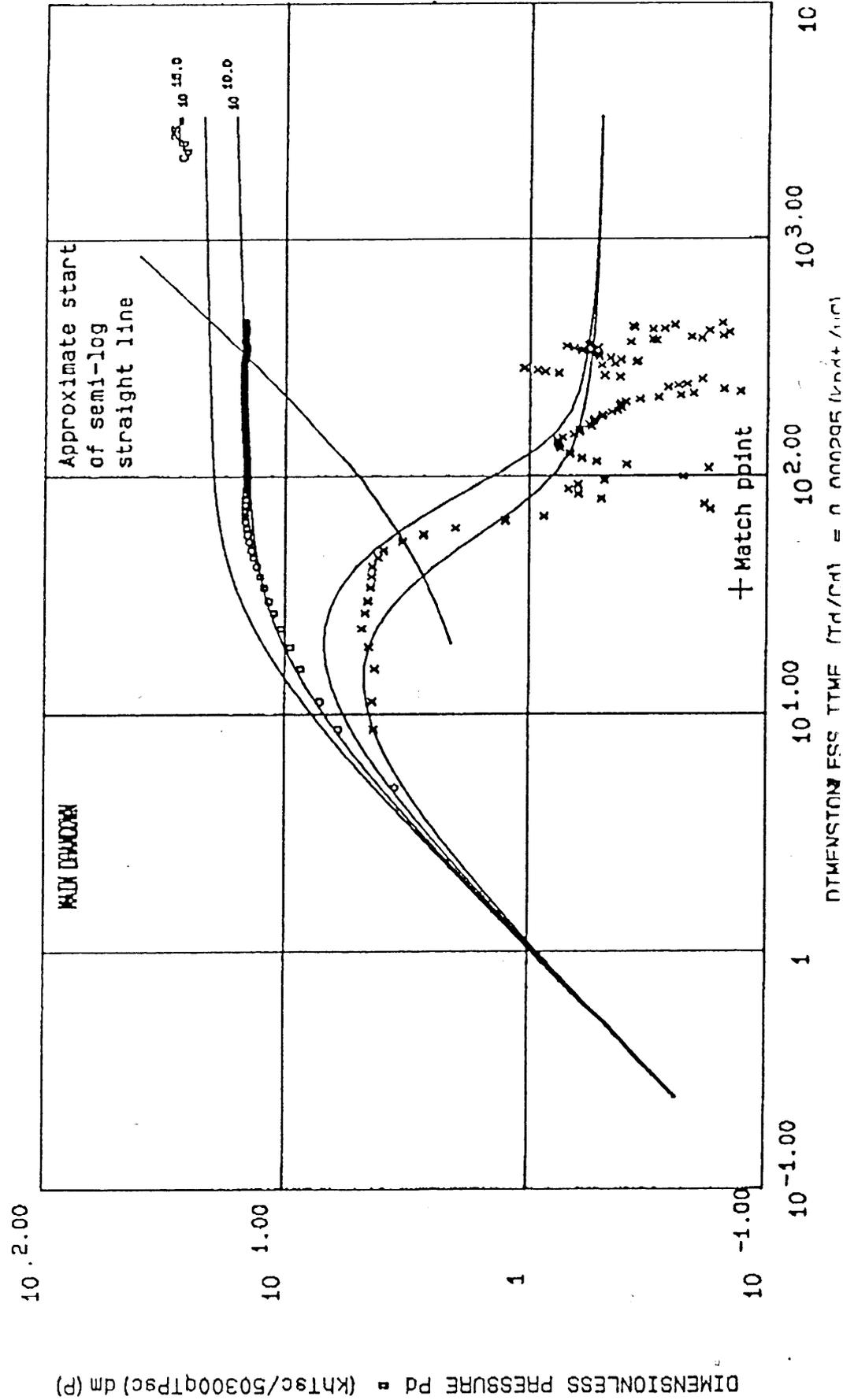
Data plotted using Real Elapsed Time and $m(p)$

Dim. pressure match point $P_d(\text{match})$:	0.1289
Dim. time match point $T_d/C_d(\text{match})$:	33.672
Matched curve $C_{de2S}(\text{match})$:	1.000E+10
Pressure match point $dP(\text{match})$:	10.000
Time match point $dt(\text{match})$:	1.000
Permeability-thickness (kh).....:	13.778 md.ft
Permeability (k).....:	0.1862 md
Apparent wellbore volume.....:	97.797 bbl
Dim. wellbore storage constant (C_d).....:	46.132
Storage coefficient (initial).....:	2.208E-03 bbl/psi
Radius of investigation.....:	101.527 ft
dP skin (constant rate).....:	3043.964 psi
Skin factor (S).....:	9.597

HOMOGENEOUS RESERVOIR

File.....: 730338.SAS Pd(match).....: 0.1289 dp (match) ..: 10.000
 Analyst name.....: J. Walker Td(match).....: 33.572 dt (match) ..: 1.000
 Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic Permeability..: 0.1662 dp (skin)....: 3043.954
 Well.....: Arseno # 1A Test.....: DST # 1 Skin.....: 9.597 C(Storage) ..: 97.797

Data plotted using Real Elapsed Time and m (p)



MAIN BUILD-UP.

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033C.GAS

Test type: CRB

Date: 04/10/89 Time: 17:47

RESULTS FROM LOG-LOG ANALYSIS

Line :

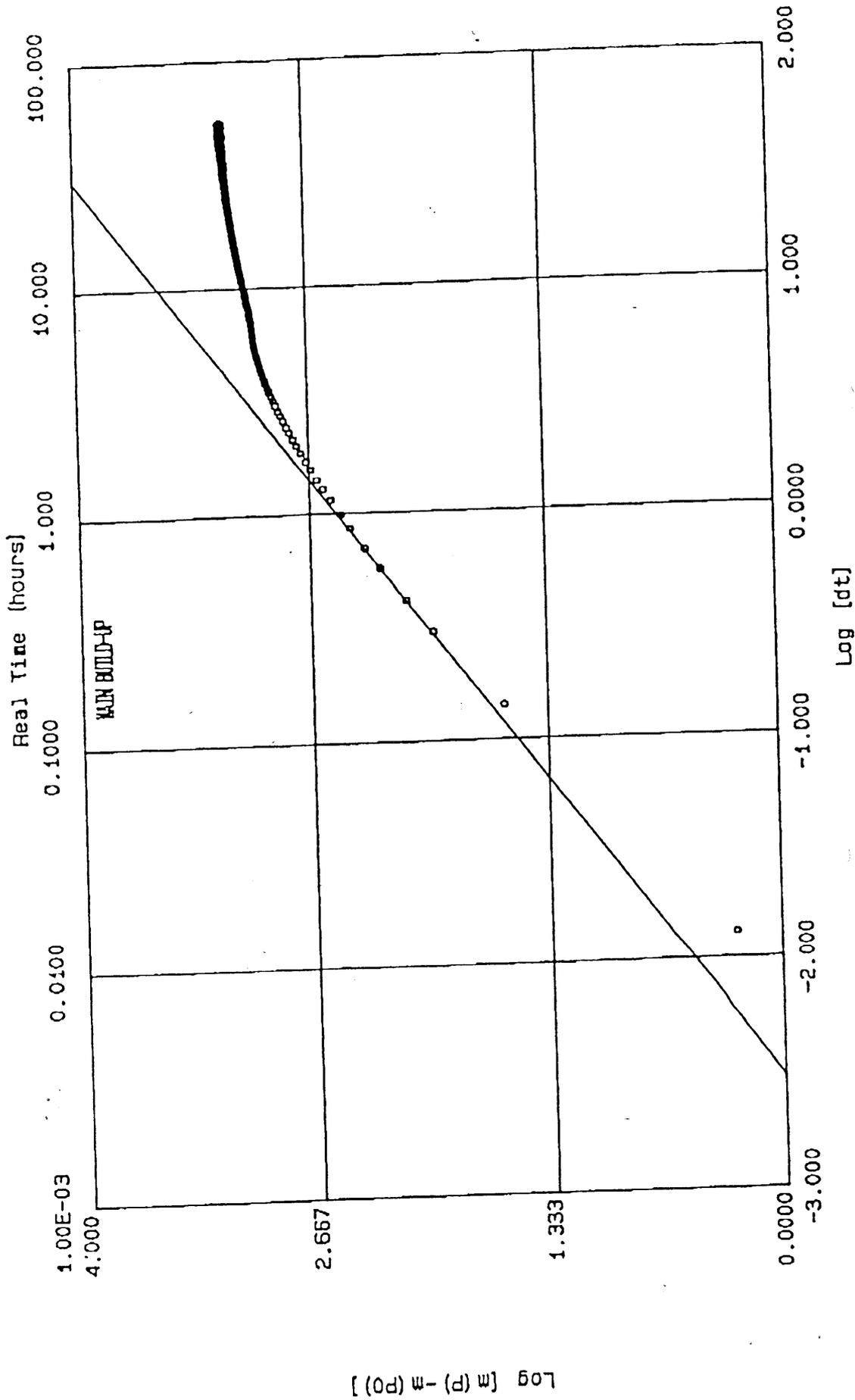
Intercept.....:	2.514
Slope.....:	1.000
Apparent wellbore volume.....:	783.109 bbl
Dim. wellbore storage constant (Cd).....:	369.397
Storage coefficient (initial).....:	0.0177 bbl/psi

LOG-LOG PLOT

PARASYSTEM (C) EPDS 1986, 87, 88.

File.....: 73033C.GAS
 Analyst name.....: J.Walker
 Company.....: Petrofina Exploration Australia SA
 Well.....: Aramco # 1A
 Field.....: Wilcat
 Date.....: 04/19/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST # 1

Slope.....: 1.000
 Intercept.....: 2.514
 Wellbore Vol.: 783.109
 Storage coef.: 0.0177

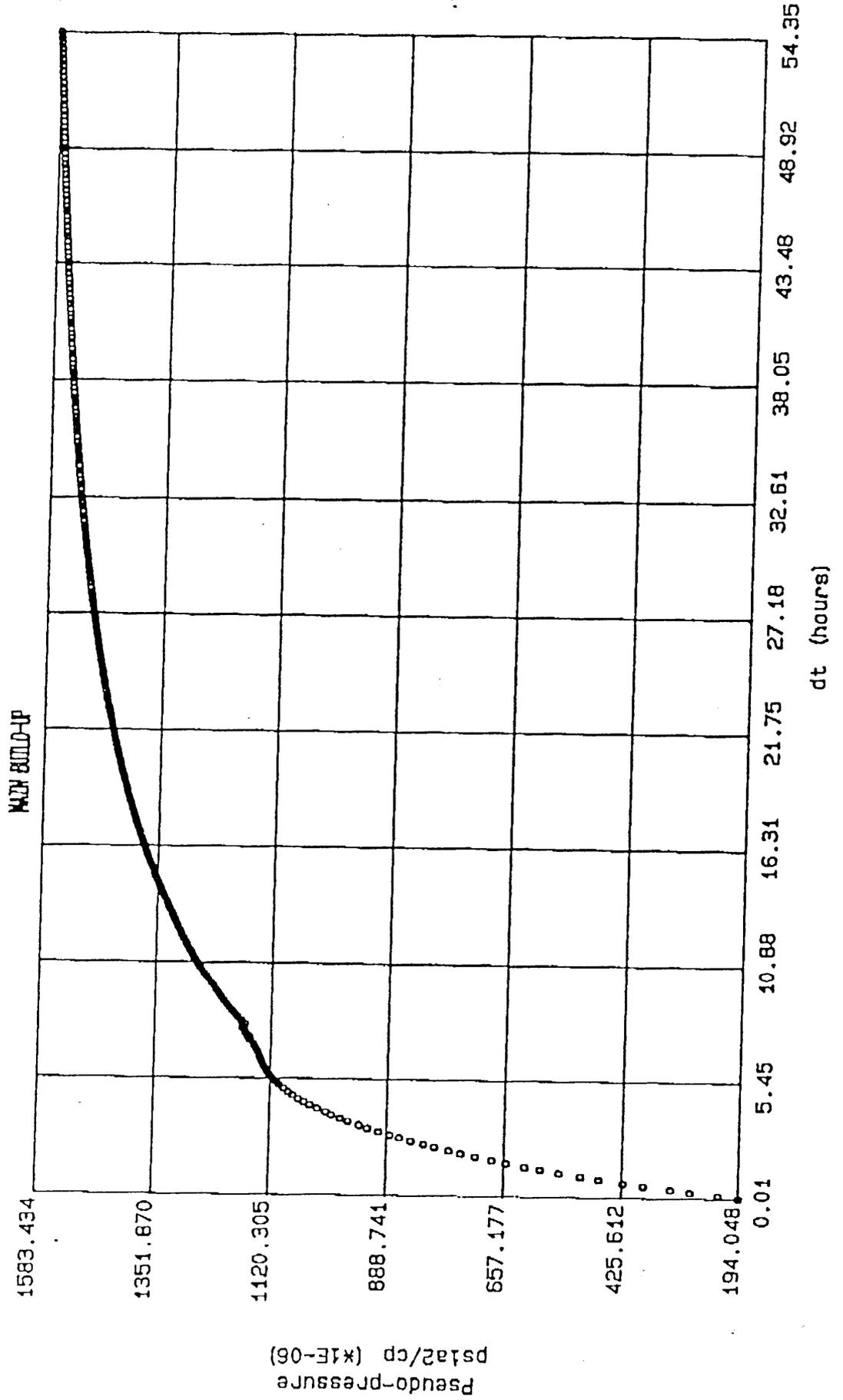


Log [m(P) - m(P0)]

PAKSYSTEM (C) EPOS 1985, 87, 88.

CARTESIAN PLOT

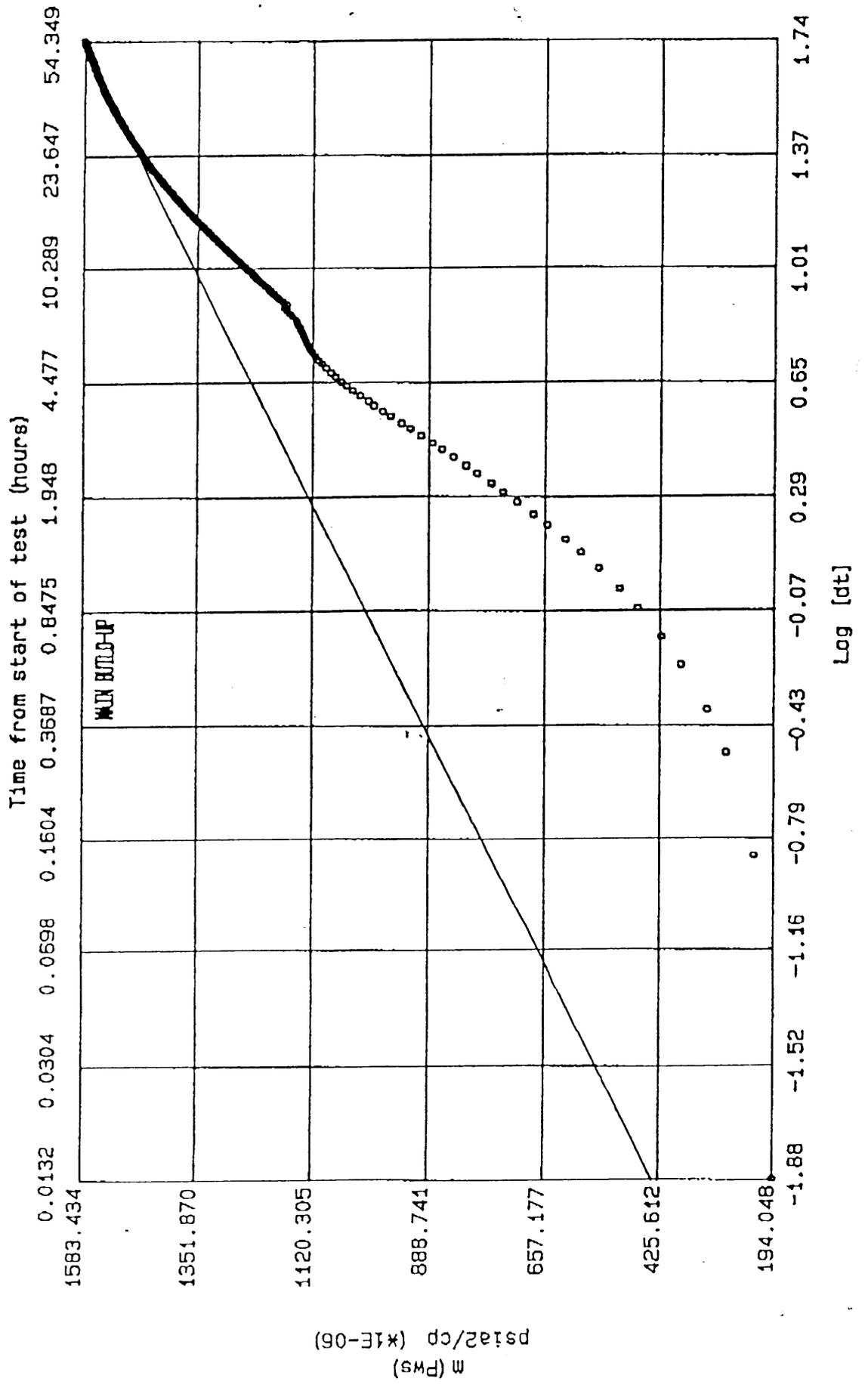
File.....: 730300.BAS
Analyst name.....: J. Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: W110at
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1



MDH BUI JUP PLOT

PAASYSTEM (C) EPOS 1987.
 File: 730330.GAS
 Analyst name: J. Walker
 Company: Petrofina Exploration Australia SA
 Well: Aresone # 1A

Field: Wildcat
 Date: 04/29/89
 Rig Name/Number: Zapata Arctic
 Test: DST # 1
 Slope: 318.281
 Intercept: 1936.612
 Permeability: 0.0523
 Skin: -0.3004



E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 730330.GAS

Date: 04/10/89 Time: 18:34

Test type: CRB

RESULTS FROM SEMILOG ANALYSIS
using Pseudo-pressure and Real time

Line :

Intercept.....:	1036.612	
Slope.....:	318.281	
Start of line.....:(	1.383	1468.645)
End of line.....:(	1.735	1583.434)
Coefficient of determination....:	0.9905	
Number of points.....:	133	
m(p) at dt = 1 hr.....:	1036.612	psia ² /cp (*1E-06)
Computed initial pressure.....:	6770.298	psia
Permeability-thickness (kh).....:	3.868	md.ft
Permeability (k).....:	0.0523	md
Total skin factor (s).....:	-0.3004	
dP skin (constant rate).....:	-372.255	psia
Radius of investigation.....:	53.791	ft
Pressure at dt = 1 hour.....:	4969.215	psia

PAUSYSTEM (C) EPDS 1986, 87, 88.

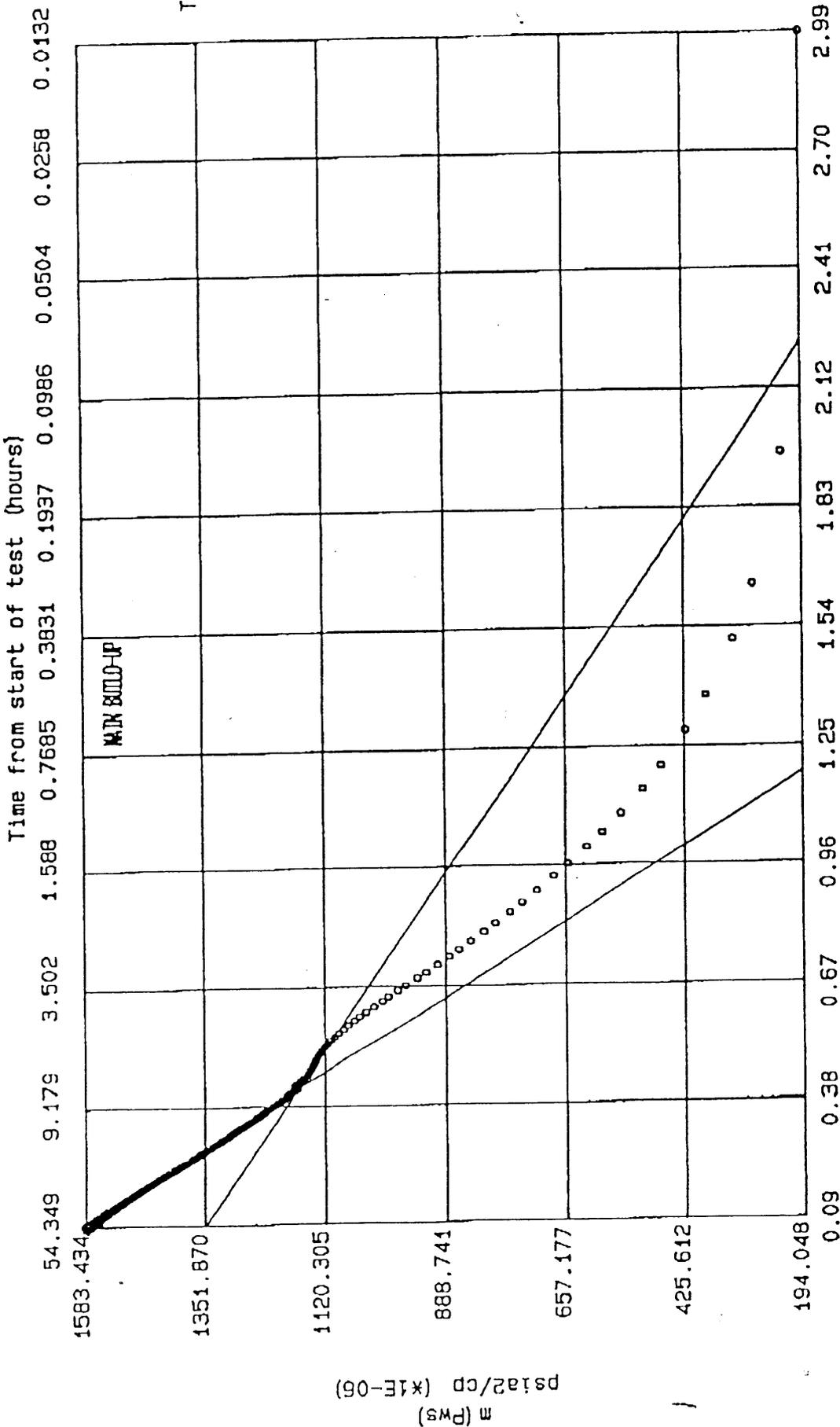
HORNOLD PLOT

Line 1 Line 2

File.....: 73033C.GAS
 Analyst name.....: J.Walker
 Company.....: Petrofina Exploration Australia SA
 Well.....: Aresone # 1A

Field.....: Wildcat
 Date.....: 04/10/88
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST # 1

Slope.....: -539.911 -1288.075
 Intercept.....: 1400.457 1794.407
 Permeability:: 0.0308 0.0131
 Skin.....: -1.893 -2.685



Log [(tp+dt)/dt] (tp = 13.000)

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 730330.GAS

Test type: CRB

Date: 04/10/89 Time: 18:06

RESULTS FROM HORNER ANALYSIS
using Pseudo-pressure and Real time

First Line :

Intercept.....:	1400.467	
Slope.....:	-539.911	
Start of line.....:(	0.4907 ,	1137.067)
End of line.....:(	0.4396 ,	1166.350)
Coefficient of determination....:	0.9677	
Number of points.....:	9	
m(p) at dt = 1 hr.....:	781.771	psia ² /cp (*1E-06)
Extrapolated m(p).....:	1400.467	psia ² /cp (*1E-06)
Permeability-thickness (kh).....:	2.280	md.ft
Permeability (k).....:	0.0308	md
Total skin factor (s).....:	-1.893	
dP skin (constant rate).....:	-1479.609	psi
Radius of investigation.....:	41.300	ft
Extrapolated pressure.....:	6765.826	psia
Pressure at dt = 1 hour.....:	3816.859	psia

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 730330.GAS

Date: 04/10/89 Time: 18:06

Test type: CRB

RESULTS FROM HORNER ANALYSIS
using Pseudo-pressure and Real time

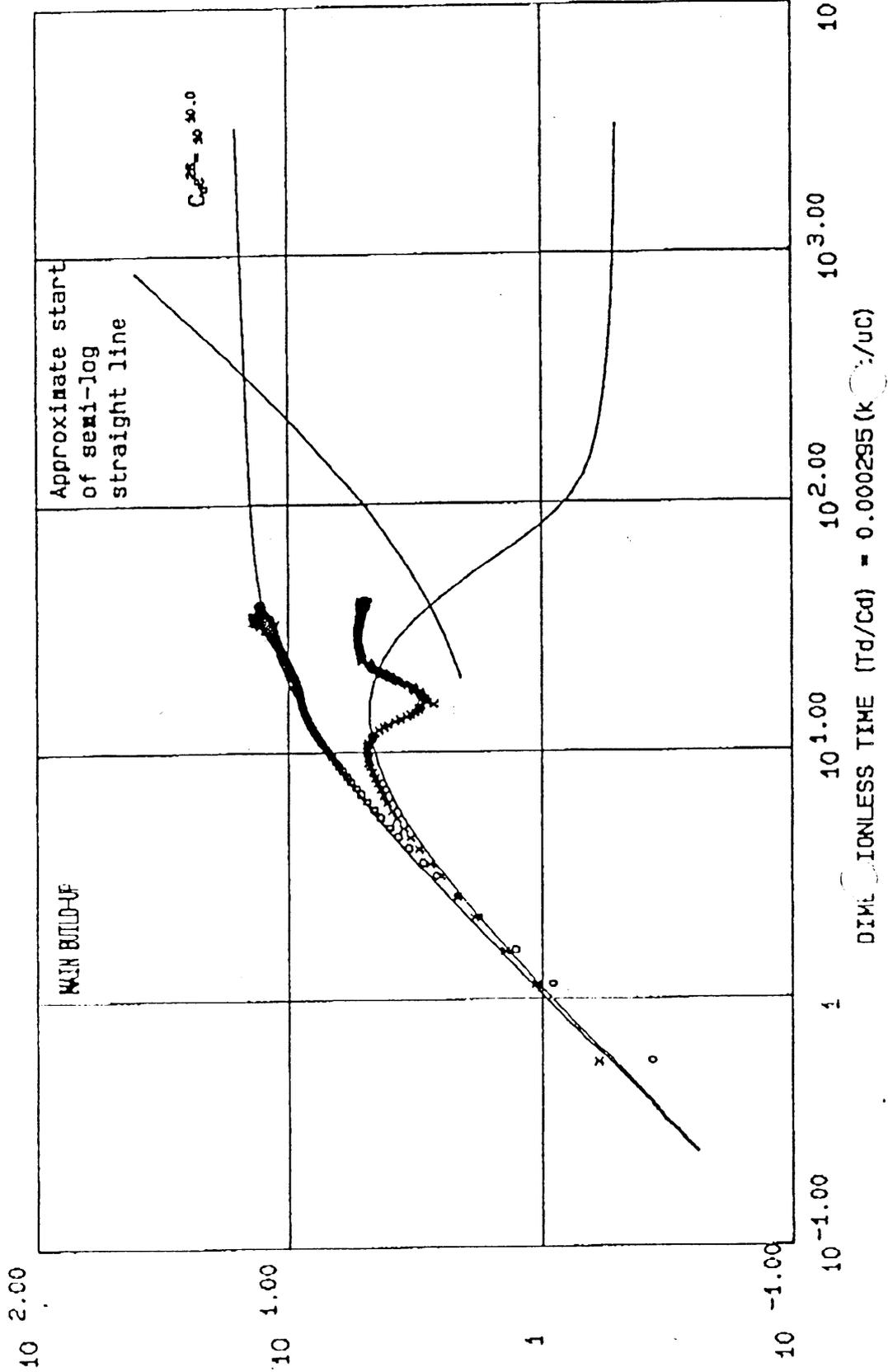
Second Line :

Intercept.....:	1704.487
Slope.....:	-1268.075
Start of line.....:(	0.2872 , 1337.545)
End of line.....:(	0.0978 , 1577.815)
Coefficient of determination....:	0.9995
Number of points.....:	178
m(p) at dt = 1 hr.....:	251.373 psia ² /cp (*1E-06)
Extrapolated m(p).....:	1704.487 psia ² /cp (*1E-06)
Permeability-thickness (kh).....:	0.9708 md.ft
Permeability (k).....:	0.0131 md
Total skin factor (s).....:	-2.665
dP skin (constant rate).....:	-1479.609 psi
Radius of investigation.....:	26.949 ft
Extrapolated pressure.....:	8368.884 psia
Pressure at dt = 1 hour.....:	1703.569 psia

HOMOGENEOUS RESERVOIR

File.....: 730330.6LS
 Analyst name.....: J. Walker
 Company.....: Petrofina Exploration Australia SA
 Well.....: Ansonne f 1A
 Field.....: Yildizbat
 Date.....: 04/10/69
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST # 1
 Pd (batch).....: 0.0946
 Td (batch).....: 3.869
 Permeability.....: 0.1365
 Skin.....: 8.674
 Cp (batch).....: 30.000
 dt (batch).....: 1.000
 q (skin).....: 3855.824
 C (Storage).....: 619.437

Data plotted using Real Elapsed Time and m(p)



E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033C.GAS

Test type: CRB

Date: 04/10/89 Time: 18:50

RESULTS FROM A HOMOGENEOUS RESERVOIR TYPE-CURVE MATCH
(WELLBORE STORAGE ANALYSIS)

Data plotted using Real Elapsed Time and m(p)

Dim. pressure match point Pd(match).....:	0.0945
Dim. time match point Td/Cd(match).....:	3.899
Matched curve Cde2S(match).....:	1.000E+10
Pressure match point dP(match).....:	10.000
Time match point dt(match).....:	1.000
Permeability-thickness (kh).....:	10.104 md.ft
Permeability (k).....:	0.1365 md
Apparent wellbore volume.....:	619.437 bbl
Dim. wellbore storage constant. (Cd).....:	292.192
Storage coefficient (initial).....:	0.0140 bbl/psi
Radius of investigation.....:	86.943 ft
dP skin (constant rate).....:	3856.024 psi
Skin factor (S).....:	8.674

DST #2

ANEMONE 1A - DST 2

The sandstone interval 4535-4545m was perforated with Schlumberger tubing conveyed guns (6 shots/ft - 60° phasing) on 8 October 1989 at 1500 hrs. The wellhead shut-in pressure at 1605 hrs, just before opening the well, was 2230 psi (BHSIP = 8870 psi). After a 10 minute flow the well was closed (at PCT and choke manifold) for the night for safety reasons.

On 9 October at 0548 hrs the well was opened at the PCT and choke manifold for unloading and clean up. The static wellhead pressure before opening at choke manifold was 1500 psi and was still increasing. After opening the well the WHFP dropped quickly to zero psi.

After 27 hours clean up the well was producing at an average rate of 60 bbl/day water-cushion water. The wellhead pressure was around 10 psi and the cumulative water recovery was 73.4 bbl or approximately 66% of total wellbore and tubing volume. The unloading rate was practically constant and no increasing gas rate was observed (only some gas bubbling was observed in the bubble hose).

In view of the performance of the well during the clean up Schlumberger was rigged up to take bottom samples and record the pressure gradient in order to determine the nature of formation fluids being produced.

Pressure Gradient Recorded with Well Flowing:

Depth (mkb)	Gradient (gr/cc)	Depth (mkb)	Gradient (gr/cc)	Depth (mkb)	Gradient (gr/cc)
100	1.0	4020	0.95/0.99	4450-4500	1.04
500	1.33	4060-4070	1.0	4420-4500	1.04
1000	1.23	4070-4080	0.81		
2000	1.19	4080-4090	1.0		
3000	1.08	4090-4100	0.83		
4010	1.07	4130-4150	0.93		

Two samples were taken at 3904mkb and 4428mkb and were analysed on the rig giving the following results:

	<u>Sample 1 @ 3904mkb</u>	<u>Sample 2 @ 4428mkb</u>	<u>Mud Filtrate</u>
Pressure	5788 psi	6536 psi	-
Temperature	111.1°C	130.7°C	-
Resistivity at 55°F	0.697 m	0.694 m	-
pH	7.17	7.47	10.7
pf/mf	0/5.4	0/5.5	0.25/0.50
HCO ₃ ⁻	108 meg/l	110 meg/l	-
Cl ⁻	4000 mg/l	4000 mg/l	15,500 mg/l
Ca ²⁺	60 ppm	100 ppm	400 ppm
Mg ²⁺	61 ppm	24.4 ppm	0

FLOPETROL REPORT

WELL TEST REPORT
PETROFINA ANEMONE - 1A
FIELD: VIC/P20
DST 1+2
DATE: 22 SEP TO 11 OCT 1989.

FLOPETROL

DIVISION : ANZ
BASE : BEF
REPORT N° : 01/89

Well Testing Report

Client : PETROFINA

Field : VIC/PZO

Zone : DST #1

Well : ANEMONE - 1A

Date : 22 SEP - 04 OCT 89

INDEX

- 1. TEST PROCEDURE _
- 2. MAIN RESULTS _
- 3. OPERATING AND MEASURING CONDITIONS _
- 4. SURFACE EQUIPMENT DATA _
- 5. WELL COMPLETION DATA _
- 6. SEQUENCE OF EVENTS _
- 7. WELL TESTING DATA _

TESTING CREW

O. HOBBS
A. GILLIES
C. MORRELL
E. GOH
T. CHIN
S. BROWN
J. BRUCE
S. MILNE
P. NARDONE

Flopetrol chief operator
Name : E. GOH

Client representative
Name : D. SOWSSA

- TEST PROCEDURE -

1. Make up EZ Tree and lubricator valve assembly.
2. Make up Schlumberger TCP gun assembly.
3. Run in hole with Schlumberger test tools.
4. After pressure test bottom hole assembly, run in hole with 2.5" VAM tubing.
5. Make up fluted hanger to test string and run in hole.
6. With fluted hanger sitting on wear bushing, run in hole with correlation log to check space out.
7. Pull out of hole with fluted hanger and run in hole with EZ Tree and lubricator valve assembly.
8. Pressure test lower and upper test string.
9. Rig up long bails and pick up flowhead.
10. Set packer and sit fluted hanger down in wear bushing.
11. After pressure test surface test equipment, run in hole with correlation log to confirm space out.
12. Reverse out tubing to test cushion.
13. Rig up drop bar assembly on slickline and run in hole.
14. Fire the perforation gun and open up well to gauge tank.
15. Shut in well for initial pressure build-up.
16. Open up to gauge tank on 16/64" choke for 57 minutes.
17. Shut in well for 680 minutes.
18. Open up well for clean up on:
16/64" choke - 13 minutes
32/64" choke - 115 minutes
48/64" choke - 410 minutes
19. Divert flow through separator on 32/64" choke - 568 minutes.
20. Shut in well for 174 minutes.
21. Run in hole with TPT gauge and latch onto MUST valve.

- TEST PROCEDURE -

22. Open up well and divert flow through separator on 32/64" choke - 792 minutes.
23. Shut in well for 3806 minutes.
24. While the well was closed, pull out of hole with TPT gauge.
25. Open up well on 8/64" choke - 717 minutes
Two PVT condensate and four PVT gas samples are taken.
Increase choke size to 16/64" - 153 minutes.
26. Shut in well for 12 minutes.
27. Commence to kill well.

FLOPETROL

Client : PETROFINASection : 2Base : BEFField : VIC/PZOPage : 5Well : ANEMONE 1AReport N° : 01/89

- MAIN RESULTS -

Tested interval: DST #1 Perforations: 4599 - 4652 m

OPERATION	DURATION	BOTTOM HOLE PRESSURE	WELL HEAD PRESSURE	OIL PROD. RATE	GAS PROD. RATE	G. O. R
Units	MINS		PSIG	BBLs/DAY	MSCF/DAY	SCF/BBL
<u>INITIAL FLOW</u>						
<u>CHOKE CLOSED</u>	57		36			
<u>INITIAL SHUT IN</u>	674		1510			
<u>CLEAN UP</u>						
16/64" FIXED	18		175			
32/64" ADJ	115		90			
48/64" ADJ	205		440			
48/64" FIXED	205		175			
32/64" FIXED	568		250	114	992	8700
<u>SHUT IN</u>	174		2715			
<u>MAIN FLOW</u>						
32/64" FIXED	792		290	116	803	6900
<u>MAIN SHUT IN</u>	3806		3735			
<u>SECOND FLOW</u>						
8/64" FIXED	717		794	51	109	2100
16/64" FIXED	153		350	25	186	7300
<u>SECOND SHUT IN</u>	12		435			

Depth of bottom hole measurements : 4300 m Reference : RKBTemperature : 260 F at : 4300 m depthSeparator gas gravity (air : 1) at choke size : 0.940 @ 32/64" FIXEDSTO gravity at choke size : 0.782 @ 32/64" FIXEDBSW : 50% Water cut : 50%REMARKS AND OTHER OPERATIONS

SCHLUMBERGER TESTING

Base : BEF

Client : PETROFINA

Field : VIC/PZO

Well : ANEMONE 1A

Section : **3**

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Report N° : 01/89

- OPERATING AND MEASURING CONDITIONS -

A - TYPE OF GAUGE -

BOTTOM HOLE :

Pressure : _____

Temperature : _____

WELL HEAD :

Pressure : DWT

Temperature : HG THERMOMETER

SEPARATOR :

Pressure : BARTON

Temperature : HG THERMOMETER

B - PRODUCTION RATE CONDITIONS AND SOURCES -

OIL PRODUCTION RATE

- Tank Floco
 Meter Rotron
 Dump _____

Reference conditions :

- Separator
 Atmospheric
pressure 60°F

Shrinkage measurement :

- With tank
 With shrinkage
tester

GAS PRODUCTION RATE

- Orifice meter

Standard conditions :

14.75 PSIA @ 60°F

WATER PRODUCTION RATE

- Tank
 Meter

C - WELL DATA -

WELL STATE DURING SURVEY :

Well producing through : 3.5" tubing / ~~drill pipe / casing~~

Main casing size 7" set at 4492.5 m Total well depth 4775 m

Tubing size 3.5" set at _____ Packer POSITRIEVE set at 4330 m

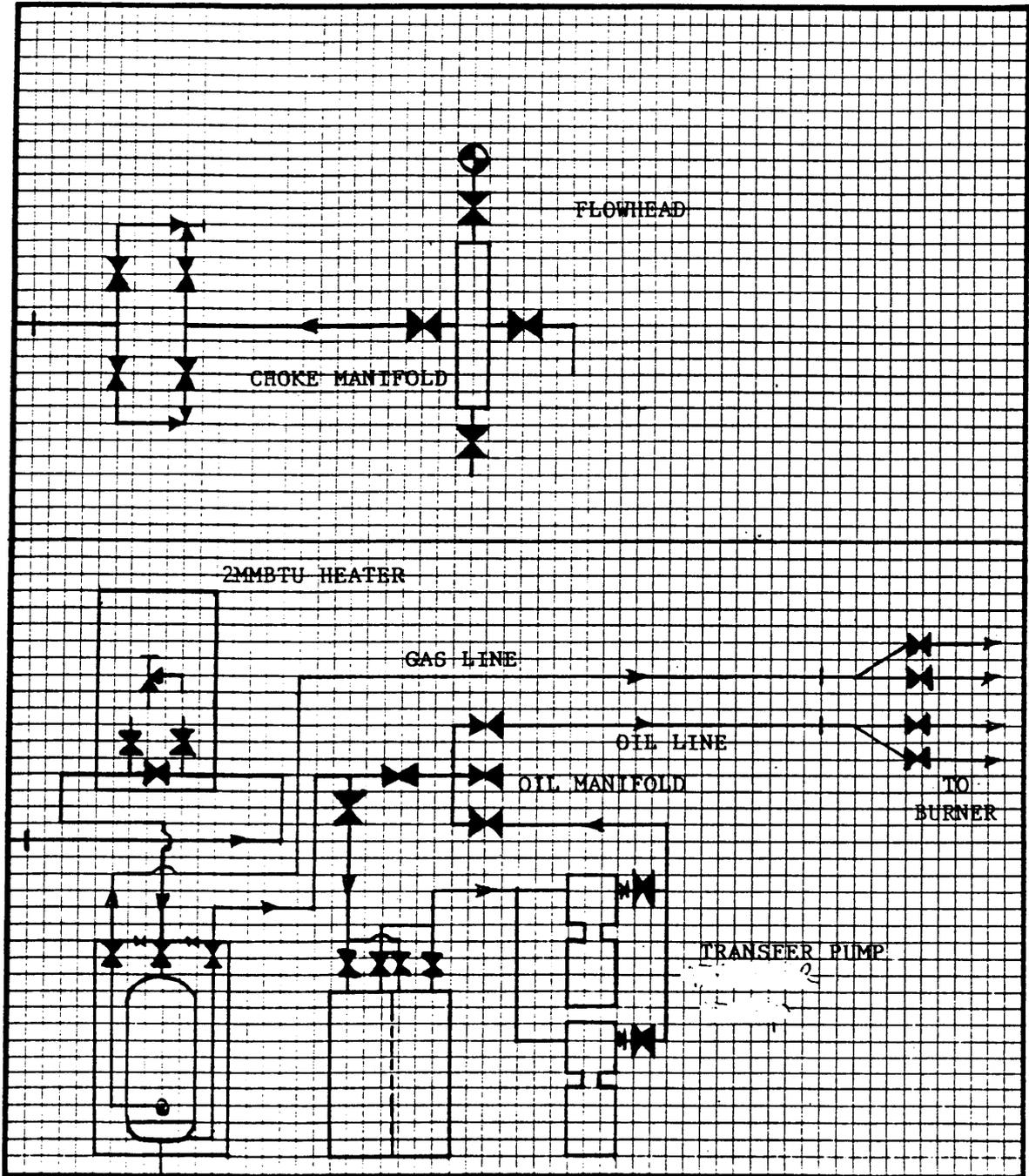
Perforations :

- Zone DST 1 From 4599 m to 4652 m From _____ to _____
- Zone _____ From _____ to _____ From _____ to _____

WELL STATE BEFORE TEST :

- Well closed since NEWLY DRILLED
 Well flowing since _____ Producing zone _____
Choke size _____

- SURFACE EQUIPMENT LAYOUT -



REMARKS :

DRAWING NOT TO SCALE

- WELL COMPLETION DATA -

ITEM	LENGTH (M)	DEPTH (M)
Test String Tubing 12.7 # L80 VAM	3747.17	4002.550
Cross Over Sub	0.309	4002.859
MUST	3.119	4005.978
Slip Joint Open	8.894	4014.872
Slip Joint - 1/2 Open	8.132	4023.004
Slip Joint - Closed	7.070	4030.074
Cross Over TS 3052	0.523	4030.597
Drill Collars (6 Stands)	166.100	4196.697
Cross Over TS 1433	0.434	4197.131
SHORT Reversing Valve	0.864	4197.995
Drill Collars (1 stand)	27.250	4225.245
MIDRV	2.907	4228.152
R.A. Sub	0.628	4228.780
	0.270	4229.050
Drill Collars (1 stand)	27.180	4256.230
PCT	6.995	4263.225
HRT (Closed)	1.618	4264.843
Exal Gauge Carrier	2.970	4267.813
Drill Collars (1 stand)	28.510	4296.323
Exal Gauge Carrier	2.970	4299.293
Drill Collars (1 stand)	27.710	4327.003
Jar (Closed)	1.987	4328.990
Safety Joint	0.517	4329.507
Cross Over	0.250	4329.757
Positrieve Packer (7")	1.035	4330.792
	0.628	4331.420

FLOPETROLClient : PETROFINASection : **5**Base : BEFField : VIC/PZOPage : 9Well : ANEMONE 1AReport N° : 01/89- WELL COMPLETION DATA -

ITEM	LENGTH (M)	DEPTH (M)
Cross Over	0.310	4331.730
Tubing (25 joints)	239.82	4571.550
Gun Drop Sub	0.460	4972.010
Tubing (1 joint) # 48	9.590	4581.600
Vent Sub	0.920	4582.520
Tubing (1 joint) # 49	9.580	4592.100
Mechanical Firing Head	2.050	4594.150
Safety Spacer	4.850	4599.000
3 3/8" TCP Guns	53.000	4652.000
Bottom Nose	0.200	4652.200

FLOPETROLClient : PETROFINASection : **6**Base : BEFField : VIC/PZOPage : 10Well : ANEMONE 1AReport N° : 01/89- SEQUENCE OF EVENTS -

DATE	TIME	OPERATION
		Production Testing Anemone 1A
		Perforation: 4599 - 4652 m
		Gun Type: 3 3/8" TCP 22g HMX 6 SPF 60°
		PACKER: 7" Positrieve set at 4330 m
		Cushion: 1.52 SG mud to MIDRV (4225 m)
		Drillwater to surface
22.09.89	10:30	Make up EZ Tree assembly on derrick.
	11:30	Make up lubricator valve assembly on derrick.
	12:30	Make up Flowhead assembly.
	13:45	Start pick up bottom hole assembly.
	16:50	Run in hole with 7" Positrieve Packer
	21:00	Run in hole with MUST valve
	22:30	Pressure test against PCT.
23.09.89	00:00	Continue to run in hole with test string.
24.09.89	00:00	Continue to run in hole with test string.
	12:00	Make up fluted hanger to test string for space out.
	13:00	Run in hole with fluted hanger.
	16:30	Rig up Schlumberger to run correlation log.
	20:00	Start pull out of hole to fluted hanger.
	22:30	Space out below fluted hanger.
25.09.89	00:15	Rig up EZ Tree control unit.
	00:30	Make up EZ tree assembly to test string.
	01:00	Function test EZ tree and run in hole.
	03:46	Make up lubricator valve assembly to test string.

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FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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Report N°: 01/89

DATE	TIME	OPERATION
25.09.89	04:00	Run in hole with lubricator valve.
	05:00	Pressure test full string against PCT to 9000 psi
	05:15	Close lubricator valve and bleed off pressure above - watch for leaks.
	05:25	Pressure up above lubricator valve.
	05:30	Open lubricator valve and bleed off test pressure.
	05:40	Start change out to long bails.
	07:00	Start rig up flow head.
	09:39	Packer set at 4330 m.
	09:42	Sit fluted hanger down in wear bushing.
	09:47	Hook-up kill line to flowhead.
	10:18	Commence pressure test flowhead to 9000 psi.
	12:05	Open master valve pressure test against PCT to 9000 psi.
	12:25	Close 5" pipe RAM and pressure test to 500 psi.
	12:50	Rig up Schlumberger to run correlation log.
	13:20	Run in hole with Schlumberger.
	13:25	Start rig up surface choke manifold and hook-up flow line.
	15:00	Start pull out of hole with Schlumberger.
	16:20	Schlumberger on surface. Close swab valve.
	16:55	Commence to open MIDRV.
	17:10	Start reverse out tubing with 1.52 SG mud.
	19:24	Stop reverse circulating.
	19:31	Close flow valve. Circulating through tubing to clear restriction at MIDRV.
	20:20	Open flow valve. Commenced reverse circulating.
	21:00	Close flow valve. Commenced circulating, attempting to clear restriction.
26.09.89	04:07	Still circulating attempt to flush out sediments in mud. Close #3 RAMS, pump 54 barrels of mud up kill line.

N° DOP 108

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
26.09.89	04:43	Open #3 RAMS pump 28 bbls of mud up riser - close killline.
	05:30	Close RAMS open rig choke line flush out riser via flowhead flowline. Divert flow to shale shakers.
	05:50	Shut flowhead wing valve. Reverse circulate to check if MIDRV is clear of restriction.
	05:58	Test good.
	06:00	Spot viscous pill and circulate contents of tubing to water.
	07:55	Close MIDRV pressure test tubing to 7000 psi to test valve functioned correctly. - test good.
	08:12	Rig up slickline lubricator pipe.
	08:15	Close lubricator valve open flowhead swab valve. Commence pressure test of lubricator pipe and flowlines/choke manifold.
	09:55	Lubricator pipe seal leaks, break off to repair.
	10:54	Re-stab lubricator, attempt second pressure test.
	11:30	Test fails isolate slickline equipment and pressure test all flowlines down to heater and choke manifold to 5000 psi.
	12:05	Test good. Pressure test up to choke manifold. Front 15 K valves and 10 flex hose to 9000 psi against down hole lubricator valve - test good.
	12:30	Start rig up drop bar assembly in lubricator.
	12:40	Open swab valve. Close kill valve and open lubricator valve.
	12:50	Pressure up annulus to open PCT.
	12:55	PCT open surface pressure 400 psi.
	12:57	Run in hole with drop bar assembly.
	13:00	Bleed off surface pressure.
	13:30	Commence attempting to pass through restriction. just above PCT.
	15:15	Fire Tubing Conveyed Perforating guns.
	15:25	Start pull out of hole with drop bar.
	15:49	Close lubricator valve. Bleed down surface pressure and rig

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS -(Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
26.09.89	15:49	down wireline lubricator.
	16:02	Close swab valve and open kill valve.
	16:08	Pressure up to 2500 psi surface pressure and open up lubricator valve.
	16:10	Close kill valve.
	16:13	Open up well to burner flare on 2" choke.
	16:14	Vacuum at surface.
	16:16	Water cushion at bubble hose. Divert flow to gauge tank Initial dip = 50.5 cm
	16:17	Reduce choke to 16/64" adjustable.
	16:24	Shut inwell at PCT and close choke manifold. Cushion reco- vered 1.45 bbl.
	17:27	Open PCT. Well shut in at choke manifold.
	17:30	Open up well to gauge tank on 16/64" adjustable.
	18:27	Shut in well at PCT and close choke manifold. Cushion recovered of the second flow = 12.1 bbls
27.09.89	05:41	Open PCT. Well shut-in at choke manifold, commence clean-up.
	05:47	Open well at choke manifold on 16/64" fixed choke flow to gauge tank.
	06:00	Divert flow to burner. Total fluid (water cushion) recovered = 8 bbls.
	06:05	Change choke to 20/64" adjustable.
	06:06	Increase choke to 24/64"
	06:10	Increase choke to 32/64"
	07:05	PCT closed due to washed out manifold valve.
	07:10	PCT opened.
	08:05	Increase choke to 48/64" adjustable.
	10:27	Rock adjustable choke.
	10:45	Pump diesel to oil burners to attempt to ignite gas flare

N. DOP 108

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
27.09.89	10:45	(high CO2 content - 20% prevented flare from igniting).
	11:00	Flare ignites.
	11:45	Flare extinguishes itself due to CO2 content.
	12:50	Change to 48/64" fixed choke.
	14:10	Divert flow to burner.
	16:00	Divert flow through heater.
	16:15	Decrease choke to 32/64" fixed choke.
	16:30	Divert flow through separator.
	17:30	Start separator readings.
	18:00	Bypass separator.
	18:15	Divert flow through separator.
28.09.89	01:15	Commence rig up of Schlumberger surface control equipment and MUST.
	01:58	Shut in well at choke manifold, pump out gauge tank.
	02:37	Close lubricator valve bleed off pressure above to flare - close choke manifold to monitor pressure build-up above valve build-up = zero.
	02:40	Pick up Schlumberger lubricator and BOPs.
	04:25	Schlumberger equipment rigged up - MUST and TPT gauge in lubricator.
	04:56	Open kill valve pressure test Schlumberger equipment to 5000 psi.
	05:01	Test good - bleed off pressure to 600 psi above lubricator valve - close kill line.
	05:15	Open lubricator valve.
	05:25	RIH with MUST and TPT gauge.
	07:35	Open well flow on bypass to flare, slowly increase adjustable choke to 1/2".

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FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _(Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
28.09.89	07:40	Commence EZ tree and surface glycol injection to prevent hydrating..
	07:45	Change choke to 1/2" fixed bean.
	07:50	Divert flow to heater.
	08:00	Small fire detected at heater. Close choke manifold and hydraulic actuating wing valve at flowhead.
	08:02	Fire extinguished.
	10:00	Bleed off pressure between flowhead and choke manifold.
	10:30	Commence EZ tree glycol injection.
	10:55	Open flowhead valve monitor build-up at choke.
	11:25	Commence glycol injection at surface.
	11:32	Open well at choke manifold 3/16" adjustable flow to flare on bypass.
	11:38	Increase choke to 1/4" fixed bean.
	11:41	Change choke to 1/2" fixed bean.
	13:30	Divert flow through separator.
	13:45	Start taking separator readings.
	14:00	Switch condensate flow to gauge tank for flow rate readings.
	16:00	Pump some condensate to light the gas flare.
	19:15	Stop glycol injection.
	20:31	Start to empty condensate tank to burner.
	20:43	Start to empty water tank to burner.
	21:15	Finish emptying gauge tank.
29.09.89	00:53	Shut in well at choke manifold for build-up.
	01:00	Take one L.P. water sample from separator.
	01:15	Start flare - pump out gauge tank.
	01:45	Finish pumping.
	03:45	TPT gauge fails - start to unlatch MUST.

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _(Continuation)

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DATE	TIME	OPERATION
29.09.89	04:47	POOH with MUST and TPT gauge.
	07:35	Schlumberger electric line out of hole, no TPT gauge or
		MUST - tools are still latched - weak point of cable head
		had been pulled.
	07:37	Shut lubricator valve.
	07:39	Shut swab valve.
	07:44	Bleed down Schlumberger lubricator through stuffing box.-
		Schlumberger gauge = zero psi.
	07:49	Open lubricator valve.
	08:00	Unable to release lubricator nut suspect trapped pressure -
		open needle valve on lubricator unable to bleed off pressure -
		swab valve passing.
	08:07	Shut master valve.
	08:09	Bleed off pressure above master valve through choke manifold.
	08:15	Rig down Schlumberger lubricator.
	08:41	Rectify problem with swab valve, close swab valve open
		master valve well shut in at choke manifold.
	08:55	Rig down Schlumberger BOPs and surface control equipment.
30.09.89	00:00	Continue shut in well at surface.
1.10.89	00:00	Continue shut in well at surface.
	06:55	Start glycol injection at EZ tree.
	07:10	Start heater.
	07:19	Open well on 1/4" fixed bear bypass to flare - start glycol
		injection at surface.
	07:45	Shut down heater.
	08:30	Pressure up separator - divert flow back to bypass - commence
		dumping condensate in separator to gauge tank.

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FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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DATE	TIME	OPERATION
1.10.89	09:55	Shut in well at choke manifold.
	11:00	Take one L.P. condensate sample from separator.
	11:48	Open well on 1/8" fixed choke flow to bypass.
	12:00	Take one H.P. PVT oil sample from separator, bottle # 8288
		N476.
	13:22	Divert flow through separator.
	13:30	Change differential pressure range to 100" WC.
	14:15	Insert orifice plate size = 0.750"
	21:00	Start taking PVT sample #1
		Oil bottle: 12689/92
		Gas bottle: A12134
	22:00	Start taking PVT sample #2
		Oil bottle: 80-291/53
		Gas bottle: A13762
	22:30	Start taking two gas samples
		Gas bottle: A11924
	23:00	Gas bottle: A13752
	23:45	Increase choke to 1/4" fixed bean.
2.10.89	01:30	Change orifice plate to 0.750"
	02:18	Bypass separator, flow to flare, shut in well at choke manifold.
	02:30	Open kill valve on flowhead.
	02:33	Halliburton commences pumping kill fluid down tubing into formation.
	16:30	Stop bullhead, observe well.
	18:06	Close PCT.
	18:14	Attempt to open MIDRV.
	20:56	MIDRV fail to open.
	21:72	OPen SHORT.

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FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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DATE	TIME	OPERATION
2.10.89	21:22	Open SHORT.
	21:32	Start to reverse out.
	22:00	Stop reverse circulating (trip tank overflow).
	23:19	Continued reversing to trip tank.
3.10.89	03:00	Stop reversing monitor well at rig choke line.
	03:15	Close flowhead wing valve (actuator) bleed off ann. pressure in flowline to flare break off coflex hose.
	03:30	Open RAMS unseat packer.
	03:40	Packer unseated sit back down on hanger re-connect coflex hose commence circulating.
	07:19	Stop circulating, observe wells behaviour at rig choke line.
	08:00	Close master valve - hook-up Halliburton to the kill line - flush through Schlumberger equipment and lines with fresh water
	08:20	Open master valve - no pressure, close actuator valve rig down coflex hose and flowhead.
	09:56	Rig down long bails - pick up rig bails and elevators.
	10:15	Rig down choke manifold.
	10:50	Commence POOH.
	11:04	Lubricator valve at surface - rig down and rack back.
	12:30	EZ tree on surface, unlatch and wash down mud on hydraulic and valve assembly.
	13:30	Latch back EZ tree and rack back on deck.
	13:45	Start pull out of hole with 3.5" VAM tubing.
4.10.89	05:30	MUST out of hole.
		END OF TEST

**SCHLUMBERGER
TESTING**

WELL TESTING DATA SHEET — (Continuation)

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Section

7

DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				SEPARATOR				PROD. RATES AND FLUID PROPERTIES				GOR	
Time HR	Cumul MINS	BOTTOM HOLE		WELL HEAD		OIL OR CONDENSATE		GAS		Rate	Gravity	Rate	Gravity	Air = 1	Units
		Temp.	Pressure	Tg. Temp. C	Tg. press PSIG	Cg. press.	Temp.	Press.	Rate						
15:27	12			13	2130										
15:28	13			13	2180										
15:29	14			13	2200										
15:30	15			13	2230										
15:31	16			13	2260										
15:32	17			13	2280										
15:33	18			13	2295										
15:34	19			13	2320										
15:35	20			13	2330										
15:40	25			13	2390										
15:45	30			13	2435										
15:49	34			13	2485										
16:08	53			13	2587										
16:10	55			13	2587										
16:13	58/0			13	2589										
16:14	1			13											
16:16	3			13											
16:17	4			13											

Close lubricator valve, bleed down surface pressure
Open lubricator valve
Open up well to burner
Vacuum at surface
Water cushion at bubble hose divert flow to tank
Reduce choke to 16/64" adjustable

**SCHLUMBERGER
TESTING**

WELL TESTING DATA SHEET -- (Continuation)

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DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		
		BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate	Gravity
HRS	MINS			C	PSIG	PSIG					BSW	Air = 1
Units												
18:20												
18:25	55			13	36							
18:27	57/0											
												13.6 bbbls
27 SEPTEMBER 1989												
05:20	653			11	150							
05:30	663			11	260							
05:41	674/0			11	260							
05:42	1			11	900	1500						
05:43	2			11	1045	1500						
05:44	3			11	1200	1500						
05:45	4			11	1330	1500						
05:46	5			11	1500	1500						
05:47	6/0			11	1510	1500						
05:48	1			11	940	1500						
05:49	2			11	350	1500						
05:50	3			11	270	1500						
05:51	4			12	230	1500						
05:52	5			12	210	1500						
										Open well 16/64" fixed choke flow to gauge tank		
										Water to surface		
										Gas to surface		
										BSW = 100% H2O Trace 0.1		

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DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		
Time	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		
		Temp.	Pressure	Tg. Temp.	Tg. press	Temp.	Press.	Rate	Gravity	Rate	Gravity	
HRS				C	PSIG	PSIG	PSIG				Air = 1	Units
07:30												
07:40	90			13	80	1500			H2O wt = 1.0 ppg	well slugging		
07:50	100			13	82	1500						
08:00	110			13	90	1500						
08:05	115/0			13	90	1500			Increase choke to 48/64" adjustable			
08:15	10			13	18	1500			BSW = 100% water	trace sediment - gas	20% CO2	
08:30	25			13	20	1500			BSW = 100% water	gas = 20%	water weight = .99 ppg	
08:45	40			15	60	1500			Flare does not	light	due to high CO2 content	
09:00	55			17	230	1500						
09:15	70			17	140	1500			Gas only	BSW = 0	liquids CO2 = 20%	H2S = 0
09:27	82			17	150	1500			Mud to surface			
09:30	85			16	170	1500			BSW = 100% mud	gas	20% CO2	
09:45	100			16	383	1500						
10:00	115			15	695	1500			BSW = 100% mud			
10:15	130			16	525	1500			BSW = 100% mud	gas = 20%	CO2	
10:27	142			16	500	1500			Rock adjustable	choke		
10:30	145			16	385	1500						
10:45	160			16	395	1500			Pump diesel to	flare	to attempt to ignite	gas flare
11:00	175			15	385	1500			Gas flare	ignites		

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BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS								
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	CO2	Units	
HRS	MINS	C	PSIG	PSIG	PSIG	PSIG							Air = 1	%	ppm	
11:00																
11:15	190	15		345	1500											
11:30	205	15		395	1500				Mud and gas at surface					21	0	
11:45	220	15		390	1500				Gas flare extinguishes itself due to high CO2 content							
12:00	235	16		387	2100				Gas at surface					20	0	
12:15	250	16		390	2050											
12:30	265	15		405	2100				BSW = 70% water, 15% emulsion, 15% condensate							
12:45	280	15		495	2100											
12:50	285/0	14		440	2100				Change to 48/64" fixed choke					2	0	
13:00	10	17		380	2100									1.5	0	
13:15	25	17		280	2100				BSW = 60% water					3.5		
13:30	40	16		170	2100				BSW = 50% water							
13:45	55	14		158	2100									3.5		
14:00	70	14		110	1950				BSW = 40% water							
14:10	80	14		150	1950				Divert flow to oil burner							
14:15	85	14		155	1950				BSW = 60% ; 40% emulsion							
14:30	100	15		155	2000				Divert flow to gas flare							
14:45	115	15		175	2000				BSW = 15% water					22	0	
15:00	130	15		200	2000				BSW = 50% water, 5% emulsion							

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		BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE			GAS						
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	SCF	C02	H2O	
HRS	MINS	C	PSIG	C	PSIG	PSIG	C	PSIG	BBLSD/D	SG	%	MMSCFD	Air = 1	BBL	%	PPM	
19:30																	Units
19:45	210	14	295	1990	1990	1990	98	165				0.877					
20:00	225	14	320	1950	1950	1950	98	165				0.942			1.5	nil	
20:15	240	14	335	1950	1950	1950	98	165				0.988					
20:30	255	14	334	1980	1980	1980	98	165				1.15					
20:45	270	14	315	1990	1990	1990	100	165				1.15					
21:00	285	14	320	1990	1990	1990	100	165	63	0.783	0	1.15			2	nil	203
21:15	300	14	280	1990	1990	1990	100	165				1.02					
21:30	315	14	292	1990	1990	1990	100	165	113		0	0.971					50
21:45	330	14	345	1990	1990	1990	100	165				1.11					
22:00	345	14	340	2000	2000	2000	98	165	162		0	1.15					152
22:15	360	14	315	2000	2000	2000	100	165				1.02	0.940				
22:30	375	14	302	1990	1990	1990	100	165	153	0.782	0	1.15					152
23:45	390	14	295	2000	2000	2000	100	165				0.971					
23:00	405	14	315	2005	2005	2005	100	165	113		0	1.02					101
23:15	420	14	332	2005	2005	2005	100	165				1.15					
23:30	435	14	320	2050	2050	2050			126	0.782	0	1.09	0.940				139
23:45	450	14	315	2050	2050	2050	100	165				0.991					
00:00	465	14	293	1950	1950	1950	100	165	113	0.782	0	1.09					126

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DATE — TIME	PRESSURE AND TEMPERATURE MEASUREMENTS					PROD. RATES AND FLUID PROPERTIES					GOR	
	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS			
	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate		Gravity
HRS	MINS	C	PSIG	PSIG								Units
02:07												
02:08	10	14	387	1850								
02:09	11	14	400	1850								
02:10	12	14	405	1850								
02:15	17	14	445	1850								
02:20	22	14	495	1850								
02:25	27	13	543	1850								
02:30	32	13	575	1850								
02:37	39	13	623	1850								
02:40	42											
04:25	147											
04:56	178											
05:01	183											
05:15	197/0	12	1500	1850								
05:16	198	12	1850	1850								
05:17	199	12	1870	1850								

Close lubricator valve - open choke manifold bleed off
 pressure above lub valve to flare. Close choke manifold to monitor
 any pressure increase above the lub valve.
 Pick up Schlumberger lubricator and HOPs
 Schlumberger equipment rigged up. MUST and THT gauge in lubricator.
 Pressure test Schlumberger equipment to 5000 psi.
 Pressure test OK, bleed off pressure to 600 psi above lubricator
 valve close kill line valve.
 Open lubricator valve.

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		BOTTOM HOLE		WELL HEAD		Temp.		Temp.		Rate		Rate		Rate		Rate			
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	PSIG	PSIG	PSIG	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	Gravity	Units	
HRS	MINS			C															
05:17																			
05:18	200			12	1920	1820													
05:19	201			12	1936	1820													
05:20	202			12	1960	1820													
05:21	203			12	1988	1820													
05:22	204			12	2015	1820													
05:23	205			12	2030	1820													
05:24	206			12	2043	1820													
05:25	207			12	2051	1820													
05:30	212			12	2082	1820													
05:35	217			12	2100	1820													
05:40	222			12	2150	1820													
05:45	227			12	2210	1820													
05:50	232			12	2280	1800													
06:00	242			12	2370	1800													
06:10	252			12	2450	1800													
06:20	262			12	2520	1800													
06:30	272			12	2560	1800													
06:45	287			12	2627	1800													

RIH with MUST and TPT gauge

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Time HRS	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS	
		Temp.	Pressure	Ig. Temp.	Ig. press	Temp.	Press.	Rate	Gravity	Rate	Gravity
				C	PSIG	PSIG	PSIG				Air = 1
06:45											
07:00				12	2670	1800					
07:15				12	2710	1800					
07:30				12	2710	1800					
07:35				12	2715	1800					
07:36	1				2500						
07:37	2				2350						
07:38	3			12	1910	1850					
07:39	4			12	1750	1850					
07:40	5			12	1700	1850					
07:41	6			12	1670	1850					
07:42	7			12	1600	1850					
07:43	8			12	15	1850					
07:44	9			12	1570	1850					
07:45	10			12	1420	1850					
07:50	15			12	1210	1850					
07:55	20			12	1070	1850					
08:00	25/0			12	980	1850					

Open well flow on by-pass to flare - slowly increase variable to 32/64"

Commence glycol injection at surface and subsea

Safety valve

Change choke to 32/64" fixed bean

Divert flow to heater

Small fire detect at heater close in well

at choke manifold and flowhead automatic actuating valve

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DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		
Time	Cumul HRS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		Units
		Temp.	Pressure	Tg. Temp	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate		Gravity
	MINS		C	PSIG	PSIG						Air = 1	
08:00												
08:02	2											
10:00	120											
10:30	150											
11:00	180											
11:05	185		20	2750	1800							
11:15	195		19	2780	1800							
11:20	200		19	2793	1800							
11:25	205		19	2805	1800							
11:30	210		18	2820	1800							
11:33	213/0		18	2820	1800							
11:34	1		17	2695	1850							
11:35	2		16	2600	1850							
11:36	3		15	2550	1850							
11:37	4		15	2520	1850							
11:38	5/0		15	2310	1850							
11:39	1		13	2280	1850							
11:40	2		12	2150	1850							

Fire out

Bleed off pressure between flowhead valve and choke manifold

Commence subsea glycol injection

Open flowhead valve - monitor build up at choke

Commenced glycol injection at surface

Open well at choke manifold 12/64" variable choke

flow to flare on bypass

Increase choke to 16/64" variable

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		BOTTOM HOLE		WELL HEAD		Temp.		Press.		OIL OR CONDENSATE		GAS		
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press.	Cg. press.	Temp.	Press.	Rate	Gravity	Rate	Rate	Gravity	
HRS	MINS	C	PSIG	PSIG	PSIG								Air = 1	Units
11:40														
11:41	3/0	12	1910	1850										
11:42	1	11	1650	1850										
11:43	2	9	1425	1850										
11:44	3	9	1375	1850										
11:45	4	9	1275	1850										
11:46	5	9	1190	1850										
11:47	6	9	1150	1850										
11:48	7	10	1090	1850										
11:49	8	10	980	1850										
11:50	9	11	970	1850										
11:51	10	12	965	1850										
11:52	11	13	900	1850										
11:53	12	13	850	1850										
11:55	14	14	816	1850										
12:00	19	16	795	1850										
12:15	34	17	680	2000										
12:30	49	17	539	2050										
12:45	64	17	565	2050										

Change choke to 32/64" fixed bean

BSW = gas and condensate CO2 = 1%

BSW = gas and condensate

BSW = 60% water 25% emulsion 15% condensate 1% CO2

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		BOTTOM HOLE		WELL HEAD			Temp.		Press.			OIL OR CONDENSATE		GAS				
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	F	PSIA	Rate	Gravity	BSW	Rate	Rate	Gravity	SCF	CO2	Units	
HRS	MINS	C	PSIG	PSIG	PSIG	PSIG		PSIA	BBL/D	SG	%	MSCF/D	Air = 1	BBL	%			
12:45																		
13:00	79	17	510	2050														
13:15	94	17	423	1980														
13:30	109	17	342	1980					Divert flow through separator									
13:45	124	16	299	2000	63	165						0.982	0.925					
14:00	139	16	282	2000	61	165						0.880			1	nil		
14:15	154	15	292	2040	61	165						0.880						
14:30	169	15	305	2040	59	165			114	0.726	0	936	0.935	8210			126	
14:45	184	14	315	2040	59.5	165						900						
15:00	199	14	332	2020	57	165			139	0.776	0	920		6618	1.0	nil	126	
15:15	214	14	332	2000	57	165						903						
15:30	229	15	315	2000	57	165			202	0.776	0	903		4470			152	
15:45	244	15	315	1990	55	165						992						
16:00	259	15	319	1990	55	165			190	0.776	0	905		4763	1.0	nil	126	
16:15	274	15	307	1980	55	165						923	0.935					
16:30	289	15	319	1950	55	165			139	0.775	0	923		6640			126	
16:45	304	15	312	1950	55	165						940						
17:00	319	15	319	1910	55	165			140		0	905		6464	1.0	nil	139	
17:15	334	15	287	1950	54	165						906						

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DATE — TIME	PRESSURE AND TEMPERATURE MEASUREMENTS				SEPARATOR				PROD. RATES AND FLUID PROPERTIES				GOR		
	BOTTOM HOLE		WELL HEAD		Temp.		Press.		OIL OR CONDENSATE		GAS		CO ₂	H ₂ S	
Time	Temp.	Pressure	Tg. Temp.	Psig	Cg. Press.	F	PSIA	Rate	Rate	Rate	Rate	Rate	SCF	PPM	
HRS	MINS	C	PSIG	PSIG	PSIG	F	PSIA	BBL/D	BSW	MSCF/D	Air = 1	%	BBL	Units	
17:15															
17:30	349		15	312	1950	54	165	140	0	906			6471		101
17:45	364		15	297	1990	54	165			871	0.928				
18:00	379		15	305	1990	54	165	152	0	812		1.0	5342	nil	126
18:15	394		15	292	1990	54	165			852					
18:30	409		15	282	1990	54	165	152	0	812			5342		152
18:45	424		15	286	1990	54	165			832					
19:00	439		15	286	1990	54	165	152	0	909	0.928	0.5	5980	nil	101
19:15	454		15	277	1990	54	165			909	0.928				
19:30	469		15	282	1990	54	165	127	0	909	0.928		7157		139
19:45	484		15	291	1990	54	165			812	0.928				
20:00	499		15	292	1990	54	165	178	0	812	0.928	1.0	4561	nil	76
20:15	514		15	274	1990	54	165			909	0.928				
20:30	529		15	255	1995	54	165	102	0	812	0.928		7960		88
20:45	544		15	252	2000	54	165			812	0.928				
21:00	559		15	252	2000	54	165			770	0.928	1.0		nil	
21:15	574		15	257	2000	54	165			770	0.928				
21:30	589		15	225	2000	54	165	102	0	749	0.928		7343		101
21:45	604		15	302	1900	54	165			707	0.915				

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Time HRS	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		Rate	Gravity	Air = 1	Units
		Temp.	Pressure	Tg. Temp.	Cg. press.	Temp.	Press.	Rate	Gravity	Rate	Gravity				
00:55															
00:56	3			14	320		1950								
00:57	4			14	330		1950								
00:58	5			14	340		1950								
00:59	6			14	348		1950								
01:00	7			14	355		1950								
01:01	8			14	360		1950								
01:02	9			14	368		1910								
01:03	10			14	398		1910								
01:08	15			14	440		1910								
01:13	20			14	493		1910								
01:15	22			14	510		1910								
01:20	27			14	530		1910								
01:25	32			14	563		1910								
01:30	37			14	597		1950								
01:35	42			14	515		1950								
01:40	47			14	640		1950								
01:45	52			14	694		1950								
02:00	67			14	790		1950								

Take one L.P. H2O sample

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DATE -- TIME	PRESSURE AND TEMPERATURE MEASUREMENTS			PROD. RATES AND FLUID PROPERTIES				G O R	Units		
	BOTTOM HOLE		WELL HEAD	SEPARATOR		OIL OR CONDENSATE				GAS	
Time	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate	Gravity
HRS	MINS	C	PSIG	PSIG	PSIG				Air = 1		
02:00											
02:15	82		14	887	1950						
02:30	97		14	983	1950						
02:45	112		14	1065	1950						
03:00	127		14	1138	1950						
03:15	142		14	1217	1950						
03:30	157		14	1385	1950						
03:45	172		14	1425	1950			TPT gauge failure, start to unlatch	MUST actuator		
04:15	187		14	1538	2000						
04:30	202		14	1635	2000						
04:45	217		14	1638	2000						
04:47	219							MUST unlatched POOH			
05:00	232		14	1750	2000						
05:15	247		14	1800	2000						
05:30	262		14	1860	2000						
05:45	277		14	1913	2000						
06:00	292		14	1955	2000						
06:15	307		14	1997	1900						
06:30	322		14	2027	1900						

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		BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE			GAS				
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity		
HRS	MINS			C	PSIG	PSIG							Air = 1	Units	
06:30															
06:45	337			13	2058	1850									
07:00	352			13	2080	1850									
07:15	367			13	2102	1850									
07:35	387			13	2127	1850									
									Schlumberger cable out of hole - no MUST actuator or TPT gauge - tools are still latched into MUST valve assembly - cable weakpoint had been broken						
07:37	389			13	2130	1850									
07:39	391														
07:49	401			13	2153	1800									
08:07	419			13	2150	1800									
08:09	421														
08:15	427														
08:41	453														
									Bleed off pressure above master valve through choke manifold						
08:45	457			17	2183	1910									
08:55	467														
09:00	472			17	2220	1910									
09:15	487			17	2250	1910									
									Rig down Schlumberger BOPs and surface control equipment						

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DATE - TIME			PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		
Time HRS	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		Rate	Gravity Air = 1
		Temp.	Pressure	Tg. Temp. C	Tg. press PSIG	Cg. press. PSIG	Temp.	Press.	Rate	Gravity	Rate			Gravity
18:15													
18:30	1042			15	2970	1910							
18:45	1057			15	2988	1900							
19:00	1072			15	3005	1900							
19:15	1087			15	3013	1900							
19:30	1102			15	3022	1900							
19:45	1117			15	3036	1900							
20:00	1132			14	3050	1900							
20:15	1147			14	3065	1900							
20:30	1162			14	3075	1900							
20:45	1177			14	3085	1900							
21:00	1192			14	3100	1900							
21:15	1207			14	3105	1900							
21:30	1222			14	3115	1900							
21:45	1237			14	3127	1900							
22:00	1252			14	3145	1900							
22:15	1267			14	3150	1900							
22:30	1282			14	3160	1900							

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

7

Section

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DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS						PROD. RATES AND FLUID PROPERTIES									
		BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		GOR					
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	Rate	Gravity	Rate	
HRS	MTNS			C	PSIG	PSIG									Air = 1		
12:30																	
13:00	2152			17	3540	2080											
13:30	2182			17	3550	2050											
14:00	2212			17	3558	2080											
14:30	2242			16	3563	2000											
15:00	2272			16	3570	2000											
15:30	2302			16	3577	1950											
16:00	2332			15	3581	1900											
16:30	2362			15	3590	1910											
17:00	2392			15	3600	1950											
17:30	2422			15	3605	1900											
18:00	2452			15	3612	1890											
18:30	2482			15	3617	1890											
19:00	2512			15	3624	1890											
19:30	2542			14	3633	1890											
20:00	2572			14	3633	1850											
20:30	2602			14	3642	1900											
21:00	2632			14	3650	1900											
21:30	2662			14	3654	1900											

Units

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS						PROD. RATES AND FLUID PROPERTIES						GOR	
BOTTOM HOLE		WELL HEAD			SEPARATOR			OIL OR CONDENSATE			GAS				
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity		
HRS	MINS	C	PSIG	PSIG	PSIG	PSIG							Air = 1	Units	
05:30															
06:00	3727	12		3732	1900										
06:30	3757	11		3735	2000										
06:55	3782	11		3738	2000										
07:10	3797	11		3742	2000										
07:19	3806/0	11		3745	2000										
07:30	1	10		2750	1990										
07:21	2	10		2550	1990										
07:22	3	10		2350	1990										
07:23	4	10		2060	1990										
07:24	5	11		1700	1990										
07:25	6	11		1620	1990										
07:30	11	10		1535	1990										
07:35	16	10		1440	1990										
07:40	21	10		1395	1990										
07:45	26	10		1340	1900										
07:50	31	10		1300	1900										
07:55	36	10		1262	1900										
08:00	41	10		1230	1900										

Start glycol injection at EZ tree
Start heater
Open well on 16/64" fixed bean by-pass to flare inject surface glycol
Gas at surface
22% CO2
Gas at surface
Heater shut down

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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Section

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DATE — TIME			PRESSURE AND TEMPERATURE MEASUREMENTS					PROD. RATES AND FLUID PROPERTIES						
BOTTOM HOLE		WELL HEAD			SEPARATOR		OIL OR CONDENSATE			GAS		GOR		
Time	Cumul	Temp	Pressure	Tg. Temp	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	Units
HRS	MINS			C	PSIG	PSIG							Air = 1	
11:20														
11:25	90			12	398	2000								
11:30	95			12	422	2000								
11:35	100			12	422	2000								
11:40	105			12	427	2000								
11:45	110			12	439	2000								
11:48	113/0			12	440	2000								
11:49	1			13	437	2000								
11:50	2			13	430	2000								
11:51	3			13	428	2000								
11:52	4			14	427	2000								
11:53	5			14	426	2000								
11:54	6			14	426	2000								
11:55	7			14	425	2000								
11:56	8			14	425	2000								
11:57	9			14	424	2000								
11:58	10			15	424	2000								
11:59	11			15	423	2000								
12:00	12			15	423	2000								

Take one PVT condensate sample from separator

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS						PROD. RATES AND FLUID PROPERTIES						GOR				
		BOTTOM HOLE			WELL HEAD			SEPARATOR			OIL OR CONDENSATE			GAS				
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Temp.	Rate	Gravity	Rate	Rate	Rate	Gravity	Rate	Gravity	Units
HRS	MINS	C	PSIG	PSIG	PSIG	F	PSIA	PSIA	MSCF/D	MSCF/D	Air = 1	MSCF/D	MSCF/D	Air = 1	MSCF/D	Air = 1	MSCF/D	Units
12:00																		
12:05	17	14	421	2000														
12:10	22	14	418	2000						CO2 = 0.3% H2S = nil								
12:15	27	14	415	2000														
12:30	42	14	413	2000														
12:45	57	14	410	2000														
13:00	72	14	409	2000														
13:15	87	14	415	2000														
13:22	94	14	422	2000						Divert flow through separator								
13:30	102	14	426	2000														
13:45	117	14	428	2000														
14:00	132	15	417	2000														
14:15	147	13	403	2000														
14:30	162	13	427	2000	57	75						75			1.010			
14:45	177	13	450	2000	57	75						82			1.010			
15:00	192	13	469	2000	57	75						82			1.010			
15:15	207	13	492	2000	57	75						82			1.010			
15:30	222	13	515	2000	57	75						85			1.010			
15:45	237	13	542	2000	57	75						89			1.010			

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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Section

7

DATE — TIME				PRESSURE AND TEMPERATURE MEASUREMENTS						PROD. RATES AND FLUID PROPERTIES						GOR		
BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		OIL OR CONDENSATE		GAS		GOR				
Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW %	Rate	Gravity	Rate	Gravity	Rate	Gravity	SCE/	H2O	
HRS	MIN	C	PSIG	PSIG	F	PSIA	BLS/D	SG	%	MSCF/D	Air = 1	MSCF/D	Air = 1	MSCF/D	Air = 1	BLS	Units	
15:45																		
16:00	252	13	555	2000	57	75								95	1.010			
16:15	267	13	570	2000	57	75								95	1.010			
16:30	282	13	584	2000	55	80	63	.762	0	94	0.965	1492						
16:45	297	13	600	2000	55	80				100	0.965							
17:00	312	13	608	2010	55	85	51	.762	0	110	0.965	2156						
17:15	327	12	633	2010	55	85				86	0.965							
17:30	342	12	660	2010	54	85	63			94	0.965	1492						
17:45	357	12	672	2010	54	85				86	0.965							
18:00	372	12	667	2070	54	90	51	.762	0	89	0.965	1745						63
18:15	387	12	662	2000	54	90				89	0.965							
18:30	402	12	662	2010	52	90	0			97	0.965							38
18:45	417	12	662	2020	52	90				100	0.965							
19:00	432	12	660	2040	52	90	15			100	0.965	6666						38
19:15	447	12	664	2020	52	90				100	0.965							
19:30	462	12	672	2020	52	90	25			104	0.965	4160						63
19:45	477	12	685	2020	52	90				96	0.965							
20:00	492	12	698	2010	50	100	38			93	0.965	2447						12
20:15	507	12	706	2010	50	100				97	0.965							

FLOPETROL

DIVISION : ANZ
BASE = BEF
REPORT N° : 01/89

Well Testing Report Annexes —

Client : PETROFINA
Field : VIC/PZO Well : ANEMONE 1A
Zone : DST #1 Date : 22 SEP - 04 OCT 1989

INDEX of ANNEXES

- 1 - BOTTOM HOLE PRESSURE AND TEMPERATURE MEASUREMENT -
 - 1.1 - B.H. gauge calibration -
 - 1.2 - B.H. pressure calculation -
 - 1.3 - B.H. temperature calculation -

- 2 - LIQUID PRODUCTION RATE MEASUREMENT -
 - 2.1 - Measurements with tank -
 - 2.2 - Measurements with meter -

- 3 - GAS PRODUCTION RATE MEASUREMENT -

- 4 - SAMPLING SHEETS -
 - 4.1 - Bottom hole sampling -
 - 4.2 - Surface sampling -

- 5 - CHARTS AND MISCELLANEOUS -

LIQUID PRODUCTION RATE MEASUREMENT2.1 - MEASUREMENT WITH TANK -

$$V_o = V \times K \times (1 - BSW)$$

V_o : Net oil volume at 60°F and atmospheric pressure.

V : Gross oil volume measured by tank gauging.

K : Volume correction factor to be applied between the tank temperature during gauging and 60°F.

BSW: Basic sediments and water.

2.2 - MEASUREMENT WITH METER -

a) Shrinkage factor is measured by shrinkage tester.

$$V_o = V_S \times f \times (1 - Shr) \times K \times (1 - BSW)$$

V_o : Net oil volume at 60°F and atmospheric pressure.

V_S : Gross oil volume measured by meter under separator conditions.

f : Meter correction factor = $\frac{\text{Volume measured in tank}}{\text{Volume measured by meter}}$

Shr : Percentage of oil volume reduction between separator and tank conditions, reported to oil volume at separator conditions.

K : Volume correction factor to be applied between the final temperature during shrinkage measurement and 60°F.

BSW: Basic sediments and water.

b) Shrinkage factor is measured with tank.

$$V_o = V_S \times (1 - Shr') \times K \times (1 - BSW)$$

V_o, V_S, K and BSW : Same meaning as in a).

$(1 - Shr')$: Shrinkage factor including meter correction factor.

FLOPETROL

Client: PETROFINA

- OIL PRODUCTION RATE -

Section: ANNEX **2.1**

Field : VIC/PZO
Well : ANEMONE 1A

- MEASUREMENT WITH TANK -

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Base : BEE

DATE - TIME	Gauge graduation	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO V _o BBLs	Net STO product. rate BBLs /day	Cumulative production	Units
		Volume V BBLs	Temp. F	Gravity SG	Temp. F							Grav. 60°F SG
27 SEPTEMBER 1989											
07:10		Open up well on 32/64" adjustable choke to flare									
12:50		Change to 48/64" fixed choke									
16:15		Change to 32/64" fixed choke, flow through heater									
16:30		Divert flow through separator									
17:15	15	By-pass flow meter to gauge tank, calibration 0.264 bbl/cm									
17:30	15										
17:45	15	3.4	68	0.782	57	0.78	10	3.045	292		
18:00	15	3.7	68				45	2.023	194		
18:20		By-pass separator									
18:30	10	Divert flow through separator									
19:30	60	8.700					3	8.4	202		
19:45	15	Start to drain water level in separator									
20:30	15			0.785	54	0.783	0				

TESTED INTERVAL : 4599 PERFORMATIONS : 4652 METERS

CONDENSATE

No.: DOP 121

FLOPETROL MEASUREMENT WITH TANK -(Continuation)										Page Report N°: 59 01/89		Section : ANNEX 2.1	
DATE - TIME Interval	Gauge graduation CM	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO BBL	Net STO product. BBL /day	Cumulative production	Units		
		Volume V BBL	Temp. F	Gravity SG	Temp. F								
20:30													
21:00	108	1.320	70	0.785	54	0.994	0	1.312	63				
21:30	117	2.370	72			0.993	0	2.353	113				
22:00	130	3.400	72			0.993	0	3.376	162				
22:30	142	3.200	70	0.784	55	0.994	0	3.181	153				
23:00	151	2.376	72			0.993	0	2.359	113				
23:30	161	2.640	72			0.993	0	2.122	126				
24:00	170	2.38	72			0.993	0	2.360	113				
28 SEPTEMBER 1989													
00:30	179	2.38	63	0.784	55	0.998	0	2.37	113.8				
01:00	189	2.640	63	0.784	55	0.998	0	2.63	126.24				
01:30	199	2.640	63	0.784	55	0.998	0	2.63	126.24				
01:58	208	2.38	63	0.784	55	0.998	0	2.37	113.8				
						Shut well in - pump out gauge tank							
11:33						Open up well on 12/64" adjustable choke							
11:38	5					Change to 16/64" adjustable choke							
11:41	3					Change to 32/64" fixed choke							
13:30	109					Divert flow through separator							

CONDENSATE

No.: DOP 121

DATE - TIME		Gauge graduation CM	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO V _o BBL	Net STO product. rate BBL / day	Cumulative production Units
			Volume V BBL	Temp. F	Gravity SG	Temp. F						Gravity SG
13:30											
14:00	30	23			0.775	63		0.776	Switch oil outlet to gauge tank		
14:30	30	32	2.376	66			0.996		2.366	114	
15:00	30	43	2.904	64			0.998		2.898	139	
15:30	30	59	4.224	61			0.999		4.219	202	
16:00	30	74/70	3.96	59			1.001		3.964	190	Pump condensate
16:30	30	81	2.90	56	0.776	57	1.002	0.775	2.910	139	to burner
17:00	30	92	2.90	54			1.004		2.915	140	
17:30	30	103	2.90	51			1.006		2.921	140	
18:00	30	115	3.168	50			1.006		3.187	152	
18:30	30	127	3.168	50			1.006		3.187	152	
19:00	30	139	3.168	50			1.006		3.187	152	
19:30	30	149	2.64	50			1.006		2.656	127	
20:00	30	163	3.696	50			1.006		3.718	178	
20:30	30	171	2.112	50			1.006		2.124	102	
20:31	1		Start to empty the gauge tank								
21:00	29	39									
21:30	30	47	2.112	50	0.776	57	1.006	0.775	2.124	102	

CONDENSATE

No.: DOP 121

DATE - TIME		MEASUREMENT WITH TANK - (Continuation)										Page Report N° : <u>61</u> <u>01/89</u>		Section : ANNEX 2.1	
		Interval	Gauge graduation	TANK VOLUME		STO GRAVITY		K	B SW	Net volume of STO	Net STO product. rate	Cumulative production	Units		
HRS	MINS	CM	Volume	Temp.	Gravity	Temp.	SG	SG	%	BBL	BBL / day				
21:30															
22:00	30	60	3.432	50	0.775	40	0.767	1.006	0	3.452	165				
22:30	30	75	3.960	50	0.775	40	0.767	1.006	0	3.983	191				
23:00	30	83	2.112	50	0.775	40	0.767	1.006	0	2.124	102				
23:30	30	93	2.64	48	0.775	40	0.767	1.008	0	2.661	127				
24:00	30	105	3.036	48	0.775	40	0.767	1.008	0	3.06	147.0				
29 SEPTEMBER 1989															
00:30	30	114	2.376	48	0.775	40	0.767	1.008	0	2.395	114.96				
00:53	23	121	1.85	48	0.775	40	0.767	1.008	0	1.86	116.45				
00:53								Shut in	well at choke manifold, drain tank						
01 OCTOBER 1989															
11:48								Open up	well on 8/64" fixed choke to flare						
13:22	94							Divert flow	through separator						
16:00	278	37			0.768	46	0.762								
16:30	30	42	1.32	55	1.768	46	0.762	1.003	0	1.323	63				
17:00	30	46	1.056	55	1.768	46	0.762	1.003	0	1.059	51				
17:30	30	51	1.32	55	0.768	46	0.762	1.003	0	1.323	63				
18:00	30	55	1.056	54				1.004	0	1.060	51				

FLOPETROL MEASUREMENT WITH TANK - (Continuation) Page Report N°: 62 Section: ANNEX 2.1
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DATE - TIME	Gauge graduation	TANK VOLUME		STO GRAVITY			K	BSW %	Net volume of STO V _o BBL	Net STO product. rate BBL /day	Cumulative production	Units
		Volume V BBL	Temp. F	Gravity SG	Temp. F	SG						
18:00												
18:30	55	1.056	54			1.004	0	1.060	51			
18:30	55	0						0	0			
19:00	56	0.264	52			1.005		0.265	15			
19:30	58	0.528	52			1.005		0.530	25			
20:00	61	0.792	50			1.006		0.796	38			
20:30	66	1.32	50			1.006		1.327	63			
21:00	72	1.58	50			1.006		1.593	76			
21:30	75	0.792	48			1.008		0.798	38			
22:00	78	0.792	46			1.009		0.799	38			
22:30	82	1.056	46			1.009		1.065	51			
23:00	86	1.056	46			1.009		1.065	51			
23:30	30	Low condensate level in separator										
23:45	15	Increase choke to 1/4" fixed										
2 OCTOBER 1989												
00:15	85						0					
00:45	87.5	0.667	46	0.768	46	1.009	0	0.666	31.97			
01:15	90.0	0.66	46	0.77	48	1.008	0	0.665	31.92			

FLOPETROL		MEASUREMENT WITH TANK - (Continuation)										Page Report N°: 64 01/89		Section: ANNEX 2.1	
DATE - TIME	Interval	Gauge graduation	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO V _o BBL	Net STO product. rate BBL /day	Cumulative production	Units			
			Volume V BBL	Temp.	Gravity	Temp.							Grav. 60°F		
18:20															
19:45															
20:30	15	48													
21:00	30	64	4.224	70				4.224	203						
21:30	30	68	1.056	72	1.0			1.056	50						
22:00	30	80	3.200	72				3.200	152						
22:30	30	92	3.168	70				3.168	152						
23:00	30	100	2.112	72	1.0			2.112	101						
23:30	30	111	2.904	72				2.904	139						
24:00	30	121	2.640	72	1.0			2.640	126						
28 SEPTEMBER 1989															
00:30	30	131	2.64	63	1.0			2.64	126						
01:00	30	142	2.90	63	1.0			2.90	139						
01:30	30	152	2.64	63	1.0			2.64	126						
01:58		160	2.112	63	1.0			2.112	94.6						
			Shut in well, pump out gauge tank												
11:33			Upon up well on 12/64" adjustable to flare												

FLOPETROL

MEASUREMENT WITH TANK -(Continuation)

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Section : ANNEX 2.1

DATE - TIME	Interval	Gauge graduation CM	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO V _o BBL	Net STO product. rate BBL / day	Cumulative production Units
			Volume V BBL	Temp.	Gravity	Temp.						Grav. 60°F
11:33											
11:38	5		Change to 16/64"		adjustable	chdke					
11:41	3		Change to 32/64"		fixed	choke					
13:30	109		Divert flow through separator								
14:00	30	30									
14:30	30	40	2.64	66				2.64		126	
15:00	30	50	2.64	64				2.64		126	
15:30	30	62	3.17	61				3.17		152	
16:00	30	72	2.64	59				2.64		126	
16:30	30	82	2.64	56				2.64		126	
17:00	30	93	2.90	54				2.90		139	
17:30	30	101	2.112	51				2.112		101	
18:00	30	111	2.64	50				2.64		126	
18:30	30	123	3.168	50				3.17		152	
19:00	30	131	2.112	50				2.112		101	
19:30	30	142	2.904	50				2.904		139	
20:00	30	148	1.584	50				1.584		76	
20:30	30	155	1.848					1.848		88	

FLOPETROL

MEASUREMENT WITH TANK -(Continuation)

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Section : ANNEX **2.1**

DATE - TIME	Interval	Gauge graduation	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO V ₀ BBL	Net STO product. rate BBL / day	Cumulative production	Units
			Volume V BBL	Temp.	Gravity	Temp.							Grav. 60°F
20:30		CM										
20:31	1		Start to empty		The gauge tank							
21:15	44	47										
21:30	15	51	1.056	50				1.056	101			
22:00	30	60	2.376	50				2.376	114			
22:30	30	67	1.848	50				1.848	88			
23:00	30	77	2.64	50				2.64	126			
23:30	30	83	1.584	48				1.584	76			
24:00	30	94	2.90	48				2.90	139.4			
29 SEPTEMBER 1989												
00:30	30	104.5	2.77	48				2.77	132.96			
00:53	23	112	1.98	48				1.98	123.96			
00:53			Shut in well at choke manifold, drain tank									
01 OCTOBER 1989												
11:48			Open up well on 8/64" fixed choke to flare									
13:22	94		Divert flow through separator									
17:30	242	49										
18:00	30	54	1.32					1.32	63			

FLOPETROL		MEASUREMENT WITH TANK - (Continuation)										Page Report N°: <u>67</u> <u>01/89</u>		Section : ANNEX 2.1	
DATE - TIME	Interval	Gauge graduation	TANK VOLUME		STO GRAVITY		K	BSW %	Net volume of STO Vo BBLs	Net STO product. rate BBL / day	Cumulative production	Units			
			Volume V B.L.I.S	Temp.	Gravity	Temp.							Grav. 60°F		
18:00		CM													
18:30	30	57	0.79					0.79	38						
19:00	30	60	0.79					0.79	38						
19:30	30	65	1.32					1.32	63						
20:00	30	66	0.264					0.264	12						
20:30	30	72	1.056					1.056	50						
21:00	30	79	1.848					1.848	88						
21:20	30	82	0.792					0.792	38						
22:00	30	84	0.528					0.528	25						
22:30	30	87	0.792					0.792	38						
23:00	30	90	0.792					0.792	38						
23:30	30	Low water level in separator													
23:45	15	Increase choke to 1/4" fixed													
02 OCTOBER 1989															
00:15	30	90													
00:45	30	98	2.112					2.112	101.38						
01:15	30	111	3.43					3.43	164.64						

- GAS PRODUCTION RATE MEASUREMENT by orifice meter -

Reference is made to the rules and coefficients given in AGA gas measurement Committee Report No.3 for orifice metering.

a) EQUATIONS -

$$Q = C \sqrt{hw \times Pf}$$

- Q : Production rate at reference conditions.
- C : Orifice flow coefficient.
- hw : Differential pressure in inches of water.
- Pf : Flowing pressure in psia.

$$C = F_u \times F_b \times F_g \times Y \times F_{tf} \times F_{pv}$$

- F_u : Unit conversion factor in desired reference conditions.
- F_b : Basic orifice factor (Q in Cu.ft / hour).
- F_g : Specific gravity factor.
- Y : Expansion factor
- F_{tf} : Flowing temperature factor.
- F_{pv} : Supercompressibility factor (estimated).

Remarks

- F_m : Manometer factor is equal one since only bellows type meters are used.
- F_r : Reynolds factor is considered to be one.

TABLE OF F _u FACTOR				
UNITS	REFERENCE CONDITIONS			
	60°F 14.73 psia	0°C 760mmHg*	15°C 760mmHg *	15°C 750mmHg *
Cu.ft / hour	1	0.9483	1.0004	1.0137
Cu.ft / day	24	22.760	24.009	24.329
m ³ / hour	0.02832	0.02685	0.02833	0.02870
m ³ / day	0.6796	0.6445	0.6799	0.6889

* Mercury at 32°F

b) METER DATA -

Meter type : DANIEL SENIOR Flange taps - Pf taken down/~~off~~ stream
 Flow recorder type: BARTON ID of meter tube : 5.761

c) SPECIFIC GRAVITY SOURCE -

Sampling point : SEPARATOR GAS OUTLET Gravimeter type : RANAREX

d) SUPERCOMPRESSIBILITY FACTOR F_{pv} -

All coefficients are taken from AGA NX 19 manual for natural gas free of air, CO₂ and H₂S .More accurate values could only be determined by laboratory measurement.

FLOPETROL

Client : PETROFINA

Field : VIC/PZO

Well : ANPMONE 1A

Base : BEF

Section : ANNEX 3

- GAS PRODUCT. RATE MEASUREMENT -

Page : 70
Report N : 01/89

DATE - TIME Time Interval	Flowing Temp. F	P _f absolute psia	h _w 'of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air=1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q	Cumulative Production SCF/D
													MSCF/D	
27 SEPTEMBER 1989														
07:10					Open up well on 32/64" adjustable to flare									
08:05					Increase choke to 48/64" adjustable									
12:50					Change to 48/64" fixed choke									
16:00					Divert flow through heater									
16:15					Decrease choke to 32/64" fixed choke									
16:30					Divert flow through separator									
17:30					Start taking separator readings									
17:30	89	100	120	109.40	1.250	0.955	314.95	1.0233	1.0081	0.9732	1.0166	7714.1	843.9	
17:45	95	105	74	88.63	1.250	0.955	314.95	1.0233	1.0084	0.9680	1.0168	7649.3	677.9	
18:00	95	105	65	82.51	1.250	0.955	314.95		1.0041			7644.5	630.7	
					By-pass separator				Gas produced					
18:20					Divert flow through separator				Insert orifice plate = 1.75					
18:30	95	90	30	51.88	1.750		621.79	1.0233	1.0022	0.9680	1.0143	15026.1	779.6	
19:00	96	165	30	70.30	1.750	0.942	621.79	1.0303	1.0012	0.9671	1.0263	15276.6	1070.0	

**SCHLUMBERGER
TESTING**

GAS PRODUC. RATE MEASUREMENT - (Continuation)

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Section : ANNEX 3

DATE - TIME Interval	Flowing Temp. F	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter inches	Gas gravity (air = 1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q MSCF/D	Cumulative Production
19:00														
19:15	15	97	165	105	131.52	1.25	0.942	314.95	1.0303	1.0042	0.9662	1.0260	7753.3	1.02
19:30	15	97	165	105	131.52									
19:45	15	98	165	78	113.35			314.95	1.0303	1.0030	0.9653	1.0258	7736.7	0.8770
20:15	30	98	165	90	121.76					1.0036	0.9653		7740.4	0.9425
20:30	15	98	165	99	127.70					1.0040			7743.3	0.988
20:45	15	100	165	135	149.13					1.0055	0.9636	1.0255	7738.4	1.15 mm
21:00	15	100	165	135	149.13	1.25	0.942	314.95	1.0303	1.0055	0.9636	1.0255	7738.4	1.15
21:15	15	100	165	105	131.52			314.95	1.0303	1.0042	0.9636	1.0255	7729.0	1.02
21:30	15	100	165	96	125.75			314.95		1.0039			7726.1	0.971
21:45	15	100	165	126	144.07			314.95		1.0051			7735.5	1.11
22:00	15	100	165	135	149.13			314.95		1.0055	0.9653	1.0255	7738.4	1.15
22:15	15	100	165	105	131.52		0.940	314.95	1.0314	1.0042	0.9636	1.0255	7729.0	1.02
22:30	15	100	165	135	149.13			314.95	1.0314	1.0055			7738.4	1.15
22:45	15	100	165	96	125.10					1.0039			7726.1	0.971
23:00	15	100	165	105	131.52			314.95		1.0042			7729.0	1.02
23:15	15	100	165	135	149.13			314.95		1.0055			7738.4	1.15
	15	100	165	120	140.60			314.95		1.0048			7733.7	1.09

**SCHLUMBERGER
TESTING**

GAS PRODUC. RATE MEASUREMENT - (Continuation)

DATE - TIME Interval	Flowing Temp. F	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air=1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q MSCF/D	Cumulative Production
23:30														
23:45	15	100	165	100	128.35	0.940	314.95	1.0314	1.0040	0.9636	1.0255	7727.4	0.991	
24:00	15	200	165	120	140.60	0.940	314.95	1.0314	1.0048	0.9636	1.0255	7733.7	1.09	
28 SEPTEMBER 1989														
00:30	30	100	165	100	128.35	0.940	314.95	1.0314	1.0040	0.9636	1.0255	7727.4	0.991	
01:00	30	100	165	100	128.35	0.940	314.95	1.0314	1.0040	0.9636	1.0255	7727.4	0.991	
01:30	30	100	165	100	128.35	0.940	314.95	1.0314	1.0040	0.9636	1.0255	7727.4	0.991	
01:58	28	100	165	100	128.35	0.940	314.95	1.0314	1.0040	0.9636	1.0255	7727.4	0.991	
11:33	0													
11:38	5													
11:41	3													
13:30	109													
13:45	15	63	165	90	121.8	0.935	314.95	1.0342	1.0036	0.9971	1.0317	8070.9	0.982	
14:00	15	61	165	72	108.91				1.0029	0.9990	1.0321	8083.8	0.880	
14:15	15	61	165	72	108.91							8083.8	0.880	
14:30	15	59	165	81	115.51				1.0033	1.0010	1.0325	8105.7	0.936	
14:45	15	59	165	75	111.15				1.0030			8103.7	0.900	

**SCHLUMBERGER
TESTING**

GAS PRODUC. RATE MEASUREMENT -(Continuation)

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Section : ANNEX 3

DATE - TIME Interval HRS	Flowing Temp. F	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air=1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q MSCF/D	Cumulative Production
14:45														
15:00	57	165	78	113.35	1.25	0.935			1.0032	1.0029	1.0330	8123.8	920	
15:15	57	165	75	111.15					1.0030			8122.8	903	
15:30	57	165	75	111.15								8122.8	903	
15:45	55	165	90	121.76			314.95	1.0342	1.0036	1.0048	1.0334	8147.0	992	
16:00	55	165	75	111.15					1.0030	1.0048		8142.0	905	
16:15	55	165	78	113.35					1.0032	1.0048	1.0334	8143.0	923	
16:30	55	165	78	113.35								8143.0	923	
16:45	55	165	81	115.51					1.0032			8144.0	940	
17:00	55	165	75	111.15					1.0030			8142.0	905	
17:15	54	165	75	111.15						1.0058	1.0336	8151.7	906	
17:30	54	165	75	111.15						1.0058		8151.7	906	
17:45	54	165	69	106.61	1.25	0.928	314.95	1.0381	1.0028	1.0058	1.0331	8176.0	871	
18:00	54	165	60	99.42					1.0024			8173.0	812	
18:15	54	165	66	104.27					1.0027			8175.0	852	
18:30	54	165	60	99.42					1.0024			8173.0	812	
18:45	54	165	63	101.87					1.0025			8174.0	832	
19:00	54	165	75	111.15					1.0030			8177.9	909	

FLOPETROL

GAS PRODUC. RATE MEASUREMENT - (Continuation)

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Section: ANNEX 3

DATE - TIME	Flowing Temp.	Pf absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air = 1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q MSCF/D	Cumulative Production
19:00														
19:15	54	165	75	111.15	1.250	0.928	314.95	1.0381	1.0030	1.0058	1.0331	8177.9	909	
19:30	54	165	75	111.15									909	
19:45	54	165	60	99.42			1.0024					8173.0	812	
20:00	54	165	60	99.42									812	
20:15	54	165	75	111.15					1.0030			8177.9	909	
20:30	54	165	60	99.42					1.0024			8173.0	812	
20:45	54	165	60	99.42									812	
21:00	54	165	54	94.32					1.0022			8171.0	770	
21:15	54	165	54	94.32									770	
21:30	54	165	51	91.66				1.0381	1.0021			8170.0	749	
21:45	54	165	45	86.10				1.0454	1.0018		1.0321	8217.6	707	
22:00	54	165	60	99.42					1.0024			8222.6	817	
22:15	54	165	90	121.76					1.0036			8232.6	1000	
22:30	54	165	63	101.87					1.0025			8223.6	837	
22:45	54	165	63	101.87		0.915			1.0025				837	
23:00	54	165	66	104.27					1.0027			8224.6	957	
23:15	54	165	60	99.42					1.0024			8222.6	817	

FLOPETROL

GAS PRODUC. RATE MEASUREMENT - (Continuation)

Section: ANNEX **3**

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DATE - TIME Interval	Flowing Temp.	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air = 1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q	Cumulative Production
23:15														
						28-SEPTEMBER-89								
23:30	54	165	58	97.75	1.250	0.915	314.95	1.0454	1.0023	1.0058	1.0321	8222.0	803	
23:45	54	165	58	97.75									803	
						29-SEPTEMBER-89								
00:00	54	165	58	97.75									803	
00:30	54	165	58	97.75									803	
00:53	54	165	58	97.75									803	
						SHUT IN WELL AT CHOKE MANIFOLD								
						01-OCTOBER-89								
11:48	0					OPEN WELL ON 8/64" FIXED CHOKE TO FLARE								
13:22	94					DIVERT FLOW TO SEPARATOR								
13:30	8					ADJUSTING RANGE ON DIFFERENTIAL METER TO 100" H2O								
14:15	45				0.750									
14:30	57	75	10	27.34	0.750	1.010	112.75	0.9950	1.0009	1.0029	1.0169	2748.3	75	
14:45	57	75	12	29.95					1.0011			2748.8	82	
15:00	57	75	12	29.95									82	
15:15	57	75	12	29.95									82	
15:15	57	75	13	31.17					1.0012				85	

FLOPETROL

GAS PRODUC. RATE MEASUREMENT - (Continuation)

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Section: ANNEX 3

DATE - TIME Time Interval	Flowing Temp.	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air = 1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q	Cumulative Production
15:30														
					01-OCTOBER-89									
15:45	57	75	14	32.35	0.750	1.010	112.75	0.995	1.0012	1.0029	1.0169	2749.3	89	
16:00			16	34.58					1.0014			2749.8	95	
16:15			16	34.58					1.0014			2749.8	95	
16:30	55	80	14	33.41		0.965		1.0180	1.0012	1.0048	1.0166	2817.0	94	
16:45			16	35.71					1.0013			2817.5	100	
17:00		85	18	39.10					1.0014		1.0176	2820.7	110	
17:15			11	30.53					1.0009			2819.2	86	
17:30			13	33.19					1.0010	1.0058	1.0178	2822.7	94	
17:45			11	30.53					1.0009			2822.2	86	
18:00		90	11	31.42					1.0008		1.0189	2831.8	89	
18:15			11	31.42					1.0008			2825.2	89	
18:30			13	34.15					1.0010	1.0078	1.0191	2831.8	97	
18:45			14	35.44					1.0010			2832.0	100	
19:00			14	35.44					1.0010			2832.0	100	
19:15			14	35.44					1.0010			2832.0	100	
19:30			15	36.69					1.0011			2832.2	104	

FLOPETROL

GAS PRODUC. RATE MEASUREMENT - (Continuation)

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01/89

Section: ANNEX 3

DATE - TIME Interval	Flowing Temp.	P _f absolute psia	h _w "of wat.	$\sqrt{h_w \times P_f}$	Orifice diameter Inches	Gas gravity (air = 1)	F _b	F _g	Y	F _{tf}	F _{pv}	C	Gas production rate : Q MSCF/D	Cumulative Production
19:30														
19:45	15	90	13	34.15	0.750	0.965	112.75	1.0180	1.0010	1.0078	1.0191	2831.8	96	
20:00	15	100	12	32.81					1.0009	1.0098	1.0193	2837.8	93	
20:15	15	100	13	34.15					1.0010			2838.0	97	
20:30	15	100	14	35.44					1.0010			2838.2	100	
21:00	30	100	12	32.81					1.0009			2837.8	93	
21:30	30	105	14	38.30					1.0009	1.0117	1.0231	2853.8	109	
22:00	30	105	15	39.64					1.0010	1.0157	1.0234	2860.5	113	
22:30	30	105	14	38.29					1.0009			2860.3	109	
23:00	30	105	14	40.94					1.0009			2860.3	109	
23:30	30	105	16						1.0010			2860.6	117	
23:45	15													
00:15	30	105	34	59.67	1.000	0.975	200.96	1.0127	1.0022	1.0117	1.0236	5069.4	302.5	
00:45	30	105	27	53.18					1.0017			5067.1	269.5	
01:15	30	105	18	43.42					1.0011			5064.2	219.9	
01:45	30	105	41	65.53					1.0026			2845.5	186.5	
02:15	30	105	32	57.89					1.0020			2843.9	164.6	
02:18														

BYPASS SEPARATOR SHEET IN WELL

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Field : VIC/P20Page : 78Well : ANEMONE 1AReport N° : 01/89Base : BEF

- SURFACE SAMPLING -

Da. of sampling : 28-9-89 Service order : _____ Sampling No. : _____
 Sample nature : L.P H²O Sampling point : H²O LINE SEPARATOR

A - RESERVOIR AND WELL CHARACTERISTICS -

Producing zone : 4599 -4652 Perforations : _____ Sampling interval : _____
 Depth origin : RkB Tubing Dia. : 3.5" Casing Dia. : 7"
 Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 0130 Time elapsed since stabilisation : 7 HRS

<u>Bottom hole dynamic conditions</u>	Choke size : <u>32/64</u> since : <u>1615</u> Well head pressure : <u>260</u> Well head temp. : <u>14°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : .782 Factor Fpv = $\frac{1}{\sqrt{Z}}$: -1.0255
 Values used for calculations :

<u>Separator</u>	Pressure : <u>150</u> PSIG	Rates - Gas : <u>991</u> SCFD	GOR : <u>7871.4</u> (separator cond.)
	Temp. : <u>100</u> °F	Oil (separator cond.) : <u>126</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>126</u> BOPD
	Tank temperature : <u>15</u> °C _____ °F	

BSW : Nil % WLR : _____ %
 Transferring fluid : _____ Transfer duration : _____
 Final conditions of the shipping bottle : _____
 Pressure : Nil Temp : _____

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : # 2 sent on : _____ by : _____ Shipping order No. : _____
 Addressee : _____

Coupled with

Bottom hole samples No.

Surface samples No.

LIQUID	GAS

Measurement conditions.

 Tank . Meter . Dump . Corrected with shrinkage tester. Corrected with tank .

D - REMARKS -

Visa Chief Operator

No.: DOP 127

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Base : BEFField : VIC/P20Page : 79Well : ANEMONE 1AReport N°: 01/89

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
 Sample nature : LP H2O Sampling point : H2O LINE SEPARATOR

A - RESERVOIR AND WELL CHARACTERISTICS -
 Producing zone : 4599-4652M Perforations : _____ Sampling interval : _____

Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
 Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 20:30 Hrs Time elapsed since stabilisation : _____

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64"</u> since : <u>11:48</u> Well head pressure : <u>712psig</u> Well head temp. : <u>12 C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
 Values used for calculations :

<u>Separator</u>	Pressure : <u>85</u> PSIG	Rates - Gas : <u>100M</u> SCFD	GOR : <u>SCF/BBL</u> (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.) : <u>63</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>63</u> BOPD
	Tank temperature : _____ °F	

BSW : 0 % WLR : _____ %

Transferring fluid : _____ Transfer duration : _____

Final conditions of the shipping bottle : _____
 Pressure : 0 Temp : _____

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : W1 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID	GAS
<u>Bottom hole samples No.</u>	_____	_____
<u>Surface samples No.</u>	_____	_____

Measurement conditions,
 Tank . Meter . Dump .
 - Corrected with shrinkage tester. - Corrected with tank .

D - REMARKS -

Visa Chief Operator

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Base : BEFField : VIC/P20
Well : ANEMONE 1APage : 31
Report N° : 01/89

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : LP OIL Sampling point : H2O LINE SEPARATOR

A - RESERVOIR AND WELL CHARACTERISTICS -

Producing zone : 4599-4652 Perforations : _____ Sampling interval : _____
Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5

Bottom hole static conditions	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 22:30 Time elapsed since stabilisation : 110mins

Bottom hole dynamic conditions	Choke size : <u>8/64"</u> since : <u>11:48</u> Well head pressure : <u>750psi</u> Well head temp. : <u>12 C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

Separator	Pressure : <u>90</u> PSIG	Rates - Gas : <u>109 M</u> SCFD	GOR : <u>2137</u> SCF/BBL (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.) : <u>51</u> BOPD	

Stock tank	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>51</u> BOPD	A | B | C | a | b
	Tank temperature : <u>10</u> °C _____ °F		

BSW : _____ % WLR : _____ %

Transferring fluid : _____ Transfer duration : _____

Final conditions of the shipping bottle : _____
Pressure : 0 Temp : _____

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : W3 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID		GAS	
	Bottom hole samples No.	_____	_____	_____
Surface samples No.	A.1	_____	_____	_____
	A.2	_____	A11924	_____

Measurement conditions.

 A - Tank . B - Meter . C - Dump .
 a - Corrected with shrinkage tester. b - Corrected with tank .

D - REMARKS -

Visa Chief Operator

No. : DOP 127

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Base : VEA

Field : _____

Page : 82Well : ANEMONE 1A

Report N°: _____

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No : _____
Sample nature : L.P CONDENSATE Sampling point : OIL LINE SEPARATORProducing zone : A - RESERVOIR AND WELL CHARACTERISTICS -
4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia : 3.5" Casing Dia : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5MBottom hole static conditions
Initial pressure : _____ at depth : _____ date : _____
Latest pressure measured : _____ at depth : _____ date : _____
Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 1100 Time elapsed since stabilisation : WELL SHUT INBottom hole dynamic conditions
Choke size : _____ since : _____ Well head pressure : 215 Well head temp : 11°C
Bottom hole pressure : _____ at depth : _____ date : _____
Bottom hole temp : _____ at depth : _____ date : _____Flow measurement of sampled gas - Gravity (air: 1) : _____ Factor $F_{pv} = \frac{1}{VZ}$: _____
Values used for calculations :Separator Pressure : _____ PSIG Rates - Gas : _____ SCFD GOR : _____
Temp : _____ °F Oil (separator cond.) : _____ BOPD (separator cond.)Stock tank Atmosphere : 760 mmHg. _____ °F Oil at 60 °F : _____ BOPD
Tank temperature : 11°C _____ °F

BSW : _____ % WLR : _____ %

Transferring fluid : _____ Transfer duration : _____

Final conditions of the shipping bottle : _____
Pressure : _____ Temp : _____

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No : # 3 sent on : _____ by : _____ Shipping order No : _____
Addressee : _____

Coupled with	LIQUID	GAS
Bottom hole samples No.	_____	_____
Surface samples No.	_____	_____

Measurement conditions
 Tank . Meter . Dump .
 - Corrected with shrinkage tester. - Corrected with tank .

D - REMARKS -

Visa Chief Operator

o: DOP 127

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **4.2**Base : VEA

Field : _____

Page : 83Well : ANEMONE 1A

Report N°: _____

- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : PVT OIL Sampling point : SEPARATOR OIL SIGHT GLASSA - RESERVOIR AND WELL CHARACTERISTICS -Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 1200 Time elapsed since stabilisation : WELL NOT STABLE

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>423</u> Well head temp. : <u>15°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : _____ - Factor $F_{pv} = \frac{1}{\sqrt{Z}}$: _____
Values used for calculations :

<u>Separator</u>	Pressure : <u>15</u> PSIG	Rates - Gas : _____ SCFD	GOR : _____
	Temp. : <u>46</u> °F	Oil (separator cond.) : _____ BOPD	(separator cond.)

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : _____ BOPD				
	Tank temperature : <u>8°C</u> _____ °F	<table border="1"><tr><td>A</td><td>B</td><td>C</td><td>a</td><td>b</td></tr></table>	A	B	C	a
A	B	C	a	b		

BSW : _____ % WLR : _____ %

Transferring fluid : MERCURY Transfer duration : 60 MINSFinal conditions of the shipping bottle :
Pressure : 5 PSI Temp : 8°CC - IDENTIFICATION OF THE SAMPLE -Shipping bottle No. : 8288 N476 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

<u>Coupled with</u>	LIQUID		GAS	
	<u>Bottom hole samples No.</u>	_____	_____	_____
<u>Surface samples No.</u>	_____	_____	_____	_____

Measurement conditions.
 Tank . Meter . Dump .
 Corrected with shrinkage tester. Corrected with tank .

D - REMARKS -WELL ON BY-PASS - SAMPLE TAKEN FROM SEPARATOR
AT REQUEST OF RESERVOIR ENGINEER

Visa Chief Operator

o. DOP 127

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **4.2**Base : SALE VEA

Field : _____

Page : 84Well : ANEMONE 1A

Report N°: _____

- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : PUT OIL Sampling point : Separator oil sight glassProducing zone : A - RESERVOIR AND WELL CHARACTERISTICS -
4599 - 4652 Perforations : _____ Sampling interval : 30 minsDepth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

Bottom hole static conditions	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 2100 Time elapsed since stabilisation : 60 Mins

Bottom hole dynamic conditions	Choke size : <u>8/64"</u> since : <u>1148</u> Well head pressure : <u>733</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

Separator	Pressure : <u>85</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR : <u>2868</u> SCF/BBL (separator cond.)
	Temp. : <u>54</u> °F	Oil (separator cond.) : <u>38</u> BOPD	

Stock tank	Atmosphere : <u>760</u> mmHg. °F	Oil at 60 °F : <u>38</u> BOPD
	Tank temperature : <u>10</u> °F	

BSW : Nil % WLR : _____ %Transferring fluid : Mercury Transfer duration : _____Final conditions of the shipping bottle :
Pressure : 50 psig Temp : 12°CC - IDENTIFICATION OF THE SAMPLE -Shipping bottle No. : 12689/92 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID	GAS
Bottom hole samples No.	_____	_____
Surface samples No.	<u>W2</u>	<u>A-12134</u>

Measurement conditions,
 Tank . Meter . Dump .
 Corrected with shrinkage tester. Corrected with tank .
D - REMARKS -Sample volume 550 cc oil sample
50 cc gas cap
20 cc Mercury

Visa Chief Operator

SCHLUMBERGER TESTING

Client : PETROFINA

Section: ANNEX **42**

Base : VEA

Field : _____
Well : ANEMONE 1A

Page : 85
Report N°: _____

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : GAS Sampling point : UPSTREAM METER RUN ON SEPARATOR

A - RESERVOIR AND WELL CHARACTERISTICS -
Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : 30 mins

Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

Bottom hole static conditions	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 2100 Time elapsed since stabilisation : 60 MINS

Bottom hole dynamic conditions	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>733</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

Separator	Pressure : <u>85</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR : <u>2868</u> SCF/BBL (separator cond.)
	Temp. : <u>54</u> °F	Oil (separator cond.) : <u>38</u> BOPD	

Stock tank	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>38</u> BOPD
	Tank temperature : <u>10</u> °F	A B C a b

BSW : Nil % WLR : _____ %

Transferring fluid : Vacuum Transfer duration : 30 MIN

Final conditions of the shipping bottle :
Pressure : 90 PSI Temp : 12°C

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : A12134 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID	GAS
Bottom hole samples No.	_____	_____
Surface samples No.	<u>12 689/92</u>	_____
	<u>W2</u>	_____

Measurement conditions:
 Tank . Meter . Dump .
 a - Corrected with shrinkage tester. b - Corrected with tank .

D - REMARKS -

SAMPLE VOLUME - 20 LT

Visa Chief Operator

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **42**Base : VEAField : _____
Well : ANEMONE 1APage : 36
Report N° : _____- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : PUT OIL Sampling point : SEPARATOR OIL SIGHT GLASSA - RESERVOIR AND WELL CHARACTERISTICS -Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____
Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 2200 Time elapsed since stabilisation : 90 MINS

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>750</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

<u>Separator</u>	Pressure : <u>90</u> PSIG	Rates - Gas : <u>113</u> M SCFD	GOR : <u>2973</u> SCF (separator cond.)
	Temp. : <u>54</u> °F	Oil (separator cond.) : <u>38</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. °F	Oil at 60 °F : <u>51</u> BOPD				
	Tank temperature : <u>10°C</u> °F	<table border="1"><tr><td>A</td><td>B</td><td>C</td><td>a</td><td>b</td></tr></table>	A	B	C	a
A	B	C	a	b		

BSW : Nil % WLR : _____ %Transferring fluid : Mercury Transfer duration : 30 MINSFinal conditions of the shipping bottle :
Pressure : 30 PSIG Temp : 12 °CC - IDENTIFICATION OF THE SAMPLE -Shipping bottle No. : 80-291/53 Sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

<u>Coupled with</u>	LIQUID	GAS
	<u>Bottom hole samples No.</u>	_____
<u>Surface samples No.</u>	_____	<u>A13762</u>

Measurement conditions,
 Tank . Meter . Dump .
 Corrected with shrinkage tester. Corrected with tank .

D - REMARKS -

SAMPLE VOLUME 550cc Oil Sample
 50cc Gas Cap
 20cc Mercury

Visa Chief Operator

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Base : VEAField : _____
Well : ANEMONE 1APage : 87
Report N°: _____

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : GAS Sampling point : UPSTREAM METER RUN ON SEPARATOR

A - RESERVOIR AND WELL CHARACTERISTICS -

Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

Bottom hole static conditions	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 2200 Time elapsed since stabilisation : 90 MINS

Bottom hole dynamic conditions	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>750 PSI</u> Well head temp : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{VZ}$: 1.0234
Values used for calculations :

Separator	Pressure : <u>90</u> PSIG	Rates - Gas : <u>113</u> M SCFD	GOR: <u>2973</u> SCF/BBU (separator cond.)
	Temp. : <u>54</u> °F	Oil (separator cond.): <u>38</u> BOPD	

Stock tank	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>51</u> BOPD
	Tank temperature : <u>10</u> °C _____ °F	

BSW : Nil % WLR : _____ %Transferring fluid : VACUUM Transfer duration : _____Final conditions of the shipping bottle :
Pressure : 90 PSIG Temp : 12 °C

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : A13762 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID	GAS
Bottom hole samples No.	_____	_____
Surface samples No.	<u>80 291/53</u>	_____

Measurement conditions.
 Tank. Meter. Dump.
 - Corrected with shrinkage tester. - Corrected with tank.

D - REMARKS -

VOLUME - 20 LT

Visa Chief Operator

0. DOP 127

SCHLUMBERGER TESTINGClient : PETROFINA Section: ANNEX **42**Base : VEA

Field : _____

Page : 38 Well : ANEMONE 1A

Report N°: _____

 - SURFACE SAMPLING - Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : GAS Sampling point : UPSTREAM METER RUN OF SEPARATOR A - RESERVOIR AND WELL CHARACTERISTICS - Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____
Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

 B - MEASUREMENT AND SAMPLING CONDITIONS - Time at which sample was taken : 2230 Time elapsed since stabilisation : 110 MINS

<u>Bottom hole dynamic conditions</u>	Choke size : <u> 8/64 </u> since : <u> 1148 </u> Well head pressure : <u> 750 </u> Well head temp. : <u> 12°C </u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : 0.965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

<u>Separator</u>	Pressure : <u> 90 </u> PSIG	Rates - Gas : <u> 109 M </u> SCFD	GOR : <u> 2137 SCF/BBL </u> (separator cond.)					
	Temp. : <u> 57 </u> °F	Oil (separator cond.) : <u> 51 </u> BOPD						
<u>Stock tank</u>	Atmosphere : <u> 760 </u> mmHg. _____ °F	Oil at 60 °F : <u> 51 </u> BOPD	<table border="1"><tr><td>A</td><td>B</td><td>C</td><td>a</td><td>b</td></tr></table>	A	B	C	a	b
	A	B		C	a	b		
Tank temperature : <u> 10 </u> °C _____ °F								

BSW : _____ % WLR : _____ %

Transferring fluid : VACUUM Transfer duration : 30 MIN Final conditions of the shipping bottle :
Pressure : 90 Temp : 12°C C - IDENTIFICATION OF THE SAMPLE - Shipping bottle No. : A11924 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

<u>Coupled with</u>	<u>LIQUID</u>		<u>GAS</u>	
	_____	_____	_____	_____
<u>Bottom hole samples No.</u>	_____	_____	_____	_____
<u>Surface samples No.</u>	L.P A.1	_____	W3	_____
	L.P A.2	_____	_____	_____

Measurement conditions,
 Tank . Meter . Dump .
 - Corrected with shrinkage tester. - Corrected with tank . D - REMARKS -

Visa Chief Operator

TAKEN IN CONJUNCTION WITH TWO 20C JERAY CANS
OF L.P CONDENSATE & 1 L.P H²O

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **42**Base : VEAField : _____
Well : ANEMONE 1APage : 89
Report N°: _____- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : GAS Sampling point : UPSTREAM METER RUN OF SEPARATORA - RESERVOIR AND WELL CHARACTERISTICS -Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____
Depth origin : RKB Tubing Dia : 3.5" Casing Dia : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 2300 Time elapsed since stabilisation : 140 MINS

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>794</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : .965 Factor Fpv = $\frac{1}{VZ}$: 1.0234
Values used for calculations :

<u>Separator</u>	Pressure : <u>90</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR : <u>2137</u> SCF/BBL (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.) : <u>51</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. °F	Oil at 60 °F : <u>51</u> BOPD
	Tank temperature : <u>10°C</u> °F	<u>A B C a b</u>

BSW : _____ % WLR : _____ %

Transferring fluid : VACUUM Transfer duration : _____ #) MINFinal conditions of the shipping bottle :
Pressure : 90 PSI Temp : 12°CC - IDENTIFICATION OF THE SAMPLE -Shipping bottle No. : A13752 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

<u>Coupled with</u>	LIQUID	GAS
	<u>Bottom hole samples No.</u>	_____ _____ _____
<u>Surface samples No.</u>	L.P A3 L.P A4	_____ _____

Measurement conditions,
 Tank . - Meter . - Dump .
 - Corrected with shrinkage tester. - Corrected with tank .
D - REMARKS -TAKEN IN CONJUNCTION WITH L.P 20 LT SAMPLES
A.3 & A.4

Visa Chief Operator

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **42**Base : VEA

Field : _____

Page : 90Well : ANEMNE 1A

Report N°: _____

- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : L.P CONDENSATE Sampling point : OIL LINE SEPARATOR**A - RESERVOIR AND WELL CHARACTERISTICS -**Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia : 3.5" Casing Dia : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 2230 Time elapsed since stabilisation : 110 MINS

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>750</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : .965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

<u>Separator</u>	Pressure : <u>90</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR : <u>2137</u> SCF/BBL (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.) : <u>51</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>51</u> BOPD
	Tank temperature : <u>10°C</u> _____ °F	

BSW : _____ % WLR : _____ %

Transferring fluid : _____ Transfer duration : _____

Final conditions of the shipping bottle : _____
Pressure : Nil Temp : _____**C - IDENTIFICATION OF THE SAMPLE -**Shipping bottle No. : A1 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with

Bottom hole samples No.Surface samples No.

LIQUID

GAS

W3A11924

Measurement conditions,

 Tank . - Meter . - Dump . - Corrected with shrinkage tester . - Corrected with tank .**D - REMARKS -**

Visa Chief Operator

SCHLUMBERGER TESTINGClient : PETROFINASection: ANNEX **42**Base : VEA

Field : _____

Page : 91Well : ANEMONE 1A

Report N°: _____

- SURFACE SAMPLING -Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : L.P CONDENSATE Sampling point : OIL LINE SEPARATORA - RESERVOIR AND WELL CHARACTERISTICS -Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

<u>Bottom hole static conditions</u>	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -Time at which sample was taken : 2245 Time elapsed since stabilisation : 125 MINS

<u>Bottom hole dynamic conditions</u>	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>750</u> Well head temp. : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : .965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

<u>Separator</u>	Pressure : <u>90</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR : <u>2137</u> SCF/BBL (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.) : <u>51</u> BOPD	

<u>Stock tank</u>	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>51</u> BOPD
	Tank temperature : <u>10</u> °C _____ °F	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> a <input type="checkbox"/> b

BSW : _____ % WLR : _____ %

Transferring fluid : _____ Transfer duration : 15 MINFinal conditions of the shipping bottle : _____
Pressure : NIL Temp : _____C - IDENTIFICATION OF THE SAMPLE -Shipping bottle No. : A2 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

<u>Coupled with</u>	LIQUID	GAS
<u>Bottom hole samples No.</u>	_____	_____
<u>Surface samples No.</u>	_____	<u>A 11924</u>

Measurement conditions,
 Tank . Meter . Dump .
 a - Corrected with shrinkage tester. b - Corrected with tank .

D - REMARKS -

Visa Chief Operator

o. : DOP 127

SCHLUMBERGER TESTING

Client : PETROFINASection: ANNEX **42**Base : VEAField : _____
Well : ANEMONE 1APage : 92
Report N°: _____

- SURFACE SAMPLING -

Date of sampling : 1-10-89 Service order : _____ Sampling No. : _____
Sample nature : L.P CONDENSATE Sampling point : OIL LINE SEPARATORA - RESERVOIR AND WELL CHARACTERISTICS -
Producing zone : 4599 - 4652 Perforations : _____ Sampling interval : _____Depth origin : RKB Tubing Dia. : 3.5" Casing Dia. : 7"
Surface elevation : _____ Shoe : _____ Shoe : 4492.5M

Bottom hole static conditions	Initial pressure : _____ at depth : _____ date : _____
	Latest pressure measured : _____ at depth : _____ date : _____
	Temperature : _____ at depth : _____ date : _____

B - MEASUREMENT AND SAMPLING CONDITIONS -

Time at which sample was taken : 2300 Time elapsed since stabilisation : 140 MINS

Bottom hole dynamic conditions	Choke size : <u>8/64</u> since : <u>1148</u> Well head pressure : <u>794</u> Well head temp : <u>12°C</u>
	Bottom hole pressure : _____ at depth : _____ date : _____
	Bottom hole temp. : _____ at depth : _____ date : _____

Flow measurement of sampled gas - Gravity (air: 1) : .965 Factor Fpv = $\frac{1}{\sqrt{Z}}$: 1.0234
Values used for calculations :

Separator	Pressure : <u>90</u> PSIG	Rates - Gas : <u>109</u> M SCFD	GOR: <u>2137</u> SCF/BBL (separator cond.)
	Temp. : <u>57</u> °F	Oil (separator cond.): <u>51</u> BOPD	

Stock tank	Atmosphere : <u>760</u> mmHg. _____ °F	Oil at 60 °F : <u>51</u> BOPD
	Tank temperature : <u>10°C</u> _____ °F	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> a <input type="checkbox"/> b

BSW : _____ % WLR : _____ %

Transferring fluid : _____ Transfer duration : _____

Final conditions of the shipping bottle : _____
Pressure : NIL Temp : _____

C - IDENTIFICATION OF THE SAMPLE -

Shipping bottle No. : A3 sent on : _____ by : _____ Shipping order No. : _____
Addressee : _____

Coupled with	LIQUID	GAS
Bottom hole samples No.	_____	_____
Surface samples No.	_____	<u>A13752</u>

Measurement conditions,

 Tank . Meter . Dump .
 a - Corrected with shrinkage tester. b - Corrected with tank .

D - REMARKS -

Visa Chief Operator

0. DOP 127

FLOPETROL

DIVISION : AN7

BASE : BE7

REPORT N° : 01/89

Well Testing Report

Client : PETROFINA

Field : VIC/P20

Zone : DST# 2

Well : ANEMONE 1A

Date : 7/10/89 - 11/10/89

INDEX

- 1 _ TEST PROCEDURE _
- 2 _ MAIN RESULTS _
- 3 _ OPERATING AND MEASURING CONDITIONS _
- 4 _ SURFACE EQUIPMENT DATA _
- 5 _ WELL COMPLETION DATA _
- 6 _ SEQUENCE OF EVENTS _
- 7 _ WELL TESTING DATA _

TESTING CREW

A. Munro
O. Hobbs
A. Gillies
C. Morrell
E. Goh
T. Chin
S. Brown
J. Bruce
S. Milne
P. Nardone

Flopetrol chief operator

Name : A. Munro

Client representative

Name : D. Soussa

- TEST PROCEDURE -

1. MAKE UP SCHLUMBERGER TOP GUN ASSEMBLY.
2. RUN IN HOLE WITH SCHLUMBERGER TEST TOOLS.
3. AFTER RUNNING THE BOTTOM HOLE ASSEMBLY RIG UP TO RUN 3-1/2 VHM TUBING. WHILST RUNNING IN HOLE, FILL THE TEST STRING WITH WATER.
4. RIG UP AND RUN IN HOLE WITH E-2 TREE ASSEMBLY.
5. RIG UP AND RUN IN HOLE WITH LUBRICATOR VALVE.
6. CHANGE OUT TO LONG BAILS.
7. RIG UP FLOW HEAD AND COFLEX HOSE.
8. PRESSURE TEST THE WHOLE TEST STRING TO 9,000 PSI.
9. AFTER THE PACKER SET, RUN IN HOLE WITH SCHLUMBERGER CORRELOTION LOG TO CHECK SPACE OUT.
10. RIGGING UP SURFACE TEST EQUIPMENT AND PRESSURE TEST.
11. RUN IN HOLE WITH DROP BAR ASSEMBLY.
12. PERFORATE AND FLOW 10 MINUTE TO GAUGE TANK.
13. SHUT IN WELL AT PCT AND CHOKE MANIFOLD FOR INITIAL PRESSURE BUILD UP.
14. OPEN UP WELL FOR CLEAN-UP.
15. RUN IN HOLE WITH TWO BOTTOM HOLE SAMPLERS AND DO GRADIENT SURVEY.
16. SHUT IN WELL AT CHOKE MANIFOLD TO PULL OUT OF HOLE WITH BOTTOM HOLE SAMPLES.
17. OPEN UP WELL TO CONTINUE CLEAN-UP PERIOD.
18. SHUT IN WELL AT PCT AND COMMENCE BULL HEADING.
19. UNSET PACKER AND COMMENCE CIRCULATING.
20. PULL OUT OF HOLE WITH TEST STRING.

FLOPETROL

Client : PETROFINASection : **2**Base : BEFField : VIC/P20Page : 4Well : ANEMONE-1AReport N° : 01/89

- MAIN RESULTS -

Tested interval : DST#2 Perforations : 4535-4545

OPERATION	DURATION	BOTTOM HOLE PRESSURE	WELL HEAD PRESSURE	OIL PROD.RATE	GAS PROD.RATE	G.O.R
Units	MINS		PSIG	BBL/DAY		
Initial Flow choke closed	76		2300	---	---	---
Initial Flow choke open full	11		0	Nil	---	---
Initial Buildup	806		1570	---	---	---
Clean up choke open full	1827		2080	57	---	---
2nd Shut in surface	72		2100	---	---	---
Clean up. Choke open full	178		2100	67	---	---
3rd Shut in Surface	170		1645	---	---	---
Clean up. Choke open full	896		2050	76	---	---

Depth of bottom hole measurements : 4297m Reference : RKBTemperature : 260°F at : _____ depth 4297mSeparator gas gravity (air : 1) at choke size : ---STO gravity at choke size : ---BSW : 95% H₂O, 3% Mud, 2% emulsion Water cut : ---

REMARKS AND OTHER OPERATIONS

Wellhead pressures given are the final for each flow period.
Production rates varied considerably throughout flow periods, the rate for the end of the cleanup is the last available rate, since the well was flowing mud the gauge tank was by-passed.

SCHLUMBERGER TESTING

Base : BEF

Client : PETROFINA

Field : VIC/P20

Well : ANEMONE 1A

Section : **3**

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Report N° : 01/89

- OPERATING AND MEASURING CONDITIONS -

A - TYPE OF GAUGE -

BOTTOM HOLE :

Pressure : _____

Temperature : _____

WELL HEAD :

Pressure : DWT

Temperature : HG THERMOMETER

SEPARATOR :

Pressure : BARTON

Temperature : HG THERMOMETER

B - PRODUCTION RATE CONDITIONS AND SOURCES -

OIL PRODUCTION RATE

- Tank Floco
- Meter Rotron
- Dump _____
- _____

Reference conditions -

- Separator
- Atmospheric pressure 60°F

Shrinkage measurement -

- With tank
- With shrinkage tester

GAS PRODUCTION RATE

- Orifice meter
- _____

Standard conditions -

14.75 PSIA @ 60°F

WATER PRODUCTION RATE

- Tank
- Meter
- _____

C - WELL DATA -

WELL STATE DURING SURVEY :

Well producing through : 3.5" tubing ~~4 1/2" / 4 1/2"~~

Main casing size 7" set at 4492.5m Total well depth 4775m

Tubing size 35" set at _____ Packer POSITRIVE set at 4329m

Perforations :

- Zone DST2 From 4535m to 4545m From _____ to _____

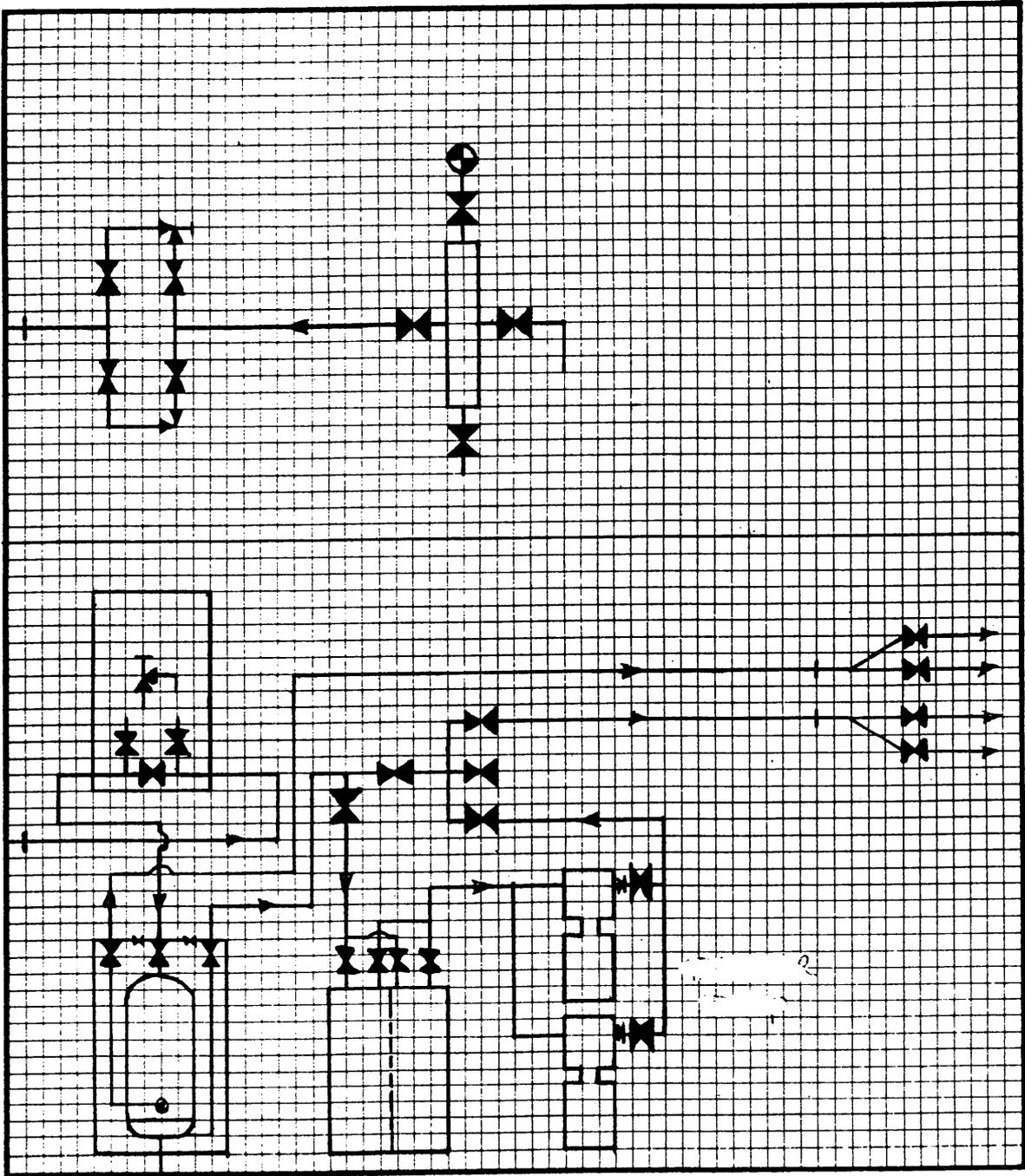
- Zone _____ From _____ to _____ From _____ to _____

WELL STATE BEFORE TEST :

- Well closed since NEWLY DRILLED
- Well flowing since _____ Producing zone _____
- Choke size _____

DUP 104

- SURFACE EQUIPMENT LAYOUT -



REMARKS :

Drawing not to scale.

FLOPETROL

Client : PETROFINASection : **5**Base : BEFField : VIC/P20Page : 7Well : ANEMONE 1AReport N° : 01/89

- WELL COMPLETION DATA -

LOWER TEST STRING

ITEM	LENGTH (M)	DEPTH (M)
BOTTOM OF FLUTED HANGER		255.070
CROSSOVER	0.310	255.280
3- $\frac{1}{2}$ " VAM TUBING	3748.739	4004.119
CROSSOVER	0.309	4004.428
SLIP JT (OPEN) (7.066-OPEN)	8.590	4013.018
SLIP JT ($\frac{1}{2}$ OPEN) (7.067-OPEN)	7.829	4020.847
SLIP JT (CLOSED) (7.065-OPEN)	7.065	4027.912
CROSSOVER	0.523	4028.435
6 STDS DC'S	166.100	4194.535
CROSSOVER	0.434	4194.969
SHORT	1.069	4196.038
1 STD DC'S	27.250	4223.288
MIDRV	2.910	4226.198
R.A. SUB 0.898	0.628	4226.826
	0.270	4227.096
1 STD DC'S	27.180	4254.276
PCT	6.995	4261.271
HRT (CLOSED) (1.720 OPEN)	1.618	4262.889
EXAL GAUGE CARRIER	2.970	4265.859
1 STF DC's	28.510	4294.369
EXAL GAUGE CARRIER	2.970	4297.339
1 STD DC'S	27.710	4325.049
JAR (CLOSED) (2.240 OPEN)	1.986	4327.035
SAFETY JOINT	0.517	4327.552
CROSSOVER	0.245	4327.797
	1.035	4328.832
PACKER (1.967 UNSET)	0.628	4329.460
CROSSOVER	0.310	4329.770
TUBING 20 JTS#42-23	191.880	4521.650
GUN DROP SUB	0.460	4522.110
TUBING 1 JT #43	9.590	4531.700
VENTED FIRING HEAD	0.550	4532.250
SAFETY SPACER	2.750	4535.000
GUNS	10.000	4545.000
BOTTOM NOSE	0.200	4545.200

FLOPETROL

Base : BEFClient : PETROFINAField : VIC/P20Well : ANEMONE 1ASection : **6**Page : 8
Report N° : 01/89

- SEQUENCE OF EVENTS -

DATE	TIME	OPERATION
7-10-89		DST 2
	0530	RIG UP E-2 TREE REEL AND CONSOLE AND CHOKE MANIFOLD
	0805	STAB IN E-2 TREE ASSEMBLY
	0815	R. I. H. WITH E-2 TREE
	1010	STAB IN LUBRICATOR VALVE ASSEMBLY
	1018	R. I. H. WITH LUBRICATOR VALVE
	1050	PICK UP LONG BAILS
	1112	RIG UP FLOWHEAD AND CO-FLEX HOSE
	1300	RIG UP KILL LINE
	1335	TIGHTEN THE 4-1/2 PH6 JOINT BELOW FLOWHEAD
	1410	CLOSE KILL VALVE. PRESSURE TEST TO 9000 psi.
	1425	CLOSE SWAB VALVE, OPEN KILL VALVE, PRESSURE. TEST AGAINST PCT AND FLOW VALVE TO 9000 psi.
	1445	COMMENCE TO SET PACKER
	1450	4-1/2 PH6 JOINT BELOW FLOW HEAD START TO BACK OUT AFTER 2 TURNS
	1500	RIG DOWN FLOW LINE AND KILL LINE
	1515	TIGHTEN THE 4-1/2 PH6 JOINT
	1600	COMMENCE TO SET PACKER
	1615	PACKER SET AT 4330M
	1620	RIG UP SCHLUMBERGER TO RUN CORRELATION LOG
	1650	RUN IN HOLE WITH CORRELATION LOG
	1850	SCHLUMBERGER LOGGING TOOL ON SURFACE
	1900	COMMENCE RIGGING UP FLOW LINE AND KILL LINE
	1940	HOOK-UP FLOW LINE TO CHOKE MANIFOLD
	2000	CLOSE KILL VALVE, PRESSURE TEST TO 9000 psi

N° DOP 107

FLOPETROL

Section : **6**

SEQUENCE OF EVENTS (Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
7-10-89	2005	CLOSE LUBRICATOR VALVE
	2021	OPEN KILL VALVE, PRESSURE TEST CHOKE MANIFOLD FRONT VALVES AND LUBRICATOR VALVE TO 9000 psi
	2042	OPEN CHOKE MANIFOLD, PRESSURE TEST 5000 psi TO HEATER INLET VALVE
	2110	CLOSE CHOKE MANIFOLD BACK VALVE, PRESSURE TEST TO 5000 psi
	2145	START RIGGING UP SLICK LINE LUBRICATOR
	2240	COMMENCE PRESSURE TEST LUBRICATOR TO 9000 psi
8-10-89		
	0041	LUBRICATOR WILL NOT HOLD PRESSURE PAST 6500 psi, RIG DOWN SLICKLINE EQUIPMENT
	0539	OPEN KILL VALVE HALIBURTON PRESSURE UP ON TUBING TO 1000 psi
	0547	OPEN PCT OBSERVE PRESSURE INCREASE AT WELL HEAD (DUE TO RAT HOLE PRESSURE)
	0549	CLOSE KILL VALVE OPEN SWAB VALVE
	0550	DROP MECHANICAL FIRED GUN DROP BAR DOWN HOLE CLOSE SWAB VALVE OBSERVE WHP
	0640	NO INDICATION OF GUNS HAVING FIRED
	0645	RIG UP SCHLUMBERGER SURFACE CONTROL EQUIPMENT AND LUBRICATOR FOR FISHING JOB
	0855	RIG UP COMPLETE, CLOSE LUBRICATOR VALVE OPEN KILL VALVE OPEN SWAB VALVE HALIBURTON FLUSH AIR OUT OF LINES AND LUBRICATOR
	0900	COMMENCE PRESSURE TEST OF SCHLUMBERGER LUBRICATOR AND COPS TO 9000 psi
	1015	TEST GOOD CLOSE KILL VALVE OPEN LUBRICATOR VALVE
	1016	SCHLUMBERGER R. I. H. WITH CCL, WEIGHT BARS

N° DOP 108

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

Page : 10
Report N°: 01/89

DATE	TIME	OPERATION
8-10-89		
	1016	SPANG JARS AND JAR UP FISHING TOOL
	1118	bled off increase in WHP caused by displacement as tools are running in
	1121	stop running in monitor WHP to ensure increasing pressure is only due to displacement
	1123	continue to R. I. H.
	1135	maintain WHP at zero by bleeding off through bubbie hose
	1218	wireline at depth attempting to fire gun
	1242	pull out of hole with wireline
	1346	wireline on surface, close lubricator valve retain drop bar
	1438	open lubricator valve and kill valve to fill tubing with water for pressure test
	1440	wireline rig up with new drop bar assembly
	1456	close lubricator valve, pressure test wireline lubricator to 3000 psi
	1518	open lubricator valve, pressure on surface and increasing
	1530	close lubricator valve, bleed off pressure
	1535	rig down wireline, drop bar has back out from the wireline assembly and drop into the hole during the rigging up
	1554	equalised pressure across lubricator valve
	1555	open lubricator valve
	1606	open up well on full adjustable to tank
	1617	close PCT and choke manifold

N° DOP 108

FLOPETROL

Section : **6**

_ SEQUENCE OF EVENTS _ (Continuation)

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Report N° : 01/89

DATE	TIME	OPERATION
9-10-89	0529	OPEN KILL LINE
	0530	START TO PRESSURE UP TUBING TO 1000 PSI
	0538	CLOSE KILL LINE
	0542	START TO PRESSURE UP ANNULUS
	0543	OPEN PCT. WELL OPEN TO CHOKE MANIFOLD
	0547	OPEN UP WELL ON FULL ADJUSTABLE CHOKE TO GAUGE TANK
10-10-89	1134	SET UP FIRST BOTTOM HOLE SAMPLER ON 4 HOURS DELAY
	1204	SET UP SECOND (TOP) BOTTOM HOLE SAMPLER ON 4 HOURS DELAY
	1205	COMMENCE RIGGING UP GAUGE AND BOTTOM HOLE SAMPLERS
	1210	CLOSE LUBRICATOR VALVE AND BLEED OFF ABOVE
	1215	CLOSE CHOKE MANIFOLD AND OPEN SWAB VALVE
	1243	OPEN KILL VALVE, PRESSURE TEST LUBRICATOR TO 3500 psi
	1255	BLEED DOWN PRESSURE TO 1250 psi
	1259	OPEN LUBRICATOR VALVE, PRESSURE REMAIN 1250 psi NO CLEAR INDICATION OF VALVE OPENING
	1300	CLOSE LUBRICATOR VALVE, BLEED DOWN TO 1000 psi
	1306	OPEN LUBRICATOR VALVE, PRESSURE INCREASE TO 1250 psi
	1308	START RUN IN HOLE WITH SAMPLERS AND TPT
	1322	GAUGE AT 100M, OPEN WELL TO GAUGE TANK
	1534	FIRST BOTTOM HOLE SAMPLE TAKEN AT 4428M
	1604	SECOND BOTTOM HOLE SABLE TAKEN AT 3904M
	1620	SHUT IN WELL AT THE CHOKE MANIFOLD
	1622	PULL OUT OF HOLE WHILE GRADIENT SURVEY
	1840	TDT GAUGE AND BOTTOM HOLE SAMPLERS ON SURFACE CLOSE LUBRICATOR VALVE, BLEED OFF WELL HEAD PRESSURE.
	1900	CLOSE SWAB VALVE, AND CHOKE MANIFOLD OPEN

N° DOP 108

FLOPETROL

Section : **6**

SEQUENCE OF EVENTS -(Continuation)

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DATE	TIME	OPERATION
10-10-89	1900	KILL VALVE
	1907	PRESSURE UP TO 1500 psi ABOVE LUBRICATOR VALVE
	1908	OPEN LUBRICATOR VALVE, WELL OPEN TO
		CHOKE MANIFOLD
	1910	OPEN UP WELL TO GAUGE TANK
	1915	OBTAIN THE FIRST BOTTOM HOLE SAMPLE (3904M)
		AT ATMOSPHERIC CONDITION
	2000	100% MLD FLOWING TO THE SURFACE
	2006	DIVERT FLOW TO FLARE
	2045	OBTAIN THE SECOND BOTTOM HOLE SAMPLE (4428M)
		AT ATMOSPHERIC CONDITION, BOTH SAMPLES APPEAR
		TO BE FORMATION WATER
	2050	RIG DOWN WIRELINE EQUIPMENT
11-10-89		
	1006	CLOSE PCT BLEED OFF PRESSURE
	1011	CLOSE CHOKE MANIFOLD
	1014	OPEN KILL VALVE
	1026	OPEN MIDRV - 2800 psi CLOSE KILL VALVE
	1030	OPEN CHOKE MANIFOLD HOLD PRESSURE ON
		VARIABLE CHOKE - COMMENCE REVERSE CIRCULATION
		ADJUST VARIABLE CHOKE AS REQUIRED TO
		MAINTAIN APPROPRIATE TUBING PRESSURE
	1158	OPEN KILL VALVE
	1204	CLOSE MIDRV
	1210	OPEN PCT
	1212	COMMENCE BULLHEADING
	1255	CLOSE MASTER VALVE, FLUSH THROUGH SURFACE LINES
	1306	CLOSE FLOW VALVE, OPEN MASTER VALVE
	1315	PRESSURE UP ANNULUS TO OPEN SHORT

FLOPETROL

Client : PETROFINA

Field : ANEMONE 1A
Well : ANEMONE 1A

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Report N°:

- WELL TESTING DATA SHEET -

Base :

DATE - TIME	PRESSURE AND TEMPERATURE MEASUREMENTS			SEPARATOR			PROD. RATES AND FLUID PROPERTIES				GOR	
	BOTTOM HOLE	WELL HEAD	SEPARATOR	OIL OR CONDENSATE	GAS			Units				
Time	Cumul	Tg.temp	Tg.press	Cg.press	Temp.	Press.	Rate		Gravity	BSW	Rate	Rate	Gravity
												Air = 1
0530										7 - 10	- 89	
0805												
0815												
1010												
1018												
1050												
1112												
1410												
1425												
1615												
1650												
1900												
2145												

LIQUID FLOW RATE MEASURING CONDITIONS :

TESTED INTERVAL : 4535 - 4545M
DEPTH REFERENCE : RKB
DEPTH OF B.H. MEASUREMENTS :

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR					
Time	Cumul	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		Rate	Gravity	Air = 1	Units
		Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Rate	Rate				
				OC	PSIG										
0622				10	26										
0625				10	25										
0630				10	23										
0640				10	21				8-10-89						
0645				10	20										
0700				10	20										
0730				10	21										
0800				10	21										
0830				10	20										
0855															
0900															
1015															

NO INDICATION OF GUNS HAVING FIRED - SMALL WHP DUE TO HYDROSTATIC AND DISPLACEMENT

RIG UP SCHLUMBERGER SURFACE CONTROL EQUIPMENT AND LUBRICATOR FOR FISHING OPERATION

RIG UP COMPLETE, CLOSE LUBRICATOR VALVE OPEN KILL VALVE

OPEN SWAB VALVE - HALIBURTON FLUSH AIRE OUT OF LINES AND LUBRICATOR WITH WATER

COMMENCE PRESSURE TEST OF LUBRICATOR AND BOPS TO 9000 psi

TEST GOOD - CLOSE KILL VALVE OPEN LUBRICATOR VALVE

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

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DATE -- TIME	PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR	WATER CUSHION							
	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE				GAS						
Time	Temp.	Pressure	Tg. Temp.	Tg. press.	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity	Rate	Gravity			
MINS	OC	PSIG	PSIG	PSIG				Air = 1					CUMULATION				
														BBL/DAY	BBL	Units	
1604																	
1605	75		12	2295			8-10-89										
1606	76/0		12	2300			OPEN UP WELL ON FULL ADJUSTABLE CHOKE TO TANK										
1607	1						SLIGHT VACUUM										
1613	7						VERY WEAK BUBBLE ON SURFACE										
1617	11/0						CLOSE IN WELL PCT AND CLOSE CHOKE MANIFOLD										
								9-10-89									
0530	793						PRESSURE UP TUBING TO 1000 PSI										
0543	806/0		9	1570	1800		OPEN PCT. WELL OPEN TO CHOKE MANIFOLD										
0544	1		9	1665	1800												
0545	2		9	1730	1800												
0546	3		9	1895	1800												
0547	4		9	4	1800		OPEN UP WELL ON FULL ADJUSTABLE CHOKE TO GAUGE TANK										
0550	7		9	4	1800												
0555	12		9	4	1800												
0600	17		9	3	1800												
0605	22		9	2	1800												
0610	27		9	1	1800												
0615	32		9	1	1800											100.8	--

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

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Report No.: 01/89

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7

DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				WATER CUSHION			
Time	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GOR	BBL/DAY	CUM. BBLs	Units
		Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate					Gravity	Rate	Gravity
				C	PSIG	PSIG							
06:15													
06:30	47			9	1	1800			9-10-89			88.32	1.97
07:00	77			9	1	1800						100.80	3.94
07:30	107			9	1	2000						126.72	6.05
08:00	137			9	1	2000						126.72	8.16
08:30	167			10	5	2000			WEAK BLOW ON BUBBLE HOSE			66.36	9.61
09:00	197			10	5	2000						66.36	10.93
09:30	227			12	5	2000						75.84	12.38
10:00	257			12	5	2000						75.84	13.69
10:30	287			12	5	2000						75.84	15.00
11:00	317			13	4	2000						38.40	15.46
11:30	347			13	4	2100						101.76	17.12
12:00	377			13	5	2100						50.88	18.31
12:30	407			13	4	2100						63.36	19.67
13:00	437			13	3	2100						50.68	20.69
13:30	467			13	3	2100						63.66	22.14
14:00	497			13	2	2100						12.72	22.93
14:30	527			13	2	2100						63.66	23.85
15:00	557			13	2	2100						50.88	25.17

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

Report No.:

DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				SEPARATOR				PROD. RATES AND FLUID PROPERTIES				GOR		WATER CUSHION	
Time	Cumul	BOTTOM HOLE		WELL HEAD		Temp.	Press.	Rate	Gravity	BSW	OIL OR CONDENSATE		GAS		BBI/D	BBL	Units
		Temp.	Pressure	Tg. Temp.	Tg. press						Cg. press.	PSIG	PSIG	Rate				Rate	Gravity	Air = 1
	MINS			°C													
2330																	
0000	1097			12	11.0	2050					10-10-89			63.36	49.12		
0030	1127			12	10.0	2050								37.92	49.91		
0100	1157			12	11.0	2100			BSW = 99% H ² O		1% EMULSION			50.88	50.97		
0130	1187			12	11.0	2120			WEAK BLOW AT BUBBLE HOSE					57.12	52.16		
0200	1217			12	11.0	2120								63.36	53.48		
0230	1247			12	11.0	2120								57.12	54.67		
0300	1277			12	11.0	2150								63.36	55.99		
0330	1307			12	12	2150								63.36	57.31		
0400	1337			12	12	2150			BSW = 99% H ² O		1% EMULSION			75.84	58.89		
0430	1367			12	12	2080								63.36	60.21		
0500	1397			12	12	2080								50.88	61.27		
0530	1427			12	11	2080								37.92	62.06		
0600	1457			12	10	2080			BSW = 99% H ² O		1% EMULSION			63.36	63.38		
0600									CHANGE TANKS		TAKE DIP 49cm						
0630	1487			12	10	2080								63.36	64.70		
0700	1517			12	11	2080								63.36	66.02		
0730	1547			12	11	2080			BSW = 98% H ² O		2% EMULSION			57.12	67.21		
0800	1577			12	10	2080								82.56	68.93		

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

DATE -- TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				SEPARATOR				PROD. RATES AND FLUID PROPERTIES				GOR		WATER		
Time	Cumul MINS	BOTTOM HOLE		WELL HEAD		Temp.	Press.	OIL OR CONDENSATE		GAS		Rate	Gravity	Air = 1	Rate	Gravity	BBL/DAY	Units
		Temp.	Pressure	Tg. press	PSIG			Cg. press.	PSIG	Rate	Gravity								Rate	Gravity
1320																		
1322	72/0			12	6	2100												
1400	38			14	5	2100												
1430	68			14	6	2100												
1500	98			13	9	2100												
1530	128			13	10.5	2100												
1600	158			12	12.5	2100												
1620	178/0			13	14	2100												
1622	2			13	15	2100												
1623	3			13	17	2100												
1624	4			13	20	2100												
1625	5			13	24	2100												
1626	6			13	30	2100												
1627	7			13	35	2100												
1628	8			13	41	2100												
1629	9			13	49	2100												
1630	10			13	59	2050												
1635	15			13	110	2050												

10-10-89

OPEN CHOKE MANIFOLD TO GAUGE TANK

BSW : 2% MLD

BSW : 2% MLD

FIRST BOTTOM HOLE SAMPLE TAKEN @ 4428M

SECOND BOTTOM HOLE SAMPLE TAKEN @ 3904M

SHUT IN WELL AT CHOKE MANIFOLD

PULL OUT OF HOLE FOR GRADIENT SURVEY

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

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DATE - TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		WATER	
Time	Cumul MINS	BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS		RATE BBL/day	CUM. BBL
		Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate			Gravity
		°C	PSIG	PSIG				Rate	Gravity	Rate	Air = 1		Units
1635													
1640	20	13	255	2050				10-10-89					
1645	25	13	372	2050									
1700	40	13	695	2050									
1715	55	13	858	2050									
1730	70	13	1047	2050									
1745	85	13	1196	2050									
1800	100	13	1230	2050									
1815	115	13	1290	2050									
1830	130	13	1330	2050									
1840	140	13	1450	2050									
1907	167		1500										
1908	168	13	1645										
1909	169	13	1645										
1910	170/0	13	1645										
1911	1	13	2										
1912	2	13	4										
1913	3	13	4										

BOTTOM HOLE SAMPLER ON SURFACE, CLOSE LUBRICATOR VALVE
AND BLEED OFF PRESSURE.
PRESSURE UP TO 1500 psi TO EQUALISE LUBRICATOR VALVE.
OPEN LUBRICATOR VALVE.
OPEN WELL TO GAUGE TANK.

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET — (Continuation)

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DATE — TIME		PRESSURE AND TEMPERATURE MEASUREMENTS				PROD. RATES AND FLUID PROPERTIES				GOR		
BOTTOM HOLE		WELL HEAD		SEPARATOR		OIL OR CONDENSATE		GAS				
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	Rate	Gravity
MINS		Air = 1										
Units												
0030	320			13	15	2080			MLD @ SURFACE			
0100	350			12	14	2080			MLD @ SURFACE	70% MLD WATER	30% MLD EMLSION	
0130	380			12	14	2080			GAS TO SURFACE	WEAK BLOW		7% CO ₂
0200	410			12	12	2080			BSW = 85% MLD	15% EMLSION	15% CO ₂	WEAK BLOW
0230	440			12	12	2080			BSW = 90% MLD/H ₂ O	10% EMLSION	17% CO ₂	
0300	470			12	12	2080			90% MLD/H ₂ O	10% EMLSION	17% CO ₂	GAS @ SURFACE STRONG BLOW
0330	500			12	12	2080			90% MLD/H ₂ O	10% EMLSION	27% CO ₂	GAS @ SURFACE STRONG BLOW
0400	530			12	12	2080			90% MLD/H ₂ O	10% EMLSION	24% CO ₂	GAS @ SURFACE STRONG BLOW
0430	560			12	12	2080			90% MLD/H ₂ O	10% EMLSION	32% CO ₂	GAS @ SURFACE STRONG BLOW
0500	590			12	10	2080			95% MLD/H ₂ O	5% EMLSION	(SAMPLE TAKEN)	
0530	620			12	11	2080			95% MLD/H ₂ O	5% EMLSION	35% CO ₂	
0600	650			12	12	2080			95% MLD/H ₂ O	5% EMLSION	35% CO ₂	
0610	660			12	12	2080			(SAMPLE TAKEN)			
0630	680			12	12	2080			95% MLD/H ₂ O	5% EMLSION	35% CO ₂	
0700	710			13	12	2080			95% MLD/H ₂ O	5% EMLSION	35% CO ₂	
0730	740			12	12	2080			95% MLD/H ₂ O	5% EMLSION	40% CO ₂	
0800	770			12	12	2080			95% MLD/H ₂ O	5% EMLSION		

SCHLUMBERGER TESTING

WELL TESTING DATA SHEET -- (Continuation)

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DATE -- TIME				PRESSURE AND TEMPERATURE MEASUREMENTS					PROD. RATES AND FLUID PROPERTIES					GOR	
BOTTOM HOLE		WELL HEAD			SEPARATOR		OIL OR CONDENSATE			GAS					
Time	Cumul	Temp.	Pressure	Tg. Temp.	Tg. press	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate	Gravity		
				°C	PSIG	PSIG							Air = 1		Units
									11-10-89						
0830	800			13	13	2050			BSW = 90% H ₂ O		5% MD	5% EMULSION		GAS 43%	CO ₂
0900	830			13	13	2050			BSW = 95% H ₂ O		3% MD	2% EMULSION		GAS 45%	CO ₂
0930	860			13	12	2050			BSW = 95% H ₂ O		3% MD	2% EMULSION		GAS 45%	CO ₂
1000	890			13	12	2050			BSW = 95% H ₂ O		3% MD	2% EMULSION		GAS 54%	CO ₂
1006	896			13	12	2050		CLOSE PCT	- BLEED OFF PRESSURE						
1011									CLOSE CHOKE MANIFOLD						
1014									OPEN KILL VALVE						
1026									OPEN MIDRU - 2800 PSI - CLOSE KILL VALVE						
1030									OPEN CHOKE MANIFOLD HOLD PRESSURE ON VARIABLE CHOKE						
									COMMENCE REVERSE CIRCULATING ADJUST VARIABLE CHOKE						
									AS REQUIRED TO MAINTAIN PRESSURE ON TUBING						
1158									OPEN KILL VALVE						
1204									CLOSE MIDRU						
1210									OPEN PCT						
1212									COMMENCE BULLHEADING						

EXAL REPORT (DST #1)

EXAL
RESERVOIR SERVICES



PRECISION
PRESSURE/TEMPERATURE
MEASUREMENT

WELL SITE TEST REPORT

Client : Petrofina Exploration Australia A.S.
Well : Anemone # 1A
Dates : 22nd September to 4th October, 1989
Country : Australia
Rig/Platform : Zapata Arctic
Field : Wildcat
Test : DST # 1
Exal Job Number : AB 256
Perforation Interval : 4599-4618m mdrkb
4629-4652m mdrkb
Client Engineer : D. Sousa
Exal Engineer : J. Walker

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RESERVOIR SERVICES



TECHNICAL INDEX

- 1... Introduction.
- 2... Sequence of events.
- 3... Gauge information.
- 4... Diagrams : Test String.
Gauge carrier.
- 5... Real time pressure/temperature plots - EMS 73033.
- 6... Real time pressure/temperature data - EMS 73033.
- 7... Panoil analysis - EMS 73033.
- 8... Real time pressure/temperature plots - EMS 75188.
- 9... Real time pressure/temperature plots - EMS 71532.
- 10... Real time pressure/temperature plots - EMS 74907.
- 11... Gauge comparison.

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RESERVOIR SERVICES



INTRODUCTION

Exal Reservoir Services ran four EMS 700 electronic pressure and temperature gauges into well Anemone # 1A on the Zapata Arctic as part of DST # 1. The four gauges S/N's 71532, 75188, 73033 and 74907 were run on two Exal gauge carriers APS-029 and APS-030.

The test objectives were fourfold, one to determine the type and mobility of any reservoir fluid, two to determine basic productivity characteristics, three to measure pressure/temperature effects over time, and four to obtain PVT samples.

As far as Exal Reservoir Services were concerned the test was a complete success as all gauges worked well and recorded data as per their respective control programmes.

Gauge no. 73033 was chosen as the primary gauge for analysis and for the final report.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Engineer: J.Walker
Well No.: Anemone # 1A
Date : 22/09/89

Time	Description of Event.
13:57:00	Started gauge No. 75188, Sample rate 0.008 hours
13:58:00	Started gauge No. 73033, Sample rate 0.016 hours
14:00:00	Started gauge No. 71532, Sample rate 0.008 hours
14:01:00	Started gauge No. 74907, Sample rate 0.016 hours
17:35:00	Gauges installed in 2 gauge carriers and run in hole
24/09/89	
17:00:00	Schlumberger run correlation log
22:30:00	Space out below fluted hanger
25/09/89	
05:00:00	Pressure tested full string against PCT to 9000 psi
07:00:00	Commenced Flowhead rig up
09:39:00	Packer set at 4330 m RKB
13:00:00	Schlumberger run correlation log
16:55:00	Commenced opening MIDRV
17:10:00	Commenced reversing out tubing contents to 1.52 SG mud
19:24:00	Stopped reverse circulating
19:31:00	Closed flow valve, circulating through tubing to clear restriction at MIDRV
20:20:00	Continued circulating and reverse circulating to clear restriction in MIDRV
26/09/89	
05:58:00	MIDRV restriction clear
06:00:00	Spotted viscous pill and circulated contents of tubing to water
07:55:00	Closed MIDRV, functioned tested good
08:12:00	Rigged up Schlumberger slickline
08:30:00	Pressure tested lubricator
12:05:00	Pressure tested between choke manifold and PCT
12:55:00	Pressured up annulus to open PCT
12:57:00	Commenced run in hole with slickline drop bar assembly
13:30:00	Commenced attempts to pass through restriction above PCT
15:11:00	Perforating guns detonated
15:25:00	Commenced pull out of hole with drop bar assembly
15:49:00	Rigged down slickline
16:15:00	Opened Well at choke manifold to burner flare on 2" adjustable choke Vacuum at surface
16:16:00	Water cushion at bubble hose, diverted flow to gauge tank
16:17:00	Decreased choke to 16/64" adjustable choke
16:24:00	Shut-in Well at PCT and closed choke manifold
17:29:00	Opened PCT
17:32:00	Opened Well at choke manifold to gauge tank on 16/64" adjustable choke
17:30:00	16/64" adjustable choke
18:27:00	Shut-in Well at PCT and closed choke manifold
27/09/89	
05:41:00	Opened PCT

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Engineer: J.Walker
Well No.: Anemone # 1A
Date : 27/09/89

Time	Description of Event.
05:48:00	Opened Well at choke manifold to gauge tank on 16/64" fixed choke
06:00:00	Flow diverted to burner
06:05:00	Changed choke to 20/64" adjustable choke
06:06:00	Increased choke to 24/64" adjustable choke
06:10:00	Increased choke to 32/64" adjustable choke
07:05:00	PCT closed due to washed out manifold valve
07:10:00	PCT opened
08:05:00	Increased choke to 48/64" adjustable choke
12:50:00	Changed choke to 48/64" fixed choke
14:10:00	Flow diverted to burner
16:00:00	Flow diverted through heater
16:15:00	Decreased choke to 32/64" fixed choke
16:30:00	Flow diverted through separator
18:00:00	By-passed separator
18:15:00	Flow diverted through separator
28/09/89	
01:59:30	Shut-in well at choke manifold
02:40:00	Rigged up Schlumberger wireline
05:25:00	Commenced run in hole with Schlumberger MUST and TPT gauge
07:38:00	Opened Well at choke manifold ,slowly increased to 1/2" adjustable choke, flow on by-pass to burner
07:45:00	Changed choke to 1/2" fixed choke
07:50:00	Flow diverted to heater
08:03:00	Shut-in Well at choke manifold, small fire at heater
08:05:00	Fire extinguished
11:35:30	Opened Well at choke manifold on 3/16" adjustable choke Flow on by-pass to flare
11:38:00	Increased choke to 1/4" adjustable choke
11:41:00	Changed choke to 1/2" fixed choke
13:30:00	Flow diverted through separator
29/09/89	
00:55:00	Shut-in Well at choke manifold
03:45:00	Schlumberger TPT gauge fails
04:47:00	Commenced pull out of hole with wireline, MUST and TPT gauge remain latched downhole
07:35:00	Schlumberger at surface
07:37:00	Closed lubricator valve
07:39:00	Closed swab valve
08:00:00	Unable to open lubricator valve
08:07:00	Closed master valve
08:09:00	Bled off pressure above master valve through choke manifold
08:15:00	Rigged down Schlumberger lubricator
08:41:00	Rectified problem with swab valve Closed swab and opened master valve

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Engineer: J.Walker
Well No.: Anemone # 1A
Date : 01/10/89

Time	Description of Event.
07:20:00	Opened Well at choke manifold on 1/4" fixed choke Flow by-passed to burner
09:54:00	Shut-in Well at choke manifold
11:48:00	Opened Well at choke manifold on 1/8" fixed choke Flow by-passed to burner
13:22:00	Flow diverted through separator
21:00:00	Commenced taking PVT samples at separator
23:45:00	Increased choke to 1/4" fixed choke
02/10/89	
02:20:00	Shut-in Well at choke manifold
02:33:00	Commenced bullheading formation
16:30:00	Stopped bullheading formation, observed well
18:10:00	Closed PCT
18:14:00	Attempted to open MIDRV
20:56:00	MIDRV failed to open
21:22:00	Opened SHORT
21:32:00	Commenced reverse circulation
22:00:00	Stopped reverse circulation (trip tank overflow)
23:19:00	Continued reverse circulation
03/10/89	
03:32:00	Unseated packer End of DST # 1

EXAL

RESERVOIR SERVICES



GAUGE INFORMATION

Client : Petrofina Exploration Australia S.A. Client Engineer : D. Sousa

Field : Wildcat Well : Anemone # 1A Test : DST # 1

Date : 22nd September, 1989 Job No. : AB 256

Perforations : 4599-4618m mdrkb
4629-4652m mdrkb

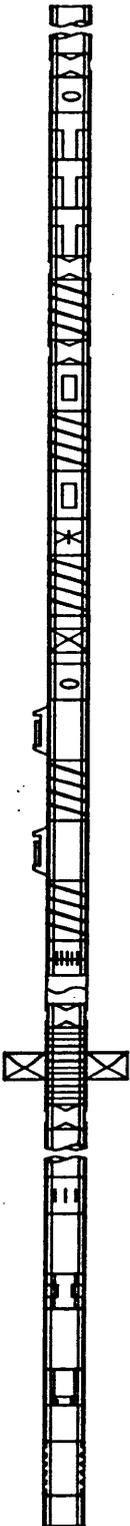
Gauge No	75188	73033	71532	74907
Gauge type	EMS 700	EMS 700	EMS 700	EMS 700
Transducer range (psia)	10000	10000	15000	15000
Start time	13:57	13:58	14:00	14:01
Start date	22/09/89	22/09/89	22/09/89	22/09/89
Delay	40hrs	40hrs	40hrs	40hrs
Sample rate	0.008hrs	0.016hrs	0.008hrs	0.016hrs
Recording duration	207hrs	374hrs	207hrs	374hrs
Recording start time	05:58 24/09/89	05:59 24/09/89	06:01 24/09/89	06:02 24/09/89
Memory capacity full	05:15 01/10/89	03:58 08/10/89	05:18 01/10/89	04:01 08/10/89
Position of carrier	Upper Carrier	Upper Carrier	Lower Carrier	Lower Carrier
Sensing depth (m mdrkb)	4267.15	4267.15	4298.63	4298.63

EXAL RESERVOIR SERVICES LIMITED

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 1

CUSTOMER : Petrofina Australia
 ENGINEER : J.Walker
 DATE : 22/09/89
 PERFORATIONS : 4599-4618m 4629-4652m

	Depth m RKB	Length Meters	O.D. Inches	I.D. Inches
TUBING 3 1/2"VAM 12.7 # L80	255.38	3747.17	3.500	2.625
CROSS OVER 3 1/2"VAM X 3 1/2"IF	4002.65	.31	4.750	2.688
M.U.S.T.	4002.86	3.12	5.250	2.250
SLIP JOINT [OPEN]	4005.98	8.89	5.000	2.250
SLIP JOINT [1/2 OPEN]	4014.87	8.13	5.000	2.250
SLIP JOINT [CLOSED]	4023.00	7.07	5.000	2.250
CROSS OVER 3 1/2"IF X 3 1/2"XH	4030.07	.52	4.750	2.438
DRILL COLLARS [6 STANDS]	4030.60	166.10	4.750	2.313
CROSS OVER 3 1/2"XH X 3 1/2"IF	4196.70	.43	4.813	2.313
S.H.O.R.T. REVERSING VALVE	4197.13	.86	5.000	2.400
DRILL COLLARS [1 STAND]	4198.00	27.25	4.750	2.250
M.I.D.R.V.	4225.25	2.91	5.000	2.250
R.A. MARKER SUB (PIP TAG @ 4228.78 m RKB)	4228.15	.80	4.750	2.625
DRILL COLLARS [1 STAND]	4229.05	27.18	4.750	2.250
P.C.T.	4256.23	7.00	5.000	2.250
H.R.T. [CLOSED]	4263.23	1.62	5.000	2.250
GAUGE CARRIER EMS # 75188 & EMS # 73033	4264.84	2.97	5.375	2.300
DRILL COLLARS [1 STAND]	4267.81	28.51	4.750	2.250
GAUGE CARRIER EMS # 71532 & EMS # 74907	4298.32	2.97	5.375	2.300
DRILL COLLARS [1 STAND]	4299.29	27.71	4.750	2.250
JARS [CLOSED]	4327.00	1.99	5.000	2.250
SAFETY JOINT	4328.99	.52	5.000	2.250
CROSS OVER 3 1/2"IF X 2 7/8"EUE	4329.51	.25	4.750	2.438
POSITRIVE PACKER [MID RUBBERS AT 4330.79 m RKB]	4329.76	1.66	5.500	2.400
CROSS OVER 2 7/8"EUE X 2 3/8"EUE	4331.42	.31	3.625	2.000
TUBING 2 3/8"EUE [25 JOINTS]	4331.73	239.82	2.875	1.901
GUN DROP SUB	4571.55	.46	3.000	2.000
TUBING 2 3/8"EUE [1 JOINT]	4572.01	9.59	2.875	1.901
VENT SUB	4581.80	.92	3.000	1.875
TUBING 2 3/8"EUE [1 JOINT]	4582.52	9.58	2.875	1.901
MECHANICAL FIRING HEAD	4592.10	2.05	3.375	
SAFETY SPACER	4594.15	4.85	3.375	
T.C.P. GUNS [22g HMX 6 SPF 60 DEGREE PHASING]	4599.00	53.00	3.375	
BULLNOSE	4652.00	.20	3.375	

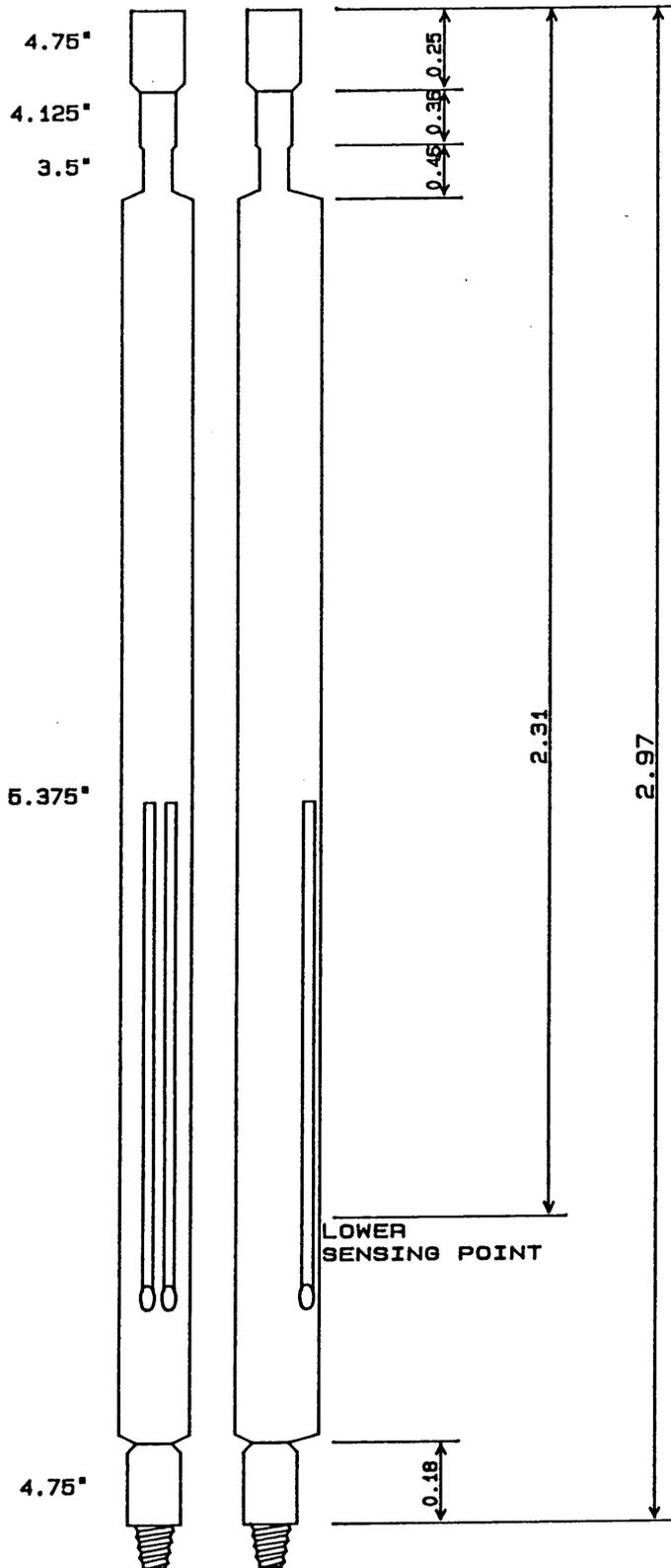


EXAL RESERVOIR SERVICES LIMITED

GAUGE CARRIER DETAILS

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 1

CUSTOMER : Petrofina Australia
 ENGINEER : J. Walker
 DATE : 22/09/89
 CARRIER : APS 029



Eccentric body
 Concentric bore - 2.3" I.D.
 Drifted to 2.125"

LOWER GAUGE# 75188
 BATTERIES ON : 13: 57 22-09-89
 START SAMPLING : 05: 58 24-09-89
 END SAMPLING : 05: 15 01/10/89
 SAMPLE RATE : 0.008 hrs
 PRES/TEMP RATIO : 4: 1

LOWER GAUGE# 73033
 BATTERIES ON : 13: 58 22-09-89
 START SAMPLING : 05: 59 24-09-89
 END SAMPLING : 03: 58 08/10/89
 SAMPLE RATE : 0.016 hrs
 PRES/TEMP RATIO : 4: 1

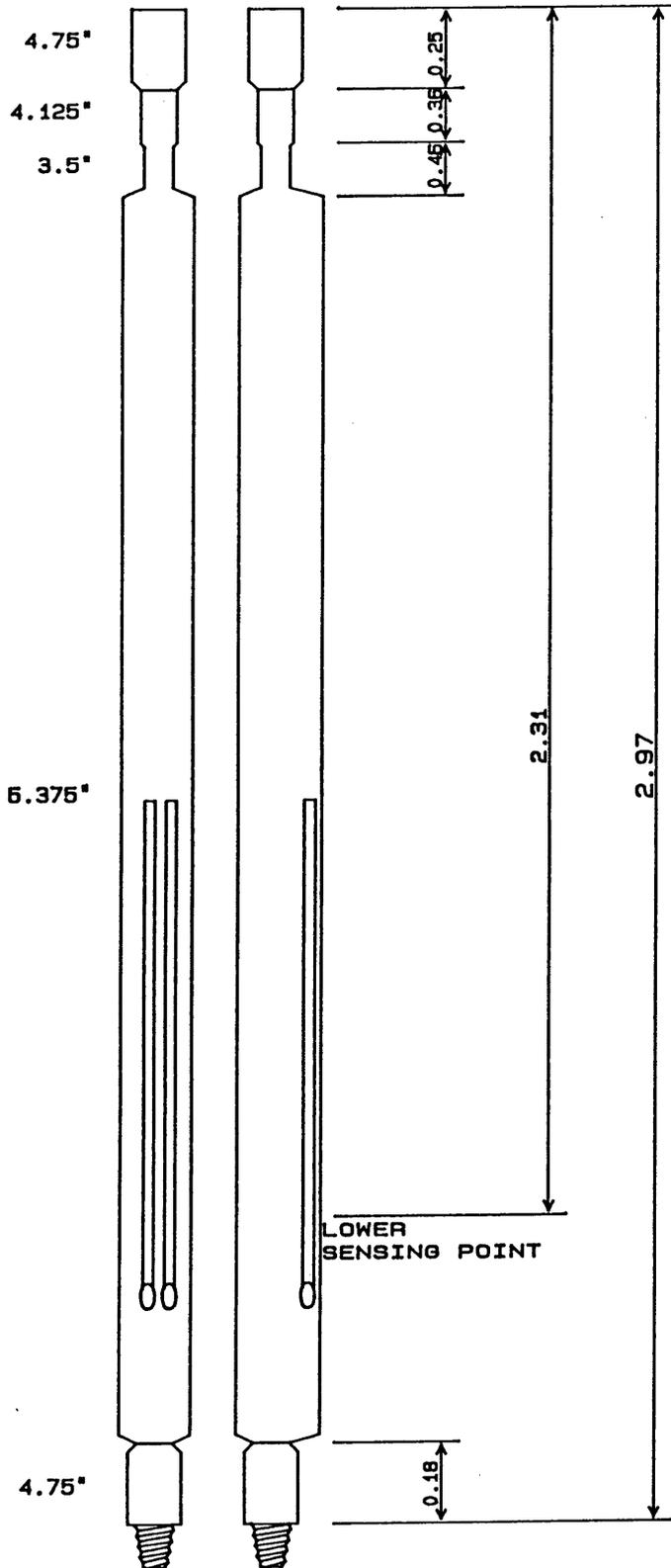
All lengths given in METERS

EXAL RESERVOIR SERVICES LIMITED

GAUGE CARRIER DETAILS

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 1

CUSTOMER : Petrofina Australia
 ENGINEER : J. Walker
 DATE : 22/09/89
 CARRIER : APS 030

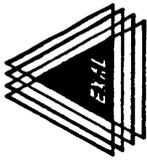


Eccentric body
 Concentric bore - 2.3" I.D.
 Drifted to 2.125"

LOWER GAUGE# 71532
 BATTERIES ON : 14:00 22-09-89
 START SAMPLING : 08:01 24-09-89
 END SAMPLING : 05:18 01-10-89
 SAMPLE RATE : 0.008 hrs
 PRES/TEMP RATIO : 4:1

LOWER GAUGE# 74907
 BATTERIES ON : 14:01 22-09-89
 START SAMPLING : 08:02 24-09-89
 END SAMPLING : 04:01 08-10-89
 SAMPLE RATE : 0.016 hrs
 PRES/TEMP RATIO : 4:1

All lengths given in METERS

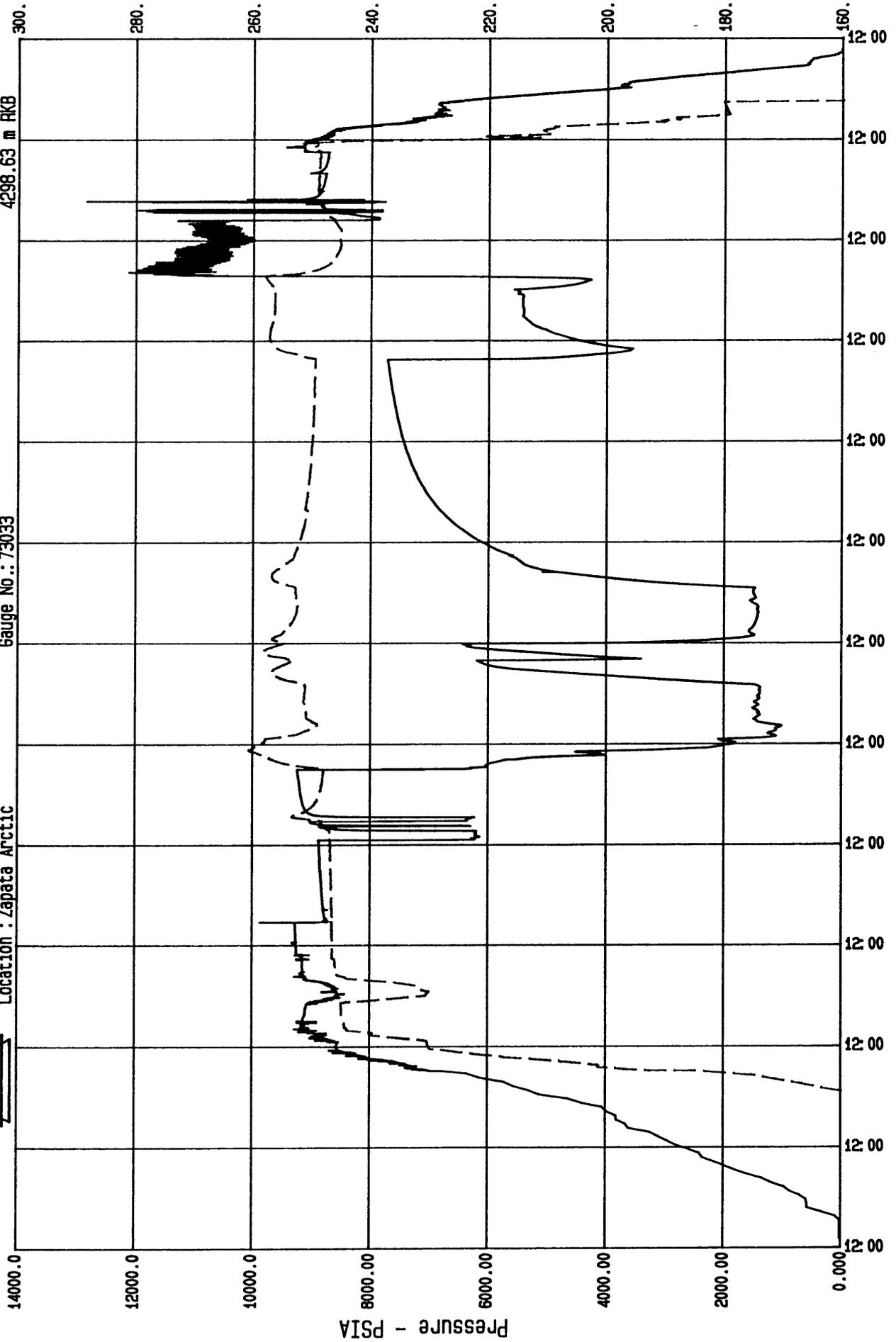


**EXAL RESERVOIR
SERVICES LTD.**

**Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic**

**Engineer : J. Walker
Date : 22/09/89
Recorder : Memory Gauge
Gauge No. : 73033**

**Comments : Sensing Depth
4298.63 m RKB**



Real Time (24.00 hours per division)

Report# v0.35

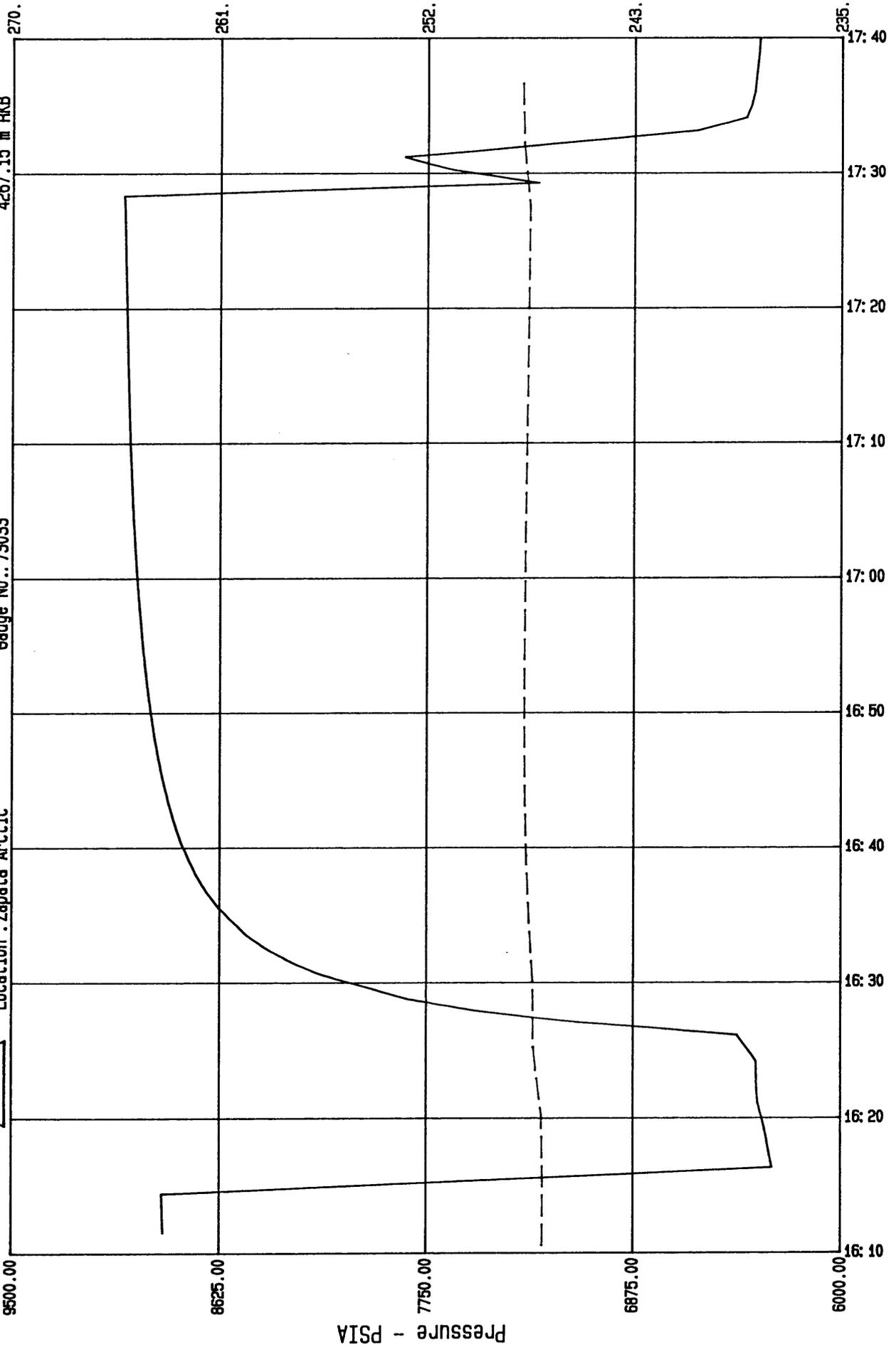


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 26/09/89
Recorder : Memory Gauge
Gauge No. : 73033

Comments : Sensing Depth
4267.15 m RKB



Real Time (0.167 hours per division)

Report# v0.35

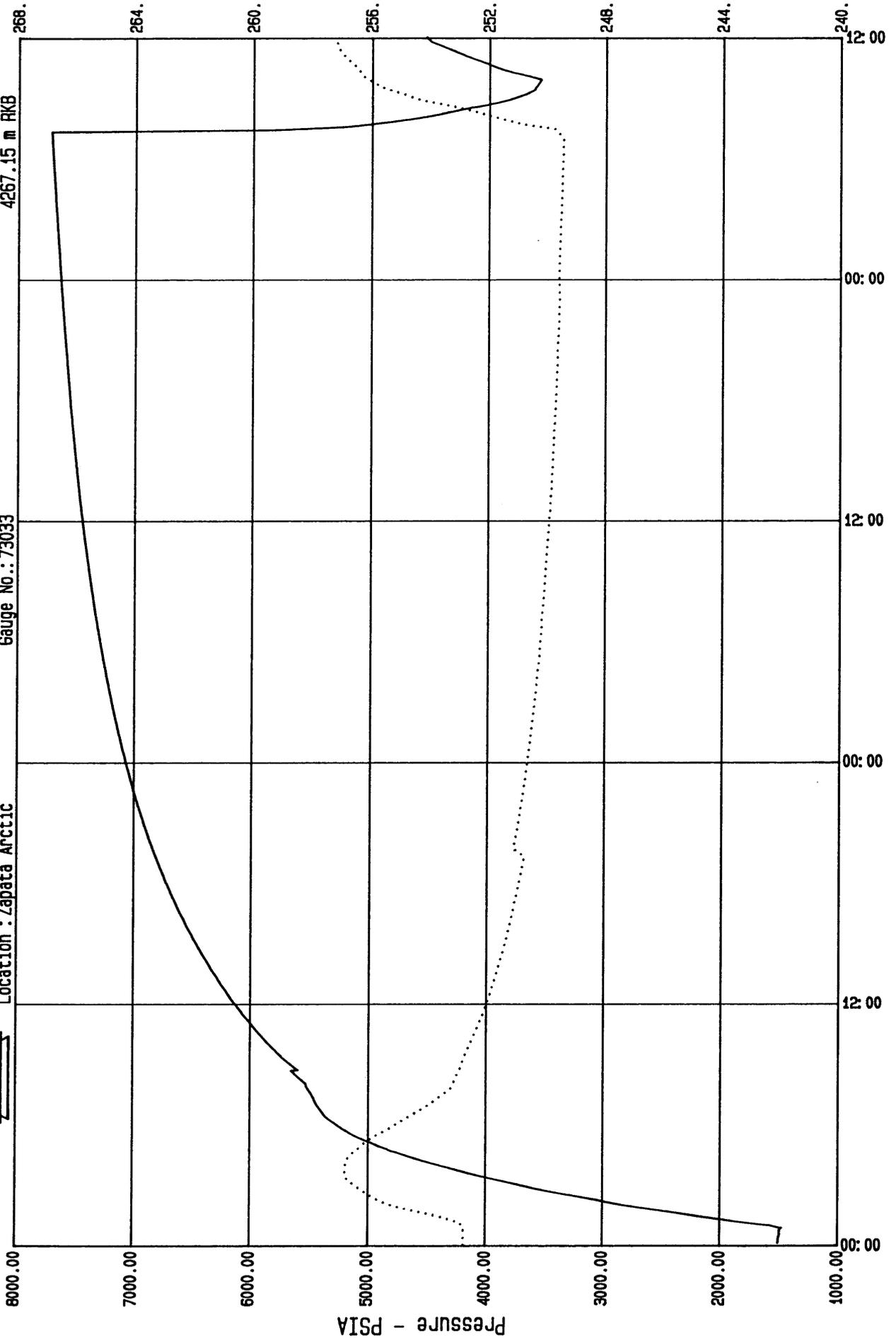


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 29/09/89
Recorder : Memory Gauge
Gauge No. : 73033

Comments : Sensing Depth
4267.15 m RKB



Real Time (12.00 hours per division)

Report# v0.35



Memory Gauge Data.

Customer : Petrofina Australia

Location : Zapata Arctic

Well No. : Anemone # 1A

Test No. : DST # 1

Gauge No : 73033

Engineer : J.Walker

Comments : Sensing Depth 4267.15m RKB

Printout of REDUCED DATA

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 25/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:57:00				
13:58:00				
14:00:00				
14:01:00				
17:35:00				
17:00:00				
22:30:00				
05:00:00				
07:00:00				
09:30:13	67.537	9026.83		9026.83
09:36:56	67.649		246.45	
09:39:00				
09:42:42	67.745	9240.86		214.03
09:45:35	67.793	9242.75		1.89
09:51:20	67.889		246.42	
09:54:13	67.937	9247.70		4.95
09:59:59	68.033	9250.52		2.82
10:02:52	68.081	9251.88		1.37
10:08:37	68.177	9254.13		2.24
10:11:30	68.225	9254.88		0.75
10:17:16	68.321	9255.56		0.68
10:20:08	68.369		246.39	
10:25:54	68.465	9255.96		0.40
10:31:40	68.561	9246.60		-9.37
10:34:32	68.609		246.39	
10:40:18	68.705	9253.13		6.53
10:43:11	68.753	9253.82		0.68
10:48:56	68.849		246.38	
10:51:49	68.897	9253.21		-0.60
10:57:35	68.993	9253.95		0.74
11:00:28	69.041	9253.47		-0.48
11:06:13	69.137	9253.19		-0.28
11:09:06	69.185	9253.51		0.32
11:14:52	69.281	9254.07		0.56
11:17:44	69.329		246.39	
11:23:30	69.425	9254.56		0.48
11:29:16	69.521	9255.41		0.86
11:32:08	69.569		246.39	
11:37:54	69.665	9255.96		0.55
11:40:47	69.713	9256.37		0.40
11:46:32	69.809		246.39	
11:49:25	69.857	9256.85		0.48
11:56:08	69.969		246.40	
11:59:01	70.017	9257.47		0.62
12:04:47	70.113	9258.31		0.85
12:07:40	70.161	9258.66		0.35
12:13:25	70.257	9260.34		1.68
12:16:18	70.305	9261.49		1.15
12:22:04	70.401	9255.94		-5.56
12:27:49	70.497	9257.17		1.23

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
12:30:42	70.545	9321.51		64.34
12:36:28	70.641	9317.36		-4.16
12:39:20	70.689		246.48	
12:45:06	70.785	9254.00		-63.35
12:47:59	70.833	9255.66		1.65
12:53:44	70.929		246.40	
12:56:37	70.977	9258.03		2.38
13:00:00	Schlumberger run correlation log			
13:02:23	71.073	9258.80		0.76
13:05:16	71.121	9259.00		0.20
13:11:01	71.217	9259.86		0.86
13:16:47	71.313	9261.14		1.29
13:19:40	71.361	9261.22		0.08
13:25:25	71.457	9261.71		0.48
13:28:18	71.505	9261.48		-0.23
13:34:04	71.601	9261.84		0.36
13:36:56	71.649		246.42	
13:42:42	71.745	9262.92		1.07
13:45:35	71.793	9263.40		0.48
13:51:20	71.889		246.43	
13:54:13	71.937	9263.77		0.38
13:59:59	72.033	9264.10		0.32
14:02:52	72.081	9263.98		-0.12
14:08:37	72.177	9263.88		-0.09
14:15:20	72.289		246.42	
14:18:13	72.337	9264.97		1.09
14:23:59	72.433	9264.74		-0.23
14:26:52	72.481	9265.21		0.47
14:32:37	72.577	9266.07		0.86
14:35:30	72.625	9266.07		0.00
14:41:16	72.721	9266.03		-0.04
14:44:08	72.769		246.43	
14:49:54	72.865	9266.90		0.87
14:52:47	72.913	9266.94		0.04
14:58:32	73.009		246.43	
15:01:25	73.057	9268.89		1.95
15:07:11	73.153	9269.45		0.56
15:12:56	73.249		246.44	
15:15:49	73.297	9269.02		-0.43
15:21:35	73.393	9268.85		-0.17
15:24:28	73.441	9268.42		-0.43
15:30:13	73.537	9268.85		0.43
15:33:06	73.585	9269.18		0.34
15:38:52	73.681	9269.33		0.15
15:41:44	73.729		246.48	
15:47:30	73.825	9270.35		1.02
15:50:23	73.873	9270.19		-0.16
15:56:08	73.969		246.48	
15:59:01	74.017	9271.40		1.21
16:04:47	74.113	9271.40		0.00

Exal Reservoir Services Ltd.

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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:10:32	74.209		246.48	
16:13:25	74.257	9271.24		-0.16
16:19:11	74.353	9271.88		0.64
16:22:04	74.401	9272.00		0.12
16:27:49	74.497	9272.32		0.32
16:30:42	74.545	9272.32		0.00
16:37:25	74.657	9272.49		0.16
16:40:18	74.705	9272.69		0.20
16:46:04	74.801	9273.51		0.82
16:48:56	74.849		246.48	
16:54:42	74.945	9273.95		0.44
16:55:00	Commenced opening MIDRV			
17:00:28	75.041	9274.38		0.43
17:03:20	75.089		246.48	
17:09:06	75.185	9274.84		0.46
17:10:00	Commenced reversing out tubing contents to 1.52 SG mud			
17:11:59	75.233	9275.80		0.97
17:17:44	75.329		246.48	
17:20:37	75.377	9270.03		-5.77
17:26:23	75.473	9802.31		532.29
17:29:16	75.521	8720.57		-1081.75
17:35:01	75.617	8763.96		43.39
17:37:54	75.665	8766.22		2.26
17:43:40	75.761	8784.23		18.01
17:46:32	75.809		246.46	
17:52:18	75.905	8737.39		-46.84
17:58:04	76.001	8743.42		6.03
18:00:56	76.049		246.46	
18:06:42	76.145	8754.47		11.06
18:09:35	76.193	8756.38		1.90
18:15:20	76.289		246.52	
18:18:13	76.337	8756.44		0.07
18:23:59	76.433	8758.77		2.33
18:26:52	76.481	8755.95		-2.82
18:32:37	76.577	8761.79		5.83
18:35:30	76.625	8763.48		1.69
18:41:16	76.721	8766.75		3.27
18:44:08	76.769		246.40	
18:49:54	76.865	8770.39		3.64
18:56:37	76.977	8775.77		5.39
18:59:30	77.025	8776.42		0.65
19:05:16	77.121	8778.20		1.77
19:08:08	77.169		246.52	
19:13:54	77.265	8780.01		1.81
19:16:47	77.313	8779.65		-0.36
19:22:32	77.409		246.52	
19:24:00	Stopped reverse circulating			
19:25:25	77.457	8783.00		3.35
19:31:00	Closed flow valve, circulating through tubing to clear restriction at MIDRV			

Exal Reservoir Services Ltd.

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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
19:31:11	77.553	8781.72		-1.28
19:34:04	77.601	8783.08		1.36
19:39:49	77.697	8785.91		2.83
19:42:42	77.745	8784.07		-1.84
19:48:28	77.841	8782.56		-1.51
19:54:13	77.937	8785.41		2.85
19:57:06	77.985	8787.67		2.26
20:02:52	78.081	8791.01		3.34
20:05:44	78.129		246.48	
20:11:30	78.225	8793.83		2.82
20:14:23	78.273	8787.48		-6.36
20:20:00	Continued circulating and reverse circulating to clear restriction in MIDRV			
20:20:08	78.369		246.49	
20:23:01	78.417	8727.96		-59.51
20:28:47	78.513	8722.72		-5.25
20:31:40	78.561	8796.06		73.34
20:37:25	78.657	8797.62		1.56
20:43:11	78.753	8797.95		0.33
20:46:04	78.801	8784.71		-13.24
20:51:49	78.897	8790.97		6.26
20:54:42	78.945	8791.04		0.07
21:00:28	79.041	8791.28		0.24
21:03:20	79.089		246.48	
21:09:06	79.185	8791.50		0.23
21:11:59	79.233	8796.98		5.48
21:18:42	79.345	8797.88		0.90
21:21:35	79.393	8798.44		0.56
21:27:20	79.489		246.53	
21:30:13	79.537	8799.90		1.46
21:35:59	79.633	8800.53		0.64
21:41:44	79.729		246.56	
21:44:37	79.777	8803.34		2.81
21:50:23	79.873	8804.93		1.59
21:53:16	79.921	8805.31		0.38
21:59:01	80.017	8805.08		-0.24
22:01:54	80.065	8805.55		0.48
22:07:40	80.161	8807.18		1.63
22:10:32	80.209		246.59	
22:16:18	80.305	8806.43		-0.76
22:19:11	80.353	8806.82		0.40
22:24:56	80.449		246.56	
22:27:49	80.497	8806.84		0.01
22:33:35	80.593	8807.50		0.66
22:39:20	80.689		246.53	
22:42:13	80.737	8805.70		-1.80
22:47:59	80.833	8806.72		1.02
22:50:52	80.881	8807.43		0.72
22:56:37	80.977	8808.41		0.98
22:59:30	81.025	8809.13		0.72

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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
23:05:16	81.121	8811.00		1.87
23:08:08	81.169		246.52	
23:13:54	81.265	8811.65		0.65
23:16:47	81.313	8812.16		0.52
23:22:32	81.409		246.53	
23:25:25	81.457	8812.37		0.21
23:31:11	81.553	8812.98		0.61
23:36:56	81.649		246.55	
23:40:47	81.713	8814.61		1.63
23:46:32	81.809		246.56	
23:49:25	81.857	8815.34		0.73
23:55:11	81.953	8815.42		0.08
23:58:04	82.001	8815.69		0.26
00:03:49	82.097	8816.97		1.29
00:06:42	82.145	8817.01		0.04
00:12:28	82.241	8816.88		-0.13
00:15:20	82.289		246.56	
00:21:06	82.385	8817.44		0.56
00:26:52	82.481	8819.03		1.59
00:29:44	82.529		246.56	
00:35:30	82.625	8820.83		1.80
00:38:23	82.673	8821.62		0.80
00:44:08	82.769		246.57	
00:47:01	82.817	8822.55		0.93
00:52:47	82.913	8822.84		0.29
00:55:40	82.961	8823.24		0.40
01:01:25	83.057	8824.08		0.83
01:04:18	83.105	8823.36		-0.72
01:10:04	83.201	8824.23		0.87
01:12:56	83.249		246.59	
01:18:42	83.345	8825.35		1.11
01:24:28	83.441	8825.64		0.29
01:27:20	83.489		246.59	
01:33:06	83.585	8825.94		0.30
01:35:59	83.633	8825.63		-0.32
01:41:44	83.729		246.59	
01:44:37	83.777	8826.55		0.93
01:50:23	83.873	8827.19		0.64
01:53:16	83.921	8826.36		-0.84
01:59:01	84.017	8828.00		1.64
02:02:52	84.081	8828.60		0.60
02:08:37	84.177	8828.83		0.24
02:11:30	84.225	8828.87		0.04
02:17:16	84.321	8829.36		0.49
02:23:01	84.417	8829.60		0.24
02:25:54	84.465	8829.72		0.12
02:31:40	84.561	8829.28		-0.44
02:34:32	84.609		246.62	
02:40:18	84.705	8831.03		1.75
02:43:11	84.753	8831.35		0.32

Client : Petrofina Australia
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Gauge No: 73033
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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
02:48:56	84.849		246.62	
02:51:49	84.897	8832.70		1.35
02:57:35	84.993	8833.62		0.91
03:00:28	85.041	8834.06		0.44
03:06:13	85.137	8834.07		0.01
03:09:06	85.185	8834.43		0.36
03:14:52	85.281	8834.19		-0.24
03:20:37	85.377	8835.58		1.39
03:23:30	85.425	8836.03		0.45
03:29:16	85.521	8836.12		0.09
03:32:08	85.569		246.64	
03:37:54	85.665	8837.56		1.43
03:40:47	85.713	8836.84		-0.72
03:46:32	85.809		246.64	
03:49:25	85.857	8837.58		0.74
03:55:11	85.953	8838.58		0.99
03:58:04	86.001	8838.75		0.17
04:03:49	86.097	8839.23		0.48
04:09:35	86.193	8840.04		0.81
04:12:28	86.241	8840.63		0.60
04:18:13	86.337	8841.48		0.85
04:22:04	86.401	8842.50		1.02
04:27:49	86.497	8842.91		0.41
04:30:42	86.545	8843.30		0.38
04:36:28	86.641	8843.34		0.04
04:39:20	86.689		246.66	
04:45:06	86.785	8842.42		-0.91
04:47:59	86.833	8843.86		1.43
04:53:44	86.929		246.68	
04:56:37	86.977	8843.79		-0.07
05:02:23	87.073	8844.89		1.10
05:08:08	87.169		246.69	
05:11:01	87.217	8845.55		0.66
05:16:47	87.313	8845.45		-0.11
05:19:40	87.361	8840.51		-4.93
05:25:25	87.457	8845.14		4.63
05:28:18	87.505	8845.70		0.56
05:34:04	87.601	8846.22		0.52
05:36:56	87.649		246.68	
05:42:42	87.745	8848.32		2.11
05:45:35	87.793	8848.84		0.52
05:51:20	87.889		246.70	
05:54:13	87.937	8849.78		0.94
05:58:00	MIDRV restriction clear			
05:59:59	88.033	8851.35		1.57
06:00:00	Spotted viscous pill and circulated contents of tubing to water			
06:05:44	88.129		246.71	
06:08:37	88.177	8851.95		0.60
06:14:23	88.273	8852.53		0.58

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
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Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
06:17:16	88.321	8853.22		0.69
06:23:01	88.417	8853.64		0.42
06:25:54	88.465	8852.50		-1.14
06:31:40	88.561	8853.58		1.07
06:34:32	88.609		246.71	
06:40:18	88.705	8854.51		0.93
06:44:08	88.769		246.71	
06:49:54	88.865	8854.98		0.48
06:52:47	88.913	8855.58		0.60
06:58:32	89.009		246.72	
07:04:18	89.105	8856.49		0.92
07:07:11	89.153	8856.61		0.12
07:12:56	89.249		246.72	
07:15:49	89.297	8857.81		1.19
07:21:35	89.393	8857.89		0.08
07:24:28	89.441	8858.17		0.28
07:30:13	89.537	8858.86		0.69
07:33:06	89.585	8859.32		0.46
07:38:52	89.681	8859.57		0.25
07:41:44	89.729		246.75	
07:47:30	89.825	8859.86		0.29
07:53:16	89.921	8860.70		0.84
07:55:00	Closed MIDRV, functioned tested good			
07:56:08	89.969		246.75	
08:01:54	90.065	8862.76		2.06
08:04:47	90.113	8863.19		0.44
08:10:32	90.209		246.76	
08:12:00	Rigged up Schlumberger slickline			
08:13:25	90.257	8850.88		-12.31
08:19:11	90.353	8848.71		-2.18
08:22:04	90.401	8849.92		1.21
08:27:49	90.497	8851.97		2.06
08:30:00	Pressure tested lubricator			
08:30:42	90.545	8853.28		1.31
08:36:28	90.641	8855.95		2.67
08:39:20	90.689		246.76	
08:45:06	90.785	8858.18		2.23
08:50:52	90.881	8857.90		-0.28
08:53:44	90.929		246.77	
08:59:30	91.025	8859.41		1.51
09:02:23	91.073	8859.77		0.36
09:09:06	91.185	8860.46		0.69
09:11:59	91.233	8861.18		0.72
09:17:44	91.329		246.77	
09:20:37	91.377	8862.48		1.30
09:26:23	91.473	8862.88		0.40
09:29:16	91.521	8862.68		-0.20
09:35:01	91.617	8863.31		0.64
09:37:54	91.665	8863.37		0.05
09:43:40	91.761	8863.59		0.23

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 26/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:49:25	91.857	8863.47		-0.12
09:52:18	91.905	8863.83		0.36
09:58:04	92.001	8863.91		0.08
10:00:56	92.049		246.78	
10:06:42	92.145	8865.04		1.13
10:09:35	92.193	8865.52		0.48
10:15:20	92.289		246.78	
10:18:13	92.337	8865.68		0.16
10:23:59	92.433	8865.24		-0.44
10:26:52	92.481	8865.89		0.65
10:32:37	92.577	8866.79		0.90
10:35:30	92.625	8867.08		0.29
10:41:16	92.721	8868.18		1.10
10:47:01	92.817	8868.32		0.13
10:49:54	92.865	8868.67		0.36
10:55:40	92.961	8869.59		0.92
10:58:32	93.009		246.80	
11:04:18	93.105	8869.59		0.00
11:07:11	93.153	8870.39		0.80
11:12:56	93.249		246.81	
11:15:49	93.297	8870.52		0.13
11:21:35	93.393	8870.63		0.11
11:24:28	93.441	8870.67		0.04
11:31:11	93.553	8870.32		-0.35
11:36:56	93.649		246.81	
11:39:49	93.697	8870.16		-0.16
11:45:35	93.793	8870.32		0.16
11:48:28	93.841	8871.00		0.68
11:54:13	93.937	8872.18		1.18
11:57:06	93.985	8872.15		-0.03
12:02:52	94.081	8872.35		0.20
12:05:00	Pressure tested between choke manifold and PCT			
12:05:44	94.129		246.81	
12:11:30	94.225	8872.19		-0.16
12:14:23	94.273	8872.43		0.24
12:20:08	94.369		246.81	
12:23:01	94.417	8873.35		0.92
12:28:47	94.513	8873.47		0.12
12:34:32	94.609		246.82	
12:37:25	94.657	8875.23		1.77
12:43:11	94.753	8874.34		-0.89
12:46:04	94.801	8875.07		0.73
12:51:49	94.897	8876.57		1.50
12:54:42	94.945	8879.25		2.68
12:55:00	Pressured up annulus to open PCT			
12:57:00	Commenced run in hole with slickline drop bar assembly			
13:00:28	95.041	6577.10		-2302.16
13:03:20	95.089		247.09	
13:09:06	95.185	6239.30		-337.80
13:11:59	95.233	6249.76		10.46

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 26/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:17:44	95.329		246.97	
13:20:37	95.377	6266.64		16.88
13:26:23	95.473	6219.51		-47.14
13:30:00	Commenced attempts to pass through restriction above PCT			
13:32:08	95.569		246.94	
13:35:01	95.617	6195.81		-23.69
13:40:47	95.713	6164.64		-31.18
13:43:40	95.761	6154.20		-10.43
13:50:23	95.873	6139.78		-14.42
13:53:16	95.921	6143.19		3.40
13:59:01	96.017	6211.91		68.72
14:01:54	96.065	6201.97		-9.94
14:07:40	96.161	6210.31		8.35
14:10:32	96.209		246.90	
14:16:18	96.305	6207.30		-3.01
14:19:11	96.353	6202.46		-4.84
14:24:56	96.449		246.89	
14:30:42	96.545	6202.94		0.48
14:33:35	96.593	6201.51		-1.43
14:39:20	96.689		246.89	
14:42:13	96.737	6200.26		-1.25
14:47:59	96.833	6202.51		2.25
14:50:52	96.881	6197.60		-4.91
14:56:37	96.977	6198.96		1.36
14:59:30	97.025	6199.14		0.18
15:05:16	97.121	6219.34		20.21
15:08:08	97.169		246.90	
15:11:00	Perforating guns detonated			
15:13:54	97.265	6883.00		663.66
15:19:40	97.361	7856.52		973.51
15:22:32	97.409		247.22	
15:25:00	Commenced pull out of hole with drop bar assembly			
15:28:18	97.505	8378.48		521.96
15:31:11	97.553	8472.94		94.46
15:36:56	97.649		247.54	
15:39:49	97.697	8628.20		155.26
15:45:35	97.793	8688.09		59.89
15:48:28	97.841	8729.93		41.84
15:49:00	Rigged down slickline			
15:54:13	97.937	8786.12		56.19
15:57:06	97.985	8805.88		19.76
16:02:52	98.081	8834.97		29.10
16:05:44	98.129		247.60	
16:12:28	98.241	8864.11		29.14
16:15:00	Opened Well at choke manifold to burner flare on 2" adjustable choke Vacuum at surface			
16:16:00	Water cushion at bubble hose, diverted flow to gauge tank			
16:17:00	Decreased choke to 16/64" adjustable choke			
16:18:13	98.337	6311.69		-2552.42

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 26/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:21:06	98.385	6350.62		38.93
16:24:00	Shut-in Well at PCT and closed choke manifold			
16:26:52	98.481	7101.20		750.58
16:29:44	98.529		247.99	
16:35:30	98.625	8630.97		1529.76
16:38:23	98.673	8739.77		108.80
16:44:08	98.769		248.35	
16:47:01	98.817	8891.72		151.95
16:52:47	98.913	8940.06		48.34
16:55:40	98.961	8957.05		17.00
17:01:25	99.057	8982.74		25.68
17:04:18	99.105	8992.54		9.80
17:10:04	99.201	9006.71		14.17
17:15:49	99.297	9016.80		10.09
17:18:42	99.345	9020.60		3.80
17:24:28	99.441	9028.01		7.41
17:27:20	99.489		248.16	
17:29:00	Opened PCT			
17:32:00	Opened Well at choke manifold to gauge tank on			
17:30:00	16/64" adjustable choke			
17:33:06	99.585	6611.07		-2416.93
17:35:59	99.633	6369.08		-241.99
17:41:44	99.729		248.75	
17:44:37	99.777	6359.34		-9.74
17:50:23	99.873	6370.27		10.93
17:53:16	99.921	6369.95		-1.33
17:59:01	100.017	6347.21		-21.74
18:01:54	100.065	6341.58		-5.62
18:07:40	100.161	6321.55		-20.03
18:13:25	100.257	6306.21		-15.34
18:16:18	100.305	6297.55		-8.66
18:22:04	100.401	6280.24		-17.31
18:24:56	100.449		253.04	
18:27:00	Shut-in Well at PCT and closed choke manifold			
18:31:40	100.561	7472.48		1192.24
18:34:32	100.609		253.26	
18:40:18	100.705	8559.75		1087.28
18:43:11	100.753	8670.38		110.63
18:48:56	100.849		252.95	
18:51:49	100.897	8855.41		185.03
18:57:35	100.993	8922.61		67.20
19:03:20	101.089		252.36	
19:06:13	101.137	8984.79		62.18
19:11:59	101.233	9012.20		27.42
19:14:52	101.281	9022.31		10.11
19:20:37	101.377	9038.16		15.85
19:23:30	101.425	9045.19		7.03
19:29:16	101.521	9056.55		11.36
19:32:08	101.569		251.37	
19:37:54	101.665	9070.94		14.38

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 26/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
19:40:47	101.713	9075.10		4.16
19:46:32	101.809		251.01	
19:49:25	101.857	9085.73		10.63
19:55:11	101.953	9091.78		6.05
20:00:56	102.049		250.70	
20:03:49	102.097	9099.32		7.55
20:09:35	102.193	9104.12		4.80
20:12:28	102.241	9106.38		2.26
20:18:13	102.337	9110.61		4.24
20:21:06	102.385	9112.50		1.88
20:26:52	102.481	9116.37		3.88
20:29:44	102.529		250.21	
20:35:30	102.625	9121.51		5.13
20:38:23	102.673	9123.11		1.60
20:44:08	102.769		250.00	
20:47:01	102.817	9127.93		4.81
20:53:44	102.929		249.89	
20:59:30	103.025	9134.06		6.14
21:02:23	103.073	9135.51		1.44
21:08:08	103.169		249.73	
21:11:01	103.217	9139.66		4.15
21:16:47	103.313	9142.13		2.47
21:19:40	103.361	9143.19		1.06
21:25:25	103.457	9145.58		2.39
21:28:18	103.505	9146.71		1.12
21:34:04	103.601	9149.05		2.34
21:36:56	103.649		249.44	
21:42:42	103.745	9152.50		3.45
21:45:35	103.793	9153.70		1.20
21:51:20	103.889		249.32	
21:57:06	103.985	9156.89		3.19
21:59:59	104.033	9158.05		1.16
22:05:44	104.129		249.20	
22:08:37	104.177	9161.11		3.05
22:14:23	104.273	9162.86		1.75
22:17:16	104.321	9163.88		1.02
22:23:01	104.417	9165.60		1.73
22:25:54	104.465	9166.37		0.76
22:31:40	104.561	9168.14		1.77
22:34:32	104.609		249.01	
22:40:18	104.705	9170.60		2.46
22:46:04	104.801	9172.10		1.50
22:48:56	104.849		248.93	
22:54:42	104.945	9174.13		2.04
22:57:35	104.993	9174.94		0.80
23:03:20	105.089		248.85	
23:06:13	105.137	9177.25		2.32
23:12:56	105.249		248.79	
23:15:49	105.297	9179.60		2.34
23:21:35	105.393	9180.84		1.25

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 26/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
23:24:28	105.441	9180.99		0.15
23:30:13	105.537	9182.37		1.38
23:33:06	105.585	9183.07		0.70
23:38:52	105.681	9184.37		1.30
23:44:37	105.777	9185.55		1.18
23:47:30	105.825	9186.05		0.51
23:53:16	105.921	9187.27		1.22
23:56:08	105.969		248.59	
00:01:54	106.065	9188.91		1.63
00:04:47	106.113	9189.51		0.60
00:10:32	106.209		248.53	
00:13:25	106.257	9190.92		1.41
00:19:11	106.353	9192.10		1.18
00:22:04	106.401	9192.65		0.55
00:27:49	106.497	9193.52		0.87
00:30:42	106.545	9194.07		0.55
00:36:28	106.641	9195.01		0.94
00:42:13	106.737	9195.90		0.90
00:45:06	106.785	9196.29		0.39
00:50:52	106.881	9197.20		0.91
00:53:44	106.929		248.38	
00:59:30	107.025	9198.41		1.21
01:02:23	107.073	9198.85		0.44
01:08:08	107.169		248.34	
01:11:01	107.217	9200.11		1.26
01:16:47	107.313	9200.94		0.83
01:19:40	107.361	9201.29		0.35
01:25:25	107.457	9202.20		0.91
01:28:18	107.505	9202.50		0.30
01:35:01	107.617	9203.37		0.87
01:40:47	107.713	9204.33		0.96
01:43:40	107.761	9204.55		0.21
01:49:25	107.857	9205.38		0.83
01:52:18	107.905	9205.93		0.55
01:58:04	108.001	9206.77		0.84
02:00:56	108.049		248.20	
02:06:42	108.145	9208.58		1.81
02:09:35	108.193	9208.94		0.36
02:15:20	108.289		248.17	
02:18:13	108.337	9210.66		1.72
02:23:59	108.433	9211.45		0.79
02:29:44	108.529		248.14	
02:32:37	108.577	9212.59		1.14
02:38:23	108.673	9213.31		0.72
02:41:16	108.721	9213.90		0.59
02:47:01	108.817	9214.72		0.82
02:49:54	108.865	9215.28		0.56
02:55:40	108.961	9216.44		1.15
02:58:32	109.009		248.09	
03:04:18	109.105	9218.02		1.58

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:07:11	109.153	9218.42		0.40
03:12:56	109.249		248.05	
03:15:49	109.297	9220.06		1.64
03:21:35	109.393	9221.14		1.09
03:27:20	109.489		248.03	
03:30:13	109.537	9222.65		1.50
03:35:59	109.633	9223.57		0.92
03:38:52	109.681	9224.15		0.58
03:44:37	109.777	9225.11		0.97
03:47:30	109.825	9225.74		0.63
03:53:16	109.921	9226.71		0.97
03:57:06	109.985	9227.30		0.59
04:02:52	110.081	9228.61		1.31
04:05:44	110.129		247.97	
04:11:30	110.225	9230.65		2.04
04:14:23	110.273	9231.21		0.56
04:20:08	110.369		247.96	
04:25:54	110.465	9233.94		2.72
04:28:47	110.513	9234.34		0.40
04:34:32	110.609		247.92	
04:37:25	110.657	9236.00		1.66
04:43:11	110.753	9236.77		0.76
04:46:04	110.801	9237.21		0.44
04:51:49	110.897	9238.20		0.99
04:54:42	110.945	9238.40		0.20
05:00:28	111.041	9239.28		0.87
05:03:20	111.089		247.90	
05:09:06	111.185	9240.76		1.49
05:11:59	111.233	9241.09		0.32
05:17:44	111.329		247.89	
05:23:30	111.425	9242.75		1.66
05:26:23	111.473	9243.07		0.32
05:32:08	111.569		247.87	
05:35:01	111.617	9244.20		1.13
05:40:47	111.713	9245.11		0.91
05:41:00	Opened PCT			
05:43:40	111.761	7232.24		-2012.88
05:48:00	Opened Well at choke manifold to gauge tank on 16/64" fixed choke			
05:49:25	111.857	6769.84		-462.40
05:52:18	111.905	6372.49		-397.34
05:58:04	112.001	6271.95		-100.54
06:00:00	Flow diverted to burner			
06:00:56	112.049		248.76	
06:05:00	Changed choke to 20/64" adjustable choke			
06:06:00	Increased choke to 24/64" adjustable choke			
06:06:42	112.145	6292.76		20.82
06:10:00	Increased choke to 32/64" adjustable choke			
06:12:28	112.241	6150.35		-142.42
06:16:18	112.305	6038.91		-111.43

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
06:22:04	112.401	6022.57		-16.35
06:24:56	112.449		251.64	
06:30:42	112.545	6036.99		14.42
06:33:35	112.593	6035.60		-1.38
06:39:20	112.689		252.99	
06:42:13	112.737	6031.82		-3.78
06:47:59	112.833	6015.91		-15.92
06:50:52	112.881	6005.96		-9.95
06:56:37	112.977	5996.69		-9.27
06:59:30	113.025	5993.25		-3.44
07:05:00	PCT closed due to washed out manifold valve			
07:05:16	113.121	5977.91		-15.34
07:10:00	PCT opened			
07:11:01	113.217	5954.72		-23.18
07:13:54	113.265	5940.98		-13.74
07:19:40	113.361	5920.40		-20.58
07:22:32	113.409		255.28	
07:28:18	113.505	5882.57		-37.83
07:31:11	113.553	5864.96		-17.61
07:36:56	113.649		255.78	
07:39:49	113.697	5822.64		-42.31
07:45:35	113.793	5793.45		-29.19
07:48:28	113.841	5777.41		-16.04
07:54:13	113.937	5749.54		-27.87
07:57:06	113.985	5734.78		-14.76
08:02:52	114.081	5698.90		-35.88
08:05:00	Increased choke to 48/64" adjustable choke			
08:08:37	114.177	5548.08		-150.81
08:11:30	114.225	5501.54		-46.55
08:17:16	114.321	5448.95		-52.58
08:20:08	114.369		257.07	
08:25:54	114.465	5360.62		-88.33
08:28:47	114.513	5319.88		-40.74
08:34:32	114.609		257.55	
08:38:23	114.673	5152.39		-167.49
08:44:08	114.769		257.84	
08:47:01	114.817	4923.66		-228.73
08:52:47	114.913	4681.56		-242.10
08:55:40	114.961	4516.34		-165.22
09:01:25	115.057	4164.15		-352.20
09:07:11	115.153	4058.13		-106.01
09:10:04	115.201	4034.34		-23.80
09:15:49	115.297	4046.66		12.32
09:18:42	115.345	4062.13		15.47
09:24:28	115.441	4080.69		18.56
09:27:20	115.489		259.04	
09:33:06	115.585	4154.66		73.97
09:35:59	115.633	4203.83		49.17
09:41:44	115.729		259.59	
09:44:37	115.777	4367.09		163.27

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:50:23	115.873	4483.20		116.10
09:56:08	115.969		260.17	
09:59:01	116.017	4495.70		12.50
10:04:47	116.113	4217.52		-278.17
10:07:40	116.161	4024.51		-193.01
10:13:25	116.257	3667.88		-356.64
10:16:18	116.305	3500.88		-166.99
10:22:04	116.401	3258.45		-242.43
10:24:56	116.449		260.49	
10:30:42	116.545	2962.62		-295.83
10:33:35	116.593	2822.32		-140.30
10:39:20	116.689		260.00	
10:42:13	116.737	2590.94		-231.38
10:47:59	116.833	2421.69		-169.25
10:53:44	116.929		259.79	
10:56:37	116.977	2238.21		-183.48
11:03:20	117.089		259.66	
11:06:13	117.137	2160.17		-78.04
11:11:59	117.233	2100.03		-60.14
11:14:52	117.281	2079.71		-20.32
11:20:37	117.377	2051.88		-27.84
11:23:30	117.425	2041.39		-10.49
11:29:16	117.521	2017.25		-24.14
11:32:08	117.569		259.37	
11:37:54	117.665	1935.30		-81.95
11:40:47	117.713	1888.37		-46.93
11:46:32	117.809		258.88	
11:52:18	117.905	1823.83		-64.54
11:55:11	117.953	1813.64		-10.18
12:00:56	118.049		258.35	
12:03:49	118.097	1792.29		-21.35
12:09:35	118.193	1801.89		9.60
12:12:28	118.241	1826.84		24.96
12:18:13	118.337	1888.23		61.38
12:21:06	118.385	1922.90		34.68
12:26:52	118.481	1980.13		57.22
12:29:44	118.529		257.89	
12:35:30	118.625	2041.09		60.96
12:38:23	118.673	2048.00		6.92
12:44:08	118.769		257.83	
12:49:54	118.865	2086.51		38.51
12:50:00	Changed choke to 48/64" fixed choke			
12:52:47	118.913	2067.12		-19.39
12:58:32	119.009		257.57	
13:01:25	119.057	1716.50		-350.61
13:07:11	119.153	1518.63		-197.87
13:10:04	119.201	1434.49		-84.14
13:15:49	119.297	1307.93		-126.55
13:18:42	119.345	1259.85		-48.08
13:25:25	119.457	1172.38		-87.47

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:28:18	119.505	1144.24		-28.14
13:34:04	119.601	1117.41		-26.84
13:39:49	119.697	1109.12		-8.28
13:42:42	119.745	1113.40		4.28
13:48:28	119.841	1126.23		12.83
13:51:20	119.889		253.07	
13:57:06	119.985	1149.70		23.48
13:59:59	120.033	1161.22		11.51
14:05:44	120.129		252.29	
14:08:37	120.177	1215.17		53.96
14:10:00	Flow diverted to burner			
14:14:23	120.273	1243.58		28.41
14:17:16	120.321	1253.13		9.55
14:23:01	120.417	1250.69		-2.44
14:25:54	120.465	1242.31		-8.38
14:31:40	120.561	1218.70		-23.61
14:37:25	120.657	1204.99		-13.71
14:40:18	120.705	1196.40		-8.59
14:46:04	120.801	1159.85		-36.55
14:48:56	120.849		251.15	
14:54:42	120.945	1135.59		-24.25
14:57:35	120.993	1132.56		-3.03
15:03:20	121.089		250.69	
15:06:13	121.137	1115.16		-17.40
15:11:59	121.233	1106.96		-8.20
15:14:52	121.281	1111.15		4.19
15:20:37	121.377	1118.39		7.24
15:23:30	121.425	1120.77		2.38
15:29:16	121.521	1126.29		5.52
15:35:01	121.617	1120.22		-6.07
15:37:54	121.665	1114.02		-6.20
15:44:37	121.777	1077.94		-36.08
15:47:30	121.825	1065.65		-12.29
15:53:16	121.921	1042.42		-23.23
15:56:08	121.969		249.46	
16:00:00	Flow diverted through heater			
16:01:54	122.065	1025.24		-17.19
16:04:47	122.113	1024.42		-0.81
16:10:32	122.209		249.05	
16:13:25	122.257	1056.95		32.53
16:15:00	Decreased choke to 32/64" fixed choke			
16:19:11	122.353	1123.04		66.08
16:22:04	122.401	1150.35		27.31
16:27:49	122.497	1201.92		51.57
16:30:00	Flow diverted through separator			
16:33:35	122.593	1247.01		45.09
16:36:28	122.641	1263.99		16.98
16:42:13	122.737	1306.16		42.17
16:45:06	122.785	1331.06		24.90
16:50:52	122.881	1383.70		52.64

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:53:44	122.929		249.63	
16:59:30	123.025	1428.27		44.57
17:02:23	123.073	1443.70		15.43
17:08:08	123.169		250.01	
17:11:01	123.217	1441.48		-2.22
17:16:47	123.313	1451.78		10.30
17:22:32	123.409		250.28	
17:25:25	123.457	1456.21		4.44
17:31:11	123.553	1462.09		5.88
17:34:04	123.601	1470.43		8.34
17:39:49	123.697	1495.26		24.83
17:42:42	123.745	1494.63		-0.63
17:48:28	123.841	1488.08		-6.55
17:51:20	123.889		250.77	
17:57:06	123.985	1476.16		-11.92
17:59:59	124.033	1466.11		-10.05
18:00:00	By-passed separator			
18:06:42	124.145	1454.98		-11.13
18:09:35	124.193	1450.50		-4.48
18:15:00	Flow diverted through separator			
18:15:20	124.289		250.92	
18:21:06	124.385	1428.71		-21.79
18:23:59	124.433	1422.21		-6.50
18:29:44	124.529		250.92	
18:32:37	124.577	1409.40		-12.81
18:38:23	124.673	1391.39		-18.01
18:41:16	124.721	1390.93		-0.46
18:47:01	124.817	1407.02		16.09
18:49:54	124.865	1404.97		-2.05
18:55:40	124.961	1401.68		-3.29
18:58:32	125.009		250.92	
19:04:18	125.105	1415.50		13.82
19:07:11	125.153	1424.51		9.01
19:12:56	125.249		250.95	
19:18:42	125.345	1408.44		-16.07
19:21:35	125.393	1418.40		9.96
19:27:20	125.489		250.96	
19:30:13	125.537	1426.92		8.52
19:35:59	125.633	1420.22		-6.70
19:38:52	125.681	1423.78		3.56
19:44:37	125.777	1436.10		12.31
19:47:30	125.825	1443.51		7.41
19:53:16	125.921	1466.28		22.77
19:56:08	125.969		251.10	
20:01:54	126.065	1487.17		20.89
20:04:47	126.113	1498.05		10.88
20:10:32	126.209		251.23	
20:16:18	126.305	1506.14		8.08
20:19:11	126.353	1502.66		-3.48
20:25:54	126.465	1484.01		-18.66

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 27/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:28:47	126.513	1489.42		5.41
20:34:32	126.609		251.33	
20:37:25	126.657	1467.54		-21.88
20:43:11	126.753	1455.33		-12.21
20:46:04	126.801	1446.57		-8.76
20:51:49	126.897	1438.17		-8.39
20:54:42	126.945	1435.10		-3.07
21:00:28	127.041	1425.64		-9.46
21:06:13	127.137	1419.12		-6.52
21:09:06	127.185	1421.94		2.82
21:14:52	127.281	1424.67		2.73
21:17:44	127.329		251.21	
21:23:30	127.425	1436.60		11.93
21:26:23	127.473	1447.86		11.26
21:32:08	127.569		251.27	
21:35:01	127.617	1470.28		22.42
21:40:47	127.713	1471.13		0.85
21:43:40	127.761	1482.76		11.64
21:49:25	127.857	1491.25		8.49
21:52:18	127.905	1488.03		-3.22
21:58:04	128.001	1471.33		-16.70
22:03:49	128.097	1454.02		-17.31
22:06:42	128.145	1444.31		-9.72
22:12:28	128.241	1431.95		-12.35
22:15:20	128.289		251.32	
22:21:06	128.385	1419.19		-12.76
22:23:59	128.433	1412.66		-6.53
22:29:44	128.529		251.26	
22:32:37	128.577	1400.67		-12.00
22:38:23	128.673	1403.66		3.00
22:41:16	128.721	1395.74		-7.92
22:47:59	128.833	1403.99		14.24
22:50:52	128.881	1416.54		6.56
22:56:37	128.977	1421.94		5.39
23:02:23	129.073	1429.84		7.90
23:05:16	129.121	1430.39		0.56
23:11:01	129.217	1423.25		-7.14
23:13:54	129.265	1421.90		-1.35
23:19:40	129.361	1418.82		-3.08
23:22:32	129.409		251.26	
23:28:18	129.505	1406.36		-12.46
23:31:11	129.553	1402.96		-3.40
23:36:56	129.649		251.20	
23:39:49	129.697	1394.88		-8.08
23:45:35	129.793	1388.99		-5.90
23:48:28	129.841	1385.46		-3.52
23:54:13	129.937	1392.70		7.24
23:59:59	130.033	1388.20		-4.50
00:02:52	130.081	1388.97		0.77
00:08:37	130.177	1392.93		3.96

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:11:30	130.225	1395.96		3.03
00:17:16	130.321	1387.70		-8.27
00:20:08	130.369		251.08	
00:25:54	130.465	1392.32		4.62
00:28:47	130.513	1392.60		0.28
00:34:32	130.609		251.08	
00:37:25	130.657	1404.94		12.34
00:43:11	130.753	1399.03		-5.91
00:48:56	130.849		251.07	
00:51:49	130.897	1388.72		-10.30
00:57:35	130.993	1392.62		3.90
01:00:28	131.041	1394.26		1.64
01:07:11	131.153	1392.40		-1.85
01:10:04	131.201	1387.31		-5.09
01:15:49	131.297	1379.52		-7.79
01:18:42	131.345	1384.23		4.71
01:24:28	131.441	1392.89		8.66
01:27:20	131.489		251.01	
01:33:06	131.585	1411.91		19.02
01:35:59	131.633	1420.28		8.37
01:41:44	131.729		251.07	
01:47:30	131.825	1455.66		35.39
01:50:23	131.873	1466.19		10.53
01:56:08	131.969		251.20	
01:59:01	132.017	1499.71		33.52
01:59:30	Shut-in well at choke manifold			
02:04:47	132.113	1638.31		138.60
02:07:40	132.161	1714.89		76.58
02:13:25	132.257	1864.02		149.13
02:16:18	132.305	1937.37		73.36
02:22:04	132.401	2078.14		140.76
02:24:56	132.449		252.29	
02:30:42	132.545	2277.85		199.71
02:33:35	132.593	2341.42		63.57
02:39:20	132.689		253.23	
02:40:00	Rigged up Schlumberger wireline			
02:45:06	132.785	2590.63		249.21
02:47:59	132.833	2651.10		60.47
02:53:44	132.929		254.04	
02:56:37	132.977	2829.31		178.22
03:02:23	133.073	2943.68		114.36
03:05:16	133.121	3000.02		56.34
03:11:01	133.217	3109.97		109.95
03:13:54	133.265	3164.94		54.98
03:19:40	133.361	3271.46		106.52
03:22:32	133.409		255.35	
03:29:16	133.521	3444.68		173.22
03:32:08	133.569		255.65	
03:37:54	133.665	3596.33		151.65
03:43:40	133.761	3694.54		98.21

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:46:32	133.809		256.06	
03:52:18	133.905	3840.24		145.70
03:55:11	133.953	3888.25		48.01
04:00:56	134.049		256.38	
04:03:49	134.097	4029.42		141.18
04:09:35	134.193	4121.72		92.30
04:12:28	134.241	4167.44		45.72
04:18:13	134.337	4257.95		90.51
04:21:06	134.385	4302.76		44.81
04:26:52	134.481	4392.37		89.61
04:32:37	134.577	4482.15		89.78
04:35:30	134.625	4526.62		44.47
04:41:16	134.721	4615.75		89.12
04:44:08	134.769		256.82	
04:49:54	134.865	4751.12		135.37
04:52:47	134.913	4796.16		45.04
04:58:32	135.009		256.79	
05:01:25	135.057	4930.14		133.98
05:07:11	135.153	5021.94		91.80
05:10:04	135.201	5067.00		45.06
05:15:49	135.297	5154.46		87.46
05:18:42	135.345	5199.37		44.91
05:24:28	135.441	5289.77		90.40
05:25:00	Commenced run in hole with Schlumberger MUST and TPT gauge			
05:30:13	135.537	5378.61		88.84
05:33:06	135.585	5421.47		42.86
05:38:52	135.681	5506.40		84.93
05:41:44	135.729		256.20	
05:47:30	135.825	5628.91		122.51
05:51:20	135.889		255.97	
05:57:06	135.985	5741.34		112.44
05:59:59	136.033	5770.40		29.06
06:05:44	136.129		255.58	
06:08:37	136.177	5842.69		72.29
06:14:23	136.273	5889.59		46.90
06:17:16	136.321	5910.79		21.20
06:23:01	136.417	5946.66		35.87
06:28:47	136.513	5978.18		31.52
06:31:40	136.561	5993.11		14.93
06:37:25	136.657	6017.85		24.74
06:40:18	136.705	6030.20		12.35
06:46:04	136.801	6053.14		22.94
06:48:56	136.849		254.31	
06:54:42	136.945	6081.51		28.37
06:57:35	136.993	6092.02		10.51
07:03:20	137.089		253.91	
07:06:13	137.137	6113.94		21.91
07:11:59	137.233	6130.52		16.59
07:14:52	137.281	6139.20		8.68

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:20:37	137.377	6153.26		14.06
07:26:23	137.473	6167.69		14.43
07:29:16	137.521	6174.68		6.99
07:35:01	137.617	6187.71		13.03
07:37:54	137.665	6194.72		7.01
07:38:00	Opened Well at choke manifold, slowly increased to 1/2" adjustable choke, flow on by-pass to burner			
07:43:40	137.761	4975.34		-1219.39
07:45:00	Changed choke to 1/2" fixed choke			
07:46:32	137.809		253.05	
07:50:00	Flow diverted to heater			
07:52:18	137.905	4196.28		-779.06
07:55:11	137.953	3919.05		-277.23
08:00:56	138.049		254.20	
08:03:00	Shut-in Well at choke manifold, small fire at heater			
08:03:49	138.097	3422.65		-496.40
08:05:00	Fire extinguished			
08:09:35	138.193	3553.45		130.80
08:16:18	138.305	3707.18		153.73
08:19:11	138.353	3769.72		62.55
08:24:56	138.449		255.36	
08:27:49	138.497	3953.29		183.57
08:33:35	138.593	4071.29		118.00
08:36:28	138.641	4129.92		58.63
08:42:13	138.737	4245.82		115.90
08:45:06	138.785	4302.36		56.54
08:50:52	138.881	4413.81		111.44
08:53:44	138.929		257.39	
08:59:30	139.025	4577.34		163.54
09:02:23	139.073	4630.68		53.33
09:08:08	139.169		257.91	
09:13:54	139.265	4840.04		209.36
09:16:47	139.313	4891.42		51.38
09:22:32	139.409		258.19	
09:25:25	139.457	5043.14		151.72
09:31:11	139.553	5143.79		100.66
09:34:04	139.601	5193.77		49.97
09:39:49	139.697	5294.69		100.92
09:42:42	139.745	5345.33		50.63
09:48:28	139.841	5446.13		100.80
09:51:20	139.889		258.15	
09:57:06	139.985	5601.00		154.87
09:59:59	140.033	5653.28		52.28
10:05:44	140.129		257.91	
10:11:30	140.225	5853.16		199.89
10:14:23	140.273	5898.67		45.51
10:20:08	140.369		257.52	
10:23:01	140.417	6019.46		120.79
10:28:47	140.513	6087.52		68.05
10:32:37	140.577	6140.24		52.73

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
10:38:23	140.673	6211.91		71.67
10:41:16	140.721	6242.04		30.13
10:47:01	140.817	6293.58		51.54
10:49:54	140.865	6314.77		21.19
10:55:40	140.961	6350.26		35.49
10:58:32	141.009		256.16	
11:04:18	141.105	6333.14		-17.12
11:10:04	141.201	6355.20		22.06
11:12:56	141.249		255.63	
11:18:42	141.345	6382.89		27.69
11:21:35	141.393	6391.48		8.59
11:27:20	141.489		255.16	
11:30:13	141.537	6422.28		30.80
11:35:30	Opened Well at choke manifold on 3/16" adjustable choke			
	Flow on by-pass to flare			
11:35:59	141.633	6390.33		-31.94
11:38:00	Increased choke to 1/4" adjustable choke			
11:38:52	141.681	6126.96		-263.38
11:41:00	Changed choke to 1/2" fixed choke			
11:44:37	141.777	4903.62		-1223.33
11:47:30	141.825	4513.18		-390.45
11:53:16	141.921	3950.15		-563.02
11:59:01	142.017	3520.41		-429.74
12:01:54	142.065	3374.59		-145.81
12:07:40	142.161	3134.96		-239.64
12:10:32	142.209		255.63	
12:16:18	142.305	2777.66		-357.30
12:19:11	142.353	2680.64		-97.02
12:24:56	142.449		256.20	
12:27:49	142.497	2409.81		-270.83
12:33:35	142.593	2290.97		-118.85
12:36:28	142.641	2230.12		-60.85
12:42:13	142.737	2101.85		-128.26
12:45:06	142.785	2063.23		-38.62
12:50:52	142.881	1952.23		-111.00
12:57:35	142.993	1834.34		-117.89
13:00:28	143.041	1785.31		-49.03
13:06:13	143.137	1709.45		-75.86
13:09:06	143.185	1673.36		-36.10
13:14:52	143.281	1616.48		-56.88
13:17:44	143.329		256.12	
13:23:30	143.425	1555.62		-60.85
13:26:23	143.473	1541.17		-14.45
13:30:00	Flow diverted through separator			
13:32:08	143.569		255.68	
13:35:01	143.617	1497.64		-43.54
13:40:47	143.713	1486.62		-11.01
13:43:40	143.761	1497.28		0.65
13:49:25	143.857	1489.24		1.96
13:55:11	143.953	1500.08		10.85

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:58:04	144.001	1508.68		8.59
14:03:49	144.097	1524.27		15.60
14:06:42	144.145	1530.84		6.56
14:12:28	144.241	1546.87		16.03
14:15:20	144.289		254.79	
14:21:06	144.385	1565.98		19.11
14:23:59	144.433	1570.05		4.07
14:29:44	144.529		254.66	
14:32:37	144.577	1576.60		6.55
14:38:23	144.673	1575.24		-1.36
14:41:16	144.721	1576.99		1.75
14:47:01	144.817	1571.95		-5.03
14:52:47	144.913	1569.14		-2.81
14:55:40	144.961	1565.75		-3.39
15:01:25	145.057	1560.21		-5.54
15:04:18	145.105	1556.30		-3.91
15:10:04	145.201	1550.56		-5.74
15:12:56	145.249		254.19	
15:19:40	145.361	1532.79		-17.77
15:22:32	145.409		254.08	
15:28:18	145.505	1525.55		-7.24
15:31:11	145.553	1520.99		-4.55
15:36:56	145.649		253.91	
15:42:42	145.745	1508.57		-12.43
15:45:35	145.793	1506.48		-2.09
15:51:20	145.889		253.76	
15:54:13	145.937	1496.85		-9.63
15:59:59	146.033	1492.97		-3.88
16:02:52	146.081	1492.18		-0.79
16:08:37	146.177	1485.56		-6.62
16:11:30	146.225	1486.68		1.12
16:17:16	146.321	1481.00		-5.68
16:20:08	146.369		253.51	
16:25:54	146.465	1475.89		-5.12
16:28:47	146.513	1472.63		-3.26
16:34:32	146.609		253.38	
16:40:18	146.705	1465.43		-7.21
16:43:11	146.753	1463.15		-2.27
16:48:56	146.849		253.27	
16:51:49	146.897	1460.65		-2.50
16:57:35	146.993	1457.18		-3.48
17:00:28	147.041	1457.36		0.18
17:06:13	147.137	1450.20		-7.16
17:09:06	147.185	1450.66		0.46
17:14:52	147.281	1447.32		-3.34
17:17:44	147.329		253.06	
17:23:30	147.425	1446.94		-0.38
17:26:23	147.473	1445.80		-1.14
17:32:08	147.569		252.98	
17:38:52	147.681	1439.82		-5.98

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
17:41:44	147.729		252.92	
17:47:30	147.825	1435.34		-4.49
17:50:23	147.873	1433.10		-2.24
17:56:08	147.969		252.83	
17:59:01	148.017	1430.07		-3.03
18:04:47	148.113	1431.20		1.13
18:07:40	148.161	1428.86		-2.33
18:13:25	148.257	1430.28		1.42
18:16:18	148.305	1429.49		-0.80
18:22:04	148.401	1427.92		-1.57
18:24:56	148.449		252.70	
18:30:42	148.545	1431.09		3.17
18:36:28	148.641	1428.17		-2.92
18:39:20	148.689		252.66	
18:45:06	148.785	1423.80		-4.37
18:47:59	148.833	1421.74		-2.05
18:53:44	148.929		252.60	
18:56:37	148.977	1419.97		-1.77
19:02:23	149.073	1417.46		-2.52
19:05:16	149.121	1418.33		0.87
19:11:01	149.217	1415.00		-3.33
19:13:54	149.265	1413.76		-1.24
19:19:40	149.361	1419.65		5.89
19:25:25	149.457	1421.73		2.08
19:28:18	149.505	1423.56		1.82
19:34:04	149.601	1422.85		-0.70
19:36:56	149.649		252.48	
19:42:42	149.745	1427.35		4.50
19:45:35	149.793	1424.90		-2.45
19:51:20	149.889		252.45	
19:54:13	149.937	1433.38		8.48
20:00:56	150.049		252.44	
20:03:49	150.097	1427.16		-6.21
20:09:35	150.193	1428.59		1.42
20:12:28	150.241	1427.19		-1.40
20:18:13	150.337	1413.11		-14.08
20:23:59	150.433	1413.08		-0.03
20:26:52	150.481	1417.56		4.49
20:32:37	150.577	1422.23		4.67
20:35:30	150.625	1423.26		1.02
20:41:16	150.721	1429.05		5.79
20:44:08	150.769		252.37	
20:49:54	150.865	1436.26		7.21
20:52:47	150.913	1442.52		6.26
20:58:32	151.009		252.41	
21:01:25	151.057	1461.26		18.74
21:07:11	151.153	1476.16		14.90
21:10:04	151.201	1483.29		7.13
21:15:49	151.297	1496.59		13.30
21:21:35	151.393	1510.22		13.63

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 28/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
21:24:28	151.441	1515.10		4.88
21:30:13	151.537	1527.46		12.36
21:33:06	151.585	1530.73		3.27
21:38:52	151.681	1539.35		8.61
21:41:44	151.729		252.68	
21:47:30	151.825	1546.96		7.62
21:50:23	151.873	1553.71		6.75
21:56:08	151.969		252.75	
21:59:01	152.017	1556.67		2.95
22:04:47	152.113	1550.80		-5.87
22:07:40	152.161	1541.17		-9.63
22:13:25	152.257	1517.02		-24.15
22:20:08	152.369		252.75	
22:23:01	152.417	1479.18		-37.84
22:28:47	152.513	1470.40		-8.78
22:31:40	152.561	1467.71		-2.69
22:37:25	152.657	1462.86		-4.84
22:40:18	152.705	1461.80		-1.06
22:46:04	152.801	1463.98		2.18
22:48:56	152.849		252.63	
22:54:42	152.945	1471.21		7.23
22:57:35	152.993	1472.69		1.47
23:03:20	153.089		252.64	
23:09:06	153.185	1481.03		8.35
23:11:59	153.233	1485.40		4.36
23:17:44	153.329		252.68	
23:20:37	153.377	1488.01		2.62
23:26:23	153.473	1493.61		5.59
23:29:16	153.521	1497.32		3.71
23:35:01	153.617	1500.22		2.91
23:37:54	153.665	1501.55		1.32
23:43:40	153.761	1502.38		0.83
23:46:32	153.809		252.73	
23:52:18	153.905	1506.81		4.43
23:55:11	153.953	1504.19		-2.61
00:00:56	154.049		252.75	
00:06:42	154.145	1504.54		0.34
00:09:35	154.193	1502.48		-2.06
00:15:20	154.289		252.75	
00:18:13	154.337	1501.80		-0.68
00:23:59	154.433	1498.59		-3.21
00:26:52	154.481	1496.68		-1.91
00:32:37	154.577	1490.53		-6.15
00:35:30	154.625	1494.50		3.97
00:42:13	154.737	1492.27		-2.23
00:45:06	154.785	1489.96		-2.31
00:50:52	154.881	1476.26		-13.71
00:53:44	154.929		252.75	
00:55:00	Shut-in Well at choke manifold			90.40
00:59:30	155.025	1566.65		

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
01:05:16	155.121	1705.56		139.91
01:08:08	155.169		252.88	
01:13:54	155.265	1904.56		199.00
01:16:47	155.313	1967.63		63.07
01:22:32	155.409		253.44	
01:25:25	155.457	2152.86		185.23
01:31:11	155.553	2271.08		118.22
01:34:04	155.601	2328.94		57.86
01:39:49	155.697	2441.46		112.52
01:42:42	155.745	2496.61		55.15
01:48:28	155.841	2602.98		106.37
01:51:20	155.889		254.89	
01:57:06	155.985	2757.34		154.36
02:02:52	156.081	2855.93		98.59
02:05:44	156.129		255.41	
02:11:30	156.225	2999.20		143.27
02:14:23	156.273	3045.77		46.57
02:20:08	156.369		255.82	
02:23:01	156.417	3182.77		137.00
02:28:47	156.513	3271.06		88.28
02:31:40	156.561	3314.51		43.45
02:37:25	156.657	3400.07		85.56
02:40:18	156.705	3442.08		42.02
02:46:04	156.801	3524.20		82.12
02:51:49	156.897	3603.99		79.79
02:54:42	156.945	3643.50		39.51
03:01:25	157.057	3733.15		89.65
03:04:18	157.105	3770.68		37.53
03:10:04	157.201	3844.32		73.64
03:12:56	157.249		256.69	
03:18:42	157.345	3951.52		107.20
03:21:35	157.393	3986.29		34.77
03:27:20	157.489		256.81	
03:30:13	157.537	4087.33		101.04
03:35:59	157.633	4152.91		65.58
03:38:52	157.681	4185.53		32.62
03:44:37	157.777	4249.55		64.02
03:45:00	Schlumberger TPT gauge fails			
03:50:23	157.873	4310.40		60.84
03:53:16	157.921	4341.01		30.61
03:59:01	158.017	4401.04		60.03
04:01:54	158.065	4429.85		28.82
04:07:40	158.161	4488.25		58.39
04:10:32	158.209		256.76	
04:16:18	158.305	4573.76		85.51
04:19:11	158.353	4601.52		27.76
04:24:56	158.449		256.66	
04:27:49	158.497	4683.40		81.88
04:33:35	158.593	4734.40		51.00
04:36:28	158.641	4760.03		25.63

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
04:42:13	158.737	4811.19		51.16
04:47:00	Commenced pull out of hole with wireline, MUST and IPT gauge remain latched downhole			
04:47:59	158.833	4841.60		30.40
04:50:52	158.881	4866.24		24.65
04:56:37	158.977	4911.33		45.08
04:59:30	159.025	4933.77		22.44
05:05:16	159.121	4976.83		43.06
05:08:08	159.169		256.07	
05:13:54	159.265	5037.68		60.85
05:16:47	159.313	5056.46		18.78
05:23:30	159.425	5098.26		41.80
05:26:23	159.473	5114.53		16.27
05:32:08	159.569		255.63	
05:35:01	159.617	5157.77		43.24
05:40:47	159.713	5185.80		28.03
05:46:32	159.809		255.30	
05:49:25	159.857	5229.15		43.35
05:55:11	159.953	5254.69		25.54
05:58:04	160.001	5266.94		12.24
06:03:49	160.097	5289.34		22.41
06:06:42	160.145	5300.59		11.25
06:12:28	160.241	5321.71		21.12
06:15:20	160.289		254.78	
06:21:06	160.385	5352.39		30.68
06:23:59	160.433	5361.69		9.29
06:29:44	160.529		254.51	
06:35:30	160.625	5391.22		29.53
06:38:23	160.673	5397.68		6.45
06:44:08	160.769		254.21	
06:47:01	160.817	5415.06		17.38
06:52:47	160.913	5425.91		10.85
06:55:40	160.961	5431.18		5.27
07:01:25	161.057	5440.87		9.69
07:04:18	161.105	5445.43		4.56
07:10:04	161.201	5454.59		9.16
07:12:56	161.249		253.72	
07:18:42	161.345	5467.58		12.99
07:21:35	161.393	5473.12		5.54
07:27:20	161.489		253.49	
07:33:06	161.585	5489.97		16.85
07:35:00	Schlumberger at surface			
07:35:59	161.633	5494.48		4.51
07:37:00	Closed lubricator valve			
07:39:00	Closed swab valve			
07:41:44	161.729		253.29	
07:45:35	161.793	5512.10		17.62
07:51:20	161.889		253.15	
07:54:13	161.937	5526.40		14.30
07:59:59	162.033	5531.17		4.76

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
08:00:00	Unable to open lubricator valve			
08:02:52	162.081	5535.78		4.61
08:07:00	Closed master valve			
08:08:37	162.177	5555.79		20.01
08:09:00	Bled off pressure above master valve through choke manifold			
08:11:30	162.225	5565.22		9.44
08:15:00	Rigged down Schlumberger lubricator			
08:17:16	162.321	5584.87		19.64
08:20:08	162.369		253.04	
08:25:54	162.465	5610.44		25.57
08:31:40	162.561	5627.01		16.57
08:34:32	162.609		252.95	
08:40:18	162.705	5650.17		23.16
08:41:00	Rectified problem with swab valve Closed swab and opened master valve			
08:43:11	162.753	5595.86		-54.31
08:48:56	162.849		252.87	
08:51:49	162.897	5634.39		38.53
08:57:35	162.993	5656.43		22.03
09:00:28	163.041	5666.86		10.44
09:06:13	163.137	5686.97		20.11
09:09:06	163.185	5695.88		8.90
09:14:52	163.281	5713.65		17.77
09:17:44	163.329		252.76	
09:23:30	163.425	5740.20		26.54
09:29:16	163.521	5757.53		17.33
09:32:08	163.569		252.69	
09:37:54	163.665	5782.95		25.43
09:40:47	163.713	5791.16		8.20
09:46:32	163.809		252.62	
09:49:25	163.857	5815.96		24.80
09:55:11	163.953	5831.92		15.96
09:58:04	164.001	5839.77		7.85
10:03:49	164.097	5855.82		16.05
10:07:40	164.161	5866.84		11.02
10:13:25	164.257	5881.89		15.05
10:19:11	164.353	5896.69		14.80
10:22:04	164.401	5903.92		7.23
10:27:49	164.497	5918.37		14.45
10:30:42	164.545	5925.49		7.12
10:36:28	164.641	5939.86		14.37
10:39:20	164.689		252.35	
10:45:06	164.785	5960.97		21.11
10:47:59	164.833	5967.99		7.02
10:53:44	164.929		252.28	
10:56:37	164.977	5988.88		20.89
11:02:23	165.073	6002.61		13.73
11:05:16	165.121	6009.46		6.85
11:11:01	165.217	6022.98		13.52

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
11:16:47	165.313	6036.44		13.47
11:19:40	165.361	6043.14		6.70
11:25:25	165.457	6056.62		13.48
11:28:18	165.505	6063.21		6.59
11:34:04	165.601	6076.02		12.81
11:36:56	165.649		252.07	
11:42:42	165.745	6096.31		20.29
11:45:35	165.793	6102.89		6.57
11:51:20	165.889		252.02	
11:54:13	165.937	6121.59		18.70
11:59:59	166.033	6134.91		13.33
12:02:52	166.081	6140.47		5.56
12:08:37	166.177	6152.55		12.08
12:14:23	166.273	6164.87		12.32
12:17:16	166.321	6171.74		6.87
12:23:01	166.417	6183.48		11.74
12:26:52	166.481	6190.96		7.48
12:32:37	166.577	6202.07		11.11
12:35:30	166.625	6207.68		5.61
12:41:16	166.721	6218.81		11.13
12:44:08	166.769		251.81	
12:49:54	166.865	6235.16		16.35
12:52:47	166.913	6241.29		6.13
12:58:32	167.009		251.78	
13:01:25	167.057	6258.00		16.71
13:07:11	167.153	6268.76		10.77
13:12:56	167.249		251.71	
13:15:49	167.297	6284.90		16.14
13:21:35	167.393	6295.62		10.72
13:24:28	167.441	6300.92		5.30
13:30:13	167.537	6311.57		10.65
13:33:06	167.585	6316.89		5.32
13:38:52	167.681	6327.35		10.46
13:41:44	167.729		251.62	
13:47:30	167.825	6342.80		15.45
13:50:23	167.873	6347.99		5.19
13:56:08	167.969		251.56	
14:01:54	168.065	6368.09		20.10
14:04:47	168.113	6373.21		5.12
14:10:32	168.209		251.52	
14:13:25	168.257	6388.43		15.22
14:19:11	168.353	6398.54		10.11
14:22:04	168.401	6403.51		4.96
14:27:49	168.497	6413.27		9.76
14:30:42	168.545	6418.19		4.92
14:36:28	168.641	6427.88		9.69
14:39:20	168.689		251.42	
14:45:06	168.785	6442.29		14.41
14:48:56	168.849		251.39	
14:54:42	168.945	6458.06		15.77

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
15:00:28	169.041	6467.43		9.37
15:03:20	169.089		251.35	
15:09:06	169.185	6481.33		13.90
15:11:59	169.233	6485.95		4.62
15:17:44	169.329		251.30	
15:20:37	169.377	6499.35		13.40
15:26:23	169.473	6508.26		8.90
15:29:16	169.521	6512.65		4.39
15:35:01	169.617	6521.44		8.80
15:37:54	169.665	6525.90		4.45
15:43:40	169.761	6534.64		8.74
15:46:32	169.809		251.23	
15:52:18	169.905	6548.02		13.38
15:58:04	170.001	6556.53		8.51
16:00:56	170.049		251.18	
16:06:42	170.145	6569.28		12.75
16:09:35	170.193	6573.40		4.12
16:15:20	170.289		251.15	
16:18:13	170.337	6585.95		12.55
16:23:59	170.433	6594.21		8.26
16:26:52	170.481	6598.34		4.13
16:32:37	170.577	6606.53		8.19
16:35:30	170.625	6610.53		4.00
16:41:16	170.721	6618.65		8.12
16:44:08	170.769		251.08	
16:49:54	170.865	6631.35		12.71
16:55:40	170.961	6639.15		7.79
16:58:32	171.009		251.05	
17:04:18	171.105	6650.70		11.56
17:07:11	171.153	6654.64		3.94
17:13:54	171.265	6663.47		8.82
17:16:47	171.313	6667.26		3.79
17:22:32	171.409		250.98	
17:25:25	171.457	6678.43		11.17
17:31:11	171.553	6685.90		7.47
17:34:04	171.601	6689.65		3.75
17:39:49	171.697	6696.90		7.25
17:45:35	171.793	6704.20		7.31
17:48:28	171.841	6707.82		3.61
17:54:13	171.937	6715.08		7.27
17:57:06	171.985	6718.68		3.60
18:02:52	172.081	6725.70		7.02
18:05:44	172.129		250.88	
18:11:30	172.225	6736.24		10.54
18:14:23	172.273	6739.78		3.54
18:20:08	172.369		250.84	
18:23:01	172.417	6750.10		10.33
18:28:47	172.513	6756.99		6.89
18:31:40	172.561	6760.39		3.40
18:37:25	172.657	6767.12		6.73

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
18:43:11	172.753	6773.97		6.85
18:46:04	172.801	6777.32		3.35
18:51:49	172.897	6783.93		6.61
18:54:42	172.945	6787.23		3.31
19:00:28	173.041	6793.87		6.63
19:03:20	173.089		250.75	
19:09:06	173.185	6803.71		9.84
19:11:59	173.233	6806.99		3.29
19:17:44	173.329		250.71	
19:20:37	173.377	6816.68		9.69
19:26:23	173.473	6823.14		6.45
19:29:16	173.521	6826.94		3.80
19:35:59	173.633	6834.26		7.32
19:41:44	173.729		251.09	
19:44:37	173.777	6843.77		9.52
19:50:23	173.873	6849.90		6.12
19:53:16	173.921	6852.97		3.07
19:59:01	174.017	6859.01		6.05
20:01:54	174.065	6862.00		2.98
20:07:40	174.161	6867.97		5.98
20:10:32	174.209		251.02	
20:16:18	174.305	6876.77		8.80
20:19:11	174.353	6879.61		2.85
20:24:56	174.449		250.99	
20:27:49	174.497	6888.40		8.79
20:33:35	174.593	6894.20		5.79
20:39:20	174.689		250.96	
20:42:13	174.737	6902.68		8.48
20:47:59	174.833	6908.26		5.59
20:50:52	174.881	6911.18		2.91
20:56:37	174.977	6916.64		5.46
20:59:30	175.025	6919.43		2.80
21:05:16	175.121	6924.76		5.33
21:08:08	175.169		250.90	
21:13:54	175.265	6932.91		8.15
21:16:47	175.313	6935.58		2.66
21:22:32	175.409		250.88	
21:28:18	175.505	6946.42		10.84
21:31:11	175.553	6949.05		2.63
21:36:56	175.649		250.85	
21:39:49	175.697	6956.92		7.87
21:45:35	175.793	6962.12		5.21
21:48:28	175.841	6964.79		2.67
21:55:11	175.953	6970.60		5.81
21:58:04	176.001	6973.19		2.59
22:03:49	176.097	6978.27		5.08
22:06:42	176.145	6980.86		2.59
22:12:28	176.241	6985.89		5.02
22:15:20	176.289		250.78	
22:21:06	176.385	6993.30		7.41

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 29/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
22:26:52	176.481	6998.19		4.89
22:29:44	176.529		250.76	
22:35:30	176.625	7005.61		7.42
22:38:23	176.673	7007.83		2.22
22:44:08	176.769		250.73	
22:47:01	176.817	7015.07		7.25
22:52:47	176.913	7019.84		4.76
22:55:40	176.961	7022.23		2.39
23:01:25	177.057	7026.82		4.59
23:04:18	177.105	7029.27		2.45
23:10:04	177.201	7034.00		4.73
23:12:56	177.249		250.69	
23:18:42	177.345	7040.90		6.90
23:24:28	177.441	7045.53		4.63
23:27:20	177.489		250.66	
23:33:06	177.585	7052.32		6.79
23:35:59	177.633	7054.69		2.37
23:41:44	177.729		250.65	
23:44:37	177.777	7061.43		6.74
23:50:23	177.873	7065.68		4.24
23:53:16	177.921	7067.92		2.25
23:59:01	178.017	7072.11		4.18
00:01:54	178.065	7074.43		2.32
00:07:40	178.161	7078.64		4.21
00:10:32	178.209		250.60	
00:17:16	178.321	7085.75		7.11
00:23:01	178.417	7090.20		4.45
00:25:54	178.465	7092.22		2.02
00:31:40	178.561	7096.37		4.15
00:34:32	178.609		250.57	
00:40:18	178.705	7102.57		6.20
00:43:11	178.753	7104.60		2.04
00:48:56	178.849		250.54	
00:51:49	178.897	7110.89		6.29
00:57:35	178.993	7115.00		4.11
01:00:28	179.041	7116.95		1.95
01:06:13	179.137	7120.99		4.04
01:11:59	179.233	7125.05		4.06
01:14:52	179.281	7127.00		1.95
01:20:37	179.377	7131.01		4.00
01:23:30	179.425	7132.93		1.93
01:29:16	179.521	7136.81		3.88
01:32:08	179.569		250.50	
01:37:54	179.665	7142.57		5.76
01:40:47	179.713	7144.69		2.12
01:46:32	179.809		250.47	
01:49:25	179.857	7150.30		5.62
01:55:11	179.953	7154.16		3.85
01:58:04	180.001	7156.18		2.03
02:03:49	180.097	7159.80		3.61

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Gauge No: 73033
Well No.: Anemone # 1A
Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
02:09:35	180.193	7163.69		3.89
02:12:28	180.241	7165.49		1.80
02:18:13	180.337	7169.23		3.74
02:21:06	180.385	7170.96		1.72
02:26:52	180.481	7174.69		3.73
02:29:44	180.529		250.41	
02:36:28	180.641	7180.89		6.20
02:39:20	180.689		250.40	
02:45:06	180.785	7186.28		5.39
02:47:59	180.833	7188.14		1.85
02:53:44	180.929		250.39	
02:56:37	180.977	7193.53		5.40
03:02:23	181.073	7197.08		3.54
03:08:08	181.169		250.37	
03:11:01	181.217	7202.32		5.25
03:16:47	181.313	7205.77		3.44
03:19:40	181.361	7207.45		1.69
03:25:25	181.457	7210.86		3.41
03:28:18	181.505	7212.70		1.84
03:34:04	181.601	7216.17		3.47
03:36:56	181.649		250.33	
03:42:42	181.745	7221.21		5.04
03:45:35	181.793	7222.80		1.59
03:51:20	181.889		250.32	
03:54:13	181.937	7227.82		5.02
03:59:59	182.033	7231.14		3.32
04:05:44	182.129		250.31	
04:08:37	182.177	7236.07		4.92
04:14:23	182.273	7239.42		3.36
04:17:16	182.321	7240.98		1.55
04:23:01	182.417	7244.16		3.18
04:25:54	182.465	7245.96		1.80
04:31:40	182.561	7249.11		3.15
04:34:32	182.609		250.27	
04:40:18	182.705	7253.83		4.72
04:43:11	182.753	7255.35		1.52
04:48:56	182.849		250.26	
04:55:40	182.961	7262.22		6.87
04:58:32	183.009		250.24	
05:04:18	183.105	7266.83		4.61
05:07:11	183.153	7268.47		1.63
05:12:56	183.249		250.22	
05:15:49	183.297	7272.96		4.50
05:21:35	183.393	7276.08		3.11
05:24:28	183.441	7277.67		1.59
05:30:13	183.537	7280.69		3.02
05:33:06	183.585	7282.23		1.54
05:38:52	183.681	7285.24		3.01
05:41:44	183.729		250.21	
05:47:30	183.825	7289.55		4.31

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
05:53:16	183.921	7292.51		2.96
05:56:08	183.969		250.20	
06:01:54	184.065	7296.85		4.34
06:04:47	184.113	7298.41		1.56
06:10:32	184.209		250.18	
06:13:25	184.257	7302.74		4.33
06:19:11	184.353	7305.58		2.85
06:22:04	184.401	7306.90		1.31
06:27:49	184.497	7309.82		2.92
06:30:42	184.545	7311.15		1.33
06:36:28	184.641	7314.06		2.91
06:39:20	184.689		250.15	
06:45:06	184.785	7318.07		4.01
06:50:52	184.881	7320.81		2.73
06:53:44	184.929		250.13	
06:59:30	185.025	7325.05		4.24
07:02:23	185.073	7327.75		2.70
07:08:08	185.169		250.15	
07:11:01	185.217	7331.50		3.75
07:17:44	185.329		250.14	
07:20:37	185.377	7335.89		4.39
07:26:23	185.473	7338.39		2.49
07:29:16	185.521	7339.59		1.20
07:35:01	185.617	7342.17		2.58
07:37:54	185.665	7343.43		1.25
07:43:40	185.761	7346.04		2.61
07:49:25	185.857	7348.70		2.66
07:52:18	185.905	7349.99		1.29
07:58:04	186.001	7352.60		2.61
08:00:56	186.049		250.09	
08:06:42	186.145	7356.37		3.76
08:09:35	186.193	7357.66		1.29
08:15:20	186.289		250.08	
08:18:13	186.337	7361.37		3.71
08:23:59	186.433	7363.92		2.55
08:26:52	186.481	7365.14		1.22
08:32:37	186.577	7367.60		2.46
08:38:23	186.673	7370.15		2.55
08:41:16	186.721	7371.31		1.17
08:47:01	186.817	7373.90		2.59
08:49:54	186.865	7375.14		1.24
08:55:40	186.961	7377.46		2.32
08:58:32	187.009		250.05	
09:04:18	187.105	7381.25		3.79
09:07:11	187.153	7382.39		1.14
09:12:56	187.249		250.03	
09:15:49	187.297	7386.01		3.62
09:21:35	187.393	7388.52		2.51
09:24:28	187.441	7389.66		1.14
09:30:13	187.537	7392.01		2.35

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:35:59	187.633	7394.45		2.44
09:39:49	187.697	7396.20		1.75
09:45:35	187.793	7398.58		2.38
09:48:28	187.841	7399.73		1.14
09:54:13	187.937	7402.07		2.35
09:57:06	187.985	7403.29		1.22
10:02:52	188.081	7405.62		2.32
10:05:44	188.129		250.00	
10:11:30	188.225	7409.07		3.45
10:14:23	188.273	7410.29		1.22
10:20:08	188.369		249.99	
10:23:01	188.417	7413.64		3.35
10:28:47	188.513	7415.72		2.08
10:34:32	188.609		249.97	
10:37:25	188.657	7419.30		3.58
10:43:11	188.753	7421.50		2.20
10:46:04	188.801	7422.68		1.18
10:51:49	188.897	7424.85		2.17
10:54:42	188.945	7426.02		1.17
11:00:28	189.041	7428.23		2.21
11:03:20	189.089		249.95	
11:09:06	189.185	7431.46		3.23
11:11:59	189.233	7432.56		1.11
11:17:44	189.329		249.94	
11:20:37	189.377	7435.80		3.24
11:26:23	189.473	7437.94		2.14
11:32:08	189.569		249.93	
11:35:01	189.617	7441.16		3.23
11:40:47	189.713	7443.26		2.10
11:43:40	189.761	7444.21		0.95
11:49:25	189.857	7446.43		2.21
11:52:18	189.905	7447.33		0.90
11:58:04	190.001	7449.39		2.06
12:01:54	190.065	7450.67		1.28
12:07:40	190.161	7452.83		2.16
12:10:32	190.209		249.90	
12:16:18	190.305	7455.82		2.99
12:22:04	190.401	7457.75		1.93
12:24:56	190.449		249.88	
12:30:42	190.545	7460.79		3.04
12:33:35	190.593	7461.86		1.07
12:39:20	190.689		249.87	
12:42:13	190.737	7464.90		3.04
12:47:59	190.833	7466.86		1.96
12:50:52	190.881	7467.83		0.98
12:56:37	190.977	7469.74		1.91
12:59:30	191.025	7470.68		0.94
13:05:16	191.121	7472.60		1.92
13:08:08	191.169		249.86	
13:13:54	191.265	7475.45		2.85

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Gauge No: 73033
Well No.: Anemone # 1A
Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:19:40	191.361	7477.31		1.86
13:22:32	191.409		249.84	
13:28:18	191.505	7480.17		2.86
13:31:11	191.553	7481.09		0.92
13:36:56	191.649		249.83	
13:39:49	191.697	7483.86		2.77
13:45:35	191.793	7485.73		1.87
13:48:28	191.841	7486.61		0.88
13:54:13	191.937	7488.39		1.78
13:57:06	191.985	7489.38		0.99
14:02:52	192.081	7491.06		1.68
14:05:44	192.129		249.82	
14:11:30	192.225	7493.76		2.70
14:17:16	192.321	7495.60		1.83
14:21:06	192.385	7496.74		1.15
14:26:52	192.481	7498.46		1.72
14:29:44	192.529		249.80	
14:35:30	192.625	7500.97		2.51
14:38:23	192.673	7501.92		0.96
14:44:08	192.769		249.80	
14:47:01	192.817	7504.48		2.56
14:52:47	192.913	7506.19		1.71
14:55:40	192.961	7507.03		0.84
15:01:25	193.057	7508.70		1.67
15:04:18	193.105	7509.59		0.89
15:10:04	193.201	7511.23		1.64
15:15:49	193.297	7512.94		1.71
15:18:42	193.345	7513.70		0.76
15:24:28	193.441	7515.42		1.72
15:27:20	193.489		249.77	
15:33:06	193.585	7517.85		2.43
15:35:59	193.633	7518.73		0.88
15:41:44	193.729		249.76	
15:44:37	193.777	7521.29		2.56
15:50:23	193.873	7523.01		1.72
15:53:16	193.921	7523.84		0.83
15:59:01	194.017	7525.58		1.73
16:04:47	194.113	7527.21		1.63
16:07:40	194.161	7528.01		0.80
16:13:25	194.257	7529.65		1.64
16:16:18	194.305	7530.49		0.84
16:22:04	194.401	7532.10		1.61
16:24:56	194.449		249.75	
16:30:42	194.545	7534.56		2.46
16:33:35	194.593	7535.36		0.80
16:39:20	194.689		249.73	
16:43:11	194.753	7538.19		2.83
16:48:56	194.849		249.73	
16:51:49	194.897	7540.60		2.41
16:57:35	194.993	7542.12		1.52

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
17:03:20	195.089		249.73	
17:06:13	195.137	7544.42		2.31
17:11:59	195.233	7545.98		1.55
17:14:52	195.281	7546.67		0.69
17:20:37	195.377	7548.31		1.65
17:23:30	195.425	7549.08		0.77
17:29:16	195.521	7550.59		1.52
17:32:08	195.569		249.70	
17:37:54	195.665	7552.85		2.26
17:40:47	195.713	7553.66		0.80
17:46:32	195.809		249.70	
17:49:25	195.857	7555.91		2.26
17:55:11	195.953	7557.20		1.29
18:00:56	196.049		249.69	
18:03:49	196.097	7559.34		2.14
18:09:35	196.193	7560.76		1.42
18:12:28	196.241	7561.37		0.61
18:18:13	196.337	7562.83		1.45
18:21:06	196.385	7563.46		0.64
18:26:52	196.481	7565.03		1.57
18:29:44	196.529		249.68	
18:35:30	196.625	7567.14		2.11
18:38:23	196.673	7567.86		0.73
18:44:08	196.769		249.67	
18:47:01	196.817	7569.99		2.13
18:52:47	196.913	7571.45		1.45
18:58:32	197.009		249.67	
19:01:25	197.057	7573.56		2.11
19:08:08	197.169		249.67	
19:11:01	197.217	7575.81		2.26
19:16:47	197.313	7577.22		1.40
19:19:40	197.361	7577.87		0.65
19:25:25	197.457	7579.28		1.42
19:28:18	197.505	7579.92		0.64
19:34:04	197.601	7581.39		1.47
19:36:56	197.649		249.64	
19:42:42	197.745	7583.37		1.98
19:48:28	197.841	7584.71		1.34
19:51:20	197.889		249.64	
19:57:06	197.985	7586.70		1.99
19:59:59	198.033	7587.47		0.77
20:05:44	198.129		249.64	
20:08:37	198.177	7589.38		1.92
20:14:23	198.273	7590.75		1.37
20:17:16	198.321	7591.51		0.77
20:23:01	198.417	7592.92		1.40
20:25:54	198.465	7593.58		0.67
20:31:40	198.561	7595.57		1.99
20:34:32	198.609		249.64	
20:40:18	198.705	7597.53		1.95

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 30/09/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:46:04	198.801	7598.78		1.25
20:48:56	198.849		249.63	
20:54:42	198.945	7600.75		1.97
20:57:35	198.993	7601.44		0.69
21:03:20	199.089		249.62	
21:06:13	199.137	7603.34		1.90
21:11:59	199.233	7604.68		1.34
21:14:52	199.281	7605.33		0.65
21:20:37	199.377	7606.70		1.37
21:23:30	199.425	7607.36		0.67
21:30:13	199.537	7608.90		1.53
21:33:06	199.585	7609.53		0.64
21:38:52	199.681	7610.84		1.30
21:44:37	199.777	7612.16		1.33
21:47:30	199.825	7612.79		0.63
21:53:16	199.921	7614.13		1.34
21:56:08	199.969		249.59	
22:01:54	200.065	7616.00		1.86
22:04:47	200.113	7616.50		0.50
22:10:32	200.209		249.59	
22:13:25	200.257	7618.45		1.96
22:19:11	200.353	7619.82		1.37
22:22:04	200.401	7620.39		0.58
22:27:49	200.497	7621.60		1.20
22:30:42	200.545	7622.23		0.64
22:36:28	200.641	7623.46		1.23
22:42:13	200.737	7624.67		1.21
22:45:06	200.785	7625.26		0.59
22:50:52	200.881	7626.45		1.19
22:53:44	200.929		249.58	
22:59:30	201.025	7628.32		1.87
23:02:23	201.073	7628.93		0.61
23:08:08	201.169		249.57	
23:11:01	201.217	7630.73		1.80
23:16:47	201.313	7631.96		1.23
23:19:40	201.361	7632.64		0.68
23:25:25	201.457	7633.81		1.17
23:31:11	201.553	7635.03		1.23
23:34:04	201.601	7635.61		0.58
23:39:49	201.697	7636.84		1.23
23:42:42	201.745	7637.41		0.58
23:49:25	201.857	7638.72		1.30
23:52:18	201.905	7639.39		0.68
23:58:04	202.001	7640.43		1.04
00:00:56	202.049		249.59	
00:06:42	202.145	7642.12		1.69
00:09:35	202.193	7642.73		0.61
00:15:20	202.289		249.59	
00:18:13	202.337	7644.46		1.73
00:23:59	202.433	7645.61		1.15

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Gauge No: 73033
Well No.: Anemone # 1A
Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:29:44	202.529		249.58	
00:32:37	202.577	7647.17		1.56
00:38:23	202.673	7648.24		1.07
00:41:16	202.721	7648.83		0.59
00:47:01	202.817	7649.93		1.10
00:49:54	202.865	7650.47		0.54
00:55:40	202.961	7651.58		1.11
00:58:32	203.009		249.58	
01:04:18	203.105	7653.18		1.60
01:07:11	203.153	7653.72		0.54
01:12:56	203.249		249.57	
01:15:49	203.297	7655.33		1.61
01:21:35	203.393	7656.38		1.05
01:27:20	203.489		249.57	
01:30:13	203.537	7657.98		1.60
01:35:59	203.633	7659.13		1.15
01:38:52	203.681	7659.71		0.58
01:44:37	203.777	7660.73		1.02
01:47:30	203.825	7661.34		0.61
01:53:16	203.921	7662.46		1.11
01:56:08	203.969		249.56	
02:01:54	204.065	7663.99		1.54
02:04:47	204.113	7664.57		0.58
02:11:30	204.225	7665.87		1.31
02:14:23	204.273	7666.41		0.54
02:20:08	204.369		249.55	
02:25:54	204.465	7668.70		2.29
02:28:47	204.513	7669.28		0.58
02:34:32	204.609		249.55	
02:37:25	204.657	7670.97		1.69
02:43:11	204.753	7672.08		1.11
02:46:04	204.801	7672.64		0.56
02:51:49	204.897	7673.81		1.17
02:54:42	204.945	7674.33		0.52
03:00:28	205.041	7675.46		1.13
03:03:20	205.089		249.54	
03:09:06	205.185	7677.06		1.60
03:14:52	205.281	7678.08		1.02
03:17:44	205.329		249.52	
03:23:30	205.425	7679.81		1.73
03:26:23	205.473	7680.31		0.50
03:32:08	205.569		249.52	
03:35:01	205.617	7682.08		1.77
03:40:47	205.713	7683.15		1.08
03:43:40	205.761	7683.69		0.54
03:49:25	205.857	7684.77		1.08
03:52:18	205.905	7685.27		0.50
03:58:04	206.001	7686.33		1.06
04:00:56	206.049		249.51	
04:06:42	206.145	7687.79		1.46

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
04:12:28	206.241	7688.90		1.11
04:15:20	206.289		249.50	
04:21:06	206.385	7690.54		1.64
04:23:59	206.433	7691.08		0.54
04:30:42	206.545	7692.19		1.11
04:33:35	206.593	7692.81		0.61
04:39:20	206.689		249.50	
04:42:13	206.737	7694.31		1.50
04:47:59	206.833	7695.42		1.11
04:50:52	206.881	7695.87		0.45
04:56:37	206.977	7696.92		1.05
04:59:30	207.025	7697.41		0.49
05:05:16	207.121	7698.48		1.08
05:11:01	207.217	7699.52		1.04
05:13:54	207.265	7700.02		0.50
05:19:40	207.361	7701.06		1.04
05:22:32	207.409		249.49	
05:28:18	207.505	7702.54		1.49
05:31:11	207.553	7703.12		0.58
05:36:56	207.649		249.48	
05:39:49	207.697	7704.69		1.58
05:45:35	207.793	7705.69		1.00
05:48:28	207.841	7706.23		0.54
05:54:13	207.937	7707.16		0.92
05:57:06	207.985	7707.62		0.46
06:02:52	208.081	7708.68		1.06
06:08:37	208.177	7709.64		0.96
06:11:30	208.225	7710.06		0.42
06:17:16	208.321	7711.05		0.99
06:20:08	208.369		249.46	
06:25:54	208.465	7712.52		1.48
06:28:47	208.513	7713.06		0.54
06:34:32	208.609		249.46	
06:37:25	208.657	7714.45		1.38
06:43:11	208.753	7715.56		1.12
06:46:04	208.801	7716.01		0.45
06:52:47	208.913	7717.05		1.04
06:58:32	209.009		249.45	
07:01:25	209.057	7718.47		1.42
07:07:11	209.153	7719.43		0.96
07:10:04	209.201	7719.84		0.41
07:15:49	209.297	7720.82		0.98
07:18:42	209.345	7721.23		0.41
07:20:00	Opened Well at choke manifold on 1/4" fixed choke Flow by-passed to burner			
07:24:28	209.441	5820.48		-1900.75
07:27:20	209.489		249.73	
07:33:06	209.585	5252.28		-568.20
07:35:59	209.633	5165.33		-86.95
07:41:44	209.729		250.89	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:44:37	209.777	4938.58		-226.75
07:50:23	209.873	4802.16		-136.42
07:56:08	209.969		251.54	
07:59:01	210.017	4630.49		-171.66
08:04:47	210.113	4531.37		-99.12
08:07:40	210.161	4488.02		-43.35
08:13:25	210.257	4404.15		-83.86
08:16:18	210.305	4364.30		-39.85
08:22:04	210.401	4278.69		-85.61
08:24:56	210.449		252.76	
08:30:42	210.545	4157.10		-121.60
08:33:35	210.593	4096.47		-60.63
08:39:20	210.689		253.52	
08:42:13	210.737	3977.59		-118.88
08:47:59	210.833	3910.20		-67.39
08:53:44	210.929		254.34	
08:56:37	210.977	3817.85		-92.34
09:02:23	211.073	3761.60		-56.25
09:05:16	211.121	3734.91		-26.69
09:11:59	211.233	3682.15		-52.77
09:14:52	211.281	3663.50		-18.65
09:20:37	211.377	3630.95		-32.54
09:23:30	211.425	3613.85		-17.11
09:29:16	211.521	3605.78		-8.07
09:32:08	211.569		255.68	
09:37:54	211.665	3587.64		-18.14
09:40:47	211.713	3581.96		-5.68
09:46:32	211.809		255.97	
09:52:18	211.905	3557.57		-24.39
09:54:00	Shut-in Well at choke manifold			
09:55:11	211.953	3561.54		3.97
10:00:56	212.049		256.26	
10:03:49	212.097	3652.15		90.61
10:09:35	212.193	3719.93		67.78
10:12:28	212.241	3753.93		34.00
10:18:13	212.337	3817.74		63.81
10:21:06	212.385	3846.83		29.10
10:26:52	212.481	3902.47		55.64
10:29:44	212.529		256.51	
10:35:30	212.625	3973.76		71.29
10:41:16	212.721	4018.81		45.05
10:44:08	212.769		256.70	
10:49:54	212.865	4084.92		66.11
10:52:47	212.913	4106.57		21.65
10:58:32	213.009		256.88	
11:01:25	213.057	4170.36		63.79
11:07:11	213.153	4212.02		41.66
11:10:04	213.201	4232.75		20.72
11:15:49	213.297	4273.95		41.21
11:18:42	213.345	4294.57		20.62

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
11:24:28	213.441	4335.61		41.04
11:27:20	213.489		257.14	
11:34:04	213.601	4403.69		68.08
11:39:49	213.697	4444.09		40.40
11:42:42	213.745	4464.23		20.14
11:48:00	Opened Well at choke manifold on 1/8" fixed choke Flow by-passed to burner			
11:48:28	213.841	4504.43		40.19
11:51:20	213.889		257.23	
11:57:06	213.985	4530.04		25.61
11:59:59	214.033	4540.87		10.83
12:05:44	214.129		257.26	
12:08:37	214.177	4576.14		35.28
12:14:23	214.273	4599.23		23.08
12:17:16	214.321	4610.44		11.22
12:23:01	214.417	4634.71		24.27
12:25:54	214.465	4647.53		12.81
12:31:40	214.561	4671.55		24.03
12:37:25	214.657	4694.14		22.59
12:40:18	214.705	4705.66		11.52
12:46:04	214.801	4729.58		23.92
12:48:56	214.849		257.28	
12:54:42	214.945	4756.01		26.44
12:57:35	214.993	4767.28		11.26
13:03:20	215.089		257.27	
13:06:13	215.137	4799.07		31.79
13:11:59	215.233	4819.92		20.85
13:14:52	215.281	4830.10		10.17
13:20:37	215.377	4850.35		20.25
13:22:00	Flow diverted through separator			
13:23:30	215.425	4862.88		12.53
13:29:16	215.521	4883.27		20.39
13:35:01	215.617	4904.85		21.59
13:37:54	215.665	4914.64		9.78
13:43:40	215.761	4933.91		19.27
13:46:32	215.809		257.17	
13:52:18	215.905	4953.71		19.80
13:56:08	215.969		257.14	
14:01:54	216.065	4975.95		22.24
14:04:47	216.113	4983.43		7.49
14:10:32	216.209		257.11	
14:13:25	216.257	5001.30		17.86
14:19:11	216.353	5013.88		12.58
14:24:56	216.449		257.08	
14:27:49	216.497	5048.18		34.31
14:33:35	216.593	5070.28		22.10
14:36:28	216.641	5080.85		10.56
14:42:13	216.737	5100.92		20.08
14:45:06	216.785	5110.23		9.30
14:50:52	216.881	5129.21		18.98

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
14:53:44	216.929		256.99	
14:59:30	217.025	5160.37		31.16
15:02:23	217.073	5170.56		10.19
15:08:08	217.169		256.92	
15:11:01	217.217	5199.10		28.54
15:16:47	217.313	5212.54		-13.44
15:22:32	217.409		256.86	
15:25:25	217.457	5232.72		20.18
15:31:11	217.553	5246.67		13.96
15:34:04	217.601	5253.33		6.65
15:39:49	217.697	5264.97		11.64
15:42:42	217.745	5270.85		5.88
15:48:28	217.841	5279.94		9.09
15:51:20	217.889		256.76	
15:57:06	217.985	5291.21		11.26
15:59:59	218.033	5294.47		3.27
16:05:44	218.129		256.72	
16:08:37	218.177	5304.20		9.73
16:15:20	218.289		256.70	
16:21:06	218.385	5325.02		20.82
16:23:59	218.433	5330.25		5.23
16:29:44	218.529		256.67	
16:32:37	218.577	5343.22		12.97
16:38:23	218.673	5351.54		8.31
16:41:16	218.721	5355.37		3.83
16:47:01	218.817	5361.92		6.56
16:49:54	218.865	5365.04		3.12
16:55:40	218.961	5371.03		5.99
16:58:32	219.009		256.57	
17:04:18	219.105	5370.38		7.34
17:07:11	219.153	5381.87		3.49
17:12:56	219.249		256.55	
17:18:42	219.345	5400.29		18.42
17:21:35	219.393	5401.46		4.17
17:27:20	219.489		256.50	
17:30:13	219.537	5410.13		13.67
17:35:59	219.633	5424.31		6.18
17:38:52	219.681	5426.61		2.30
17:44:37	219.777	5427.49		0.88
17:47:30	219.825	5426.97		-0.51
17:53:16	219.921	5422.48		-4.49
17:56:08	219.969		256.43	
18:01:54	220.065	5415.12		-7.37
18:07:40	220.161	5412.01		-3.10
18:10:32	220.209		256.41	
18:16:18	220.305	5409.18		-2.83
18:19:11	220.353	5408.15		-1.03
18:24:56	220.449		256.39	
18:27:49	220.497	5411.07		2.92
18:33:35	220.593	5413.80		2.73

Exal Reservoir Services Ltd.

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
18:37:25	220.657	5414.96		1.16
18:43:11	220.753	5414.91		-0.05
18:46:04	220.801	5414.28		-0.63
18:51:49	220.897	5411.75		-2.53
18:54:42	220.945	5412.37		0.63
19:00:28	221.041	5412.39		0.02
19:06:13	221.137	5411.05		-1.34
19:09:06	221.185	5411.84		0.78
19:14:52	221.281	5412.52		0.68
19:17:44	221.329		256.37	
19:23:30	221.425	5414.91		2.39
19:26:23	221.473	5415.87		0.96
19:32:08	221.569		256.37	
19:35:01	221.617	5418.32		2.45
19:40:47	221.713	5420.74		2.43
19:43:40	221.761	5424.60		3.85
19:49:25	221.857	5427.63		3.03
19:52:18	221.905	5428.77		1.14
19:58:04	222.001	5430.40		1.63
20:03:49	222.097	5431.22		0.82
20:06:42	222.145	5431.26		0.04
20:12:28	222.241	5431.86		0.61
20:15:20	222.289		256.36	
20:21:06	222.385	5434.01		2.14
20:23:59	222.433	5433.93		-0.07
20:29:44	222.529		256.36	
20:32:37	222.577	5432.76		-1.18
20:38:23	222.673	5431.90		-0.86
20:41:16	222.721	5431.83		-0.07
20:47:01	222.817	5432.28		0.45
20:49:54	222.865	5432.76		0.48
20:55:40	222.961	5433.86		1.11
21:00:00	Commenced taking PVT samples at separator			
21:02:23	223.073	5434.01		0.14
21:05:16	223.121	5434.22		0.21
21:11:01	223.217	5432.26		-1.96
21:13:54	223.265	5432.76		0.50
21:19:40	223.361	5430.03		-2.73
21:22:32	223.409		256.35	
21:28:18	223.505	5429.72		-0.31
21:31:11	223.553	5429.12		-0.61
21:36:56	223.649		256.36	
21:39:49	223.697	5433.47		4.35
21:45:35	223.793	5428.97		-4.50
21:51:20	223.889		256.36	
21:54:13	223.937	5430.61		1.64
21:59:59	224.033	5427.12		-3.50
22:02:52	224.081	5424.87		-2.25
22:08:37	224.177	5421.51		-3.35
22:11:30	224.225	5419.25		-2.27

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 01/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
22:17:16	224.321	5416.64		-2.60
22:20:08	224.369		256.37	
22:25:54	224.465	5415.51		-1.13
22:28:47	224.513	5419.76		4.25
22:34:32	224.609		256.38	
22:37:25	224.657	5423.44		3.68
22:43:11	224.753	5428.95		5.52
22:48:56	224.849		256.37	
22:51:49	224.897	5500.64		71.69
22:57:35	224.993	5502.34		1.70
23:00:28	225.041	5494.62		-7.72
23:06:13	225.137	5488.90		-5.72
23:09:06	225.185	5490.15		1.25
23:14:52	225.281	5485.88		-4.27
23:17:44	225.329		256.32	
23:24:28	225.441	5500.46		14.58
23:27:20	225.489		256.31	
23:33:06	225.585	5491.55		-8.91
23:35:59	225.633	5489.15		-2.40
23:41:44	225.729		256.30	
23:45:00	Increased choke to 1/4" fixed choke			
23:47:30	225.825	5504.75		15.60
23:50:23	225.873	5528.45		23.70
23:56:08	225.969		256.29	
23:59:01	226.017	5506.23		-22.23
00:04:47	226.113	5339.04		-167.18
00:07:40	226.161	5279.30		-59.75
00:13:25	226.257	5178.56		-100.74
00:16:18	226.305	5127.65		-50.91
00:22:04	226.401	5036.63		-91.02
00:24:56	226.449		256.54	
00:30:42	226.545	4917.30		-119.33
00:33:35	226.593	4881.76		-35.54
00:39:20	226.689		256.77	
00:45:06	226.785	4750.57		-131.19
00:47:59	226.833	4720.61		-29.96
00:53:44	226.929		256.96	
00:56:37	226.977	4644.81		-75.80
01:02:23	227.073	4602.81		-42.00
01:05:16	227.121	4582.11		-20.70
01:11:01	227.217	4543.86		-38.25
01:13:54	227.265	4526.26		-17.60
01:19:40	227.361	4494.38		-31.89
01:22:32	227.409		257.25	
01:28:18	227.505	4449.61		-44.76
01:34:04	227.601	4421.88		-27.74
01:36:56	227.649		257.39	
01:43:40	227.761	4382.93		-38.95
01:46:32	227.809		257.47	
01:52:18	227.905	4351.56		-31.37

Exal Reservoir Services Ltd.

Location: Zapata Arctic
 Test No.: DST # 1

Gauge No.: 75055
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
01:55:11	227.953	4340.22		-11.34
02:00:56	228.049		257.62	
02:03:49	228.097	4313.05		-27.17
02:09:35	228.193	4293.29		-19.76
02:12:28	228.241	4285.05		-8.23
02:18:13	228.337	4270.72		-14.33
02:20:00	Shut-in Well at choke manifold			
02:21:06	228.385	4278.91		8.18
02:26:52	228.481	4351.35		72.44
02:32:37	228.577	4420.17		68.82
02:33:00	Commenced bullheading formation			
02:35:30	228.625	4458.64		38.47
02:41:16	228.721	4689.94		231.30
02:44:08	228.769		257.91	
02:49:54	228.865	5274.35		584.41
02:52:47	228.913	5529.43		255.08
02:58:32	229.009		257.66	
03:01:25	229.057	6992.52		1463.09
03:07:11	229.153	9732.34		2739.82
03:10:04	229.201	10861.86		1129.52
03:15:49	229.297	10825.06		-36.79
03:18:42	229.345	11004.21		179.15
03:24:28	229.441	10770.90		-233.31
03:30:13	229.537	11261.02		490.12
03:33:06	229.585	11481.34		220.31
03:38:52	229.681	11506.03		24.69
03:41:44	229.729		252.15	
03:47:30	229.825	11470.63		-35.40
03:50:23	229.873	11651.77		181.14
03:56:08	229.969		250.96	
03:59:01	230.017	12081.83		430.06
04:05:44	230.129		250.20	
04:08:37	230.177	11105.82		-976.01
04:14:23	230.273	10727.37		-378.45
04:17:16	230.321	11420.23		692.86
04:23:01	230.417	11595.36		175.13
04:28:47	230.513	10964.10		-631.27
04:31:40	230.561	10849.89		-114.21
04:37:25	230.657	11878.47		1028.58
04:40:18	230.705	11664.36		-214.11
04:46:04	230.801	11038.25		-626.11
04:48:56	230.849		248.63	
04:54:42	230.945	11369.97		331.72
04:57:35	230.993	11697.27		327.30
05:03:20	231.089		248.28	
05:06:13	231.137	11175.86		-521.41
05:11:59	231.233	10868.22		-307.64
05:17:44	231.329		247.93	
05:20:37	231.377	11538.53		670.31
05:26:23	231.473	10988.87		-549.67

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
05:29:16	231.521	10776.31		-212.55
05:35:01	231.617	11707.37		931.06
05:37:54	231.665	11501.37		-206.00
05:43:40	231.761	10962.44		-538.93
05:46:32	231.809		247.23	
05:52:18	231.905	11527.68		565.24
05:55:11	231.953	11429.63		-98.06
06:00:56	232.049		247.02	
06:03:49	232.097	10709.67		-719.96
06:09:35	232.193	11534.80		825.13
06:15:20	232.289		246.85	
06:18:13	232.337	10824.99		-709.81
06:24:56	232.449		246.76	
06:27:49	232.497	11460.71		635.72
06:33:35	232.593	11137.03		-323.69
06:36:28	232.641	10906.75		-230.28
06:42:13	232.737	10537.66		-369.09
06:45:06	232.785	10588.03		50.37
06:50:52	232.881	11240.47		652.44
06:53:44	232.929		246.39	
06:59:30	233.025	10586.90		-653.57
07:02:23	233.073	10428.56		-158.34
07:08:08	233.169		246.33	
07:13:54	233.265	10890.32		461.76
07:16:47	233.313	10690.22		-200.10
07:22:32	233.409		246.14	
07:25:25	233.457	11044.35		354.12
07:31:11	233.553	11048.59		4.24
07:34:04	233.601	10825.63		-222.96
07:39:49	233.697	10478.27		-347.35
07:42:42	233.745	10495.59		17.32
07:48:28	233.841	11116.75		621.15
07:51:20	233.889		245.98	
07:57:06	233.985	10508.54		-608.21
07:59:59	234.033	10363.82		-144.72
08:05:44	234.129		245.91	
08:11:30	234.225	10877.74		513.92
08:14:23	234.273	10684.12		-193.62
08:20:08	234.369		245.76	
08:23:01	234.417	11057.07		372.95
08:28:47	234.513	10960.91		-96.16
08:31:40	234.561	10754.19		-206.72
08:37:25	234.657	10430.13		-324.05
08:40:18	234.705	10780.70		350.57
08:47:01	234.817	10970.85		190.15
08:49:54	234.865	10764.14		-206.71
08:55:40	234.961	10440.40		-323.74
09:01:25	235.057	11342.64		902.24
09:04:18	235.105	11066.95		-275.69
09:10:04	235.201	10658.06		-408.89

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:12:56	235.249		245.43	
09:18:42	235.345	11321.15		663.08
09:21:35	235.393	11029.54		-291.61
09:27:20	235.489		245.32	
09:30:13	235.537	10483.84		-545.70
09:35:59	235.633	11109.84		626.00
09:38:52	235.681	11210.14		100.30
09:44:37	235.777	10756.75		-453.39
09:47:30	235.825	10586.14		-170.60
09:53:16	235.921	11064.51		478.37
09:59:01	236.017	10790.20		-274.32
10:01:54	236.065	10612.77		-177.42
10:07:40	236.161	10327.95		-284.82
10:10:32	236.209		245.22	
10:16:18	236.305	10853.94		525.99
10:19:11	236.353	10657.97		-195.98
10:24:56	236.449		245.18	
10:27:49	236.497	10296.75		-361.21
10:33:35	236.593	10794.47		497.72
10:36:28	236.641	10603.71		-190.76
10:42:13	236.737	10312.76		-290.96
10:45:06	236.785	10195.87		-116.89
10:50:52	236.881	10913.06		717.20
10:56:37	236.977	10503.66		-409.40
10:59:30	237.025	10359.87		-143.79
11:06:13	237.137	10103.99		-255.88
11:09:06	237.185	10722.10		618.11
11:14:52	237.281	10456.54		-265.56
11:17:44	237.329		245.24	
11:23:30	237.425	10090.06		-366.47
11:26:23	237.473	9995.79		-94.27
11:32:08	237.569		245.35	
11:35:01	237.617	10548.21		552.42
11:40:47	237.713	10256.67		-291.54
11:43:40	237.761	10142.28		-114.39
11:49:25	237.857	10025.68		-116.60
11:55:11	237.953	10522.73		497.05
11:58:04	238.001	10364.41		-158.32
12:03:49	238.097	10122.66		-241.75
12:06:42	238.145	10023.33		-99.33
12:12:28	238.241	10710.92		687.59
12:15:20	238.289		245.35	
12:21:06	238.385	10248.30		-462.62
12:23:59	238.433	10137.19		-111.11
12:29:44	238.529		245.36	
12:32:37	238.577	10834.15		696.97
12:38:23	238.673	10453.64		-380.51
12:44:08	238.769		245.29	
12:47:01	238.817	10410.25		-43.39
12:52:47	238.913	10752.38		342.13

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
12:55:40	238.961	10572.65		-179.74
13:01:25	239.057	10298.14		-274.50
13:04:18	239.105	10619.28		321.14
13:10:04	239.201	10709.98		90.71
13:12:56	239.249		245.18	
13:18:42	239.345	10284.35		-425.64
13:21:35	239.393	10179.74		-104.61
13:28:18	239.505	10838.13		658.39
13:31:11	239.553	10646.04		-192.09
13:36:56	239.649		245.16	
13:42:42	239.745	11043.89		397.85
13:45:35	239.793	10780.45		-263.44
13:51:20	239.889		245.12	
13:54:13	239.937	10341.73		-438.71
13:59:59	240.033	10906.54		564.80
14:02:52	240.081	10859.99		-46.55
14:08:37	240.177	10509.77		-350.22
14:11:30	240.225	10378.51		-131.26
14:17:16	240.321	10807.82		429.31
14:20:08	240.369		245.34	
14:25:54	240.465	10509.77		-298.05
14:28:47	240.513	10383.19		-126.58
14:34:32	240.609		245.47	
14:40:18	240.705	10858.49		475.30
14:43:11	240.753	10668.31		-190.18
14:48:56	240.849		245.63	
14:51:49	240.897	10291.80		-376.51
14:57:35	240.993	10909.91		618.11
15:00:28	241.041	10723.56		-186.35
15:06:13	241.137	10482.03		-241.54
15:09:06	241.185	10392.59		-89.44
15:14:52	241.281	11036.93		644.34
15:17:44	241.329		245.87	
15:23:30	241.425	10686.04		-350.89
15:26:23	241.473	10619.65		-66.38
15:32:08	241.569		245.98	
15:37:54	241.665	10999.30		379.65
15:40:47	241.713	10910.22		-89.08
15:46:32	241.809		246.13	
15:50:23	241.873	10721.10		-189.12
15:56:08	241.969		246.21	
15:59:01	242.017	10597.74		-123.37
16:04:47	242.113	10531.51		-66.23
16:07:40	242.161	10502.08		-29.43
16:13:25	242.257	10447.48		-54.60
16:16:18	242.305	11031.65		584.17
16:22:04	242.401	11151.57		119.92
16:27:49	242.497	8082.46		-3069.11
16:30:00	Stopped bullheading formation, observed well			
16:30:42	242.545	7998.56		-83.90

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

gauge NO: 73055
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:36:28	242.641	7871.54		-127.02
16:39:20	242.689		246.50	
16:45:06	242.785	7861.22		-10.32
16:47:59	242.833	7855.93		-5.29
16:53:44	242.929		246.75	
16:56:37	242.977	7855.00		-0.93
17:02:23	243.073	7879.08		24.08
17:05:16	243.121	7894.23		15.15
17:11:01	243.217	7950.43		56.20
17:13:54	243.265	7985.56		35.13
17:19:40	243.361	8054.15		68.59
17:25:25	243.457	8119.52		65.37
17:28:18	243.505	8149.66		30.14
17:34:04	243.601	8206.71		57.05
17:36:56	243.649		247.42	
17:42:42	243.745	8280.08		73.37
17:45:35	243.793	8302.47		22.39
17:51:20	243.889		247.57	
17:54:13	243.937	8362.33		59.87
17:59:59	244.033	8398.56		36.22
18:02:52	244.081	8484.36		85.81
18:08:37	244.177	8503.48		19.12
18:10:00	Closed PCT			
18:12:28	244.241	10517.77		2014.29
18:14:00	Attempted to open MIDRV			
18:18:13	244.337	11502.67		984.90
18:23:59	244.433	11333.77		-168.90
18:26:52	244.481	11099.88		-233.89
18:32:37	244.577	11804.62		704.74
18:35:30	244.625	7809.62		-3995.00
18:41:16	244.721	10084.55		2274.92
18:44:08	244.769		247.55	
18:49:54	244.865	9028.72		-1055.83
18:52:47	244.913	9944.47		915.76
18:58:32	245.009		247.85	
19:01:25	245.057	8498.63		-1445.84
19:07:11	245.153	8674.85		176.21
19:10:04	245.201	8722.38		47.53
19:15:49	245.297	8783.77		61.39
19:21:35	245.393	8811.48		27.72
19:24:28	245.441	8819.43		7.95
19:30:13	245.537	8832.22		12.79
19:33:06	245.585	8840.82		8.60
19:38:52	245.681	8853.01		12.19
19:41:44	245.729		248.15	
19:47:30	245.825	8853.78		0.77
19:50:23	245.873	8851.87		-1.91
19:56:08	245.969		248.20	
19:59:01	246.017	8851.46		-0.41
20:04:47	246.113	8855.29		3.83

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge No: 73033
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:10:32	246.209		248.22	
20:13:25	246.257	8858.81		3.52
20:19:11	246.353	9121.11		262.30
20:22:04	246.401	9062.79		-58.32
20:27:49	246.497	8966.41		-96.38
20:31:40	246.561	8980.50		14.09
20:37:25	246.657	8777.50		-203.00
20:40:18	246.705	8120.65		-656.85
20:46:04	246.801	9750.16		1629.51
20:48:56	246.849		248.90	
20:54:42	246.945	11756.97		2006.81
20:56:00	MIDRV failed to open			
20:57:35	246.993	7867.11		-3889.86
21:03:20	247.089		249.27	
21:09:06	247.185	8367.66		500.55
21:11:59	247.233	8429.09		61.44
21:17:44	247.329		249.32	
21:20:37	247.377	8128.73		-300.36
21:22:00	Opened SHORT			
21:26:23	247.473	9867.29		1738.56
21:29:16	247.521	9180.93		-686.36
21:32:00	Commenced reverse circulation			
21:35:01	247.617	9140.82		-40.11
21:37:54	247.665	9091.21		-49.62
21:43:40	247.761	9043.93		-47.28
21:46:32	247.809		249.35	
21:52:18	247.905	8989.68		-54.24
21:55:11	247.953	8978.22		-11.46
22:00:00	Stopped reverse circulation (trip tank overflow)			
22:00:56	248.049		249.16	
22:06:42	248.145	8942.54		-35.68
22:09:35	248.193	8935.36		-7.18
22:15:20	248.289		249.11	
22:18:13	248.337	8916.88		-18.49
22:23:59	248.433	8906.58		-10.30
22:26:52	248.481	8901.98		-4.60
22:32:37	248.577	8893.41		-8.58
22:35:30	248.625	8889.57		-3.84
22:41:16	248.721	8882.51		-7.06
22:44:08	248.769		249.05	
22:49:54	248.865	8873.08		-9.42
22:53:44	248.929		249.08	
22:59:30	249.025	8863.94		-9.14
23:05:16	249.121	8859.11		-4.83
23:08:08	249.169		249.05	
23:13:54	249.265	8852.32		-6.79
23:16:47	249.313	8850.06		-2.27
23:19:00	Continued reverse circulation			
23:22:32	249.409		249.10	
23:25:25	249.457	8888.93		38.88

Exal Reservoir Services Ltd.

Client : Petrotina Australia
 Location: Zapata Arctic
 Test No.: DST # 1

Gauge NO: 75055
 Well No.: Anemone # 1A
 Date : 02/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
23:31:11	249.553	8871.65		-17.28
23:34:04	249.601	8867.01		-4.64
23:39:49	249.697	8858.69		-8.32
23:42:42	249.745	8855.24		-3.45
23:48:28	249.841	8850.15		-5.09
23:54:13	249.937	8845.67		-4.48
23:57:06	249.985	8841.80		-3.87
00:02:52	250.081	8837.42		-4.37
00:05:44	250.129		249.12	
00:11:30	250.225	8831.96		-5.46
00:14:23	250.273	8829.85		-2.11
00:20:08	250.369		249.10	
00:23:01	250.417	8825.66		-4.19
00:28:47	250.513	8822.94		-2.73
00:31:40	250.561	8818.83		-4.11
00:37:25	250.657	8815.38		-3.44
00:40:18	250.705	8810.61		-4.77
00:46:04	250.801	8810.40		-0.21
00:51:49	250.897	8810.44		0.04
00:54:42	250.945	8810.65		0.21
01:00:28	251.041	8810.76		0.11
01:03:20	251.089		249.00	
01:09:06	251.185	8807.12		-3.64
01:11:59	251.233	8806.40		-0.72
01:18:42	251.345	8804.75		-1.66
01:21:35	251.393	8803.71		-1.03
01:27:20	251.489		249.04	
01:30:13	251.537	8801.20		-2.52
01:35:59	251.633	8799.45		-1.75
01:38:52	251.681	8798.55		-0.90
01:44:37	251.777	8796.79		-1.76
01:50:23	251.873	8795.00		-1.79
01:53:16	251.921	8794.09		-0.91
01:59:01	252.017	8792.70		-1.39
02:01:54	252.065	8791.85		-0.85
02:07:40	252.161	8790.31		-1.54
02:10:32	252.209		249.03	
02:16:18	252.305	8788.32		-2.00
02:19:11	252.353	8787.68		-0.64
02:24:56	252.449		249.03	
02:27:49	252.497	8785.34		-2.34
02:33:35	252.593	8784.45		-0.89
02:36:28	252.641	8783.97		-0.48
02:42:13	252.737	8782.82		-1.15
02:47:59	252.833	8777.74		-5.08
02:50:52	252.881	8777.78		0.04
02:56:37	252.977	8778.67		0.89
02:59:30	253.025	8778.52		-0.15
03:05:16	253.121	8777.89		-0.64
03:08:08	253.169		248.97	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 1

Gauge No: 73033
Well No.: Anemone # 1A
Date : 03/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:13:54	253.265	8777.22		-0.66
03:16:47	253.313	8776.83		-0.40
03:22:32	253.409		248.98	
03:25:25	253.457	8775.04		-1.79
03:31:11	253.553	8773.29		-1.75

File: 73033A.GAS

Test type: CRB

Date: 09/10/89 Time: 11:19

RESERVOIR CONSTANTS

Formation thickness (h).....:	74.000 ft
Average formation porosity (ϕ).....:	0.1500
Well radius (rw).....:	0.4000 ft
Gauge depth.....:	4267.000 ft
Datum depth.....:	0.0000 ft

GAS COMPOSITION Mol percent (Optional)

Methane...:	.000	Ethane....:	.000	Propane...:	.000	Iso-Butane:	.000
n-Butane...:	.000	IsoPentane:	.000	n-Pentane...:	.000	Hexanes...:	.000
C 7 +.....:	.000	Nitrogen...:	.000	CO2.....:	.000	H2S.....:	.000
						C7+ mol wt:	.000

RESERVOIR VARIABLES

Reservoir pressure.....:	9150.000 psia
Temperature (T).....:	260.000 deg F
Water saturation (Sw).....:	0.4000
Water compressibility (Cw).....:	3.500E-06 psi-1
Formation compressibility (Cf).....:	3.500E-06 psi-1
Gas gravity.....:	1.260 sp grav
Initial gas viscosity (ui).....:	0.0667 cp
Initial z-factor (zi).....:	1.526
Gas compressibility (Cg).....:	2.283E-05 psi-1
Initial system compressibility (Ct).....:	1.860E-05 psi-1

File: 73033A.GAS

Date: 09/10/89 Time: 09:26

Test type: CRB

Data Point	Time Hours	Pressure psia
1.	98.4330	6358.400
2.	98.4650	6438.880
3.	98.4810	7101.200
4.	98.4970	7533.370
5.	98.5130	7835.720
6.	98.5450	8219.430
7.	98.5610	8344.080
8.	98.5770	8441.040
9.	98.5930	8517.900
10.	98.6250	8630.970
11.	98.6410	8673.490
12.	98.6570	8709.450
13.	98.6730	8739.770
14.	98.7050	8789.120
15.	98.7210	8809.020
16.	98.7370	8826.270
17.	98.7530	8842.216
18.	98.7850	8869.381
19.	98.8010	8880.966
20.	98.8170	8891.719
21.	98.8330	8901.400
22.	98.8650	8918.524
23.	98.8810	8926.139
24.	98.8970	8933.357
25.	98.9130	8940.057
26.	98.9450	8951.866
27.	98.9610	8957.054
28.	98.9770	8961.764
29.	98.9930	8966.514
30.	99.0250	8975.390
31.	99.0410	8979.064
32.	99.0570	8982.738
33.	99.0730	8986.133
34.	99.1050	8992.538
35.	99.1210	8995.135
36.	99.1370	8997.692
37.	99.1530	8999.770
38.	99.1850	9004.472
39.	99.2010	9006.710
40.	99.2170	9008.469
41.	99.2330	9010.267
42.	99.2650	9013.678
43.	99.2810	9015.317
44.	99.2970	9016.797
45.	99.3130	9018.156
46.	99.3450	9020.595
47.	99.3610	9021.715
48.	99.3770	9022.914
49.	99.3930	9024.314
50.	99.4250	9026.766

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033A.GAS

Date: 09/10/89 Time: 09:26

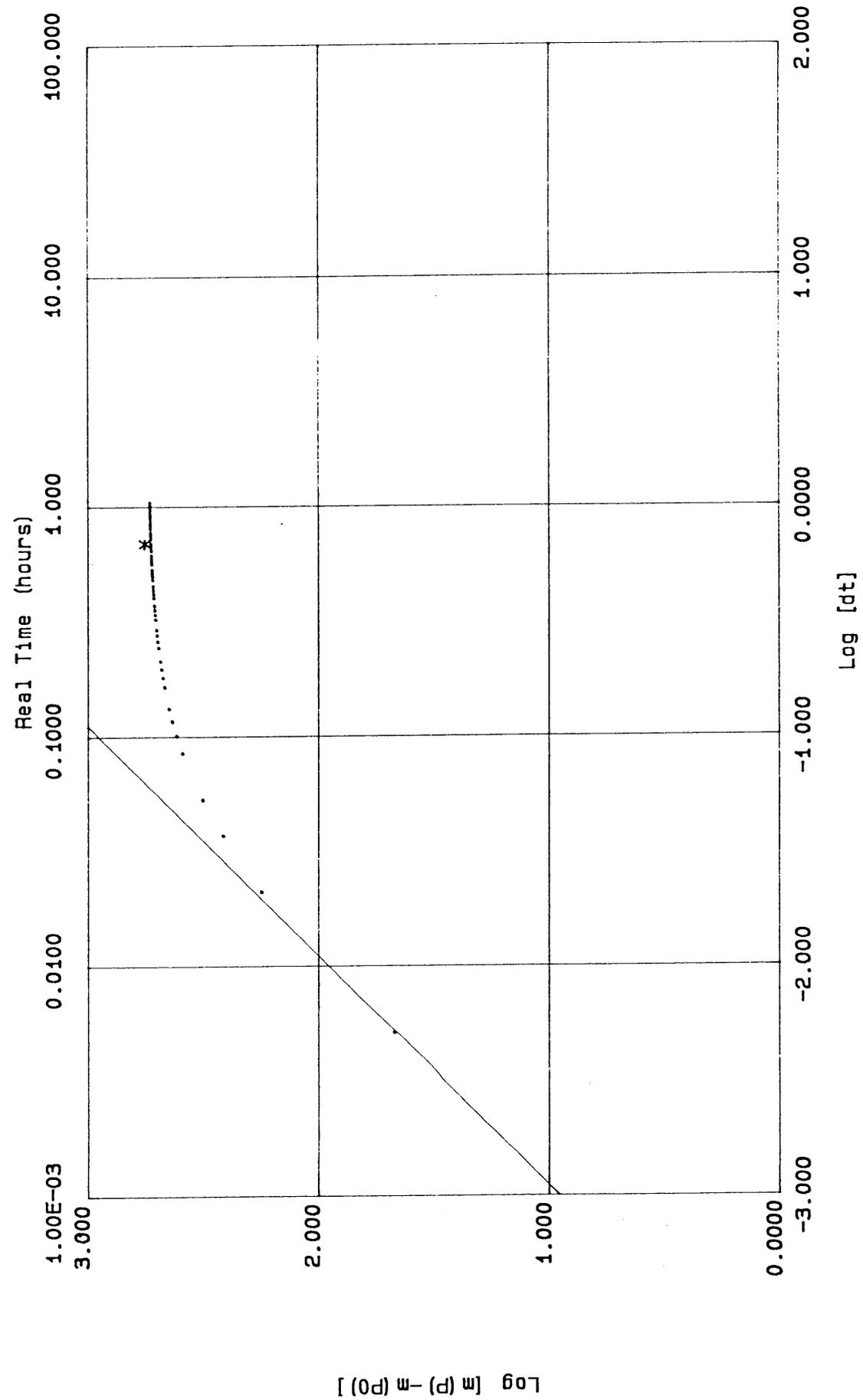
Test type: CRB

Data Point	Time Hours	Pressure psia
51.	99.4410	9028.006
52.	99.4570	9028.846
53.	99.4730	9029.766
54.	99.5050	9033.846

PANSYSTEM (C) EPDS 1986, 87, 88.

LOG-LOG PLOT

File.....: 73033A.GAS
Analyst name.....: J.Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: Wildcat
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1
Slope.....: 1.000
Intercept.....: 3.956
Wellbore Vol.: 28.116
Storage coef.: 6.419E-04



File: 73033A.GAS

Test type: CRB

Date: 09/10/89 Time: 11:23

RESULTS FROM HORNER ANALYSIS
using Pseudo-pressure and Real time

Line :

Intercept.....:	1838.493	
Slope.....:	-198.897	
Start of line.....:(	0.0790 ,	1822.867)
End of line.....:(	0.0644 ,	1825.945)
Coefficient of determination.....:	0.9882	
Number of points.....:	11	
m(p) at dt = 1 hr.....:	1825.156 psia ² /cp	(*1E-06)
Extrapolated m(p).....:	1838.493 psia ² /cp	(*1E-06)
Permeability-thickness (kh).....:	6.189	md.ft
Permeability (k).....:	0.0636	md
Total skin factor (s).....:	0.3914	
dP skin (constant rate).....:	343.344	psi
Radius of investigation.....:	7.693	ft
Extrapolated pressure.....:	9103.359	psia
Pressure at dt = 1 hour.....:	9029.470	psia

File: 73033B.GAS

Date: 09/10/89 Time: 16:31

Test type: CRD

RESERVOIR CONSTANTS

Formation thickness (h).....:	74.000 ft
Average formation porosity (ϕ).....:	0.1500
Well radius (rw).....:	0.4000 ft
Gauge depth.....:	4267.000 ft
Datum depth.....:	0.0000 ft

GAS COMPOSITION Mol percent (Optional)

Methane...:	.000	Ethane....:	.000	Propane...:	.000	Iso-Butane:	.000
n-Butane..:	.000	IsoPentane:	.000	n-Pentane.:	.000	Hexanes...:	.000
C 7 +.....:	.000	Nitrogen..:	.000	CO2.....:	.000	H2S.....:	.000
						C7+ mol wt:	.000

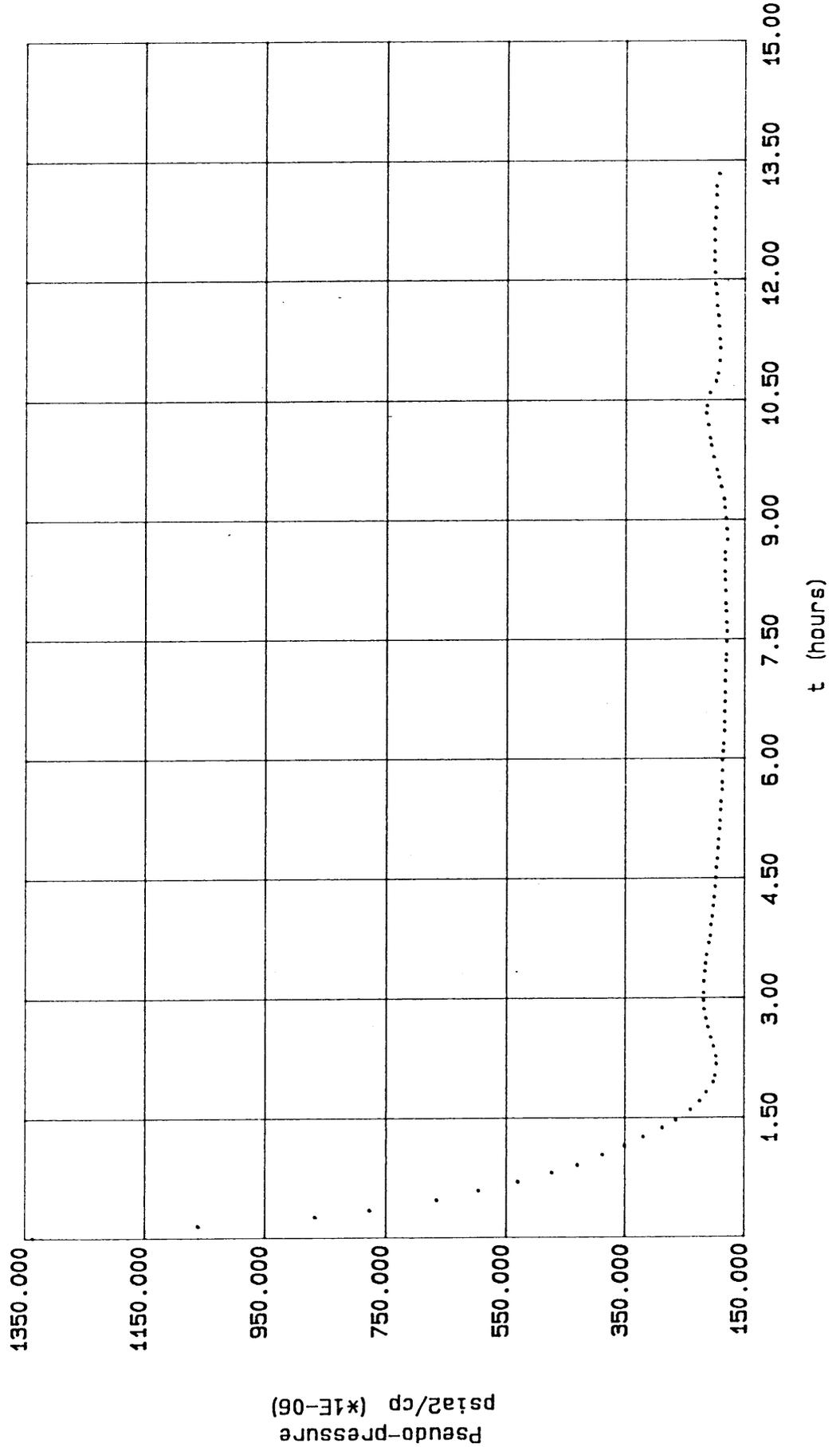
RESERVOIR VARIABLES

Reservoir pressure.....:	9150.000 psia
Temperature (T).....:	260.000 deg F
Water saturation (Sw).....:	0.4000
Water compressibility (Cw).....:	3.500E-06 psi-1
Formation compressibility (Cf).....:	3.500E-06 psi-1
Gas gravity.....:	1.260 sp grav
Initial gas viscosity (ui).....:	0.0667 cp
Initial z-factor (zi).....:	1.526
Gas compressibility (Cg).....:	2.283E-05 psi-1
Initial system compressibility (Ct).....:	1.860E-05 psi-1

PANSYSTEM (C) EPDS 1986, 87, 88.

CARTESIAN PLOT

File.....: 730338.GAS
Analyst name.....: J.Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: Wildcat
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1



File: 73033B.GAS

Date: 09/10/89 Time: 18:26

Test type: CRD

Data Point	Time Hours	Pressure psia
1.	141.6170	6438.403
2.	141.7610	5082.898
3.	141.8730	4191.192
4.	141.9530	3796.333
5.	142.0810	3324.059
6.	142.1930	3041.451
7.	142.3050	2777.657
8.	142.4170	2557.698
9.	142.5130	2390.415
10.	142.6410	2230.118
11.	142.7530	2089.942
12.	142.8650	1971.284
13.	142.9770	1849.371
14.	143.0730	1759.725
15.	143.2010	1662.986
16.	143.3130	1600.634
17.	143.4250	1555.621
18.	143.5530	1507.191
19.	143.6330	1494.133
20.	143.7770	1487.153
21.	143.8730	1490.003
22.	144.0010	1508.676
23.	144.1130	1526.675
24.	144.2410	1546.868
25.	144.3530	1560.696
26.	144.4650	1572.074
27.	144.5770	1576.600
28.	144.6730	1575.236
29.	144.8170	1571.951
30.	144.9450	1566.152
31.	145.0410	1561.318
32.	145.1530	1554.420
33.	145.2970	1538.860
34.	145.3930	1528.815
35.	145.5210	1524.749
36.	145.6330	1515.708
37.	145.7610	1508.507
38.	145.8730	1501.579
39.	146.0010	1494.294
40.	146.1130	1491.686
41.	146.2410	1485.818
42.	146.3530	1479.190
43.	146.4810	1475.119
44.	146.5930	1471.641
45.	146.7210	1465.088
46.	146.8330	1461.474
47.	146.9610	1456.503
48.	147.0730	1456.192
49.	147.2170	1446.421
50.	147.3130	1447.105

File: 73033B.GAS

Date: 09/10/89 Time: 18:26

Test type: CRU

Data Point	Time Hours	Pressure psia
51.	147.4570	1445.835
52.	147.5850	1446.348
53.	147.6970	1439.486
54.	147.7930	1437.335
55.	147.9530	1431.991
56.	148.0650	1430.249
57.	148.1930	1429.478
58.	148.3210	1427.954
59.	148.4330	1429.299
60.	148.5770	1428.204
61.	148.7050	1424.535
62.	148.8330	1421.742
63.	148.9130	1419.793
64.	149.0730	1417.456
65.	149.2010	1414.878
66.	149.3130	1418.017
67.	149.4570	1421.734
68.	149.5530	1424.628
69.	149.7130	1425.285
70.	149.8410	1428.684
71.	149.9530	1430.156
72.	150.0970	1427.164
73.	150.1930	1428.588
74.	150.3530	1412.310
75.	150.4810	1417.563
76.	150.6250	1423.259
77.	150.7530	1432.180
78.	150.8650	1436.263
79.	151.0250	1457.820
80.	151.1370	1473.454
81.	151.2330	1487.899
82.	151.3930	1510.218
83.	151.5370	1527.465
84.	151.6330	1535.475
85.	151.7930	1547.839
86.	151.9370	1561.686
87.	152.0330	1554.600
88.	152.1930	1534.085
89.	152.3370	1491.964
90.	152.4330	1477.425
91.	152.5930	1464.697
92.	152.7530	1462.847
93.	152.8650	1467.913
94.	153.0250	1474.333
95.	153.1530	1478.313
96.	153.2810	1486.306
97.	153.4250	1490.104
98.	153.5530	1498.207
99.	153.6970	1502.222
100.	153.8410	1505.794

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033B.GAS

Date: 09/10/89 Time: 18:26

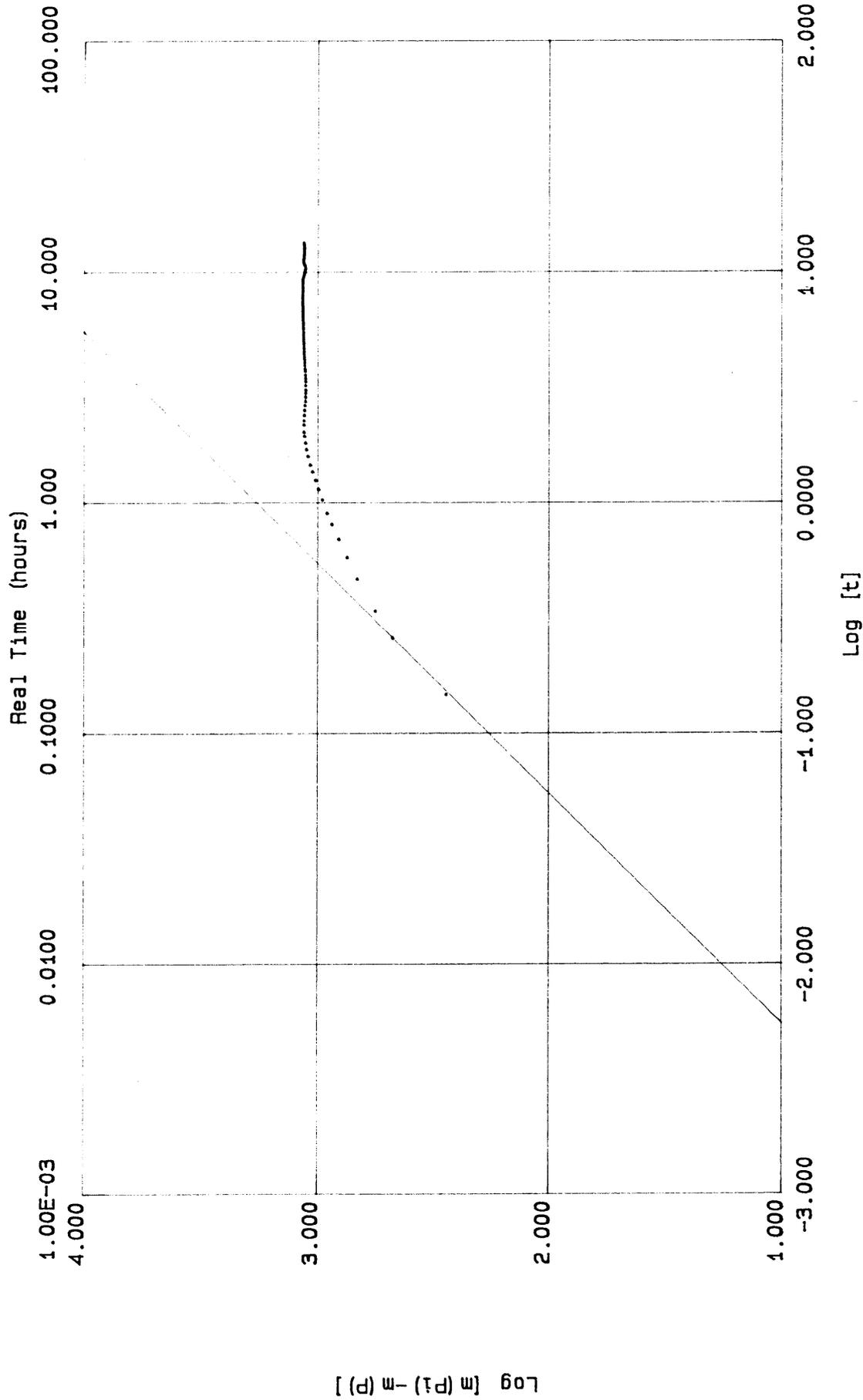
Test type: CRD

Data Point	Time Hours	Pressure psia
101.	153.9530	1504.194
102.	154.0970	1504.260
103.	154.2410	1506.949
104.	154.3850	1498.127
105.	154.5130	1495.575
106.	154.6730	1490.256
107.	154.7850	1489.962
108.	154.9450	1471.865

PANSYSTEM (C) EPDS 1986, 87, 88.

LOG-LOG PLOT

File.....: 730338.GAS
Analyst name.....: J.Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: Wildcat
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1
Slope.....: 1.000
Intercept.....: 3.250
Wellbore Vol.: 139.647
Storage coef.: 3.188E-03



E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033B.GAS

Test type: CRD

Date: 09/10/89 Time: 16:37

RESULTS FROM LOG-LOG ANALYSIS

Line :

Intercept.....:	3.260
Slope.....:	1.000
Apparent wellbore volume.....:	139.647 bbl
Dim. wellbore storage constant (Cd)....:	65.872
Storage coefficient (initial).....:	3.188E-03 bbl/psi

File: 73033B.GAS

Date: 09/10/89 Time: 16:31

Test type: CRD

RESULTS FROM SEMILOG ANALYSIS
using Pseudo-pressure and Real time

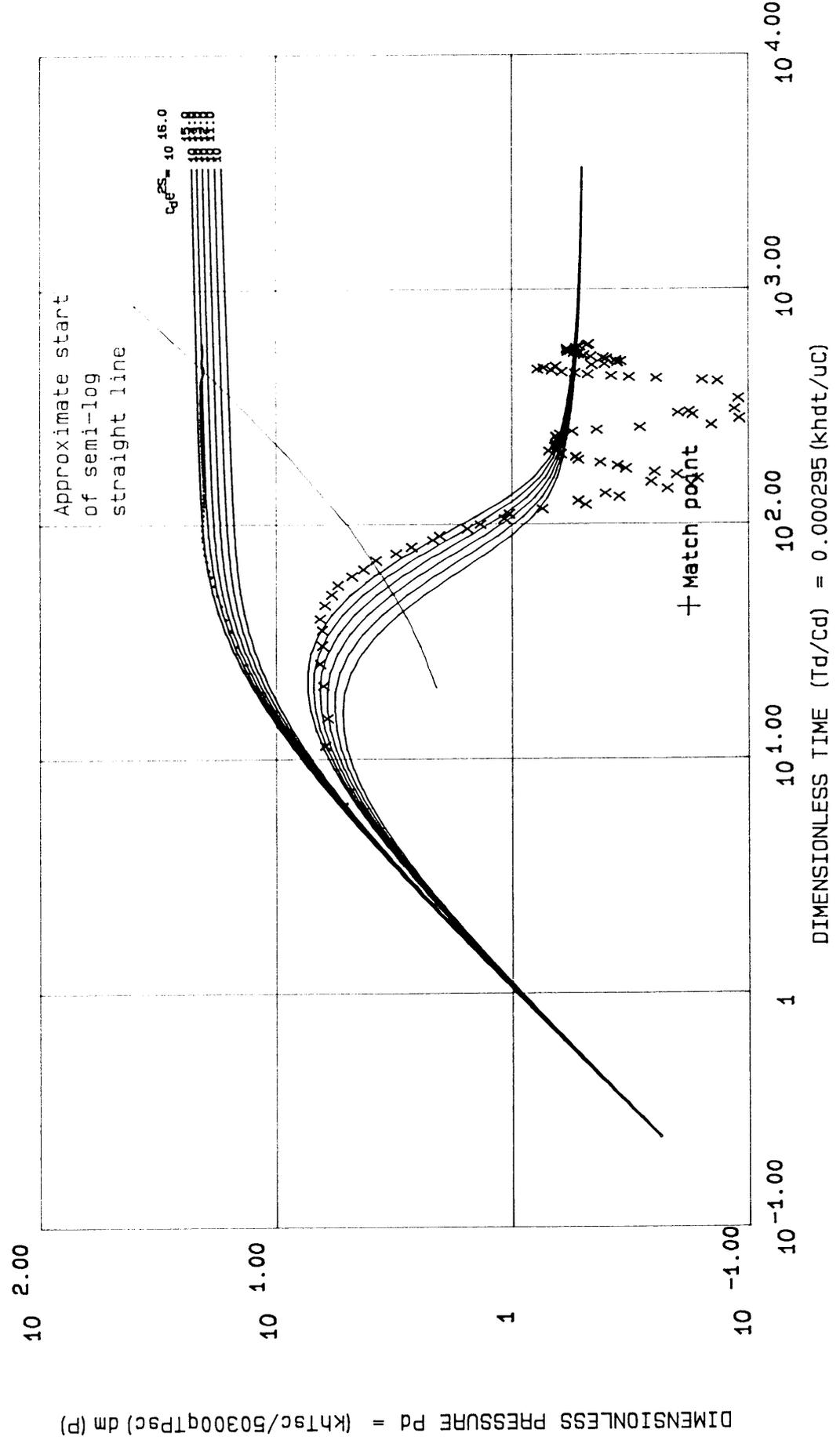
Line :

Intercept.....:	318.863	
Slope.....:	-107.193	
Start of line.....:(	1.087 ,	202.157)
End of line.....:(	1.111 ,	199.680)
Coefficient of determination....:	0.9474	
Number of points.....:	5	
m(p) at dt = 1 hr.....:	318.863	psia ² /cp (*1E-06)
Permeability-thickness (kh).....:	11.484	md.ft
Permeability (k).....:	0.1552	md
Total skin factor (s).....:	6.946	
dP skin (constant rate).....:	2603.799	psi
Radius of investigation.....:	92.453	ft
Pressure at dt = 1 hour.....:	1964.732	psia

HOMOGENEOUS RESERVOIR

File.....: 730333.GAS Pd (match).....: 0.1808 dp (match).....: 10.000
 Analyst name.....: J. Walker Td (match).....: 44.203 dt (match).....: 1.000
 Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic Permeability.....: 3823.994
 Well.....: Anemone # 1A Test.....: DST # 1 Skin.....: 16.474 C (Storage).....: 103.960

Data plotted using Real Elapsed Time and m(p)



File: 73033B.GAS

Test type: CRD

Date: 09/10/89 Time: 18:26

RESULTS FROM A HOMOGENEOUS RESERVOIR TYPE-CURVE MATCH
(WELLBORE STORAGE ANALYSIS)Data plotted using Real Elapsed Time and $m(p)$

Dim. pressure match point $P_d(\text{match})$:	0.1808
Dim. time match point $T_d/C_d(\text{match})$:	44.203
Matched curve $C_{de}2S(\text{match})$:	1.000E+16
Pressure match point $dP(\text{match})$:	10.000
Time match point $dt(\text{match})$:	1.000
Permeability-thickness (kh).....:	19.326 md.ft
Permeability (k).....:	0.2612 md
Apparent wellbore volume.....:	103.960 bbl
Dim. wellbore storage constant (C_d).....:	49.039
Storage coefficient (initial).....:	2.373E-03 bbl/psi
Radius of investigation.....:	119.935 ft
dP skin (constant rate).....:	3823.994 psi
Skin factor (S).....:	16.474

File: 73033C.GAS

Test type: CRB

Date: 10/10/89 Time: 06:21

RESERVOIR CONSTANTS

Formation thickness (h).....:	74.000 ft
Average formation porosity (\emptyset).....:	0.1500
Well radius (rw).....:	0.4000 ft
Gauge depth.....:	4267.000 ft
Datum depth.....:	0.0000 ft

GAS COMPOSITION Mol percent (Optional)

Methane...:	.000	Ethane....:	.000	Propane...:	.000	Iso-Butane:	.000
n-Butane...:	.000	IsoPentane:	.000	n-Pentane..:	.000	Hexanes...:	.000
C 7 +.....:	.000	Nitrogen..:	.000	CO2.....:	.000	H2S.....:	.000
						C7+ mol wt:	.000

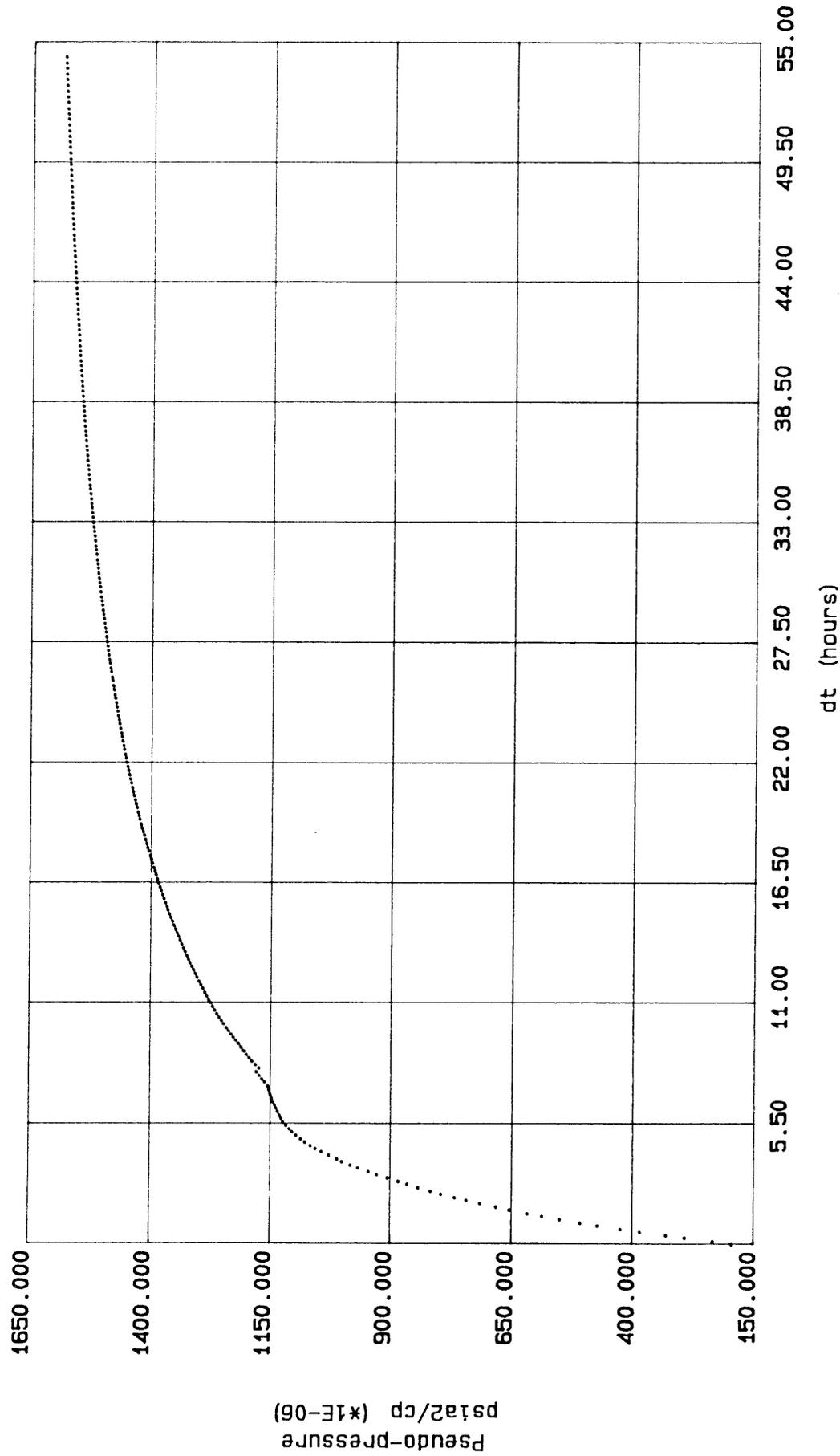
RESERVOIR VARIABLES

Reservoir pressure.....:	9150.000 psia
Temperature (T).....:	260.000 deg F
Water saturation (Sw).....:	0.4000
Water compressibility (Cw).....:	3.500E-06 psi-1
Formation compressibility (Cf).....:	3.500E-06 psi-1
Gas gravity.....:	1.260 sp grav
Initial gas viscosity (ui).....:	0.0667 cp
Initial z-factor (zi).....:	1.526
Gas compressibility (Cg).....:	2.283E-05 psi-1
Initial system compressibility (Ct).....:	1.860E-05 psi-1

PANSYSTEM (C) EPDS 1986, 87, 88.

CARTESIAN PLOT

File.....: 73033C.GAS Field.....: Willcat
Analyst name.....: J.Walker Date.....: 04/10/89
Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic
Well.....: Arname # 1A Test.....: DST # 1



File: 73033C.GAS

Date: 10/10/89 Time: 06:07

Test type: CRB

Data Point	Time Hours	Pressure psia
1.	154.9450	1471.865
2.	155.0730	1636.729
3.	155.2330	1861.498
4.	155.3450	2009.854
5.	155.5050	2212.735
6.	155.6330	2366.706
7.	155.7930	2550.395
8.	155.9210	2689.649
9.	156.0810	2855.933
10.	156.2250	2999.204
11.	156.3530	3122.446
12.	156.5130	3271.056
13.	156.6410	3385.802
14.	156.8010	3524.205
15.	156.9450	3643.501
16.	157.0730	3745.818
17.	157.2330	3868.658
18.	157.3610	3963.241
19.	157.5210	4076.437
20.	157.6650	4174.704
21.	157.7930	4260.067
22.	157.9530	4360.939
23.	158.1130	4459.024
24.	158.2410	4535.950
25.	158.4170	4638.080
26.	158.5450	4709.608
27.	158.7050	4791.810
28.	158.8330	4841.596
29.	158.9930	4918.832
30.	159.1530	4990.961
31.	159.2970	5050.045
32.	159.4250	5098.259
33.	159.6010	5153.423
34.	159.7450	5195.898
35.	159.9050	5242.203
36.	160.0650	5281.742
37.	160.1930	5311.649
38.	160.3530	5345.858
39.	160.5130	5374.301
40.	160.6570	5395.608
41.	160.8010	5413.237
42.	160.9610	5431.177
43.	161.1370	5448.572
44.	161.2810	5461.934
45.	161.4250	5476.395
46.	161.6010	5491.401
47.	161.7450	5506.588
48.	161.9050	5520.816
49.	162.0330	5531.165
50.	162.2250	5565.225

File: 73033C.GAS

Test type: CRB

Date: 10/10/89 Time: 06:07

Data Point	Time Hours	Pressure psia
51.	162.3530	5590.611
52.	162.5130	5618.526
53.	162.6730	5646.149
54.	162.8330	5618.534
55.	162.9930	5656.425
56.	163.1530	5689.929
57.	163.3130	5719.638
58.	163.4730	5748.858
59.	163.6330	5777.399
60.	163.7930	5804.867
61.	163.9530	5831.921
62.	164.1130	5858.571
63.	164.2730	5884.390
64.	164.4330	5908.743
65.	164.5930	5932.789
66.	164.7530	5956.310
67.	164.9450	5984.185
68.	165.1050	6007.236
69.	165.2650	6029.738
70.	165.4250	6052.022
71.	165.6010	6076.024
72.	165.7610	6098.613
73.	165.9370	6121.585
74.	166.0810	6140.472
75.	166.2570	6162.890
76.	166.4010	6181.612
77.	166.5770	6202.068
78.	166.7530	6222.515
79.	166.9130	6241.289
80.	167.1050	6263.364
81.	167.2650	6281.340
82.	167.4410	6300.922
83.	167.6010	6318.655
84.	167.7770	6337.687
85.	167.9370	6354.860
86.	168.0810	6369.751
87.	168.2730	6390.054
88.	168.4330	6406.755
89.	168.6250	6426.256
90.	168.8010	6443.878
91.	168.9770	6461.200
92.	169.1370	6476.697
93.	169.2970	6491.907
94.	169.4730	6508.256
95.	169.6650	6525.897
96.	169.8410	6542.331
97.	170.0170	6557.906
98.	170.1930	6573.401
99.	170.3370	6585.949
100.	170.5130	6601.124

File: 73033C.GAS

Date: 10/10/89 Time: 06:07

Test type: CRB

Data Point	Time Hours	Pressure psia
101.	170.7050	6617.272
102.	170.8810	6632.618
103.	171.0730	6648.128
104.	171.2330	6660.915
105.	171.4250	6675.941
106.	171.6010	6689.648
107.	171.7930	6704.204
108.	171.9370	6715.083
109.	172.1130	6728.048
110.	172.3210	6743.181
111.	172.4970	6755.799
112.	172.6570	6767.115
113.	172.8650	6781.685
114.	173.0410	6793.870
115.	173.2170	6805.873
116.	173.3930	6817.880
117.	173.6010	6832.087
118.	173.7770	6843.774
119.	173.9530	6854.912
120.	174.1130	6864.991
121.	174.3370	6878.790
122.	174.5130	6889.341
123.	174.6730	6898.982
124.	174.8810	6911.175
125.	175.0570	6921.235
126.	175.2330	6931.111
127.	175.4410	6942.866
128.	175.6170	6952.538
129.	175.7930	6962.123
130.	176.0010	6973.190
131.	176.1930	6983.420
132.	176.3850	6993.302
133.	176.5770	7003.064
134.	176.7530	7011.813
135.	176.9610	7022.230
136.	177.1530	7031.677
137.	177.3130	7039.291
138.	177.5370	7050.146
139.	177.7130	7058.456
140.	177.9210	7067.923
141.	178.1130	7076.465
142.	178.2730	7083.840
143.	178.4970	7093.578
144.	178.7050	7102.565
145.	178.8810	7110.248
146.	179.0730	7118.235
147.	179.2810	7127.003
148.	179.4730	7135.008
149.	179.6650	7142.572
150.	179.8730	7150.944

File: 73033C.GAS

Date: 10/10/89 Time: 06:07

Test type: CRB

Data Point	Time Hours	Pressure psia
151.	180.0330	7157.430
152.	180.2570	7166.095
153.	180.4330	7172.924
154.	180.6730	7182.023
155.	180.8330	7188.137
156.	181.0730	7197.075
157.	181.2330	7202.965
158.	181.4730	7211.581
159.	181.6330	7217.194
160.	181.8570	7225.018
161.	182.0650	7232.239
162.	182.2730	7239.423
163.	182.4650	7245.965
164.	182.6730	7252.735
165.	182.8810	7259.545
166.	183.0730	7265.811
167.	183.2810	7272.434
168.	183.5050	7279.665
169.	183.7130	7286.077
170.	183.9050	7292.059
171.	184.1130	7298.408
172.	184.3210	7304.672
173.	184.5130	7310.353
174.	184.7370	7316.796
175.	184.9450	7322.845
176.	185.1530	7329.888
177.	185.3770	7335.893
178.	185.5850	7341.376
179.	185.7930	7346.912
180.	186.0010	7352.601
181.	186.1930	7357.659
182.	186.4330	7363.920
183.	186.6410	7369.346
184.	186.8330	7374.202
185.	187.0730	7380.391
186.	187.2810	7385.667
187.	187.5050	7391.211
188.	187.7130	7396.580
189.	187.9210	7401.769
190.	188.1450	7407.139
191.	188.3530	7412.077
192.	188.5930	7417.702
193.	188.7850	7422.222
194.	188.9930	7427.048
195.	189.2330	7432.561
196.	189.4570	7437.593
197.	189.6330	7441.430
198.	189.9050	7447.327
199.	190.1130	7451.813
200.	190.3370	7456.505

File: 73033C.GAS

Date: 10/10/89 Time: 06:07

Test type: CRB

Data Point	Time Hours	Pressure psia
201.	190.5450	7460.788
202.	190.7850	7465.863
203.	190.9930	7470.047
204.	191.2330	7474.842
205.	191.4410	7478.913
206.	191.6810	7483.595
207.	191.9050	7487.857
208.	192.1130	7491.714
209.	192.3530	7496.131
210.	192.5770	7500.204
211.	192.8010	7504.177
212.	193.0410	7508.466
213.	193.2650	7512.402
214.	193.4730	7515.956
215.	193.7130	7520.199
216.	193.9530	7524.376
217.	194.1770	7528.199
218.	194.4010	7532.099
219.	194.6570	7536.521
220.	194.8810	7540.294
221.	195.1210	7544.195
222.	195.3450	7547.739
223.	195.5850	7551.589
224.	195.7930	7554.841
225.	196.0330	7558.439
226.	196.2730	7561.907
227.	196.5130	7565.415
228.	196.7530	7569.037
229.	196.9770	7572.330
230.	197.2170	7575.814
231.	197.4570	7579.285
232.	197.6810	7582.373
233.	197.9210	7585.820
234.	198.1610	7589.229
235.	198.4010	7592.649
236.	198.6410	7596.699
237.	198.8810	7599.866
238.	199.1210	7603.186
239.	199.3770	7606.698
240.	199.6170	7609.917
241.	199.8570	7613.214
242.	200.1130	7616.497
243.	200.3530	7619.819
244.	200.5930	7622.848
245.	200.8650	7626.222
246.	201.0730	7628.931
247.	201.3450	7632.370
248.	201.5850	7635.417
249.	201.8410	7638.640
250.	202.0810	7641.350

File: 73033C.GAS

Date: 10/10/89 Time: 06:07

Test type: CRB

Data Point	Time Hours	Pressure psia
251.	202.3370	7644.458
252.	202.5610	7646.976
253.	202.8330	7650.123
254.	203.0730	7652.810
255.	203.3130	7655.521
256.	203.6010	7658.784
257.	203.8410	7661.457
258.	204.0970	7664.414
259.	204.3370	7667.140
260.	204.5930	7670.236
261.	204.8650	7673.347
262.	205.1210	7676.290
263.	205.3770	7679.119
264.	205.6330	7682.269
265.	205.8730	7684.920
266.	206.1450	7687.787
267.	206.4170	7690.809
268.	206.6570	7693.499
269.	206.8970	7696.098
270.	207.1850	7699.173
271.	207.4410	7701.941
272.	207.6970	7704.695
273.	207.9530	7707.309
274.	208.2410	7710.294
275.	208.4810	7712.716
276.	208.7530	7715.562
277.	208.9930	7717.779
278.	209.2810	7720.586

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033C.GAS

Date: 10/10/89 Time: 06:21

Test type: CRB

RESULTS FROM LOG-LOG ANALYSIS

Line :

Intercept.....:	2.522
Slope.....:	1.000
Apparent wellbore volume.....:	764.091 bbl
Dim. wellbore storage constant (Cd).....:	360.426
Storage coefficient (initial).....:	0.0174 bbl/psi

File: 73033C.GAS

Date: 10/10/89 Time: 06:26

Test type: CRB

RESULTS FROM HORNER ANALYSIS
using Pseudo-pressure and Real time

Line :

Intercept.....:	1704.589	
Slope.....:	-1258.957	
Start of line.....:(	0.1766 ,	1482.065)
End of line.....:(	0.1382 ,	1530.493)
Coefficient of determination.....:	1.0000	
Number of points.....:	43	
m(p) at dt = 1 hr.....:	261.923 psia ² /cp	(*1E-06)
Extrapolated m(p).....:	1704.589 psia ² /cp	(*1E-06)
Permeability-thickness (kh).....:	0.9778 md.ft	
Permeability (k).....:	0.0132 md	
Total skin factor (s).....:	-2.656	
dP skin (constant rate).....:	-1479.609 psi	
Radius of investigation.....:	26.977 ft	
Extrapolated pressure.....:	8369.525 psia	
Pressure at dt = 1 hour.....:	1744.844 psia	

File: 73033C.GAS

Test type: CRB

Date: 10/10/89 Time: 06:32

RESULTS FROM SEMILOG ANALYSIS
using Pseudo-pressure and Real time

Line :

Intercept.....:	1162.527
Slope.....:	242.606
Start of line.....:(	1.701 , 1575.052)
End of line.....:(	1.735 , 1583.418)
Coefficient of determination.....:	0.9998
Number of points.....:	17
m(p) at dt = 1 hr.....:	1162.527 psia ² /cp (*1E-06)
Computed initial pressure.....:	6972.559 psia
Permeability-thickness (kh).....:	5.074 md.ft
Permeability (k).....:	0.0686 md
Total skin factor (s).....:	1.113
dP skin (constant rate).....:	910.651 psi
Radius of investigation.....:	61.455 ft
Pressure at dt = 1 hour.....:	5572.109 psia

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 73033C.GAS

Test type: CRB

Date: 10/10/89 Time: 06:40

RESULTS FROM A HOMOGENEOUS RESERVOIR TYPE-CURVE MATCH
(WELLBORE STORAGE ANALYSIS)

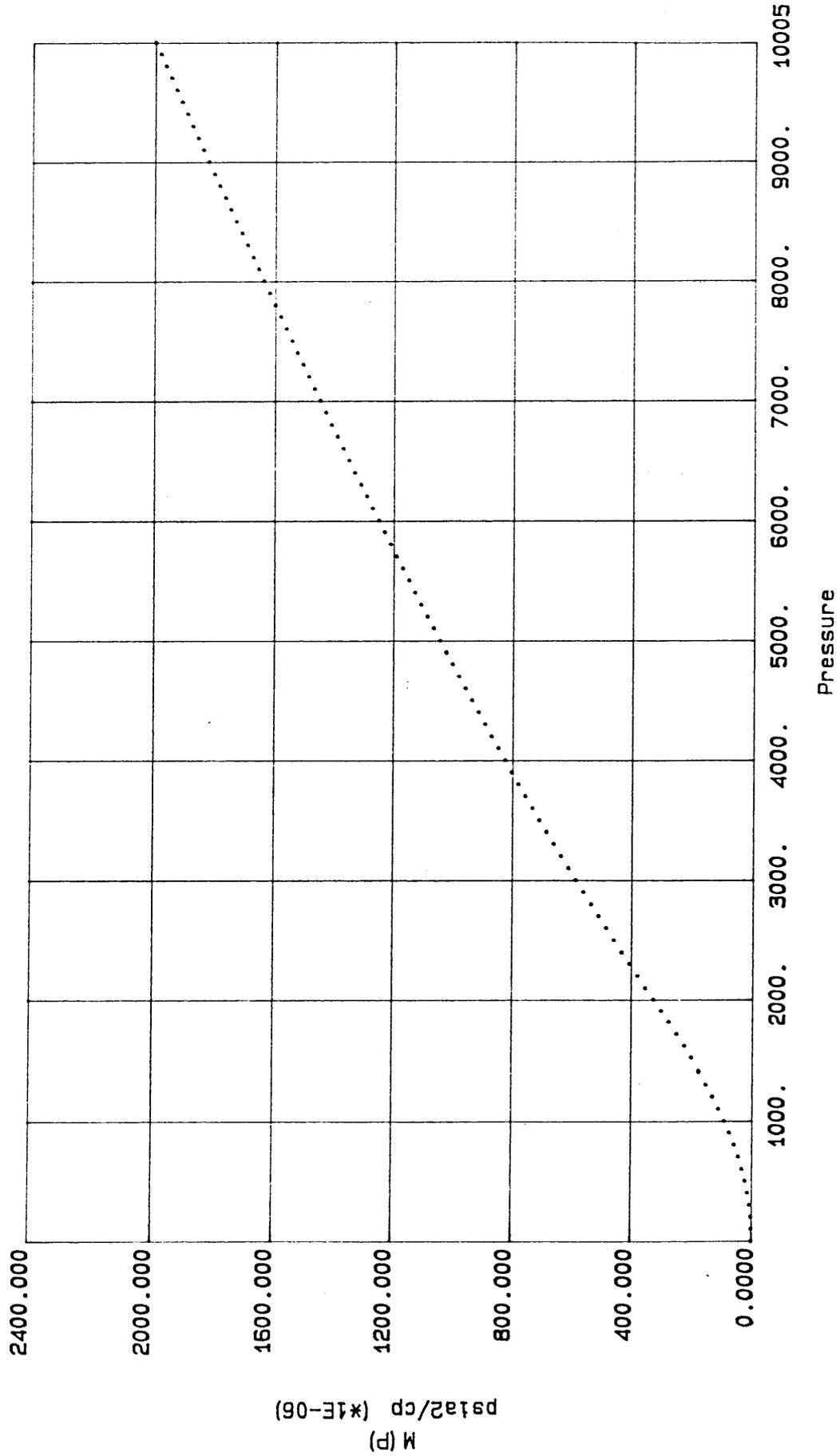
Data plotted using Real Elapsed Time and $m(p)$

Dim. pressure match point $P_d(\text{match})$:	0.0523
Dim. time match point $T_d/C_d(\text{match})$:	1.760
Matched curve $C_{de2S}(\text{match})$:	10000.000
Pressure match point $dP(\text{match})$:	10.000
Time match point $dt(\text{match})$:	1.000
Permeability-thickness (kh).....:	5.589 md.ft
Permeability (k).....:	0.0755 md
Apparent wellbore volume.....:	755.253 bbl
Dim. wellbore storage constant (Cd).....:	356.258
Storage coefficient (initial).....:	0.0172 bbl/psi
Radius of investigation.....:	64.500 ft
dP skin (constant rate).....:	1238.593 psi
Skin factor (S).....:	1.667

PANSYSTEM (C) EPDS 1986, 87, 88.

M (P) V PRESSURE

File.....: 73033A.GAS
Analyst name.....: J.Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: Willcat
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1



File: 73033A.GAS

Date: 09/10/89 Time: 10:12

Test type: CRB

Data Point	Pressure psia	$\mu(p)$ psia ² /cp (*1E-0)
1.	.000	.000
2.	100.000	.874
3.	200.000	3.539
4.	300.000	8.031
5.	400.000	14.351
6.	500.000	22.635
7.	600.000	32.774
8.	700.000	44.838
9.	800.000	58.821
10.	900.000	74.653
11.	1000.000	92.181
12.	1100.000	111.324
13.	1200.000	132.015
14.	1300.000	153.952
15.	1400.000	176.910
16.	1500.000	200.734
17.	1600.000	225.293
18.	1700.000	250.443
19.	1800.000	276.042
20.	1900.000	301.955
21.	2000.000	328.075
22.	2100.000	354.314
23.	2200.000	380.580
24.	2300.000	406.793
25.	2400.000	432.888
26.	2500.000	458.814
27.	2600.000	484.543
28.	2700.000	510.146
29.	2800.000	535.598
30.	2900.000	560.871
31.	3000.000	585.943
32.	3100.000	610.797
33.	3200.000	635.420
34.	3300.000	659.801
35.	3400.000	683.933
36.	3500.000	707.812
37.	3600.000	731.433
38.	3700.000	754.794
39.	3800.000	777.896
40.	3900.000	800.784
41.	4000.000	823.537
42.	4100.000	846.154
43.	4200.000	868.631
44.	4300.000	890.965
45.	4400.000	913.153
46.	4500.000	935.194
47.	4600.000	957.086
48.	4700.000	978.828
49.	4800.000	1000.420
50.	4900.000	1021.860

File: 73033A.GAS

test type: CRB

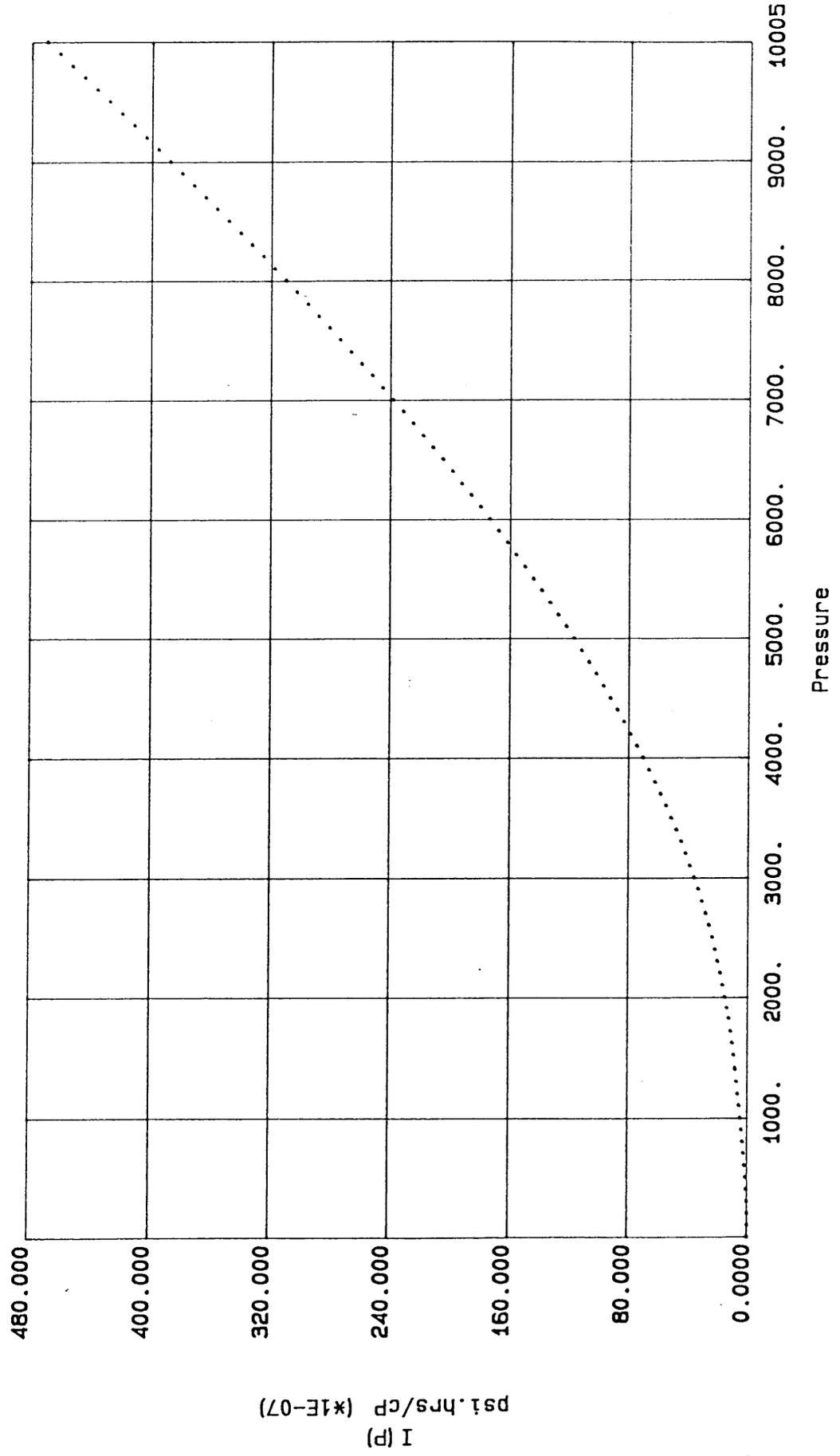
Date: 09/10/89 Time: 10:12

Data Point	Pressure psia	m(p) psia ² /cp (*1E-0)
51.	5000.000	1043.150
52.	5100.000	1064.289
53.	5200.000	1085.302
54.	5300.000	1106.207
55.	5400.000	1127.003
56.	5500.000	1147.690
57.	5600.000	1168.266
58.	5700.000	1188.733
59.	5800.000	1209.089
60.	5900.000	1229.334
61.	6000.000	1249.469
62.	6100.000	1269.494
63.	6200.000	1289.410
64.	6300.000	1309.215
65.	6400.000	1328.915
66.	6500.000	1348.547
67.	6600.000	1368.123
68.	6700.000	1387.641
69.	6800.000	1407.101
70.	6900.000	1426.501
71.	7000.000	1445.842
72.	7100.000	1465.124
73.	7200.000	1484.345
74.	7300.000	1503.505
75.	7400.000	1522.605
76.	7500.000	1541.644
77.	7600.000	1560.621
78.	7700.000	1579.537
79.	7800.000	1598.391
80.	7900.000	1617.184
81.	8000.000	1635.915
82.	8100.000	1654.585
83.	8200.000	1673.192
84.	8300.000	1691.738
85.	8400.000	1710.222
86.	8500.000	1728.645
87.	8600.000	1747.005
88.	8700.000	1765.305
89.	8800.000	1783.542
90.	8900.000	1801.719
91.	9000.000	1819.835
92.	9100.000	1837.889
93.	9200.000	1855.883
94.	9300.000	1873.816
95.	9400.000	1891.688
96.	9500.000	1909.500
97.	9600.000	1927.256
98.	9700.000	1944.979
99.	9800.000	1962.673
100.	9900.000	1980.337

PANSYSTEM (C) EPDS 1986, 87, 88.

I (P) V PRESSURE

File.....: 73033A.SAS
Analyst name.....: J.Walker
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1A
Field.....: Wildcat
Date.....: 04/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST # 1



File: 73033A.GAS

Date: 09/10/89 Time: 09:28

Test type: CRB

Data Point	Pressure psia	I(p) psi.hrs/cP (*1E)
1.	.000	.000
2.	100.000	.070
3.	200.000	.274
4.	300.000	.600
5.	400.000	1.034
6.	500.000	1.566
7.	600.000	2.179
8.	700.000	2.859
9.	800.000	3.599
10.	900.000	4.382
11.	1000.000	5.195
12.	1100.000	6.036
13.	1200.000	6.905
14.	1300.000	7.800
15.	1400.000	8.728
16.	1500.000	9.701
17.	1600.000	10.731
18.	1700.000	11.833
19.	1800.000	13.018
20.	1900.000	14.297
21.	2000.000	15.679
22.	2100.000	17.175
23.	2200.000	18.791
24.	2300.000	20.532
25.	2400.000	22.402
26.	2500.000	24.405
27.	2600.000	26.543
28.	2700.000	28.826
29.	2800.000	31.256
30.	2900.000	33.830
31.	3000.000	36.548
32.	3100.000	39.408
33.	3200.000	42.406
34.	3300.000	45.540
35.	3400.000	48.806
36.	3500.000	52.200
37.	3600.000	55.719
38.	3700.000	59.358
39.	3800.000	63.114
40.	3900.000	66.990
41.	4000.000	70.997
42.	4100.000	75.131
43.	4200.000	79.389
44.	4300.000	83.768
45.	4400.000	88.264
46.	4500.000	92.873
47.	4600.000	97.593
48.	4700.000	102.419
49.	4800.000	107.348
50.	4900.000	112.377

File: 73033A.GAS

Date: 09/10/89 Time: 09:28

test type: CRB

Data Point	Pressure psia	I(p psi.hrs/cP (*1E
51.	5000.000	117.503
52.	5100.000	122.723
53.	5200.000	128.040
54.	5300.000	133.454
55.	5400.000	138.965
56.	5500.000	144.568
57.	5600.000	150.262
58.	5700.000	156.042
59.	5800.000	161.908
60.	5900.000	167.856
61.	6000.000	173.884
62.	6100.000	179.989
63.	6200.000	186.170
64.	6300.000	192.423
65.	6400.000	198.747
66.	6500.000	205.154
67.	6600.000	211.643
68.	6700.000	218.214
69.	6800.000	224.865
70.	6900.000	231.593
71.	7000.000	238.397
72.	7100.000	245.274
73.	7200.000	252.224
74.	7300.000	259.244
75.	7400.000	266.332
76.	7500.000	273.488
77.	7600.000	280.708
78.	7700.000	287.992
79.	7800.000	295.339
80.	7900.000	302.746
81.	8000.000	310.211
82.	8100.000	317.734
83.	8200.000	325.314
84.	8300.000	332.948
85.	8400.000	340.635
86.	8500.000	348.374
87.	8600.000	356.163
88.	8700.000	364.002
89.	8800.000	371.889
90.	8900.000	379.822
91.	9000.000	387.801
92.	9100.000	395.825
93.	9200.000	403.891
94.	9300.000	411.999
95.	9400.000	420.149
96.	9500.000	428.338
97.	9600.000	436.567
98.	9700.000	444.847
99.	9800.000	453.178
100.	9900.000	461.559

File: 73033A.GAS

Test type: CRB

Date: 09/10/89 Time: 09:27

Data Point	Pressure psia	Gas viscosity cp	Z-Factor
1.	.000	.012	1.000
2.	50.000	.012	.987
3.	100.000	.012	.975
4.	150.000	.012	.962
5.	200.000	.012	.949
6.	250.000	.012	.936
7.	300.000	.012	.923
8.	350.000	.012	.909
9.	400.000	.012	.896
10.	450.000	.012	.882
11.	500.000	.012	.869
12.	550.000	.013	.855
13.	600.000	.013	.842
14.	650.000	.013	.828
15.	700.000	.013	.814
16.	750.000	.013	.801
17.	800.000	.014	.787
18.	850.000	.014	.773
19.	900.000	.014	.760
20.	950.000	.015	.747
21.	1000.000	.015	.734
22.	1050.000	.015	.721
23.	1100.000	.016	.709
24.	1150.000	.016	.697
25.	1200.000	.016	.686
26.	1250.000	.017	.676
27.	1300.000	.017	.666
28.	1350.000	.018	.657
29.	1400.000	.018	.650
30.	1450.000	.019	.642
31.	1500.000	.019	.636
32.	1550.000	.020	.631
33.	1600.000	.021	.626
34.	1650.000	.021	.623
35.	1700.000	.022	.620
36.	1750.000	.022	.618
37.	1800.000	.023	.616
38.	1850.000	.023	.616
39.	1900.000	.024	.616
40.	1950.000	.024	.616
41.	2000.000	.025	.617
42.	2050.000	.025	.618
43.	2100.000	.026	.620
44.	2150.000	.026	.623
45.	2200.000	.027	.625
46.	2250.000	.027	.628
47.	2300.000	.028	.632
48.	2350.000	.028	.635
49.	2400.000	.029	.639
50.	2450.000	.029	.643

File: 73033A.GAS

Test type: CRB

Date: 09/10/89 Time: 09:27

Data Point	Pressure psia	Gas viscosity cp	Z-Factor
51.	2500.000	.030	.648
52.	2550.000	.030	.652
53.	2600.000	.031	.657
54.	2650.000	.031	.662
55.	2700.000	.032	.667
56.	2750.000	.032	.673
57.	2800.000	.033	.678
58.	2850.000	.033	.683
59.	2900.000	.033	.689
60.	2950.000	.034	.695
61.	3000.000	.034	.701
62.	3050.000	.035	.707
63.	3100.000	.035	.712
64.	3150.000	.036	.719
65.	3200.000	.036	.725
66.	3250.000	.036	.731
67.	3300.000	.037	.737
68.	3350.000	.037	.743
69.	3400.000	.038	.750
70.	3450.000	.038	.756
71.	3500.000	.039	.763
72.	3550.000	.039	.769
73.	3600.000	.040	.776
74.	3650.000	.040	.782
75.	3700.000	.040	.789
76.	3750.000	.041	.795
77.	3800.000	.041	.802
78.	3850.000	.042	.808
79.	3900.000	.042	.815
80.	3950.000	.042	.822
81.	4000.000	.043	.829
82.	4050.000	.043	.835
83.	4100.000	.043	.842
84.	4150.000	.044	.849
85.	4200.000	.044	.855
86.	4250.000	.044	.862
87.	4300.000	.044	.869
88.	4350.000	.045	.876
89.	4400.000	.045	.883
90.	4450.000	.045	.889
91.	4500.000	.046	.896
92.	4550.000	.046	.903
93.	4600.000	.046	.910
94.	4650.000	.047	.917
95.	4700.000	.047	.924
96.	4750.000	.047	.930
97.	4800.000	.048	.937
98.	4850.000	.048	.944
99.	4900.000	.048	.951
100.	4950.000	.049	.958

File: 73033A.GAS

Test type: CRB

Date: 09/10/89 Time: 09:27

Data Point	Pressure psia	Gas viscosity cp	Z-Factor
101.	5000.000	.049	.965
102.	5050.000	.049	.972
103.	5100.000	.049	.978
104.	5150.000	.050	.985
105.	5200.000	.050	.992
106.	5250.000	.050	.999
107.	5300.000	.051	1.006
108.	5350.000	.051	1.013
109.	5400.000	.051	1.020
110.	5450.000	.051	1.027
111.	5500.000	.052	1.033
112.	5550.000	.052	1.040
113.	5600.000	.052	1.047
114.	5650.000	.052	1.054
115.	5700.000	.053	1.061
116.	5750.000	.053	1.068
117.	5800.000	.053	1.075
118.	5850.000	.053	1.081
119.	5900.000	.054	1.088
120.	5950.000	.054	1.095
121.	6000.000	.054	1.102
122.	6050.000	.054	1.109
123.	6100.000	.055	1.116
124.	6150.000	.055	1.122
125.	6200.000	.055	1.129
126.	6250.000	.056	1.136
127.	6300.000	.056	1.143
128.	6350.000	.056	1.150
129.	6400.000	.056	1.157
130.	6450.000	.056	1.163
131.	6500.000	.057	1.170
132.	6550.000	.057	1.177
133.	6600.000	.057	1.184
134.	6650.000	.057	1.191
135.	6700.000	.057	1.197
136.	6750.000	.058	1.204
137.	6800.000	.058	1.211
138.	6850.000	.058	1.218
139.	6900.000	.058	1.225
140.	6950.000	.058	1.231
141.	7000.000	.059	1.238
142.	7050.000	.059	1.245
143.	7100.000	.059	1.252
144.	7150.000	.059	1.258
145.	7200.000	.059	1.265
146.	7250.000	.059	1.272
147.	7300.000	.060	1.279
148.	7350.000	.060	1.285
149.	7400.000	.060	1.292
150.	7450.000	.060	1.299

File: 73033A.GAS

Date: 09/10/89 Time: 09:27

Test type: CRB

Data Point	Pressure psia	Gas viscosity cp	Z-Factor
151.	7500.000	.060	1.306
152.	7550.000	.061	1.312
153.	7600.000	.061	1.319
154.	7650.000	.061	1.326
155.	7700.000	.061	1.333
156.	7750.000	.061	1.339
157.	7800.000	.062	1.346
158.	7850.000	.062	1.353
159.	7900.000	.062	1.359
160.	7950.000	.062	1.366
161.	8000.000	.062	1.373
162.	8050.000	.063	1.379
163.	8100.000	.063	1.386
164.	8150.000	.063	1.393
165.	8200.000	.063	1.399
166.	8250.000	.063	1.406
167.	8300.000	.063	1.413
168.	8350.000	.064	1.419
169.	8400.000	.064	1.426
170.	8450.000	.064	1.433
171.	8500.000	.064	1.439
172.	8550.000	.064	1.446
173.	8600.000	.065	1.453
174.	8650.000	.065	1.459
175.	8700.000	.065	1.466
176.	8750.000	.065	1.473
177.	8800.000	.065	1.479
178.	8850.000	.066	1.486
179.	8900.000	.066	1.493
180.	8950.000	.066	1.499
181.	9000.000	.066	1.506
182.	9050.000	.066	1.512
183.	9100.000	.066	1.519
184.	9150.000	.067	1.526
185.	9200.000	.067	1.532
186.	9250.000	.067	1.539
187.	9300.000	.067	1.545
188.	9350.000	.067	1.552
189.	9400.000	.068	1.558
190.	9450.000	.068	1.565
191.	9500.000	.068	1.572
192.	9550.000	.068	1.578
193.	9600.000	.068	1.585
194.	9650.000	.068	1.591
195.	9700.000	.069	1.598
196.	9750.000	.069	1.604
197.	9800.000	.069	1.611
198.	9850.000	.069	1.617
199.	9900.000	.069	1.624
200.	9950.000	.069	1.631

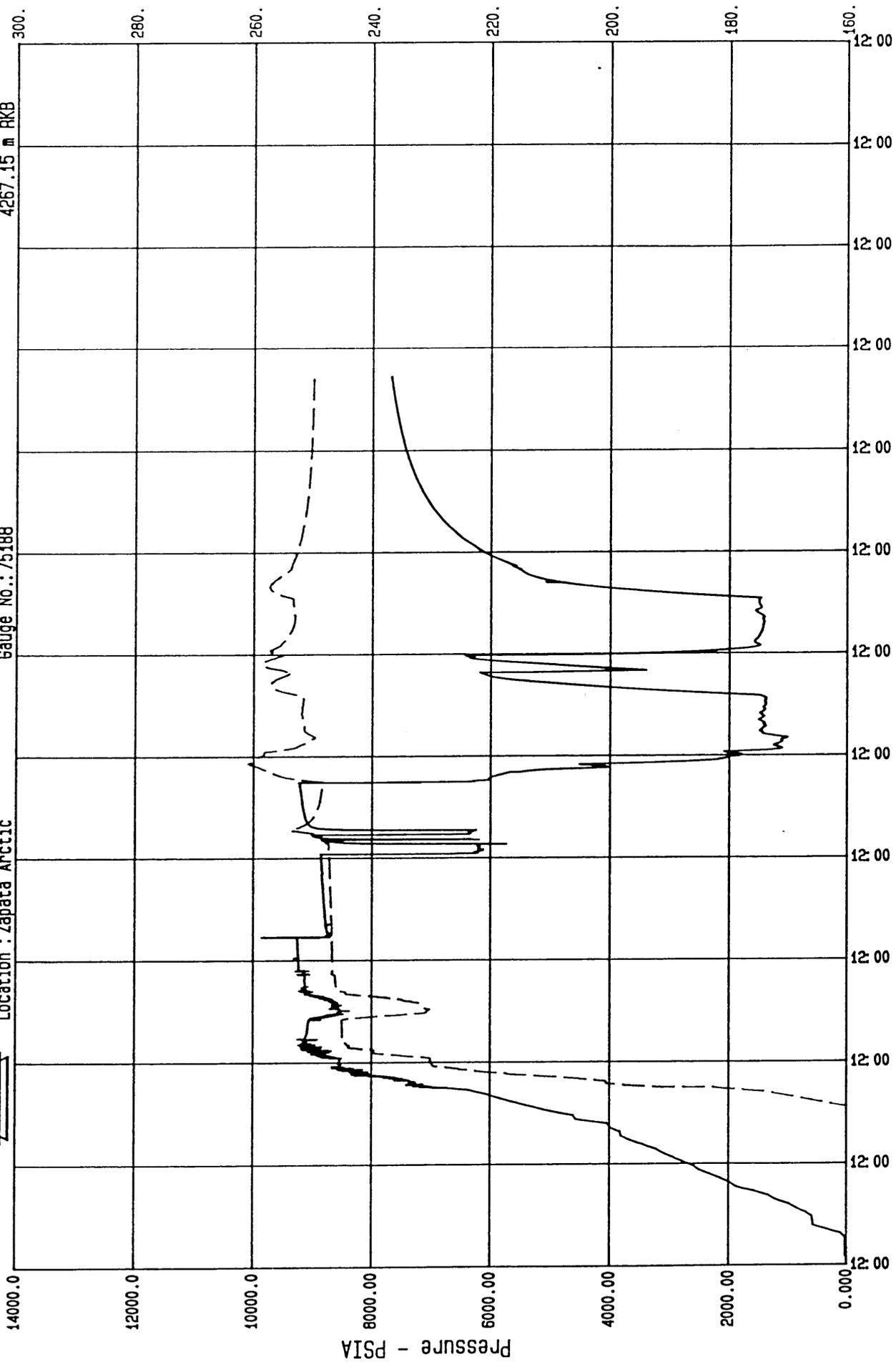


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

L. J. J. Walker
Date : 22/09/89
Recorder : Memory Gauge
Gauge No. : 75188

Comments : Sensing Depth
4267.15 m RKB



Real Time (24.00 hours per division)

Report: v0.35

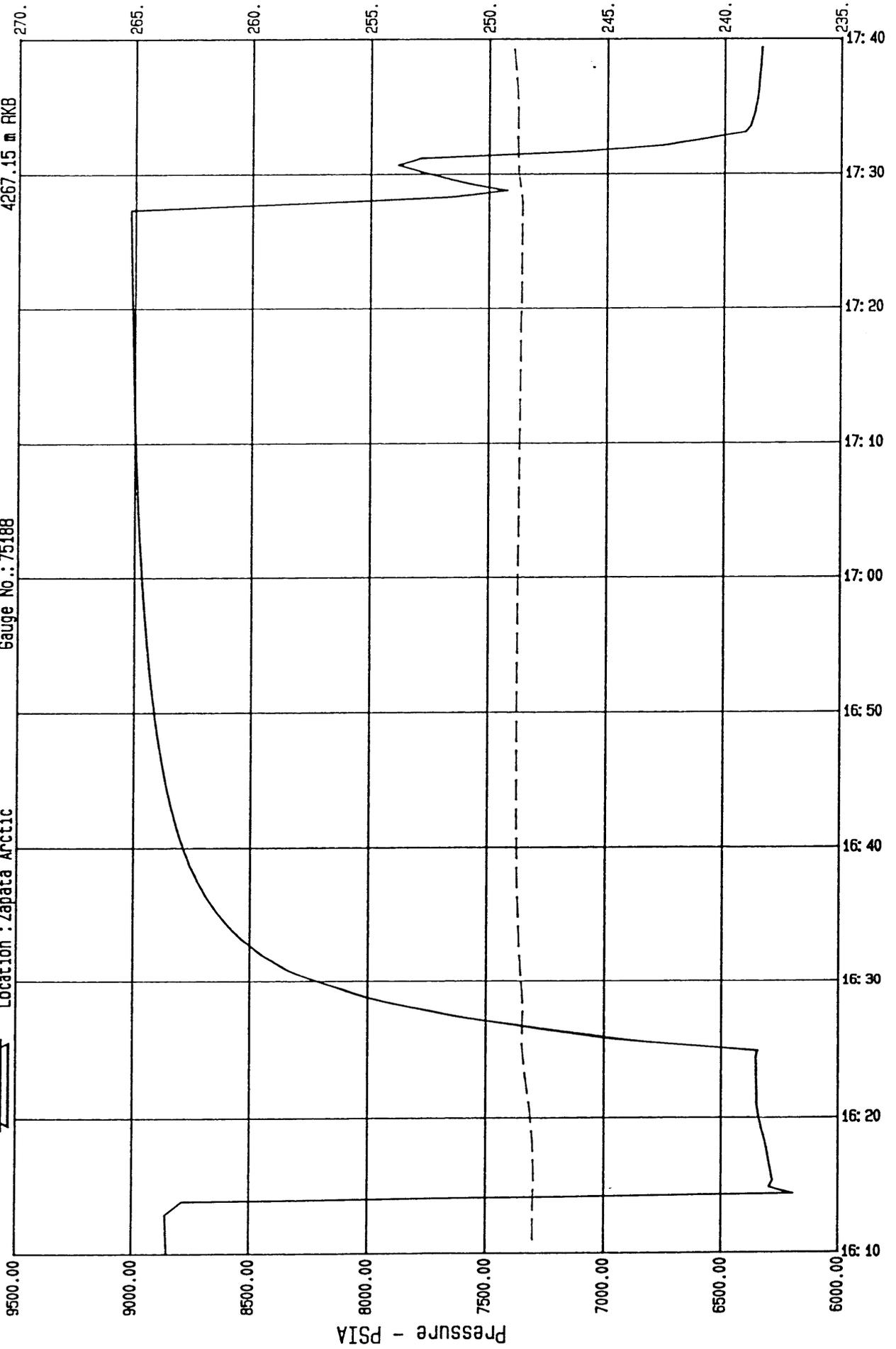


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J.Walker
Date : 26/09/89
Recorder : Memory Gauge
Gauge No. : 75188

Comments : Sensing Depth
4267.15 m RKB



Real Time (0.167 hours per division)

Report# 10.35

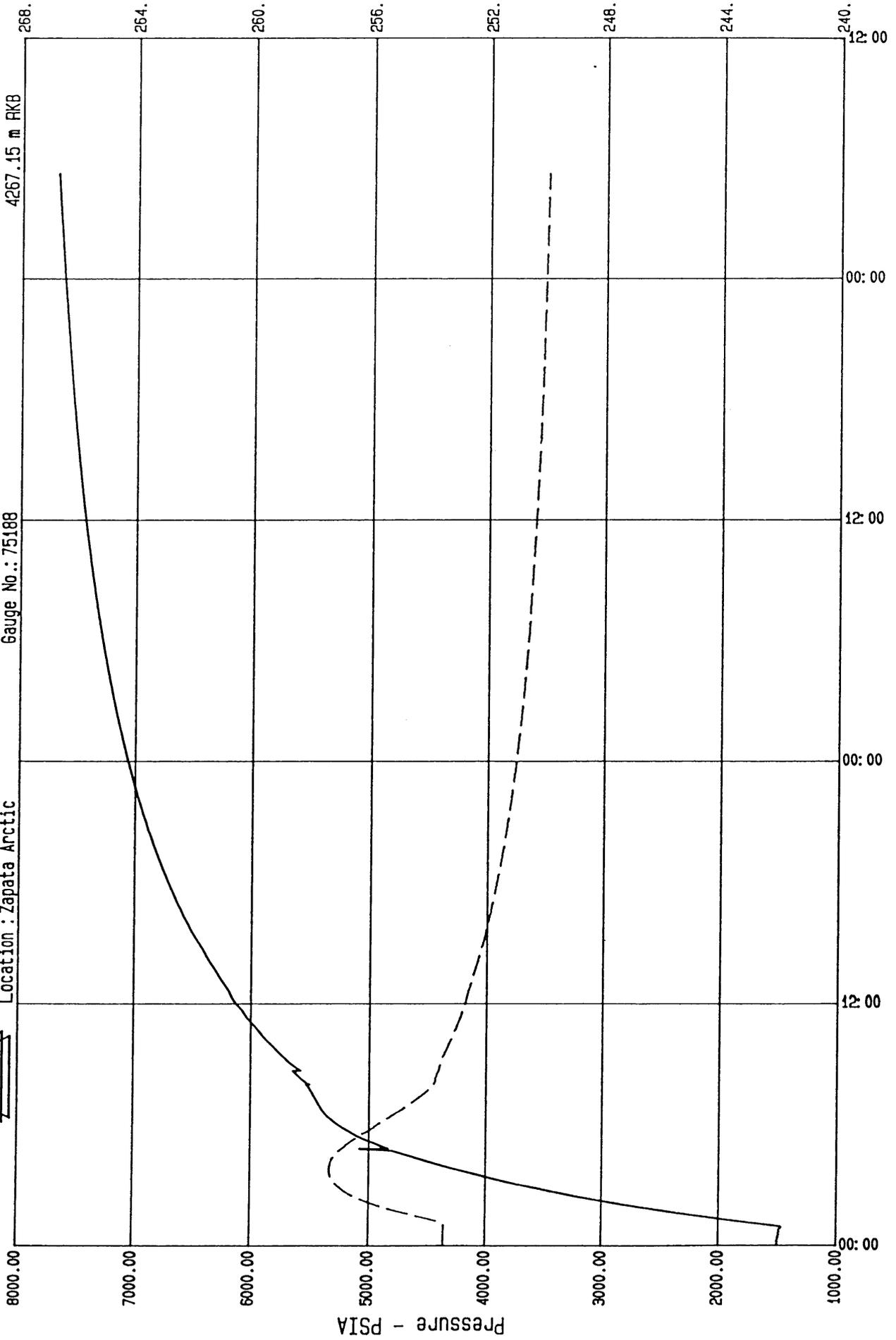


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 29/09/89
Recorder : Memory Gauge
Gauge No. : 75188

Comments : Sensing Depth
4267.15 m RKB



Real Time (12.00 hours per division)

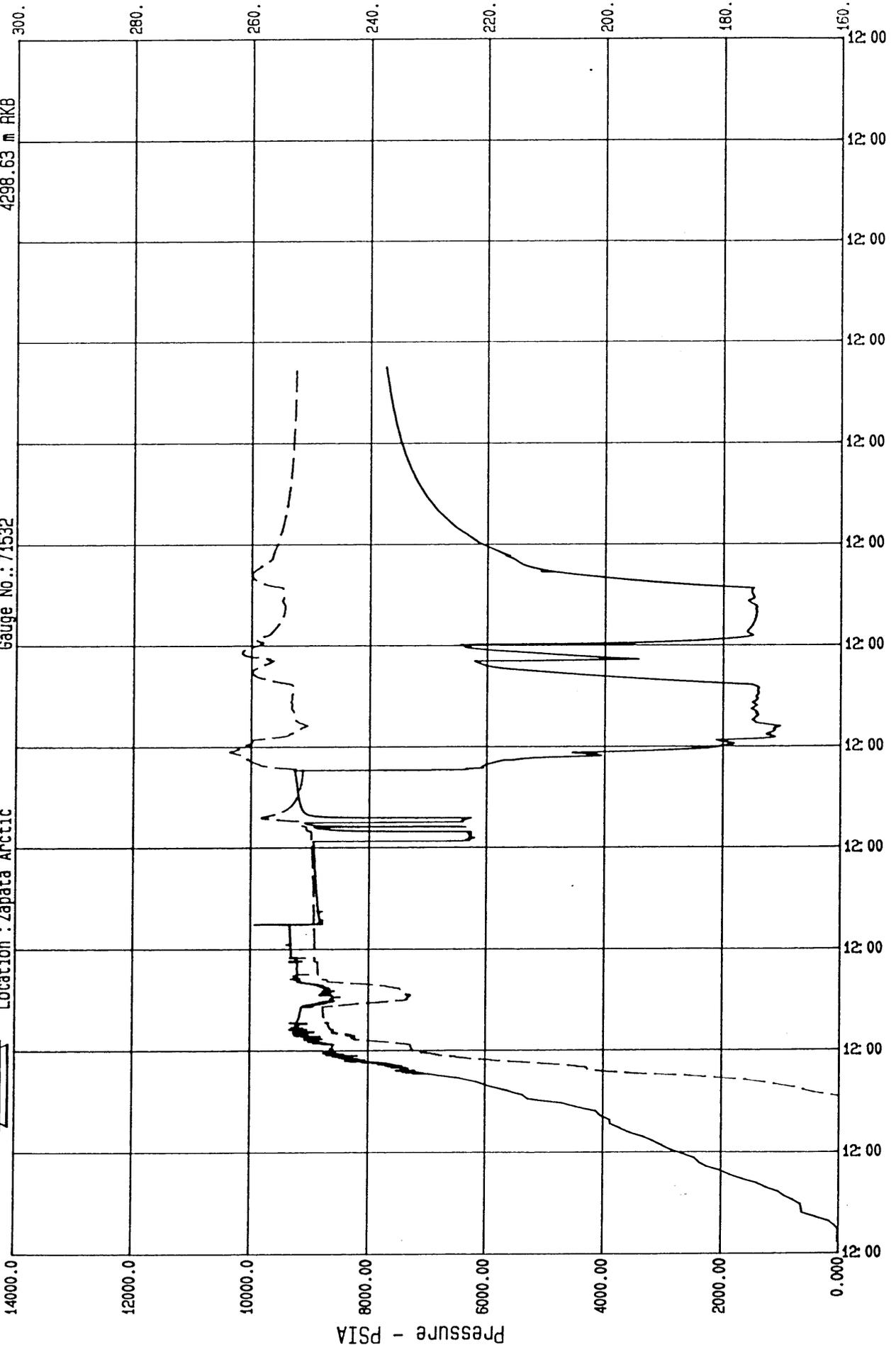


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J.Walker
Date : 22/09/89
Recorder : Memory Gauge
Gauge No. : 71532

Comments : Sensing Depth
4298.63 m RKB



Real Time (24.00 hours per division)

Report v0.35

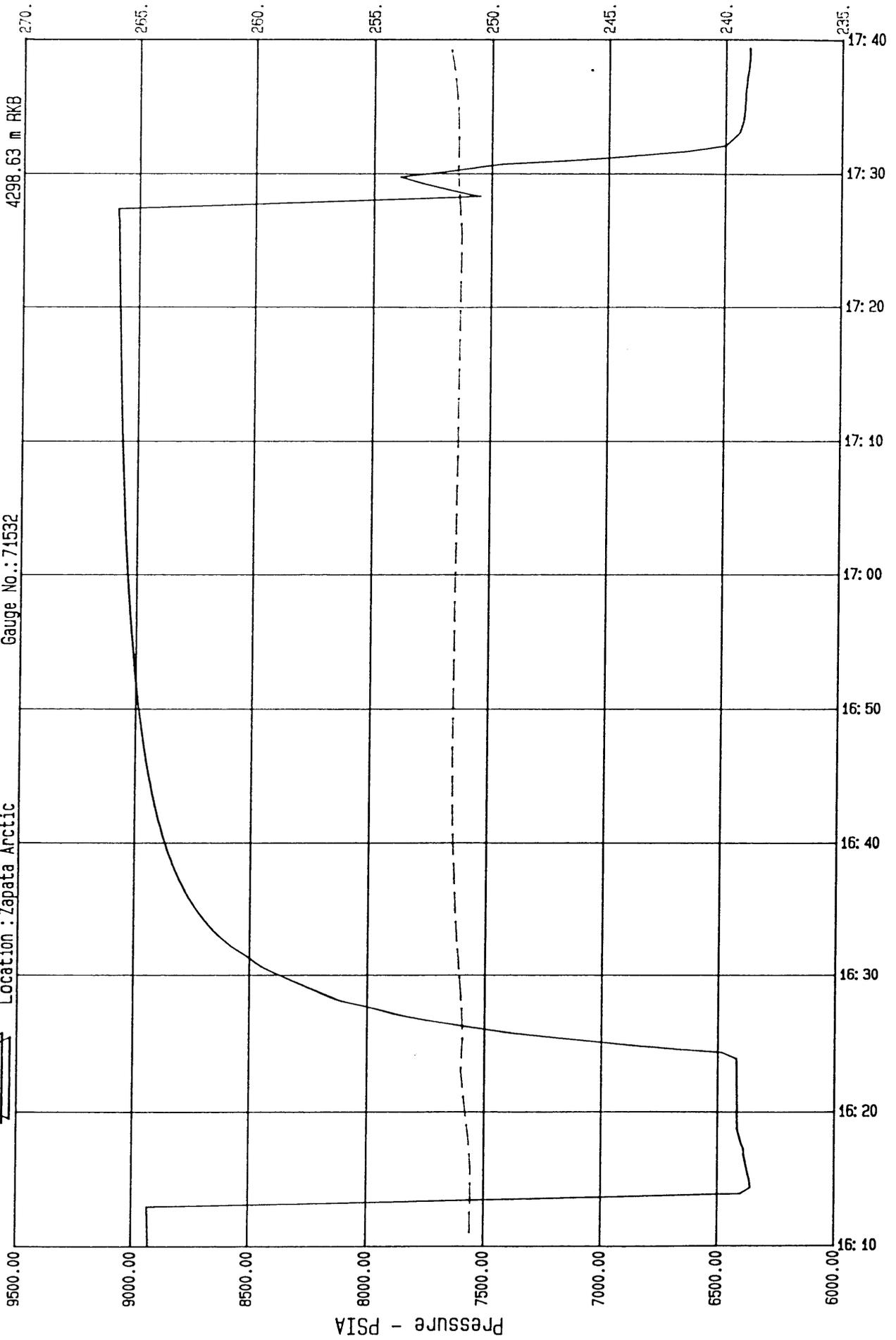


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 26/09/89
Recorder : Memory Gauge
Gauge No. : 71532

Comments : Sensing Depth
4298.63 m RKB



Real Time (0.167 hours per division)

Report# v0.35

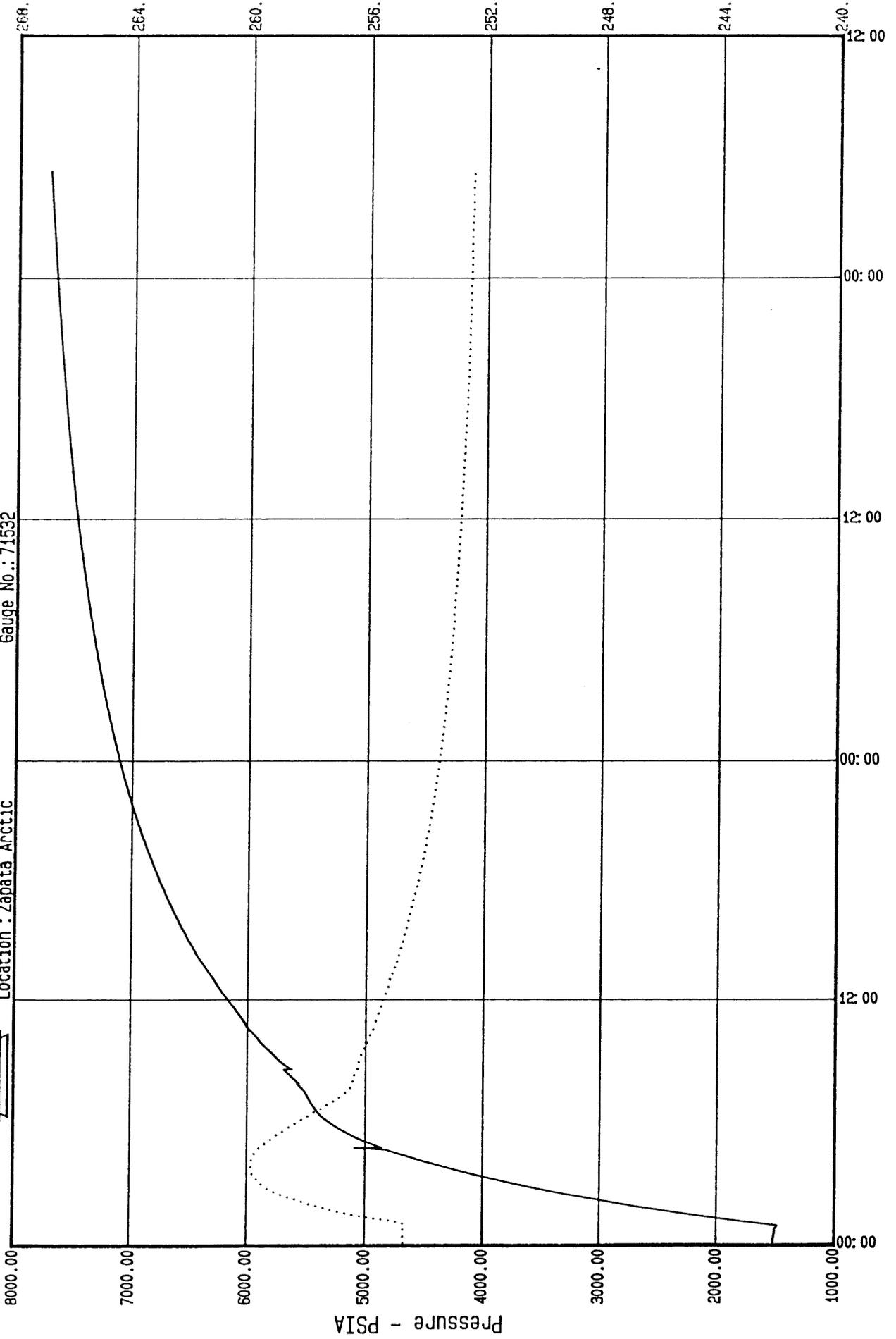


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 29/09/89
Recorder : Memory Gauge
Gauge No. : 71532

Comments :



Real Time (12.00 hours per division)

Report v0.35

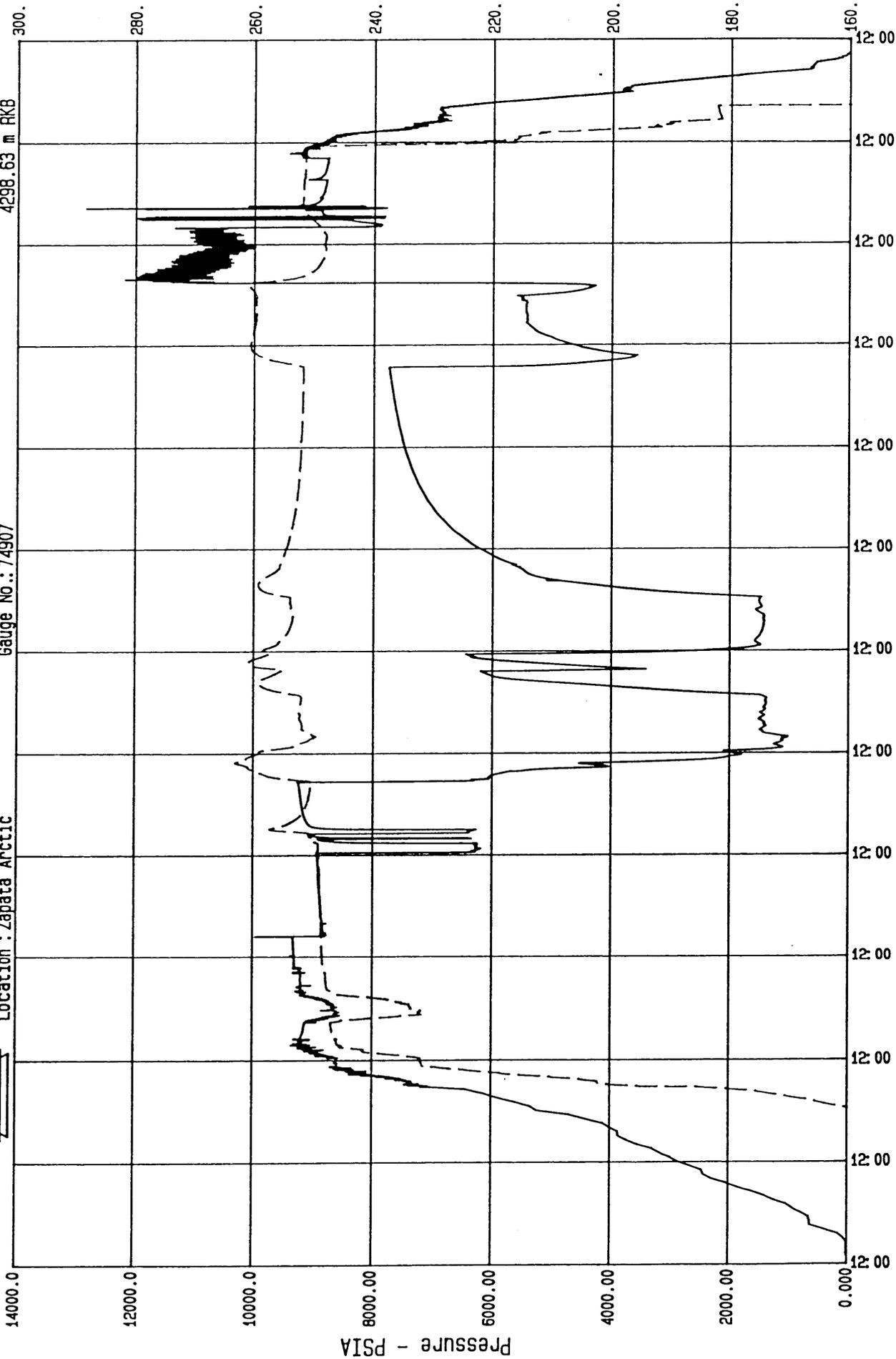


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 22/09/89
Recorder : Memory Gauge
Gauge No. : 74907

Comments : Sensing Depth
4298.63 m RKB



Real Time (24.00 hours per division)

Report# v0.35

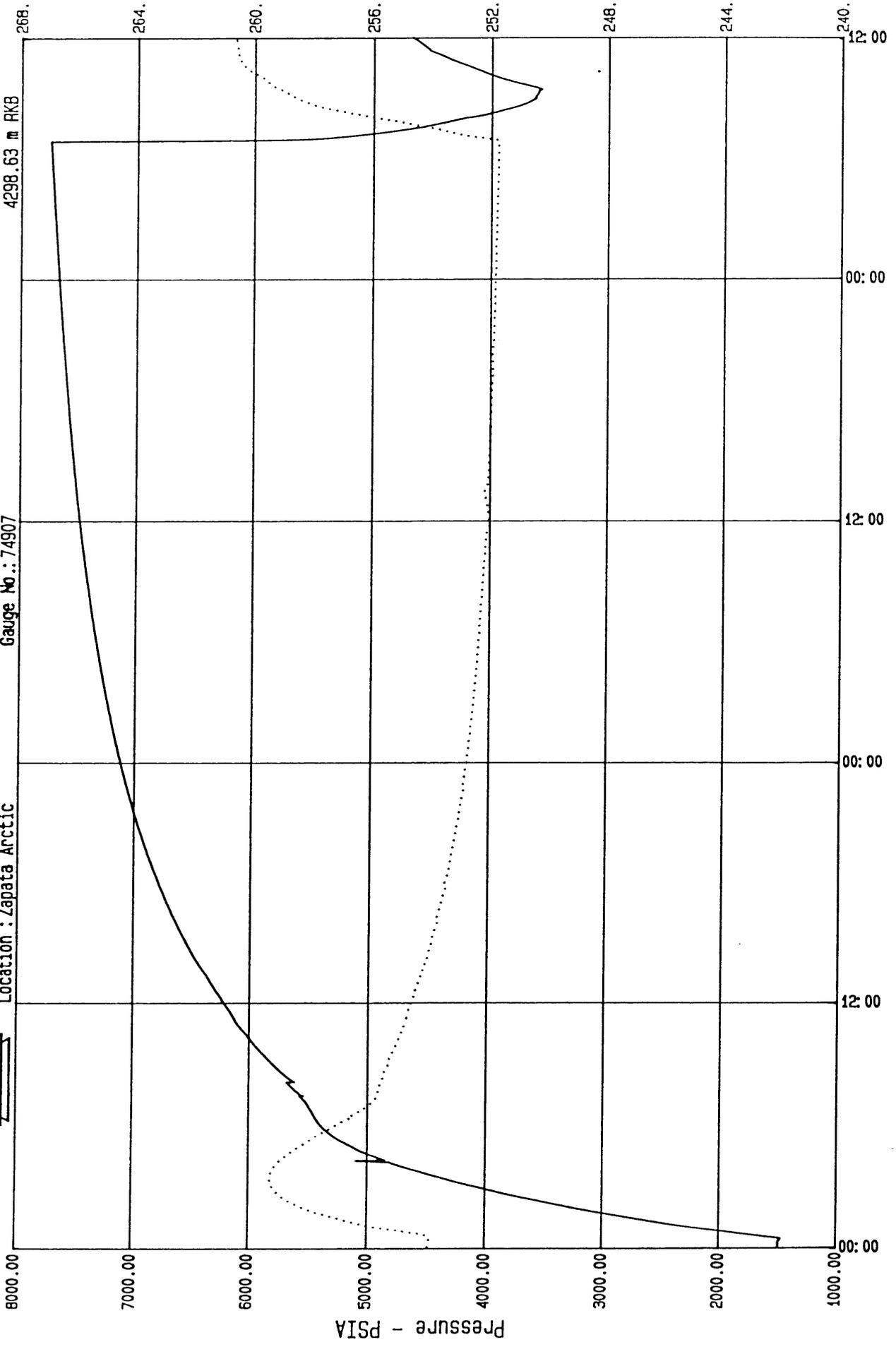


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 29/09/89
Recorder : Memory Gauge
Gauge No. : 74907

Comments : Sensing Depth
4298.63 m RKB



Real Time (12.00 hours per division)

Report: v0.35

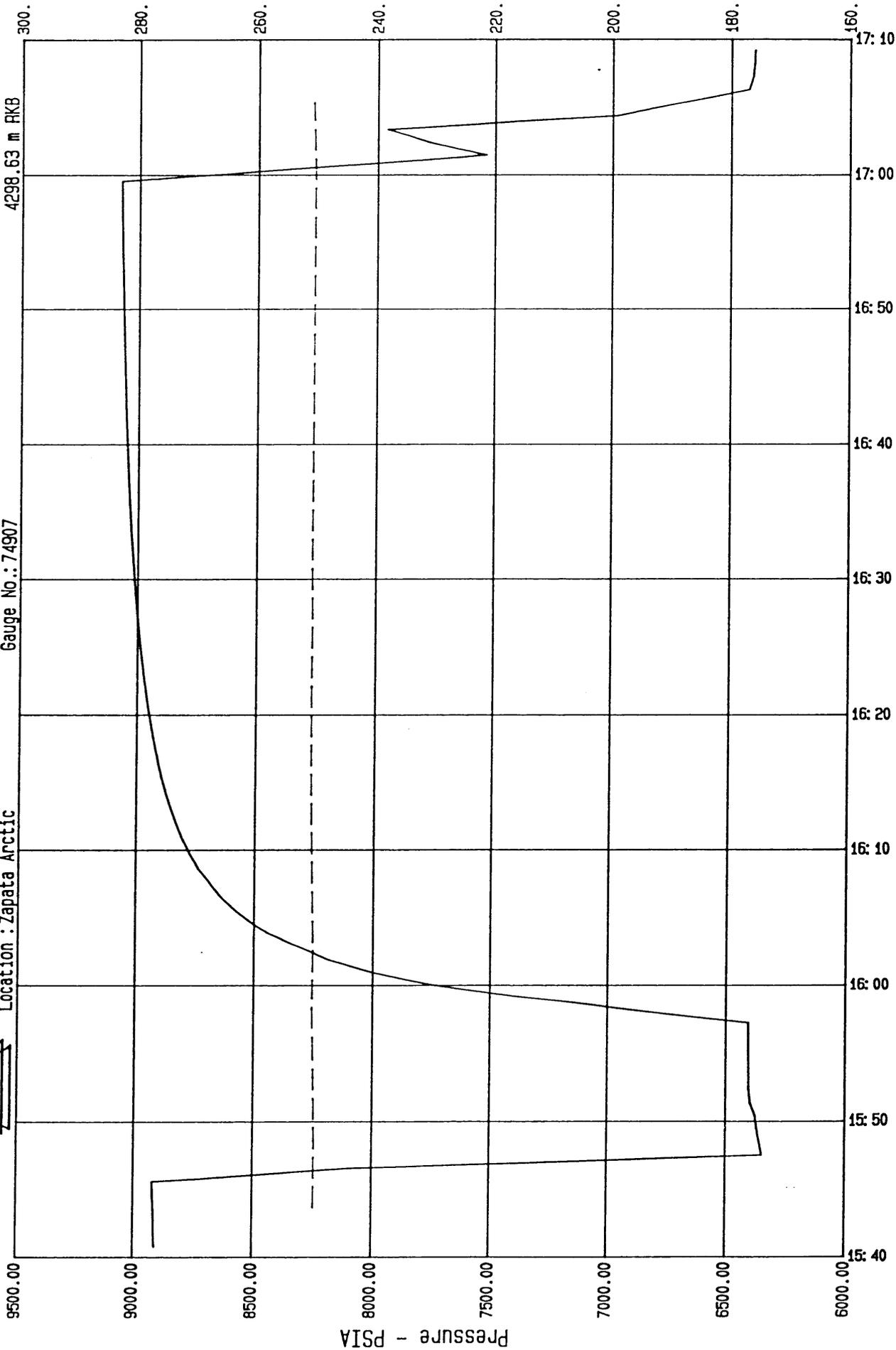


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 1
Location : Zapata Arctic

Engineer : J. Walker
Date : 26/09/89
Recorder : Memory Gauge
Gauge No. : 74907

Comments : Sensing Depth
4298.63 m RKB



Real Time (0.167 hours per division)

Report# 10.35

EXAL REPORT (DST #2)

EXAL

RESERVOIR SERVICES



PRECISION
PRESSURE/TEMPERATURE
MEASUREMENT

WELL SITE TEST REPORT

Client : Petrofina Exploration Australia A.S.
Well : Anemone # 1A
Dates : 6th October, 1989
Country : Australia
Rig/Platform : Zapata Arctic
Field : Wildcat
Test : DST # 2
Exal Job Number : AB 256
Perforation Interval : 4536-4546m mdrkb
Client Engineer : D. Sousa
Exal Engineer : R. Weir

EXAL
RESERVOIR SERVICES



TECHNICAL INDEX

- 1... Introduction.
- 2... Sequence of events.
- 3... Gauge information.
- 4... Diagrams : Test String.
Gauge carrier.
- 5... Real time pressure/temperature plot - EMS 75189.
- 6... Real time pressure/temperature data - EMS 75189.
- 7... Panoil analysis - EMS 75189.
- 8... Real time pressure/temperature plot - EMS 72121.
- 9... Real time pressure/temperature plot - EMS 71532.
- 10... Real time pressure/temperature plot - EMS 74907.
- 11... Gauge comparison.

EXAL
RESERVOIR SERVICES



INTRODUCTION

Exal Reservoir Services ran four EMS 700 electronic pressure and temperature gauges into well Anemone # 1A on the Zapata Arctic as part of DST # 2. The four gauges S/N's 71532, 75189, 72121 and 74907 were run on two Exal gauge carriers APS-029 and APS-030.

The test objectives were fourfold, one to determine the type and mobility of any reservoir fluid, two to determine basic productivity characteristics, three to measure pressure/temperature effects over time, and four to obtain PVT samples.

As far as Exal Reservoir Services were concerned the test was a complete success as all gauges worked well and recorded data as per their respective control programmes. After obtaining samples of water using bottom hole samplers during the main drawdown period, the test was ended without a corresponding buildup.

Gauge no.75189 was chosen as the primary gauge for analysis and for the final report.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Engineer: R.Weir
Well No.: Anemone # 1A
Date : 06/10/89

Time	Description of Event.
11:03:00 07/10/89	Gauges installed in 2 gauge carriers and run in hole
14:25:00	Pressure tested full string against PCT to 9000 psi
16:15:00	Packer set @ 4330 m RKB
16:50:00 08/10/89	Schlumberger run correlation log
00:41:00	Slickline lubricator fails pressures above 6500 psi
05:44:00	Open PCT and observe well head pressure
05:49:00	Open swab valve
05:50:00	Drop mechanically fired gun, followed by firing bar
06:40:00	No indication of guns firing
06:45:00	Rig up Schlumberger lubricator to fish bar
09:00:00	Pressure test Lubricator to 9000 psi
10:16:00	Close kill valve, open Lubricator valve, R.I.H.
11:08:00	Bleed off W.H.P increase (due to displacement)
11:35:00	Maintain W.H.P at 0 psig, by bleeding off at bubble hose
12:18:00	Wireline on depth, fish drop bar but unable to fire guns
13:46:00	Wireline on surface, redress drop bar
14:40:00	Rig up wireline with new drop bar assembly
14:56:00	Close lubricator valve for pressure test
15:02:00	Drop bar fires guns, (bar seperated during rig up)
15:18:00	Detect rise in W.H.P
15:35:00	Rig down Lubricator
16:06:00	Open well on adjustable choke for initial flow
16:17:00 09/10/89	Close well in at PCT and choke manifold
05:43:20	Pressurise annulus, open PCT
05:48:30 10/10/89	Open well at choke manifold, flowing to Gauge tank
12:05:00	Rig up Bottom hole samplers with gauge
12:10:00	Close Lubricator valve and bleed off above
12:15:00	Close choke manifold, open swab valve
12:43:00	Open kill valve, pressure test Lubricator to 3500 psi
12:55:00	Bleed down lubricator to 1250 psi, open Lubricator valve
13:00:00	Close Lubricator valve, bleed down to 1000 psi
13:03:30	Open lubricator, pressure increase to 1250, R.I.H.
13:22:00	Gauge @ 100 m, open well to Gauge tank
15:34:00	First sample taken at 4478 m
16:04:00	Second sample taken at 3904 m
16:22:00	Shut in well at choke manifold
18:40:00	Sampler string to surface, close Lubricator valve & bleed of
19:00:00	Close swab valve and choke, open kill valve
19:07:00	Pressurise above Lubricator to 1500 psi
19:08:00	Open Lubricator valve, well open to choke manifold
19:10:00	Open well at choke to Gauge tank
20:00:00	100% mud flowing to surface

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Engineer: R.Weir
Well No.: Anemone # 1A
Date : 10/10/89

Time	Description of Event.
20:06:00 11/10/89	Divert flow to flare
10:06:00	Close PCT, bleed off pressure
10:11:00	Close choke at manifold
10:26:00	Open kill valve, open MIDRV (@ 2800 psi), close kill valve
10:30:00	Commence reverse circulating, maintaining tubing pressure
12:04:00	Open kill valve, close MIDRV
12:10:00	Pressurise annulus to open PCT (PCT remains closed)
12:12:00	Commence Bullheading (no increase in gauge pressure)
13:37:00	Unseat packer and circulate (transient pulse seen downhole)
18:18:00	Pump slug, prior to P.O.O.H

EXAL

RESERVOIR SERVICES



GAUGE INFORMATION

Client : Petrofina Exploration Australia S.A. Client Engineer : D. Sousa

Field : Wildcat Well : Anemone # 1A Test : DST # 2

Date : 6th October, 1989 Job No. : AB 256

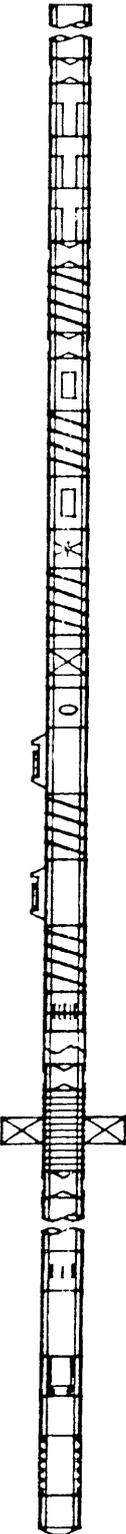
Perforations : 4536.3-4546.3m drkb

Gauge No	72121	75189	71532	74907
Gauge type	EMS 700	EMS 700	EMS 700	EMS 700
Transducer range (psia).	10000	10000	15000	15000
Start time	09:55:45	09:57:00	09:53:30	09:54:30
Start date	06/10/89	06/10/89	06/10/89	06/10/89
Delay.	30hrs	30hrs	30hrs	30hrs
Sample rate.	0.016hrs	0.008hrs	0.008hrs	0.016hrs
Recording duration	365hrs	197hrs	197hrs	365hrs
Recording start time	15:56 07/10/89	15:57 07/10/89	15:54 07/10/89	15:55 07/10/89
Memory capacity full	14:55 21/10/89	14:57 14/10/89	14:53 14/10/89	14:54 21/10/89
Position of carrier.	Upper Carrier	Upper Carrier	Lower Carrier	Lower Carrier
Sensing depth (m mdrkb)	4266.50	4266.50	4297.97	4297.97

EXAL RESERVOIR SERVICES LIMITED

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 2

CUSTOMER : Petrofina Australia
 ENGINEER : R. Weir
 DATE : 06/10/89
 PERFORATIONS : 4536-4546m



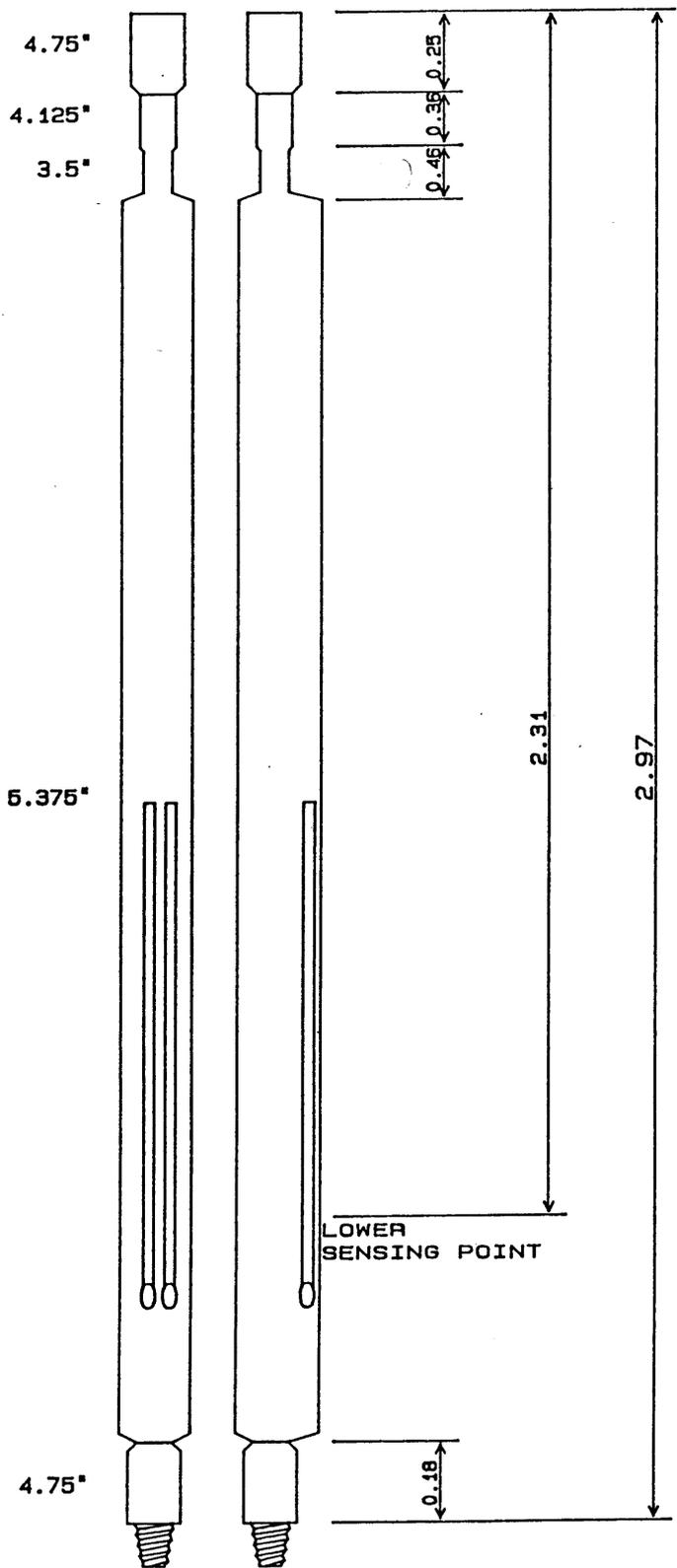
	Depth ■ RKB	Length Meters	O.D. Inches	I.D. Inches
TUBING 3 1/2"VAM 12.7 # L80	255.38	3748.74	3.500	2.625
CROSS OVER 3 1/2"VAM X 3 1/2"IF	4004.12	.31	4.750	2.688
SLIP JOINT [OPEN]	4004.43	8.59	5.000	2.250
SLIP JOINT [OPEN]	4013.02	8.59	5.000	2.250
SLIP JOINT [1/2 OPEN]	4021.61	7.60	5.000	2.250
CROSS OVER 3 1/2"IF X 3 1/2"XH	4029.21	.52	4.750	2.438
DRILL COLLARS [8 STANDS]	4029.74	188.10	4.750	2.313
CROSS OVER 3 1/2"XH X 3 1/2"IF	4195.84	.43	4.813	2.313
S.H.O.R.T. REVERSING VALVE	4196.27	1.07	5.000	2.400
DRILL COLLARS [1 STAND]	4197.34	27.25	4.750	2.250
M.I.D.R.V.	4224.59	2.91	5.000	2.250
R.A. MARKER SUB (PIP TAG @ 4228.13 ■ RKB)	4227.50	.90	4.750	2.625
DRILL COLLARS [1 STAND]	4228.40	27.18	4.750	2.250
P.C.T.	4255.58	7.00	5.000	2.250
H.R.T. [CLOSED]	4262.57	1.62	5.000	2.250
GAUGE CARRIER EMS # 75188 & EMS # 73033	4264.19	2.97	5.375	2.300
DRILL COLLARS [1 STAND]	4267.16	28.51	4.750	2.250
GAUGE CARRIER EMS # 71532 & EMS # 74907	4295.67	2.97	5.375	2.300
DRILL COLLARS [1 STAND]	4298.64	27.71	4.750	2.250
JARS [CLOSED]	4326.35	1.99	5.000	2.250
SAFETY JOINT	4328.34	.52	5.000	2.250
CROSS OVER 3 1/2"IF X 2 7/8"EUE	4328.85	.25	4.750	2.438
POSITRIVEE PACKER [MID RUBBERS AT 4330.10 ■ RKB]	4329.10	1.65	5.500	2.400
CROSS OVER 2 7/8"EUE X 2 3/8"EUE	4330.76	.31	3.625	2.000
TUBING 2 3/8"EUE [20 JOINTS]	4331.07	191.88	2.875	1.901
GUN DROP SUB	4522.95	.46	3.000	2.000
TUBING 2 3/8"EUE [1 JOINT]	4523.41	9.59	2.875	1.901
VENTED FIRING HEAD	4533.00	.55	3.375	
SAFETY SPACER	4533.55	2.75	3.375	
T.C.P. GUNS [22g HMX 8 SPF 60 DEGREE PHASING]	4536.30	10.00	3.375	
BULLNOSE	4546.30	.20	3.375	

EXAL RESERVOIR SERVICES LIMITED

GAUGE CARRIER DETAILS

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 2

CUSTOMER : Petrofina Australia
 ENGINEER : R.Weir
 DATE : 06/10/89
 CARRIER : APS 029 (Upper)



Eccentric body
 Concentric bore - 2.3" I.D.
 Drifted to 2.125"

LOWER GAUGE# 72121

BATTERIES ON : 09:55:45 06-10-89
 START SAMPLING : 15:58:00 07-10-89
 END SAMPLING : 14:55:00 21-10-89
 SAMPLE RATE : 0.016 hrs
 PRES/TEMP RATIO : 4:1

LOWER GAUGE# 75189

BATTERIES ON : 09:57:00 06-10-89
 START SAMPLING : 15:57:00 07-10-89
 END SAMPLING : 14:57:00 14-10-89
 SAMPLE RATE : 0.008 hrs
 PRES/TEMP RATIO : 4:1

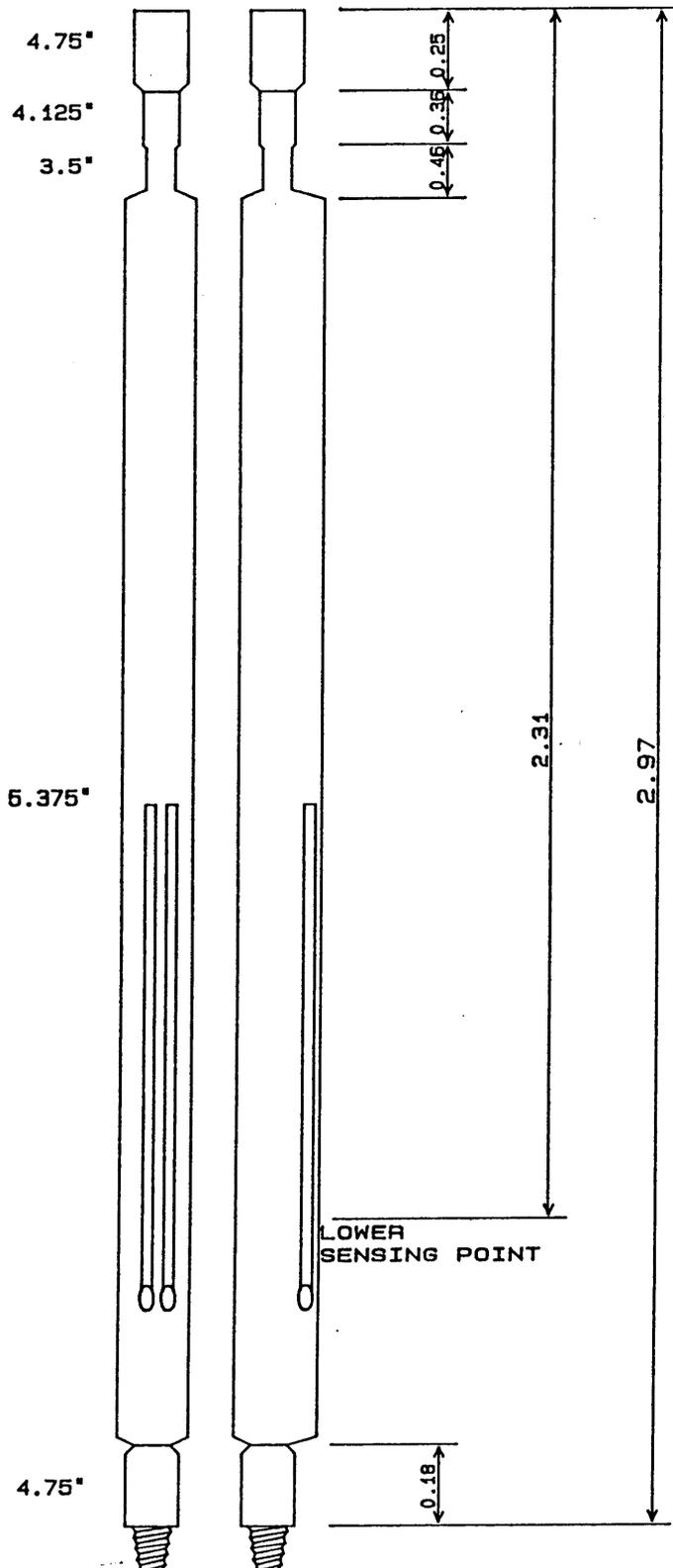
All lengths given in METERS

EXAL RESERVOIR SERVICES LIMITED

GAUGE CARRIER DETAILS

WELL : Anemone # 1A
 FIELD : Wildcat
 LOCATION : Zapata Arctic
 TEST : DST # 2

CUSTOMER : Petrofina Australia
 ENGINEER : R.Weir
 DATE : 06/10/89
 CARRIER : APS 030 (Lower)



Eccentric body
 Concentric bore - 2.3" I.D.
 Drifted to 2.125"

LOWER GAUGE# 71532
 BATTERIES ON : 09: 53: 30 06-10-89
 START SAMPLING : 15: 54: 00 07-10-89
 END SAMPLING : 14: 53: 00 14-10-89
 SAMPLE RATE : 0.008 hrs
 PRES/TEMP RATIO : 4: 1

LOWER GAUGE# 74907
 BATTERIES ON : 09: 54: 30 06-10-89
 START SAMPLING : 15: 55: 00 07-10-89
 END SAMPLING : 14: 54: 00 21-10-89
 SAMPLE RATE : 0.016 hrs
 PRES/TEMP RATIO : 4: 1

All lengths given in METERS



EXAL RESERVOIR SERVICES LTD.

Memory Gauge Data.

Customer : Petrofina Australia
Location : Zapata Arctic
Well No. : Anemone # 1A
Test No. : DST # 2
Gauge No : 75189
Engineer : R.Weir

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 06/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:57:58	0.016	21.14		21.14
11:03:00	Gauges installed in 2 gauge carriers and run in hole			
11:27:58	1.516		54.30	
14:27:58	4.516		60.18	
15:57:58	6.016	814.51		793.37
18:57:58	9.016	2881.15		2066.64
20:27:58	10.516		109.17	
23:27:58	13.516		153.78	
00:57:58	15.016	5403.13		2521.98
03:57:58	18.016	6807.30		1404.17
05:27:58	19.516		208.14	
08:27:58	22.516		231.68	
09:57:58	24.016	8980.81		2173.50
12:57:58	27.016	9245.98		265.18
14:25:00	Pressure tested full string against PCT to 9000 psi			
14:27:58	28.516		249.01	
15:59:24	30.040	9117.14		-128.85
16:00:50	30.064		249.01	
16:03:43	30.112	9330.47		213.34
16:05:10	30.136	9330.33		-0.14
16:08:02	30.184		249.08	
16:09:29	30.208	9236.78		-93.55
16:12:22	30.256	9239.45		2.67
16:13:48	30.280	9240.42		0.97
16:15:00	Packer set @ 4330 m RKB			
16:16:41	30.328	9242.67		2.26
16:18:07	30.352	9243.76		1.08
16:21:00	30.400	9246.14		2.39
16:22:26	30.424		249.14	
16:25:19	30.472	9249.93		3.79
16:26:46	30.496	9251.55		1.62
16:29:38	30.544		249.14	
16:31:05	30.568	9255.89		4.34
16:33:58	30.616	9258.38		2.48
16:35:24	30.640	9259.71		1.34
16:38:17	30.688	9262.24		2.53
16:39:43	30.712	9263.34		1.10
16:42:36	30.760	9265.51		2.16
16:44:02	30.784		249.15	
16:46:55	30.832	9268.04		2.53
16:48:22	30.856	9268.51		0.48
16:50:00	Schlumberger run correlation log			
16:51:14	30.904		249.15	
16:52:41	30.928	9269.99		1.48
16:55:34	30.976	9270.92		0.92
16:57:00	31.000	9271.14		0.22
16:59:53	31.048	9272.06		0.92
17:01:19	31.072	9272.46		0.40
17:04:12	31.120	9272.83		0.37

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 07/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
17:05:38	31.144		249.16	
17:08:31	31.192	9273.50		0.67
17:09:58	31.216	9273.78		0.29
17:12:50	31.264		249.17	
17:14:17	31.288	9274.66		0.87
17:17:10	31.336	9274.70		0.05
17:18:36	31.360	9274.70		0.00
17:21:29	31.408	9275.44		0.73
17:22:55	31.432	9275.52		0.08
17:25:48	31.480	9276.06		0.54
17:27:14	31.504		249.18	
17:30:07	31.552	9276.77		0.72
17:31:34	31.576	9276.82		0.05
17:34:26	31.624		249.18	
17:35:53	31.648	9276.82		0.00
17:38:46	31.696	9276.69		-0.13
17:40:12	31.720	9276.63		-0.06
17:43:05	31.768	9276.84		0.21
17:44:31	31.792	9277.08		0.24
17:47:24	31.840	9278.22		1.15
17:48:50	31.864		249.20	
17:51:43	31.912	9279.22		1.00
17:53:10	31.936	9279.46		0.24
17:56:02	31.984		249.20	
17:57:29	32.008	9279.61		0.14
18:00:22	32.056	9279.70		0.10
18:01:48	32.080	9280.10		0.40
18:04:41	32.128	9280.34		0.24
18:06:07	32.152	9280.58		0.24
18:09:00	32.200	9280.93		0.35
18:10:26	32.224		249.22	
18:13:19	32.272	9281.91		0.99
18:14:46	32.296	9282.06		0.14
18:17:38	32.344		249.21	
18:19:05	32.368	9282.63		0.57
18:21:58	32.416	9282.77		0.14
18:23:24	32.440	9282.92		0.14
18:26:17	32.488	9283.36		0.45
18:27:43	32.512	9283.84		0.48
18:30:36	32.560	9284.27		0.43
18:32:02	32.584		249.21	
18:34:55	32.632	9284.99		0.72
18:36:22	32.656	9285.32		0.33
18:39:14	32.704		249.22	
18:40:41	32.728	9285.61		0.29
18:43:34	32.776	9285.89		0.29
18:45:00	32.800	9286.10		0.21
18:47:53	32.848	9286.15		0.05
18:49:19	32.872	9286.20		0.05
18:52:12	32.920	9286.53		0.33

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 07/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
18:53:38	32.944		249.23	
18:56:31	32.992	9287.20		0.67
18:57:58	33.016	9287.25		0.05
19:00:50	33.064		249.23	
19:02:17	33.088	9288.01		0.76
19:05:10	33.136	9288.35		0.33
19:06:36	33.160	9288.82		0.48
19:09:29	33.208	9289.25		0.43
19:10:55	33.232	9289.35		0.10
19:13:48	33.280	9289.08		-0.27
19:15:14	33.304		249.24	
19:18:07	33.352	9289.75		0.67
19:19:34	33.376	9290.13		0.38
19:22:26	33.424		249.25	
19:23:53	33.448	9290.67		0.54
19:26:46	33.496	9291.20		0.53
19:28:12	33.520	9291.56		0.37
19:31:05	33.568	9291.85		0.29
19:32:31	33.592	9292.06		0.21
19:35:24	33.640	9291.94		-0.11
19:36:50	33.664		249.24	
19:39:43	33.712	9292.10		0.16
19:41:10	33.736	9292.20		0.10
19:44:02	33.784		249.25	
19:45:29	33.808	9292.53		0.33
19:48:22	33.856	9292.95		0.41
19:49:48	33.880	9292.80		-0.14
19:52:41	33.928	9292.44		-0.37
19:54:07	33.952	9292.44		0.00
19:57:00	34.000	9292.68		0.24
19:58:26	34.024		249.25	
20:01:19	34.072	9292.12		-0.56
20:02:46	34.096	9292.07		-0.05
20:05:38	34.144		249.25	
20:07:05	34.168	9292.34		0.27
20:09:58	34.216	9292.25		-0.10
20:11:24	34.240	9292.45		0.21
20:14:17	34.288	9291.45		-1.00
20:15:43	34.312	9291.07		-0.38
20:18:36	34.360	9289.20		-1.86
20:20:02	34.384		249.27	
20:22:55	34.432	9287.48		-1.72
20:24:22	34.456	9286.96		-0.53
20:27:14	34.504		249.27	
20:28:41	34.528	9284.81		-2.15
20:31:34	34.576	9283.38		-1.43
20:33:00	34.600	9283.25		-0.13
20:35:53	34.648	9280.89		-2.36
20:37:19	34.672	9280.27		-0.62
20:40:12	34.720	9277.71		-2.56

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 07/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:41:38	34.744		249.28	
20:44:31	34.792	9276.05		-1.66
20:45:58	34.816	9275.33		-0.72
20:48:50	34.864		249.28	
20:50:17	34.888	9272.36		-2.98
20:53:10	34.936	9269.75		-2.61
20:54:36	34.960	9268.58		-1.16
20:57:29	35.008	9266.96		-1.62
20:58:55	35.032	9266.31		-0.65
21:01:48	35.080	9263.73		-2.58
21:03:14	35.104		249.29	
21:06:07	35.152	9260.82		-2.91
21:07:34	35.176	9260.67		-0.14
21:10:26	35.224		249.29	
21:11:53	35.248	9260.77		0.10
21:14:46	35.296	9261.01		0.24
21:16:12	35.320	9261.20		0.19
21:19:05	35.368	9261.10		-0.10
21:20:31	35.392	9261.26		0.16
21:23:24	35.440	9261.50		0.24
21:24:50	35.464		249.29	
21:27:43	35.512	9262.73		1.23
21:29:10	35.536	9263.11		0.38
21:32:02	35.584		249.30	
21:33:29	35.608	9263.46		0.35
21:36:22	35.656	9263.79		0.33
21:37:48	35.680	9264.08		0.29
21:40:41	35.728	9264.86		0.78
21:42:07	35.752	9265.13		0.27
21:45:00	35.800	9265.32		0.19
21:46:26	35.824		249.31	
21:49:19	35.872	9265.05		-0.27
21:50:46	35.896	9264.95		-0.10
21:53:38	35.944		249.31	
21:55:05	35.968	9264.86		-0.10
21:57:58	36.016	9265.00		0.14
21:59:24	36.040	9265.19		0.19
22:02:17	36.088	9265.72		0.53
22:03:43	36.112	9265.91		0.19
22:06:36	36.160	9266.29		0.38
22:08:02	36.184		249.31	
22:10:55	36.232	9266.64		0.35
22:12:22	36.256	9266.97		0.33
22:15:14	36.304		249.32	
22:16:41	36.328	9267.50		0.53
22:19:34	36.376	9268.02		0.53
22:21:00	36.400	9268.07		0.05
22:23:53	36.448	9267.93		-0.14
22:25:19	36.472	9267.93		0.00
22:28:12	36.520	9267.64		-0.29

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 07/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
22:29:38	36.544		249.32	
22:32:31	36.592	9267.69		0.05
22:33:58	36.616	9267.36		-0.33
22:36:50	36.664		249.32	
22:38:17	36.688	9267.55		0.19
22:41:10	36.736	9268.17		0.62
22:42:36	36.760	9268.02		-0.14
22:45:29	36.808	9268.04		0.02
22:46:55	36.832	9268.55		0.51
22:49:48	36.880	9268.99		0.44
22:51:14	36.904		249.32	
22:54:07	36.952	9269.90		0.91
22:55:34	36.976	9269.90		0.00
22:58:26	37.024		249.32	
22:59:53	37.048	9269.98		0.08
23:02:46	37.096	9270.09		0.11
23:04:12	37.120	9270.05		-0.05
23:07:05	37.168	9270.67		0.62
23:08:31	37.192	9271.06		0.40
23:11:24	37.240	9271.24		0.18
23:12:50	37.264		249.34	
23:15:43	37.312	9271.21		-0.03
23:17:10	37.336	9271.45		0.24
23:20:02	37.384		249.35	
23:21:29	37.408	9271.78		0.33
23:24:22	37.456	9271.40		-0.38
23:25:48	37.480	9271.59		0.19
23:28:41	37.528	9272.07		0.48
23:30:07	37.552	9272.27		0.21
23:33:00	37.600	9272.46		0.19
23:34:26	37.624		249.36	
23:37:19	37.672	9272.80		0.33
23:38:46	37.696	9273.04		0.24
23:41:38	37.744		249.36	
23:43:05	37.768	9273.47		0.43
23:45:58	37.816	9273.32		-0.14
23:47:24	37.840	9273.23		-0.10
23:50:17	37.888	9271.60		-1.62
23:51:43	37.912	9270.76		-0.84
23:54:36	37.960	9271.13		0.37
23:56:02	37.984		249.36	
23:58:55	38.032	9272.53		1.40
00:00:22	38.056	9272.96		0.43
00:03:14	38.104		249.37	
00:04:41	38.128	9273.29		0.33
00:07:34	38.176	9273.58		0.29
00:09:00	38.200	9273.53		-0.05
00:11:53	38.248	9273.62		0.10
00:13:19	38.272	9273.67		0.05
00:16:12	38.320	9273.05		-0.62

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:17:38	38.344		249.37	
00:20:31	38.392	9273.11		0.06
00:21:58	38.416	9273.31		0.19
00:24:50	38.464		249.37	
00:26:17	38.488	9274.53		1.23
00:29:10	38.536	9274.88		0.35
00:30:36	38.560	9275.06		0.18
00:33:29	38.608	9274.88		-0.18
00:34:55	38.632	9275.07		0.19
00:37:48	38.680	9274.59		-0.48
00:39:14	38.704		249.38	
00:41:00	Slickline lubricator fails pressures above 6500 psi			
00:42:07	38.752	9275.02		0.43
00:43:34	38.776	9275.26		0.24
00:46:26	38.824		249.38	
00:47:53	38.848	9275.60		0.33
00:50:46	38.896	9275.88		0.29
00:52:12	38.920	9276.03		0.14
00:55:05	38.968	9276.12		0.10
00:56:31	38.992	9276.41		0.29
00:59:24	39.040	9275.99		-0.41
01:00:50	39.064		249.39	
01:03:43	39.112	9276.46		0.46
01:05:10	39.136	9276.60		0.14
01:08:02	39.184		249.39	
01:09:29	39.208	9276.66		0.06
01:12:22	39.256	9276.90		0.24
01:13:48	39.280	9276.76		-0.14
01:16:41	39.328	9276.66		-0.10
01:18:07	39.352	9276.71		0.05
01:21:00	39.400	9276.90		0.19
01:22:26	39.424		249.39	
01:25:19	39.472	9277.35		0.44
01:26:46	39.496	9277.59		0.24
01:29:38	39.544		249.41	
01:31:05	39.568	9277.39		-0.19
01:33:58	39.616	9277.20		-0.19
01:35:24	39.640	9277.25		0.05
01:38:17	39.688	9277.30		0.05
01:39:43	39.712	9277.54		0.24
01:42:36	39.760	9277.74		0.21
01:44:02	39.784		249.41	
01:46:55	39.832	9278.17		0.43
01:48:22	39.856	9278.17		0.00
01:51:14	39.904		249.42	
01:52:41	39.928	9278.51		0.33
01:55:34	39.976	9278.56		0.05
01:57:00	40.000	9278.51		-0.05
01:59:53	40.048	9278.51		0.00
02:01:19	40.072	9278.70		0.19

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
02:04:12	40.120	9279.23		0.53
02:05:38	40.144		249.42	
02:08:31	40.192	9279.48		0.25
02:09:58	40.216	9279.67		0.19
02:12:50	40.264		249.42	
02:14:17	40.288	9279.94		0.27
02:17:10	40.336	9280.04		0.10
02:18:36	40.360	9279.99		-0.05
02:21:29	40.408	9279.27		-0.72
02:22:55	40.432	9279.42		0.14
02:25:48	40.480	9280.04		0.62
02:27:14	40.504		249.43	
02:30:07	40.552	9280.91		0.87
02:31:34	40.576	9281.06		0.14
02:34:26	40.624		249.43	
02:35:53	40.648	9281.53		0.48
02:38:46	40.696	9282.15		0.62
02:40:12	40.720	9282.49		0.33
02:43:05	40.768	9282.58		0.10
02:44:31	40.792	9282.79		0.21
02:47:24	40.840	9283.40		0.61
02:48:50	40.864		249.44	
02:51:43	40.912	9283.84		0.45
02:53:10	40.936	9283.89		0.05
02:56:02	40.984		249.44	
02:57:29	41.008	9284.18		0.29
03:00:22	41.056	9284.08		-0.10
03:01:48	41.080	9284.21		0.13
03:04:41	41.128	9284.61		0.40
03:06:07	41.152	9284.56		-0.05
03:09:00	41.200	9283.60		-0.96
03:10:26	41.224		249.44	
03:13:19	41.272	9283.79		0.19
03:14:46	41.296	9283.98		0.19
03:17:38	41.344		249.44	
03:19:05	41.368	9284.70		0.72
03:21:58	41.416	9284.94		0.24
03:23:24	41.440	9284.80		-0.14
03:26:17	41.488	9284.94		0.14
03:27:43	41.512	9285.27		0.33
03:30:36	41.560	9285.77		0.49
03:32:02	41.584		249.45	
03:34:55	41.632	9285.90		0.13
03:36:22	41.656	9285.90		0.00
03:39:14	41.704		249.45	
03:40:41	41.728	9286.24		0.35
03:43:34	41.776	9286.24		0.00
03:45:00	41.800	9286.29		0.05
03:47:53	41.848	9286.53		0.24
03:49:19	41.872	9286.40		-0.13

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:52:12	41.920	9286.40		0.00
03:53:38	41.944		249.45	
03:56:31	41.992	9286.69		0.29
03:57:58	42.016	9286.55		-0.14
04:00:50	42.064		249.46	
04:02:17	42.088	9286.83		0.29
04:05:10	42.136	9286.63		-0.21
04:06:36	42.160	9286.98		0.35
04:09:29	42.208	9286.64		-0.33
04:10:55	42.232	9286.44		-0.21
04:13:48	42.280	9286.51		0.08
04:15:14	42.304		249.46	
04:18:07	42.352	9286.83		0.32
04:19:34	42.376	9287.12		0.29
04:22:26	42.424		249.48	
04:23:53	42.448	9287.52		0.40
04:26:46	42.496	9287.85		0.33
04:28:12	42.520	9287.84		-0.02
04:31:05	42.568	9288.09		0.25
04:32:31	42.592	9288.04		-0.05
04:35:24	42.640	9288.28		0.24
04:36:50	42.664		249.48	
04:39:43	42.712	9288.42		0.14
04:41:10	42.736	9288.71		0.29
04:44:02	42.784		249.48	
04:45:29	42.808	9289.67		0.96
04:48:22	42.856	9289.97		0.30
04:49:48	42.880	9290.14		0.18
04:52:41	42.928	9290.14		0.00
04:54:07	42.952	9290.24		0.10
04:57:00	43.000	9290.24		0.00
04:58:26	43.024		249.49	
05:01:19	43.072	9290.30		0.06
05:02:46	43.096	9290.26		-0.05
05:05:39	43.144		249.48	
05:07:05	43.168	9290.43		0.18
05:09:58	43.216	9290.57		0.14
05:11:24	43.240	9290.88		0.30
05:14:17	43.288	9291.40		0.53
05:15:43	43.312	9291.69		0.29
05:18:36	43.360	9291.78		0.10
05:20:02	43.384		249.49	
05:22:55	43.432	9291.35		-0.43
05:24:22	43.456	9291.26		-0.10
05:27:14	43.504		249.49	
05:28:41	43.528	9291.50		0.24
05:31:34	43.576	9291.27		-0.22
05:33:00	43.600	9291.55		0.27
05:35:53	43.648	9291.61		0.06
05:37:19	43.672	9291.59		-0.02

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
05:40:12	43.720	9292.12		0.53
05:41:38	43.744		249.50	
05:44:00	Open PCT and observe well head pressure			
05:44:31	43.792	7541.38		-1750.74
05:45:58	43.816	5994.32		-1547.06
05:48:50	43.864		249.91	
05:49:00	Open swab valve			
05:50:00	Drop mechanically fired gun, followed by firing bar			
05:50:17	43.888	6102.22		107.90
05:53:10	43.936	6099.11		-3.11
05:54:36	43.960	6099.91		0.80
05:57:29	44.008	6097.43		-2.48
05:58:55	44.032	6098.08		0.65
06:01:48	44.080	6097.74		-0.34
06:03:14	44.104		249.70	
06:06:07	44.152	6095.69		-2.06
06:07:34	44.176	6098.70		3.02
06:10:26	44.224		249.67	
06:11:53	44.248	6105.45		6.75
06:14:46	44.296	6110.86		5.41
06:16:12	44.320	6113.64		2.78
06:19:05	44.368	6114.97		1.33
06:20:31	44.392	6114.69		-0.28
06:23:24	44.440	6112.37		-2.32
06:24:50	44.464		249.64	
06:27:43	44.512	6109.60		-2.77
06:29:10	44.536	6109.08		-0.52
06:32:02	44.584		249.65	
06:33:29	44.608	6107.56		-1.52
06:36:22	44.656	6106.85		-0.72
06:37:48	44.680	6106.28		-0.57
06:40:00	No indication of guns firing			
06:40:41	44.728	6105.93		-0.35
06:42:07	44.752	6105.53		-0.39
06:45:00	44.800	6105.10		-0.44
06:45:00	Rig up Schlumberger lubricator to fish bar			
06:46:26	44.824		249.65	
06:49:19	44.872	6104.48		-0.61
06:50:46	44.896	6104.13		-0.35
06:53:38	44.944		249.64	
06:55:05	44.968	6103.43		-0.70
06:57:58	45.016	6102.88		-0.55
06:59:24	45.040	6106.60		3.72
07:02:17	45.088	6084.70		-21.90
07:03:43	45.112	6084.82		0.12
07:06:36	45.160	6085.31		0.50
07:08:02	45.184		249.72	
07:10:55	45.232	6084.90		-0.41
07:12:22	45.256	6084.47		-0.44
07:15:14	45.304		249.71	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:16:41	45.328	6084.38		-0.09
07:19:34	45.376	6084.20		-0.17
07:21:00	45.400	6084.14		-0.06
07:23:53	45.448	6084.98		0.83
07:25:19	45.472	6084.57		-0.41
07:28:12	45.520	6085.44		0.87
07:29:38	45.544		249.70	
07:32:31	45.592	6085.94		0.50
07:33:58	45.616	6086.42		0.48
07:36:50	45.664		249.69	
07:38:17	45.688	6086.97		0.55
07:41:10	45.736	6087.29		0.32
07:42:36	45.760	6087.45		0.16
07:45:29	45.808	6087.54		0.09
07:46:55	45.832	6087.63		0.09
07:49:48	45.880	6087.84		0.22
07:51:14	45.904		249.69	
07:54:07	45.952	6088.37		0.52
07:55:34	45.976	6088.28		-0.09
07:58:26	46.024		249.67	
07:59:53	46.048	6088.35		0.07
08:02:46	46.096	6088.79		0.44
08:04:12	46.120	6088.70		-0.09
08:07:05	46.168	6088.79		0.09
08:08:31	46.192	6088.92		0.13
08:11:24	46.240	6089.01		0.09
08:12:50	46.264		249.67	
08:15:43	46.312	6088.88		-0.13
08:17:10	46.336	6088.79		-0.09
08:20:02	46.384		249.67	
08:21:29	46.408	6089.27		0.48
08:24:22	46.456	6089.49		0.22
08:25:48	46.480	6089.45		-0.04
08:28:41	46.528	6089.34		-0.10
08:30:07	46.552	6089.34		0.00
08:33:00	46.600	6089.96		0.61
08:34:26	46.624		249.66	
08:37:19	46.672	6089.88		-0.07
08:38:46	46.696	6089.80		-0.09
08:41:38	46.744		249.67	
08:43:05	46.768	6090.06		0.26
08:45:58	46.816	6090.28		0.22
08:47:24	46.840	6090.17		-0.10
08:50:17	46.888	6090.41		0.23
08:51:43	46.912	6090.58		0.17
08:54:36	46.960	6090.63		0.04
08:56:02	46.984		249.67	
08:58:55	47.032	6090.76		0.13
09:00:00	Pressure test Lubricator to 9000 psi			
09:00:22	47.056	6090.71		-0.04

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:03:14	47.104		249.66	
09:04:41	47.128	6091.18		0.47
09:07:34	47.176	6091.06		-0.12
09:09:00	47.200	6090.70		-0.37
09:11:53	47.248	6090.80		0.10
09:13:19	47.272	6091.19		0.39
09:16:12	47.320	6091.68		0.48
09:17:38	47.344		249.66	
09:20:31	47.392	6092.24		0.57
09:21:58	47.416	6091.98		-0.26
09:24:50	47.464		249.67	
09:26:17	47.488	6091.68		-0.31
09:29:10	47.536	6092.77		1.09
09:30:36	47.560	6092.38		-0.39
09:33:29	47.608	6091.97		-0.41
09:34:55	47.632	6092.16		0.19
09:37:48	47.680	6091.85		-0.31
09:39:14	47.704		249.66	
09:42:07	47.752	6091.88		0.03
09:43:34	47.776	6092.10		0.22
09:46:26	47.824		249.67	
09:47:53	47.848	6092.73		0.63
09:50:46	47.896	6092.81		0.09
09:52:12	47.920	6092.68		-0.13
09:55:05	47.968	6093.12		0.44
09:56:31	47.992	6092.81		-0.31
09:59:24	48.040	6093.12		0.31
10:00:50	48.064		249.67	
10:03:43	48.112	6092.73		-0.39
10:05:10	48.136	6093.03		0.31
10:08:02	48.184		249.66	
10:09:29	48.208	6093.32		0.29
10:12:22	48.256	6093.56		0.23
10:13:48	48.280	6092.33		-1.22
10:16:00	Close kill valve, open Lubricator valve, R.I.H.			
10:16:41	48.328	6092.03		-0.31
10:18:07	48.352	6092.16		0.13
10:21:00	48.400	6092.18		0.03
10:22:26	48.424		249.67	
10:25:19	48.472	6092.90		0.72
10:26:46	48.496	6092.86		-0.04
10:29:38	48.544		249.67	
10:31:05	48.568	6092.94		0.09
10:33:58	48.616	6093.69		0.74
10:35:24	48.640	6094.46		0.77
10:38:17	48.688	6096.84		2.38
10:39:43	48.712	6098.50		1.66
10:42:36	48.760	6102.87		4.37
10:44:02	48.784		249.67	
10:46:55	48.832	6112.75		9.88

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
10:48:22	48.856	6119.05		6.30
10:51:14	48.904		249.67	
10:52:41	48.928	6143.61		24.55
10:55:34	48.976	6174.27		30.66
10:57:00	49.000	6194.12		19.84
10:59:53	49.048	6241.52		47.40
11:01:19	49.072	6259.79		18.27
11:04:12	49.120	6314.63		54.84
11:05:38	49.144		249.67	
11:08:00	Bleed off W.H.P increase (due to displacement)			
11:08:31	49.192	6269.91		-44.72
11:09:58	49.216	6164.47		-105.44
11:12:50	49.264		249.69	
11:14:17	49.288	6211.64		47.17
11:17:10	49.336	6255.94		44.29
11:18:36	49.360	6268.05		12.11
11:21:29	49.408	6342.65		74.61
11:22:55	49.432	6386.10		43.45
11:25:48	49.480	6469.75		83.65
11:27:14	49.504		249.58	
11:30:07	49.552	6626.49		156.74
11:31:34	49.576	6558.15		-68.35
11:34:26	49.624		249.70	
11:35:00	Maintain W.H.P at 0 psig, by bleeding off at bubble hose			
11:35:53	49.648	6136.55		-421.60
11:38:46	49.696	6154.27		17.72
11:40:12	49.720	6152.29		-1.97
11:43:05	49.768	6129.34		-22.96
11:44:31	49.792	6131.57		2.23
11:47:24	49.840	6134.42		2.85
11:48:50	49.864		249.67	
11:51:43	49.912	6136.03		1.62
11:53:10	49.936	6141.38		5.34
11:56:02	49.984		249.67	
11:57:29	50.008	6114.15		-27.22
12:00:22	50.056	6106.66		-7.50
12:01:48	50.080	6107.51		0.85
12:04:41	50.128	6113.79		6.29
12:06:07	50.152	6134.45		20.65
12:09:00	50.200	6125.57		-8.87
12:10:26	50.224		249.67	
12:13:19	50.272	6123.84		-1.73
12:14:46	50.296	6112.03		-11.81
12:17:38	50.344		249.69	
12:18:00	Wireline on depth, fish drop bar but unable to fire guns			
12:19:05	50.368	6093.48		-18.54
12:21:58	50.416	6120.73		27.25
12:23:24	50.440	6092.28		-28.46
12:26:17	50.488	6100.09		7.81
12:27:43	50.512	6094.99		-5.10

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
12:30:36	50.560	6097.43		2.45
12:32:02	50.584		249.69	
12:34:55	50.632	6094.18		-3.25
12:36:22	50.656	6121.78		27.60
12:39:14	50.704		249.69	
12:40:41	50.728	6106.30		-15.49
12:43:34	50.776	6093.24		-13.06
12:45:00	50.800	6088.21		-5.03
12:47:53	50.848	6081.65		-6.56
12:49:19	50.872	6082.11		0.45
12:52:12	50.920	6081.58		-0.52
12:53:38	50.944		249.71	
12:56:31	50.992	6071.49		-10.09
12:57:58	51.016	6068.30		-3.19
13:00:50	51.064		249.71	
13:02:17	51.088	6065.20		-3.10
13:05:10	51.136	6067.03		1.83
13:06:36	51.160	6065.46		-1.57
13:09:29	51.208	6064.54		-0.92
13:10:55	51.232	6066.33		1.79
13:13:48	51.280	6064.15		-2.18
13:15:14	51.304		249.71	
13:18:07	51.352	6068.17		4.02
13:19:34	51.376	6062.75		-5.42
13:22:26	51.424		249.71	
13:23:53	51.448	6063.23		0.48
13:26:46	51.496	6063.89		0.66
13:28:12	51.520	6066.30		2.42
13:31:05	51.568	6062.94		-3.36
13:32:31	51.592	6064.67		1.73
13:35:24	51.640	6064.67		0.00
13:36:50	51.664		249.71	
13:39:43	51.712	6064.80		0.13
13:41:10	51.736	6064.72		-0.09
13:44:02	51.784		249.71	
13:45:29	51.808	6063.32		-1.40
13:46:00	Wireline on surface, redress drop bar			
13:48:22	51.856	6063.51		0.19
13:49:48	51.880	6063.55		0.04
13:52:41	51.928	6063.54		-0.02
13:54:07	51.952	6063.71		0.17
13:57:00	52.000	6063.84		0.13
13:58:26	52.024		249.71	
14:01:19	52.072	6063.38		-0.46
14:02:46	52.096	6063.99		0.61
14:05:38	52.144		249.71	
14:07:05	52.168	6064.02		0.03
14:09:58	52.216	6064.25		0.23
14:11:24	52.240	6063.40		-0.85
14:14:17	52.288	6063.54		0.13

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
14:15:43	52.312	6064.03		0.50
14:18:36	52.360	6063.86		-0.17
14:20:02	52.384		249.72	
14:22:55	52.432	6063.80		-0.06
14:24:22	52.456	6063.89		0.09
14:27:14	52.504		249.72	
14:28:41	52.528	6064.56		0.67
14:31:34	52.576	6064.73		0.17
14:33:00	52.600	6065.15		0.42
14:35:53	52.648	6065.46		0.31
14:37:19	52.672	6065.39		-0.07
14:40:00	Rig up wireline with new drop bar assembly			
14:40:12	52.720	6075.13		9.74
14:41:38	52.744		249.71	
14:44:31	52.792	6075.16		0.03
14:45:58	52.816	6075.07		-0.09
14:48:50	52.864		249.72	
14:50:17	52.888	6075.04		-0.03
14:53:10	52.936	6075.09		0.04
14:54:36	52.960	6082.03		6.95
14:56:00	Close lubricator valve for pressure test			
14:57:29	53.008	6080.24		-1.79
14:58:55	53.032	6081.12		0.87
15:01:48	53.080	6077.05		-4.06
15:02:00	Drop bar fires guns, (bar seperated during rig up)			
15:03:14	53.104		249.72	
15:06:07	53.152	6874.15		797.09
15:07:34	53.176	7069.89		195.74
15:10:26	53.224		249.85	
15:11:53	53.248	7488.30		418.41
15:14:46	53.296	7685.85		197.56
15:16:12	53.320	7768.74		82.88
15:18:00	Detect rise in W.H.P			
15:19:05	53.368	7053.29		-715.45
15:20:31	53.392	7200.81		147.52
15:23:24	53.440	7433.30		232.50
15:24:50	53.464		250.15	
15:27:43	53.512	7699.43		266.12
15:29:10	53.536	7770.24		70.81
15:32:02	53.584		250.27	
15:33:29	53.608	7945.81		175.57
15:35:00	Rig down Lubricator			
15:36:22	53.656	8038.99		93.18
15:37:48	53.680	8079.90		40.91
15:40:41	53.728	8152.07		72.17
15:42:07	53.752	8184.02		31.95
15:45:00	53.800	8244.20		60.18
15:46:26	53.824		250.38	
15:49:19	53.872	8318.34		74.14
15:50:46	53.896	8340.88		22.53

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
15:53:38	53.944		250.38	
15:55:05	53.968	8397.78		56.91
15:57:58	54.016	8425.62		27.84
15:59:24	54.040	8438.83		13.21
16:02:17	54.088	8463.23		24.40
16:03:43	54.112	8475.12		11.89
16:06:00	Open well on adjustable choke for initial flow			
16:06:36	54.160	6179.26		-2295.86
16:08:02	54.184		250.35	
16:10:55	54.232	6206.31		27.05
16:12:22	54.256	6217.32		11.01
16:15:14	54.304		250.45	
16:16:41	54.328	6401.44		184.12
16:17:00	Close well in at PCT and choke manifold			
16:19:34	54.376	7433.19		1031.75
16:21:00	54.400	7659.58		226.39
16:23:53	54.448	7938.79		279.21
16:25:19	54.472	8032.24		93.45
16:28:12	54.520	8170.39		138.15
16:29:38	54.544		250.37	
16:32:31	54.592	8305.87		135.48
16:33:58	54.616	8339.66		33.79
16:36:50	54.664		250.48	
16:38:17	54.688	8420.35		80.68
16:41:10	54.736	8461.49		41.14
16:42:36	54.760	8479.82		18.33
16:45:29	54.808	8512.07		32.25
16:46:55	54.832	8526.27		14.20
16:49:48	54.880	8551.94		25.67
16:51:14	54.904		250.51	
16:54:07	54.952	8584.10		32.16
16:55:34	54.976	8593.76		9.66
16:58:26	55.024		250.49	
16:59:53	55.048	8619.53		25.77
17:02:46	55.096	8634.53		15.00
17:04:12	55.120	8641.48		6.95
17:07:05	55.168	8654.52		13.04
17:08:31	55.192	8660.58		6.06
17:11:24	55.240	8672.01		11.43
17:12:50	55.264		250.44	
17:15:43	55.312	8687.52		15.51
17:17:10	55.336	8692.41		4.89
17:20:02	55.384		250.41	
17:21:29	55.408	8705.72		13.31
17:24:22	55.456	8713.09		7.37
17:25:48	55.480	8716.65		3.56
17:28:41	55.528	8723.93		7.28
17:30:07	55.552	8727.63		3.70
17:33:00	55.600	8734.35		6.72
17:34:26	55.624		250.34	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
17:37:19	55.672	8743.84		9.49
17:38:46	55.696	8746.76		2.92
17:41:38	55.744		250.33	
17:43:05	55.768	8755.03		8.27
17:45:58	55.816	8760.43		5.40
17:47:24	55.840	8762.96		2.53
17:50:17	55.888	8767.91		4.95
17:51:43	55.912	8770.28		2.37
17:54:36	55.960	8774.57		4.29
17:56:02	55.984		250.27	
17:58:55	56.032	8780.85		6.28
18:00:22	56.056	8782.88		2.03
18:03:14	56.104		250.21	
18:04:41	56.128	8788.52		5.64
18:07:34	56.176	8792.09		3.57
18:09:00	56.200	8793.80		1.71
18:11:53	56.248	8797.16		3.36
18:13:19	56.272	8798.84		1.68
18:16:12	56.320	8801.92		3.08
18:17:38	56.344		250.28	
18:20:31	56.392	8806.19		4.26
18:21:58	56.416	8807.65		1.46
18:24:50	56.464		250.23	
18:26:17	56.488	8811.75		4.10
18:29:10	56.536	8814.49		2.74
18:30:36	56.560	8815.76		1.27
18:33:29	56.608	8818.25		2.49
18:34:55	56.632	8819.55		1.31
18:37:48	56.680	8822.15		2.59
18:39:14	56.704		250.21	
18:42:07	56.752	8825.48		3.33
18:43:34	56.776	8826.57		1.09
18:46:26	56.824		250.19	
18:47:53	56.848	8829.81		3.24
18:50:46	56.896	8831.60		1.79
18:52:12	56.920	8832.44		0.83
18:55:05	56.968	8834.18		1.75
18:56:31	56.992	8835.03		0.85
18:59:24	57.040	8837.05		2.01
19:00:50	57.064		250.16	
19:03:43	57.112	8839.67		2.63
19:05:10	57.136	8840.38		0.71
19:08:02	57.184		250.14	
19:09:29	57.208	8842.92		2.53
19:12:22	57.256	8844.54		1.62
19:13:48	57.280	8845.39		0.85
19:16:41	57.328	8846.93		1.54
19:18:07	57.352	8847.68		0.76
19:21:00	57.400	8849.13		1.45
19:22:26	57.424		250.13	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
19:25:19	57.472	8851.29		2.16
19:26:46	57.496	8851.90		0.61
19:29:38	57.544		250.12	
19:31:05	57.568	8853.70		1.79
19:33:58	57.616	8854.93		1.23
19:35:24	57.640	8855.26		0.33
19:38:17	57.688	8856.30		1.04
19:39:43	57.712	8856.85		0.55
19:42:36	57.760	8857.98		1.13
19:44:02	57.784		250.11	
19:46:55	57.832	8859.48		1.50
19:48:22	57.856	8860.14		0.66
19:51:14	57.904		250.09	
19:52:41	57.928	8861.70		1.56
19:55:34	57.976	8862.31		0.61
19:57:00	58.000	8862.74		0.43
19:59:53	58.048	8863.59		0.85
20:01:19	58.072	8864.01		0.43
20:04:12	58.120	8864.42		0.41
20:05:38	58.144		250.08	
20:08:31	58.192	8865.27		0.85
20:09:58	58.216	8865.65		0.38
20:12:50	58.264		250.08	
20:14:17	58.288	8867.07		1.42
20:17:10	58.336	8867.66		0.60
20:18:36	58.360	8868.00		0.33
20:21:29	58.408	8868.93		0.93
20:22:55	58.432	8869.30		0.38
20:25:48	58.480	8869.96		0.66
20:27:14	58.504		250.06	
20:30:07	58.552	8871.10		1.13
20:31:34	58.576	8871.48		0.38
20:34:26	58.624		250.06	
20:35:53	58.648	8872.70		1.23
20:38:46	58.696	8873.45		0.74
20:40:12	58.720	8873.92		0.47
20:43:05	58.768	8874.67		0.76
20:44:31	58.792	8875.05		0.38
20:47:24	58.840	8875.60		0.55
20:48:50	58.864		250.05	
20:51:43	58.912	8877.07		1.46
20:53:10	58.936	8877.59		0.52
20:56:02	58.984		250.02	
20:57:29	59.008	8878.71		1.12
21:00:22	59.056	8879.38		0.68
21:01:48	59.080	8879.62		0.24
21:04:41	59.128	8880.33		0.71
21:06:07	59.152	8880.61		0.28
21:09:00	59.200	8881.31		0.69
21:10:26	59.224		250.02	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
21:13:19	59.272	8881.97		0.66
21:14:46	59.296	8882.11		0.14
21:17:38	59.344		250.02	
21:19:05	59.368	8883.57		1.47
21:21:58	59.416	8884.24		0.66
21:23:24	59.440	8884.71		0.47
21:26:17	59.488	8885.69		0.98
21:27:43	59.512	8886.13		0.44
21:30:36	59.560	8887.07		0.95
21:32:02	59.584		250.01	
21:34:55	59.632	8888.29		1.21
21:36:22	59.656	8888.71		0.43
21:39:14	59.704		250.01	
21:40:41	59.728	8889.75		1.04
21:43:34	59.776	8890.55		0.80
21:45:00	59.800	8890.84		0.28
21:47:53	59.848	8891.30		0.46
21:49:19	59.872	8891.44		0.14
21:52:12	59.920	8891.86		0.43
21:53:38	59.944		250.01	
21:56:31	59.992	8892.05		0.19
21:57:58	60.016	8892.00		-0.05
22:00:50	60.064		250.00	
22:02:17	60.088	8892.71		0.71
22:05:10	60.136	8893.23		0.52
22:06:36	60.160	8893.42		0.19
22:09:29	60.208	8893.74		0.32
22:10:55	60.232	8893.94		0.20
22:13:48	60.280	8894.56		0.61
22:15:14	60.304		249.99	
22:18:07	60.352	8895.36		0.80
22:19:34	60.376	8895.64		0.28
22:22:26	60.424		249.99	
22:23:53	60.448	8896.67		1.02
22:26:46	60.496	8897.58		0.91
22:28:12	60.520	8897.90		0.32
22:31:05	60.568	8898.37		0.47
22:32:31	60.592	8898.66		0.28
22:35:24	60.640	8899.13		0.47
22:36:50	60.664		249.99	
22:39:43	60.712	8900.06		0.93
22:41:10	60.736	8900.20		0.14
22:44:02	60.784		249.98	
22:45:29	60.808	8900.91		0.71
22:48:22	60.856	8901.33		0.43
22:49:48	60.880	8901.48		0.14
22:52:41	60.928	8902.19		0.71
22:54:07	60.952	8902.75		0.57
22:57:00	61.000	8903.18		0.43
22:58:26	61.024		249.98	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 08/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
23:01:19	61.072	8903.70		0.52
23:02:46	61.096	8903.56		-0.14
23:05:38	61.144		249.98	
23:07:05	61.168	8904.55		0.99
23:09:58	61.216	8904.98		0.43
23:11:24	61.240	8905.01		0.03
23:14:17	61.288	8905.72		0.71
23:15:43	61.312	8906.00		0.28
23:18:36	61.360	8906.38		0.38
23:20:02	61.384		249.97	
23:22:55	61.432	8906.85		0.47
23:24:22	61.456	8906.95		0.09
23:27:14	61.504		249.95	
23:28:41	61.528	8907.83		0.88
23:31:34	61.576	8908.18		0.35
23:33:00	61.600	8908.27		0.09
23:35:53	61.648	8908.70		0.43
23:37:19	61.672	8908.85		0.16
23:40:12	61.720	8908.71		-0.14
23:41:38	61.744		249.97	
23:44:31	61.792	8908.22		-0.49
23:45:58	61.816	8908.51		0.28
23:48:50	61.864		249.97	
23:50:17	61.888	8909.26		0.76
23:53:10	61.936	8909.89		0.63
23:54:36	61.960	8909.99		0.09
23:57:29	62.008	8909.33		-0.66
23:58:55	62.032	8908.55		-0.77
00:01:48	62.080	8907.89		-0.66
00:03:14	62.104		249.97	
00:06:07	62.152	8908.57		0.68
00:07:34	62.176	8908.71		0.14
00:10:26	62.224		249.98	
00:11:53	62.248	8909.09		0.38
00:14:46	62.296	8909.36		0.27
00:16:12	62.320	8909.52		0.16
00:19:05	62.368	8909.66		0.14
00:20:31	62.392	8909.75		0.09
00:23:24	62.440	8910.05		0.30
00:24:50	62.464		249.98	
00:27:43	62.512	8910.18		0.13
00:29:10	62.536	8910.23		0.05
00:32:02	62.584		249.98	
00:33:29	62.608	8910.37		0.14
00:36:22	62.656	8910.32		-0.05
00:37:48	62.680	8910.70		0.38
00:40:41	62.728	8911.27		0.57
00:42:07	62.752	8911.85		0.58
00:45:00	62.800	8912.79		0.95
00:46:26	62.824		249.99	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:49:19	62.872	8913.60		0.80
00:50:46	62.896	8913.83		0.24
00:53:38	62.944		249.99	
00:55:05	62.968	8913.36		-0.47
00:57:58	63.016	8913.79		0.43
00:59:24	63.040	8914.15		0.36
01:02:17	63.088	8914.95		0.80
01:03:43	63.112	8915.38		0.43
01:06:36	63.160	8916.06		0.68
01:08:02	63.184		249.98	
01:10:55	63.232	8916.37		0.32
01:12:22	63.256	8915.43		-0.95
01:15:14	63.304		249.98	
01:16:41	63.328	8915.90		0.47
01:19:34	63.376	8916.12		0.22
01:21:00	63.400	8916.37		0.25
01:23:53	63.448	8916.71		0.33
01:25:19	63.472	8916.88		0.17
01:28:12	63.520	8916.88		0.00
01:29:38	63.544		249.98	
01:32:31	63.592	8917.13		0.25
01:33:58	63.616	8917.27		0.14
01:36:50	63.664		249.98	
01:38:17	63.688	8917.84		0.57
01:41:10	63.736	8918.20		0.36
01:42:36	63.760	8918.41		0.20
01:45:29	63.808	8917.26		-1.15
01:46:55	63.832	8917.54		0.28
01:49:48	63.880	8918.35		0.80
01:51:14	63.904		249.97	
01:54:07	63.952	8918.96		0.61
01:55:34	63.976	8918.96		0.00
01:58:26	64.024		249.97	
01:59:53	64.048	8919.34		0.38
02:02:46	64.096	8919.76		0.43
02:04:12	64.120	8919.91		0.14
02:07:05	64.168	8920.19		0.28
02:08:31	64.192	8920.19		0.00
02:11:24	64.240	8920.38		0.19
02:12:50	64.264		249.97	
02:15:43	64.312	8920.71		0.33
02:17:10	64.336	8920.85		0.14
02:20:02	64.384		249.95	
02:21:29	64.408	8921.03		0.17
02:24:22	64.456	8920.90		-0.13
02:25:48	64.480	8920.93		0.03
02:28:41	64.528	8921.45		0.52
02:30:07	64.552	8921.74		0.28
02:33:00	64.600	8922.02		0.28
02:34:26	64.624		249.97	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
02:37:19	64.672	8922.41		0.39
02:38:46	64.696	8922.56		0.14
02:41:38	64.744		249.97	
02:43:05	64.768	8922.75		0.19
02:45:58	64.816	8922.76		0.02
02:47:24	64.840	8922.89		0.13
02:50:17	64.888	8923.36		0.47
02:51:43	64.912	8923.45		0.09
02:54:36	64.960	8923.69		0.24
02:56:02	64.984		249.97	
02:58:55	65.032	8923.79		0.09
03:00:22	65.056	8923.60		-0.19
03:03:14	65.104		249.97	
03:04:41	65.128	8923.41		-0.19
03:07:34	65.176	8923.41		0.00
03:09:00	65.200	8923.74		0.33
03:11:53	65.248	8924.02		0.28
03:13:19	65.272	8924.35		0.33
03:16:12	65.320	8924.59		0.24
03:17:38	65.344		249.97	
03:20:31	65.392	8925.06		0.47
03:21:58	65.416	8925.30		0.24
03:24:50	65.464		249.97	
03:26:17	65.488	8925.63		0.33
03:29:10	65.536	8925.87		0.24
03:30:36	65.560	8925.96		0.09
03:33:29	65.608	8926.15		0.19
03:34:55	65.632	8926.39		0.24
03:37:48	65.680	8926.53		0.14
03:39:14	65.704		249.97	
03:42:07	65.752	8926.91		0.38
03:43:34	65.776	8927.15		0.24
03:46:26	65.824		249.97	
03:47:53	65.848	8927.29		0.14
03:50:46	65.896	8927.48		0.19
03:52:12	65.920	8927.52		0.05
03:55:05	65.968	8927.29		-0.24
03:56:31	65.992	8927.29		0.00
03:59:24	66.040	8927.54		0.25
04:00:50	66.064		249.97	
04:03:43	66.112	8928.19		0.65
04:05:10	66.136	8928.33		0.14
04:08:02	66.184		249.98	
04:09:29	66.208	8928.67		0.35
04:12:22	66.256	8928.80		0.13
04:13:48	66.280	8928.90		0.09
04:16:41	66.328	8929.27		0.38
04:18:07	66.352	8929.37		0.09
04:21:00	66.400	8929.98		0.62
04:22:26	66.424		249.97	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
04:25:19	66.472	8930.84		0.85
04:26:46	66.496	8930.88		0.05
04:29:38	66.544		249.98	
04:31:05	66.568	8930.05		-0.84
04:33:58	66.616	8929.89		-0.16
04:35:24	66.640	8930.08		0.19
04:38:17	66.688	8930.36		0.28
04:39:43	66.712	8930.71		0.35
04:42:36	66.760	8931.07		0.36
04:44:02	66.784		249.97	
04:46:55	66.832	8931.40		0.33
04:48:22	66.856	8931.50		0.09
04:51:14	66.904		249.98	
04:52:41	66.928	8931.56		0.06
04:55:34	66.976	8931.59		0.03
04:57:00	67.000	8931.55		-0.05
04:59:53	67.048	8931.75		0.20
05:01:19	67.072	8931.89		0.14
05:04:12	67.120	8932.18		0.28
05:05:38	67.144		249.98	
05:08:31	67.192	8932.26		0.08
05:09:58	67.216	8932.35		0.09
05:12:50	67.264		249.97	
05:14:17	67.288	8932.63		0.28
05:17:10	67.336	8932.74		0.11
05:18:36	67.360	8932.60		-0.14
05:21:29	67.408	8932.55		-0.05
05:22:55	67.432	8932.59		0.03
05:25:48	67.480	8932.74		0.16
05:27:14	67.504		249.98	
05:30:07	67.552	8933.17		0.43
05:31:34	67.576	8933.22		0.05
05:34:26	67.624		249.98	
05:35:53	67.648	8933.36		0.14
05:38:46	67.696	8935.16		1.80
05:40:12	67.720	8935.03		-0.13
05:43:05	67.768	8937.16		2.13
05:43:20	Pressurise annulus, open PCT			
05:44:31	67.792	7924.35		-1012.82
05:47:24	67.840	8109.15		184.80
05:48:30	Open well at choke manifold, flowing to Gauge tank			
05:48:50	67.864		250.50	
05:51:43	67.912	6270.75		-1838.40
05:53:10	67.936	6272.03		1.27
05:56:02	67.984		250.50	
05:57:29	68.008	6274.96		2.93
06:00:22	68.056	6275.14		0.18
06:01:48	68.080	6274.91		-0.23
06:04:41	68.128	6274.68		-0.23
06:06:07	68.152	6274.77		0.09

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
06:09:00	68.200	6273.97		-0.80
06:10:26	68.224		250.85	
06:13:19	68.272	6272.74		-1.23
06:14:46	68.296	6272.56		-0.18
06:17:38	68.344		251.04	
06:19:05	68.368	6269.57		-2.99
06:21:58	68.416	6268.15		-1.42
06:23:24	68.440	6267.49		-0.67
06:26:17	68.488	6266.16		-1.33
06:27:43	68.512	6265.44		-0.71
06:30:36	68.560	6263.56		-1.89
06:32:02	68.584		251.34	
06:34:55	68.632	6279.28		15.72
06:36:22	68.656	6285.09		5.80
06:39:14	68.704		251.52	
06:40:41	68.728	6298.21		13.13
06:43:34	68.776	6298.70		0.49
06:45:00	68.800	6299.03		0.33
06:47:53	68.848	6298.78		-0.25
06:49:19	68.872	6298.84		0.06
06:52:12	68.920	6301.24		2.39
06:53:38	68.944		251.81	
06:56:31	68.992	6302.22		0.98
06:57:58	69.016	6301.95		-0.26
07:00:50	69.064		251.96	
07:02:17	69.088	6303.25		1.30
07:05:10	69.136	6303.05		-0.20
07:06:36	69.160	6303.33		0.28
07:09:29	69.208	6303.07		-0.26
07:10:55	69.232	6302.38		-0.69
07:13:48	69.280	6302.89		0.50
07:15:14	69.304		252.21	
07:18:07	69.352	6303.07		0.18
07:19:34	69.376	6302.41		-0.66
07:22:26	69.424		252.34	
07:23:53	69.448	6302.58		0.17
07:26:46	69.496	6302.49		-0.08
07:28:12	69.520	6302.78		0.28
07:31:05	69.568	6302.19		-0.58
07:32:31	69.592	6302.61		0.41
07:35:24	69.640	6302.58		-0.03
07:36:50	69.664		252.59	
07:39:43	69.712	6301.63		-0.95
07:41:10	69.736	6300.71		-0.92
07:44:02	69.784		252.70	
07:45:29	69.808	6298.89		-1.83
07:48:22	69.856	6297.25		-1.64
07:49:48	69.880	6297.07		-0.17
07:52:41	69.928	6293.82		-3.25
07:54:07	69.952	6292.79		-1.04

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:57:00	70.000	6290.37		-2.42
07:58:26	70.024		252.91	
08:01:19	70.072	6287.67		-2.70
08:02:46	70.096	6286.96		-0.70
08:05:38	70.144		253.01	
08:07:05	70.168	6285.84		-1.12
08:09:58	70.216	6284.98		-0.86
08:11:24	70.240	6285.02		0.05
08:14:17	70.288	6284.06		-0.96
08:15:43	70.312	6284.30		0.24
08:18:36	70.360	6284.15		-0.14
08:20:02	70.384		253.19	
08:22:55	70.432	6283.86		-0.29
08:24:22	70.456	6283.95		0.09
08:27:14	70.504		253.26	
08:28:41	70.528	6284.34		0.39
08:31:34	70.576	6284.17		-0.17
08:33:00	70.600	6284.78		0.62
08:35:53	70.648	6284.77		-0.01
08:37:19	70.672	6284.70		-0.07
08:40:12	70.720	6284.43		-0.28
08:41:38	70.744		253.45	
08:44:31	70.792	6284.44		0.02
08:45:58	70.816	6284.44		0.00
08:48:50	70.864		253.52	
08:50:17	70.888	6284.73		0.28
08:53:10	70.936	6284.41		-0.32
08:54:36	70.960	6284.55		0.15
08:57:29	71.008	6284.78		0.22
08:58:55	71.032	6284.70		-0.07
09:01:48	71.080	6284.80		0.09
09:03:14	71.104		253.65	
09:06:07	71.152	6285.02		0.22
09:07:34	71.176	6285.02		0.00
09:10:26	71.224		253.71	
09:11:53	71.248	6285.37		0.35
09:14:46	71.296	6285.01		-0.36
09:16:12	71.320	6285.24		0.24
09:19:05	71.368	6285.14		-0.10
09:20:31	71.392	6285.42		0.28
09:23:24	71.440	6285.63		0.21
09:24:50	71.464		253.82	
09:27:43	71.512	6285.53		-0.10
09:29:10	71.536	6285.49		-0.04
09:32:02	71.584		253.87	
09:33:29	71.608	6285.15		-0.34
09:36:22	71.656	6285.50		0.35
09:37:48	71.680	6285.56		0.06
09:40:41	71.728	6285.32		-0.24
09:42:07	71.752	6285.55		0.24

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:45:00	71.800	6285.41		-0.14
09:46:26	71.824		253.97	
09:49:19	71.872	6285.71		0.30
09:50:46	71.896	6285.40		-0.31
09:53:38	71.944		254.03	
09:55:05	71.968	6285.68		0.28
09:57:58	72.016	6285.65		-0.03
09:59:24	72.040	6285.36		-0.29
10:02:17	72.088	6285.42		0.06
10:03:43	72.112	6285.54		0.12
10:06:36	72.160	6286.04		0.50
10:08:02	72.184		254.13	
10:10:55	72.232	6286.13		0.09
10:12:22	72.256	6285.82		-0.31
10:15:14	72.304		254.17	
10:16:41	72.328	6286.31		0.49
10:19:34	72.376	6286.13		-0.18
10:21:00	72.400	6286.03		-0.10
10:23:53	72.448	6286.09		0.06
10:25:19	72.472	6286.27		0.18
10:28:12	72.520	6285.86		-0.41
10:29:38	72.544		254.24	
10:32:31	72.592	6286.27		0.41
10:33:58	72.616	6286.23		-0.04
10:36:50	72.664		254.27	
10:38:17	72.688	6286.35		0.12
10:41:10	72.736	6286.33		-0.01
10:42:36	72.760	6286.00		-0.34
10:45:29	72.808	6285.24		-0.76
10:46:55	72.832	6285.21		-0.03
10:49:48	72.880	6285.31		0.10
10:51:14	72.904		254.36	
10:54:07	72.952	6285.30		-0.01
10:55:34	72.976	6285.34		0.04
10:58:26	73.024		254.38	
10:59:53	73.048	6285.23		-0.12
11:02:46	73.096	6284.80		-0.42
11:04:12	73.120	6285.14		0.34
11:07:05	73.168	6285.09		-0.06
11:08:31	73.192	6285.31		0.22
11:11:24	73.240	6285.31		0.00
11:12:50	73.264		254.45	
11:15:43	73.312	6285.47		0.16
11:17:10	73.336	6285.43		-0.04
11:20:02	73.384		254.48	
11:21:29	73.408	6285.48		0.06
11:24:22	73.456	6285.70		0.22
11:25:48	73.480	6285.76		0.06
11:28:41	73.528	6285.59		-0.17
11:30:07	73.552	6285.52		-0.07

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
11:33:00	73.600	6285.58		0.06
11:34:26	73.624		254.56	
11:37:19	73.672	6285.81		0.24
11:38:46	73.696	6285.77		-0.04
11:41:38	73.744		254.57	
11:43:05	73.768	6286.01		0.24
11:45:58	73.816	6285.98		-0.03
11:47:24	73.840	6285.98		0.00
11:50:17	73.888	6285.99		0.02
11:51:43	73.912	6286.02		0.03
11:54:36	73.960	6286.08		0.06
11:56:02	73.984		254.64	
11:58:55	74.032	6286.04		-0.04
12:00:22	74.056	6286.04		0.00
12:03:14	74.104		254.65	
12:04:41	74.128	6286.25		0.21
12:07:34	74.176	6286.22		-0.03
12:09:00	74.200	6286.19		-0.03
12:11:53	74.248	6286.28		0.09
12:13:19	74.272	6286.43		0.15
12:16:12	74.320	6286.41		-0.01
12:17:38	74.344		254.70	
12:20:31	74.392	6286.19		-0.22
12:21:58	74.416	6286.28		0.09
12:24:50	74.464		254.73	
12:26:17	74.488	6286.14		-0.14
12:29:10	74.536	6286.37		0.24
12:30:36	74.560	6286.48		0.10
12:33:29	74.608	6286.49		0.02
12:34:55	74.632	6286.36		-0.13
12:37:48	74.680	6286.83		0.47
12:39:14	74.704		254.79	
12:42:07	74.752	6287.27		0.44
12:43:34	74.776	6287.18		-0.09
12:46:26	74.824		254.80	
12:47:53	74.848	6287.37		0.19
12:50:46	74.896	6287.36		-0.01
12:52:12	74.920	6287.49		0.13
12:55:05	74.968	6287.52		0.03
12:56:31	74.992	6287.45		-0.07
12:59:24	75.040	6287.44		-0.01
13:00:50	75.064		254.85	
13:03:43	75.112	6287.32		-0.12
13:05:10	75.136	6287.28		-0.04
13:08:02	75.184		254.86	
13:09:29	75.208	6287.01		-0.26
13:12:22	75.256	6287.10		0.09
13:13:48	75.280	6287.07		-0.03
13:16:41	75.328	6287.09		0.02
13:18:07	75.352	6287.19		0.10

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:21:00	75.400	6287.35		0.16
13:22:26	75.424		254.89	
13:25:19	75.472	6287.24		-0.12
13:26:46	75.496	6287.19		-0.04
13:29:38	75.544		254.91	
13:31:05	75.568	6287.12		-0.07
13:33:58	75.616	6287.18		0.06
13:35:24	75.640	6287.12		-0.06
13:38:17	75.688	6287.14		0.02
13:39:43	75.712	6287.06		-0.07
13:42:36	75.760	6287.20		0.13
13:44:02	75.784		254.94	
13:46:55	75.832	6287.34		0.15
13:48:22	75.856	6287.26		-0.09
13:51:14	75.904		254.98	
13:52:41	75.928	6287.08		-0.17
13:55:34	75.976	6286.75		-0.34
13:57:00	76.000	6286.72		-0.03
13:59:53	76.048	6286.98		0.26
14:01:19	76.072	6286.97		-0.01
14:04:12	76.120	6286.66		-0.31
14:05:38	76.144		255.05	
14:08:31	76.192	6286.71		0.05
14:09:58	76.216	6286.71		0.00
14:12:50	76.264		255.06	
14:14:17	76.288	6286.93		0.22
14:17:10	76.336	6286.88		-0.04
14:18:36	76.360	6286.93		0.04
14:21:29	76.408	6287.08		0.15
14:22:55	76.432	6287.02		-0.06
14:25:48	76.480	6286.98		-0.04
14:27:14	76.504		255.09	
14:30:07	76.552	6286.98		0.00
14:31:34	76.576	6286.98		0.00
14:34:26	76.624		255.09	
14:35:53	76.648	6286.98		0.00
14:38:46	76.696	6287.20		0.22
14:40:12	76.720	6287.24		0.04
14:43:05	76.768	6287.46		0.22
14:44:31	76.792	6287.42		-0.04
14:47:24	76.840	6287.68		0.26
14:48:50	76.864		255.09	
14:51:43	76.912	6287.81		0.13
14:53:10	76.936	6287.72		-0.09
14:56:02	76.984		255.09	
14:57:29	77.008	6287.72		0.00
15:00:22	77.056	6288.18		0.46
15:01:48	77.080	6288.27		0.09
15:04:41	77.128	6288.31		0.04
15:06:07	77.152	6288.44		0.13

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
15:09:00	77.200	6288.62		0.18
15:10:26	77.224		255.10	
15:13:19	77.272	6288.71		0.09
15:14:46	77.296	6288.84		0.13
15:17:38	77.344		255.12	
15:19:05	77.368	6289.20		0.37
15:21:58	77.416	6289.56		0.35
15:23:24	77.440	6289.80		0.25
15:26:17	77.488	6289.91		0.10
15:27:43	77.512	6290.26		0.35
15:30:36	77.560	6290.39		0.13
15:32:02	77.584		255.12	
15:34:55	77.632	6290.93		0.54
15:36:22	77.656	6291.15		0.22
15:39:14	77.704		255.13	
15:40:41	77.728	6291.42		0.26
15:43:34	77.776	6291.29		-0.13
15:45:00	77.800	6291.42		0.13
15:47:53	77.848	6291.11		-0.31
15:49:19	77.872	6291.20		0.09
15:52:12	77.920	6291.29		0.09
15:53:38	77.944		255.13	
15:56:31	77.992	6290.93		-0.35
15:57:58	78.016	6291.37		0.44
16:00:50	78.064		255.13	
16:02:17	78.088	6291.77		0.40
16:05:10	78.136	6291.81		0.04
16:06:36	78.160	6291.86		0.04
16:09:29	78.208	6292.03		0.18
16:10:55	78.232	6291.95		-0.09
16:13:48	78.280	6292.12		0.18
16:15:14	78.304		255.13	
16:18:07	78.352	6292.25		0.13
16:19:34	78.376	6292.25		0.00
16:22:26	78.424		255.13	
16:23:53	78.448	6292.74		0.48
16:26:46	78.496	6292.84		0.10
16:28:12	78.520	6292.84		0.00
16:31:05	78.568	6292.52		-0.32
16:32:31	78.592	6292.71		0.19
16:35:24	78.640	6292.78		0.07
16:36:50	78.664		255.14	
16:39:43	78.712	6292.86		0.08
16:41:10	78.736	6292.64		-0.22
16:44:02	78.784		255.16	
16:45:29	78.808	6292.78		0.15
16:48:22	78.856	6293.36		0.57
16:49:48	78.880	6293.56		0.21
16:52:41	78.928	6293.69		0.13
16:54:07	78.952	6293.72		0.03

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:57:00	79.000	6293.99		0.26
16:58:26	79.024		255.19	
17:01:19	79.072	6294.41		0.43
17:02:46	79.096	6294.41		0.00
17:05:38	79.144		255.21	
17:07:05	79.168	6294.69		0.28
17:09:58	79.216	6294.81		0.12
17:11:24	79.240	6294.86		0.04
17:14:17	79.288	6294.61		-0.25
17:15:43	79.312	6294.78		0.18
17:18:36	79.360	6294.49		-0.30
17:20:02	79.384		255.21	
17:22:55	79.432	6294.53		0.04
17:24:22	79.456	6294.80		0.26
17:27:14	79.504		255.24	
17:28:41	79.528	6295.00		0.21
17:31:34	79.576	6295.74		0.73
17:33:00	79.600	6295.96		0.22
17:35:53	79.648	6295.84		-0.12
17:37:19	79.672	6296.02		0.18
17:40:12	79.720	6296.23		0.21
17:41:38	79.744		255.35	
17:44:31	79.792	6296.45		0.23
17:45:58	79.816	6296.41		-0.04
17:48:50	79.864		255.41	
17:50:17	79.888	6296.72		0.31
17:53:10	79.936	6296.69		-0.03
17:54:36	79.960	6296.77		0.08
17:57:29	80.008	6296.80		0.03
17:58:55	80.032	6296.84		0.05
18:01:48	80.080	6296.95		0.10
18:03:14	80.104		255.54	
18:06:07	80.152	6297.21		0.27
18:07:34	80.176	6297.30		0.09
18:10:26	80.224		255.61	
18:11:53	80.248	6297.29		-0.01
18:14:46	80.296	6297.54		0.25
18:16:12	80.320	6297.65		0.10
18:19:05	80.368	6297.78		0.13
18:20:31	80.392	6297.97		0.19
18:23:24	80.440	6298.08		0.10
18:24:50	80.464		255.69	
18:27:43	80.512	6298.25		0.18
18:29:10	80.536	6298.21		-0.04
18:32:02	80.584		255.73	
18:33:29	80.608	6298.26		0.05
18:36:22	80.656	6298.01		-0.25
18:37:48	80.680	6297.97		-0.04
18:40:41	80.728	6297.98		0.02
18:42:07	80.752	6298.10		0.12

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
18:45:00	80.800	6298.35		0.25
18:46:26	80.824		255.80	
18:49:19	80.872	6298.82		0.47
18:50:46	80.896	6298.95		0.13
18:53:38	80.944		255.86	
18:55:05	80.968	6299.62		0.66
18:57:58	81.016	6299.90		0.28
18:59:24	81.040	6300.15		0.25
19:02:17	81.088	6300.30		0.15
19:03:43	81.112	6300.43		0.13
19:06:36	81.160	6300.66		0.24
19:08:02	81.184		255.93	
19:10:55	81.232	6300.81		0.15
19:12:22	81.256	6300.85		0.04
19:15:14	81.304		255.96	
19:16:41	81.328	6301.24		0.38
19:19:34	81.376	6301.63		0.40
19:21:00	81.400	6301.84		0.21
19:23:53	81.448	6302.05		0.20
19:25:19	81.472	6302.25		0.21
19:28:12	81.520	6302.28		0.03
19:29:38	81.544		256.03	
19:32:31	81.592	6302.86		0.57
19:33:58	81.616	6303.08		0.22
19:36:50	81.664		256.05	
19:38:17	81.688	6303.17		0.09
19:41:10	81.736	6303.58		0.41
19:42:36	81.760	6303.65		0.08
19:45:29	81.808	6303.52		-0.13
19:46:55	81.832	6303.81		0.29
19:49:48	81.880	6303.99		0.18
19:51:14	81.904		256.10	
19:54:07	81.952	6304.28		0.30
19:55:34	81.976	6304.46		0.18
19:58:26	82.024		256.11	
19:59:53	82.048	6304.78		0.32
20:02:46	82.096	6305.15		0.37
20:04:12	82.120	6305.26		0.10
20:07:05	82.168	6305.64		0.38
20:08:31	82.192	6305.69		0.06
20:11:24	82.240	6305.96		0.27
20:12:50	82.264		256.16	
20:15:43	82.312	6306.31		0.35
20:17:10	82.336	6306.31		0.00
20:20:02	82.384		256.20	
20:21:29	82.408	6306.45		0.14
20:24:22	82.456	6306.62		0.18
20:25:48	82.480	6306.92		0.30
20:28:41	82.528	6307.14		0.22
20:30:07	82.552	6307.38		0.24

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:33:00	82.600	6307.73		0.35
20:34:26	82.624		256.23	
20:37:19	82.672	6307.96		0.24
20:38:46	82.696	6307.87		-0.09
20:41:38	82.744		256.27	
20:43:05	82.768	6308.39		0.52
20:45:58	82.816	6308.39		0.00
20:47:24	82.840	6308.45		0.06
20:50:17	82.888	6308.64		0.19
20:51:43	82.912	6308.66		0.02
20:54:36	82.960	6308.86		0.21
20:56:02	82.984		256.32	
20:58:55	83.032	6309.26		0.40
21:00:22	83.056	6309.17		-0.09
21:03:14	83.104		256.32	
21:04:41	83.128	6309.42		0.25
21:07:34	83.176	6309.66		0.24
21:09:00	83.200	6309.82		0.16
21:11:53	83.248	6309.89		0.08
21:13:19	83.272	6310.02		0.13
21:16:12	83.320	6310.39		0.37
21:17:38	83.344		256.35	
21:20:31	83.392	6310.63		0.24
21:21:58	83.416	6310.85		0.22
21:24:50	83.464		256.35	
21:26:17	83.488	6311.23		0.38
21:29:10	83.536	6311.59		0.37
21:30:36	83.560	6311.86		0.26
21:33:29	83.608	6312.08		0.22
21:34:55	83.632	6312.25		0.18
21:37:48	83.680	6312.34		0.09
21:39:14	83.704		256.37	
21:42:07	83.752	6313.15		0.81
21:43:34	83.776	6313.15		0.00
21:46:26	83.824		256.39	
21:47:53	83.848	6313.74		0.59
21:50:46	83.896	6314.12		0.38
21:52:12	83.920	6314.13		0.02
21:55:05	83.968	6314.28		0.15
21:56:31	83.992	6314.50		0.22
21:59:24	84.040	6314.78		0.28
22:00:50	84.064		256.41	
22:03:43	84.112	6315.32		0.54
22:05:10	84.136	6315.32		0.00
22:08:02	84.184		256.43	
22:09:29	84.208	6315.74		0.41
22:12:22	84.256	6316.10		0.37
22:13:48	84.280	6316.38		0.28
22:16:41	84.328	6316.65		0.26
22:18:07	84.352	6316.69		0.04

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 09/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
22:21:00	84.400	6317.10		0.41
22:22:26	84.424		256.46	
22:25:19	84.472	6317.72		0.62
22:26:46	84.496	6317.89		0.18
22:29:38	84.544		256.47	
22:31:05	84.568	6317.89		0.00
22:33:58	84.616	6318.29		0.40
22:35:24	84.640	6318.39		0.10
22:38:17	84.688	6318.55		0.16
22:39:43	84.712	6318.73		0.18
22:42:36	84.760	6318.82		0.09
22:44:02	84.784		256.47	
22:46:55	84.832	6319.05		0.24
22:48:22	84.856	6319.19		0.13
22:51:14	84.904		256.48	
22:52:41	84.928	6319.41		0.22
22:55:34	84.976	6319.55		0.15
22:57:00	85.000	6319.55		0.00
22:59:53	85.048	6319.90		0.35
23:01:19	85.072	6319.83		-0.07
23:04:12	85.120	6320.10		0.26
23:05:38	85.144		256.49	
23:08:31	85.192	6320.39		0.29
23:09:58	85.216	6320.52		0.13
23:12:50	85.264		256.50	
23:14:17	85.288	6320.76		0.24
23:17:10	85.336	6321.08		0.32
23:18:36	85.360	6321.05		-0.03
23:21:29	85.408	6321.31		0.26
23:22:55	85.432	6321.33		0.02
23:25:48	85.480	6321.74		0.41
23:27:14	85.504		256.51	
23:30:07	85.552	6322.00		0.26
23:31:34	85.576	6322.14		0.13
23:34:26	85.624		256.51	
23:35:53	85.648	6322.44		0.31
23:38:46	85.696	6322.55		0.10
23:40:12	85.720	6322.53		-0.02
23:43:05	85.768	6323.03		0.50
23:44:31	85.792	6323.14		0.10
23:47:24	85.840	6323.30		0.16
23:48:50	85.864		256.53	
23:51:43	85.912	6323.58		0.28
23:53:10	85.936	6323.62		0.04
23:56:02	85.984		256.54	
23:57:29	86.008	6323.75		0.13
00:00:22	86.056	6323.90		0.15
00:01:48	86.080	6323.99		0.09
00:04:41	86.128	6324.13		0.14
00:06:07	86.152	6324.15		0.02

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:09:00	86.200	6324.32		0.18
00:10:26	86.224		256.55	
00:13:19	86.272	6324.57		0.25
00:14:46	86.296	6324.66		0.09
00:17:38	86.344		256.55	
00:19:05	86.368	6325.00		0.34
00:21:58	86.416	6324.78		-0.22
00:23:24	86.440	6324.40		-0.38
00:26:17	86.488	6324.53		0.13
00:27:43	86.512	6324.49		-0.04
00:30:36	86.560	6324.66		0.18
00:32:02	86.584		256.57	
00:34:55	86.632	6325.12		0.46
00:36:22	86.656	6325.16		0.04
00:39:14	86.704		256.57	
00:40:41	86.728	6325.34		0.18
00:43:34	86.776	6325.51		0.18
00:45:00	86.800	6325.60		0.09
00:47:53	86.848	6325.78		0.18
00:49:19	86.872	6325.91		0.13
00:52:12	86.920	6326.00		0.09
00:53:38	86.944		256.58	
00:56:31	86.992	6326.19		0.19
00:57:58	87.016	6326.28		0.09
01:00:50	87.064		256.57	
01:02:17	87.088	6326.39		0.12
01:05:10	87.136	6326.61		0.22
01:06:36	87.160	6326.64		0.03
01:09:29	87.208	6326.83		0.19
01:10:55	87.232	6326.88		0.04
01:13:48	87.280	6326.92		0.04
01:15:14	87.304		256.58	
01:18:07	87.352	6327.33		0.41
01:19:34	87.376	6327.38		0.04
01:22:26	87.424		256.58	
01:23:53	87.448	6327.51		0.13
01:26:46	87.496	6327.75		0.24
01:28:12	87.520	6327.83		0.09
01:31:05	87.568	6327.85		0.02
01:32:31	87.592	6327.94		0.09
01:35:24	87.640	6328.13		0.19
01:36:50	87.664		256.61	
01:39:43	87.712	6328.31		0.18
01:41:10	87.736	6328.35		0.04
01:44:02	87.784		256.62	
01:45:29	87.808	6328.53		0.18
01:48:22	87.856	6328.48		-0.04
01:49:48	87.880	6328.70		0.22
01:52:41	87.928	6328.83		0.13
01:54:07	87.952	6328.79		-0.04

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
01:57:00	88.000	6328.72		-0.07
01:58:26	88.024		256.63	
02:01:19	88.072	6329.39		0.67
02:02:46	88.096	6329.52		0.13
02:05:38	88.144		256.61	
02:07:05	88.168	6329.70		0.18
02:09:58	88.216	6329.89		0.19
02:11:24	88.240	6329.99		0.10
02:14:17	88.288	6330.21		0.22
02:15:43	88.312	6330.21		0.00
02:18:36	88.360	6330.26		0.04
02:20:02	88.384		256.63	
02:22:55	88.432	6330.52		0.26
02:24:22	88.456	6330.57		0.04
02:27:14	88.504		256.64	
02:28:41	88.528	6330.76		0.19
02:31:34	88.576	6330.87		0.12
02:33:00	88.600	6330.98		0.10
02:35:53	88.648	6331.01		0.03
02:37:19	88.672	6331.23		0.22
02:40:12	88.720	6331.31		0.09
02:41:38	88.744		256.63	
02:44:31	88.792	6331.36		0.04
02:45:58	88.816	6331.53		0.18
02:48:50	88.864		256.63	
02:50:17	88.888	6331.84		0.31
02:53:10	88.936	6331.99		0.15
02:54:36	88.960	6332.03		0.04
02:57:29	89.008	6332.11		0.07
02:58:55	89.032	6332.12		0.02
03:01:48	89.080	6332.30		0.18
03:03:14	89.104		256.65	
03:06:07	89.152	6332.40		0.10
03:07:34	89.176	6332.44		0.04
03:10:26	89.224		256.65	
03:11:53	89.248	6332.00		-0.44
03:14:46	89.296	6332.66		0.66
03:16:12	89.320	6332.75		0.09
03:19:05	89.368	6333.15		0.40
03:20:31	89.392	6333.10		-0.04
03:23:24	89.440	6333.38		0.28
03:24:50	89.464		256.67	
03:27:43	89.512	6333.72		0.34
03:29:10	89.536	6333.63		-0.09
03:32:02	89.584		256.67	
03:33:29	89.608	6333.96		0.32
03:36:22	89.656	6334.00		0.04
03:37:48	89.680	6334.00		0.00
03:40:41	89.728	6334.28		0.28
03:42:07	89.752	6334.46		0.18

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:45:00	89.800	6334.40		-0.06
03:46:26	89.824		256.68	
03:49:19	89.872	6334.59		0.19
03:50:46	89.896	6334.10		-0.48
03:53:38	89.944		256.68	
03:55:05	89.968	6334.32		0.22
03:57:58	90.016	6334.08		-0.25
03:59:24	90.040	6333.37		-0.70
04:02:17	90.088	6334.03		0.66
04:03:43	90.112	6334.54		0.51
04:06:36	90.160	6335.22		0.68
04:08:02	90.184		256.69	
04:10:55	90.232	6335.31		0.09
04:12:22	90.256	6335.26		-0.04
04:15:14	90.304		256.70	
04:16:41	90.328	6335.63		0.37
04:19:34	90.376	6335.68		0.04
04:21:00	90.400	6335.68		0.00
04:23:53	90.448	6335.85		0.18
04:25:19	90.472	6335.88		0.03
04:28:12	90.520	6335.85		-0.03
04:29:38	90.544		256.70	
04:32:31	90.592	6336.03		0.18
04:33:58	90.616	6335.94		-0.09
04:36:50	90.664		256.68	
04:38:17	90.688	6336.09		0.14
04:41:10	90.736	6336.35		0.26
04:42:36	90.760	6336.44		0.09
04:45:29	90.808	6336.53		0.09
04:46:55	90.832	6336.45		-0.08
04:49:48	90.880	6336.70		0.25
04:51:14	90.904		256.64	
04:54:07	90.952	6336.82		0.12
04:55:34	90.976	6336.91		0.09
04:58:26	91.024		256.69	
04:59:53	91.048	6337.03		0.12
05:02:46	91.096	6337.04		0.02
05:04:12	91.120	6337.17		0.13
05:07:05	91.168	6337.35		0.18
05:08:31	91.192	6337.48		0.13
05:11:24	91.240	6337.66		0.18
05:12:50	91.264		256.70	
05:15:43	91.312	6336.97		-0.69
05:17:10	91.336	6336.84		-0.13
05:20:02	91.384		256.71	
05:21:29	91.408	6337.98		1.14
05:24:22	91.456	6337.98		0.00
05:25:48	91.480	6337.67		-0.31
05:28:41	91.528	6337.54		-0.13
05:30:07	91.552	6337.58		0.04

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
05:33:00	91.600	6337.58		0.00
05:34:26	91.624		256.72	
05:37:19	91.672	6337.89		0.31
05:38:46	91.696	6337.98		0.09
05:41:38	91.744		256.72	
05:43:05	91.768	6338.08		0.10
05:45:58	91.816	6338.26		0.18
05:47:24	91.840	6338.33		0.07
05:50:17	91.888	6338.13		-0.20
05:51:43	91.912	6338.39		0.26
05:54:36	91.960	6338.66		0.26
05:56:02	91.984		256.71	
05:58:55	92.032	6338.86		0.20
06:00:22	92.056	6334.33		-4.53
06:03:14	92.104		256.72	
06:04:41	92.128	6336.32		2.00
06:07:34	92.176	6337.13		0.81
06:09:00	92.200	6337.48		0.35
06:11:53	92.248	6337.88		0.40
06:13:19	92.272	6337.91		0.03
06:16:12	92.320	6337.79		-0.12
06:17:38	92.344		256.72	
06:20:31	92.392	6338.00		0.20
06:21:58	92.416	6338.08		0.09
06:24:50	92.464		256.72	
06:26:17	92.488	6338.13		0.04
06:29:10	92.536	6338.32		0.19
06:30:36	92.560	6338.28		-0.04
06:33:29	92.608	6338.58		0.31
06:34:55	92.632	6338.54		-0.04
06:37:48	92.680	6338.63		0.09
06:39:14	92.704		256.75	
06:42:07	92.752	6338.79		0.16
06:43:34	92.776	6339.01		0.22
06:46:26	92.824		256.76	
06:47:53	92.848	6338.31		-0.70
06:50:46	92.896	6338.66		0.35
06:52:12	92.920	6339.10		0.44
06:55:05	92.968	6339.00		-0.10
06:56:31	92.992	6339.20		0.20
06:59:24	93.040	6339.46		0.26
07:00:50	93.064		256.70	
07:03:43	93.112	6339.30		-0.17
07:05:10	93.136	6339.30		0.00
07:08:02	93.184		256.65	
07:09:29	93.208	6339.66		0.37
07:12:22	93.256	6339.71		0.05
07:13:48	93.280	6339.77		0.06
07:16:41	93.328	6339.85		0.08
07:18:07	93.352	6339.86		0.02

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:21:00	93.400	6339.82		-0.04
07:22:26	93.424		256.74	
07:25:19	93.472	6340.02		0.20
07:26:46	93.496	6340.07		0.04
07:29:38	93.544		256.74	
07:31:05	93.568	6340.26		0.19
07:33:58	93.616	6340.27		0.02
07:35:24	93.640	6340.36		0.09
07:38:17	93.688	6340.45		0.09
07:39:43	93.712	6340.54		0.09
07:42:36	93.760	6340.43		-0.10
07:44:02	93.784		256.74	
07:46:55	93.832	6340.83		0.40
07:48:22	93.856	6341.01		0.18
07:51:14	93.904		256.74	
07:52:41	93.928	6340.87		-0.13
07:55:34	93.976	6340.92		-0.04
07:57:00	94.000	6340.89		-0.03
07:59:53	94.048	6341.11		0.22
08:01:19	94.072	6340.49		-0.62
08:04:12	94.120	6340.93		0.44
08:05:38	94.144		256.76	
08:08:31	94.192	6340.76		-0.18
08:09:58	94.216	6340.98		0.22
08:12:50	94.264		256.75	
08:14:17	94.288	6341.20		0.22
08:17:10	94.336	6341.39		0.19
08:18:36	94.360	6341.37		-0.02
08:21:29	94.408	6341.52		0.15
08:22:55	94.432	6341.51		-0.02
08:25:48	94.480	6341.61		0.10
08:27:14	94.504		256.76	
08:30:07	94.552	6341.57		-0.04
08:31:34	94.576	6341.83		0.26
08:34:26	94.624		256.77	
08:35:53	94.648	6341.45		-0.38
08:38:46	94.696	6341.58		0.13
08:40:12	94.720	6341.39		-0.19
08:43:05	94.768	6341.86		0.47
08:44:31	94.792	6341.99		0.13
08:47:24	94.840	6342.12		0.13
08:48:50	94.864		256.75	
08:51:43	94.912	6342.45		0.32
08:53:10	94.936	6342.40		-0.04
08:56:02	94.984		256.78	
08:57:29	95.008	6342.39		-0.01
09:00:22	95.056	6341.40		-0.98
09:01:48	95.080	6341.99		0.59
09:04:41	95.128	6341.64		-0.35
09:06:07	95.152	6342.02		0.38

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:09:00	95.200	6341.95		-0.07
09:10:26	95.224		256.78	
09:13:19	95.272	6342.71		0.76
09:14:46	95.296	6342.76		0.04
09:17:38	95.344		256.78	
09:19:05	95.368	6342.65		-0.10
09:21:58	95.416	6342.70		0.04
09:23:24	95.440	6342.83		0.13
09:26:17	95.488	6343.11		0.28
09:27:43	95.512	6343.09		-0.02
09:30:36	95.560	6343.01		-0.09
09:32:02	95.584		256.78	
09:34:55	95.632	6343.37		0.37
09:36:22	95.656	6342.10		-1.28
09:39:14	95.704		256.78	
09:40:41	95.728	6342.39		0.29
09:43:34	95.776	6343.27		0.88
09:45:00	95.800	6343.27		0.00
09:47:53	95.848	6343.52		0.25
09:49:19	95.872	6343.65		0.13
09:52:12	95.920	6343.75		0.10
09:53:38	95.944		256.78	
09:56:31	95.992	6343.68		-0.07
09:57:58	96.016	6343.95		0.26
10:00:50	96.064		256.79	
10:02:17	96.088	6343.90		-0.04
10:05:10	96.136	6343.90		0.00
10:06:36	96.160	6343.89		-0.02
10:09:29	96.208	6343.99		0.10
10:10:55	96.232	6344.03		0.04
10:13:48	96.280	6344.18		0.15
10:15:14	96.304		256.79	
10:18:07	96.352	6344.24		0.06
10:19:34	96.376	6344.37		0.13
10:22:26	96.424		256.79	
10:23:53	96.448	6344.56		0.19
10:26:46	96.496	6344.61		0.04
10:28:12	96.520	6344.87		0.26
10:31:05	96.568	6345.06		0.19
10:32:31	96.592	6344.62		-0.44
10:35:24	96.640	6344.73		0.10
10:36:50	96.664		256.81	
10:39:43	96.712	6344.28		-0.44
10:41:10	96.736	6344.68		0.40
10:44:02	96.784		256.81	
10:45:29	96.808	6345.37		0.69
10:48:22	96.856	6345.08		-0.29
10:49:48	96.880	6345.24		0.16
10:52:41	96.928	6345.21		-0.03
10:54:07	96.952	6345.25		0.04

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
10:57:00	97.000	6345.34		0.09
10:58:26	97.024		256.82	
11:01:19	97.072	6345.74		0.40
11:02:46	97.096	6345.74		0.00
11:05:38	97.144		256.82	
11:07:05	97.168	6345.83		0.09
11:09:58	97.216	6345.78		-0.04
11:11:24	97.240	6345.78		0.00
11:14:17	97.288	6346.09		0.31
11:15:43	97.312	6346.05		-0.04
11:18:36	97.360	6345.96		-0.09
11:20:02	97.384		256.83	
11:22:55	97.432	6346.24		0.28
11:24:22	97.456	6346.33		0.09
11:27:14	97.504		256.83	
11:28:41	97.528	6344.87		-1.45
11:31:34	97.576	6345.78		0.91
11:33:00	97.600	6345.62		-0.16
11:35:53	97.648	6345.80		0.18
11:37:19	97.672	6346.05		0.25
11:40:12	97.720	6346.35		0.31
11:41:38	97.744		256.83	
11:44:31	97.792	6346.19		-0.16
11:45:58	97.816	6346.24		0.04
11:48:50	97.864		256.82	
11:50:17	97.888	6346.53		0.29
11:53:10	97.936	6346.62		0.09
11:54:36	97.960	6346.68		0.06
11:57:29	98.008	6346.85		0.18
11:58:55	98.032	6346.77		-0.09
12:01:48	98.080	6346.81		0.04
12:03:14	98.104		256.83	
12:05:00	Rig up Bottom hole samplers with gauge			
12:06:07	98.152	6345.95		-0.86
12:07:34	98.176	6346.39		0.44
12:10:00	Close Lubricator valve and bleed off above			
12:10:26	98.224		256.84	
12:11:53	98.248	6481.06		134.67
12:14:46	98.296	6635.35		154.29
12:15:00	Close choke manifold, open swab valve			
12:16:12	98.320	6704.88		69.53
12:19:05	98.368	6825.27		120.39
12:20:31	98.392	6875.86		50.59
12:23:24	98.440	6967.57		91.72
12:24:50	98.464		256.79	
12:27:43	98.512	7096.67		129.10
12:29:10	98.536	7131.54		34.87
12:32:02	98.584		256.69	
12:33:29	98.608	7223.14		91.60
12:36:22	98.656	7278.07		54.93

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
12:37:48	98.680	7302.77		-24.71
12:40:41	98.728	7353.25		50.47
12:42:07	98.752	7374.44		21.19
12:43:00	Open kill valve, pressure test Lubricator to 3500 psi			
12:45:00	98.800	7415.56		41.12
12:46:26	98.824		256.47	
12:49:19	98.872	7473.89		58.33
12:50:46	98.896	7498.72		24.83
12:53:38	98.944		256.40	
12:55:00	Bleed down lubricator to 1250 psi, open Lubricator valve			
12:55:05	98.968	7561.71		62.99
12:57:58	99.016	7586.42		24.71
12:59:24	99.040	7603.99		17.57
13:00:00	Close Lubricator valve, bleed down to 1000 psi			
13:02:17	99.088	7635.54		31.55
13:03:30	Open lubricator, pressure increase to 1250, R.I.H.			
13:03:43	99.112	7632.37		-3.17
13:06:36	99.160	7641.31		8.93
13:08:02	99.184		256.12	
13:10:55	99.232	7694.62		53.32
13:12:22	99.256	7709.54		14.91
13:15:14	99.304		256.00	
13:16:41	99.328	7755.73		46.20
13:19:34	99.376	7790.29		34.56
13:21:00	99.400	7799.40		9.11
13:22:00	Gauge @ 100 m, open well to Gauge tank			
13:23:53	99.448	6338.86		-1460.54
13:25:19	99.472	6337.68		-1.18
13:28:12	99.520	6336.62		-1.06
13:29:38	99.544		255.78	
13:32:31	99.592	6337.42		0.80
13:33:58	99.616	6338.16		0.75
13:36:50	99.664		255.87	
13:38:17	99.688	6339.93		1.77
13:41:10	99.736	6342.08		2.14
13:42:36	99.760	6342.48		0.40
13:45:29	99.808	6343.45		0.97
13:46:55	99.832	6343.05		-0.39
13:49:48	99.880	6343.55		0.50
13:51:14	99.904		256.03	
13:54:07	99.952	6346.26		2.70
13:55:34	99.976	6346.96		0.70
13:58:26	100.024		256.11	
13:59:53	100.048	6345.79		-1.17
14:02:46	100.096	6345.54		-0.25
14:04:12	100.120	6345.62		0.08
14:07:05	100.168	6344.09		-1.53
14:08:31	100.192	6344.04		-0.06
14:11:24	100.240	6343.94		-0.10
14:12:50	100.264		256.21	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location : Zapata Arctic
 Test No. : DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
14:15:43	100.312	6346.54		2.60
14:17:10	100.336	6346.23		-0.31
14:20:02	100.384		256.26	
14:21:29	100.408	6346.26		0.03
14:24:22	100.456	6345.82		-0.44
14:25:48	100.480	6345.62		-0.20
14:28:41	100.528	6341.25		-4.37
14:30:07	100.552	6346.41		5.17
14:33:00	100.600	6347.26		0.85
14:34:26	100.624		256.33	
14:37:19	100.672	6348.32		1.06
14:38:46	100.696	6348.72		0.40
14:41:38	100.744		256.36	
14:43:05	100.768	6351.25		2.53
14:45:58	100.816	6362.01		10.76
14:47:24	100.840	6361.93		-0.07
14:50:17	100.888	6349.25		-12.68
14:51:43	100.912	6348.56		-0.69
14:54:36	100.960	6362.26		13.70
14:56:02	100.984		256.41	
14:58:55	101.032	6367.56		5.30
15:00:22	101.056	6363.02		-4.54
15:03:14	101.104		256.44	
15:04:41	101.128	6348.19		-14.84
15:07:34	101.176	6348.58		0.40
15:09:00	101.200	6349.26		0.69
15:11:53	101.248	6348.51		-0.75
15:13:19	101.272	6348.44		-0.07
15:16:12	101.320	6348.17		-0.26
15:17:38	101.344		256.47	
15:20:31	101.392	6363.71		15.53
15:21:58	101.416	6362.69		-1.01
15:24:50	101.464		256.50	
15:26:17	101.488	6339.81		-22.88
15:29:10	101.536	6344.95		5.14
15:30:36	101.560	6344.79		-0.16
15:33:29	101.608	6344.36		-0.42
15:34:00	First sample taken at 4478 m			
15:34:55	101.632	6344.10		-0.26
15:37:48	101.680	6344.07		-0.03
15:39:14	101.704		256.58	
15:42:07	101.752	6343.38		-0.69
15:43:34	101.776	6343.47		0.09
15:46:26	101.824		256.57	
15:47:53	101.848	6343.56		0.09
15:50:46	101.896	6342.02		-1.54
15:52:12	101.920	6342.24		0.22
15:55:05	101.968	6342.02		-0.22
15:56:31	101.992	6341.11		-0.91
15:59:24	102.040	6340.01		-1.10

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pr-P($\pi-1$) PSIA
16:00:50	102.064		256.60	
16:03:43	102.112	6340.29		0.28
16:04:00	Second sample taken at 3904 m			
16:05:10	102.136	6340.42		0.13
16:08:02	102.184		256.60	
16:09:29	102.208	6338.31		-2.11
16:12:22	102.256	6337.93		-0.38
16:13:48	102.280	6337.99		0.06
16:16:41	102.328	6337.17		-0.82
16:18:07	102.352	6337.43		0.26
16:21:00	102.400	6337.12		-0.31
16:22:00	Shut in well at choke manifold			
16:22:26	102.424		256.64	
16:25:19	102.472	6350.04		12.91
16:26:46	102.496	6357.57		7.53
16:29:38	102.544		256.63	
16:31:05	102.568	6392.63		35.06
16:33:58	102.616	6432.24		39.61
16:35:24	102.640	6458.16		25.92
16:38:17	102.688	6521.99		63.83
16:39:43	102.712	6560.07		38.08
16:42:36	102.760	6639.68		79.62
16:44:02	102.784		256.64	
16:46:55	102.832	6767.14		127.46
16:48:22	102.856	6807.14		39.99
16:51:14	102.904		256.63	
16:52:41	102.928	6911.59		104.45
16:55:34	102.976	6957.99		46.40
16:57:00	103.000	6989.51		31.52
16:59:53	103.048	7044.48		54.97
17:01:19	103.072	7068.81		24.33
17:04:12	103.120	7123.16		54.35
17:05:38	103.144		256.49	
17:08:31	103.192	7188.23		65.07
17:09:58	103.216	7206.00		17.77
17:12:50	103.264		256.39	
17:14:17	103.288	7256.88		50.88
17:17:10	103.336	7286.39		29.51
17:18:36	103.360	7301.57		15.18
17:21:29	103.408	7334.98		33.41
17:22:55	103.432	7355.05		20.06
17:25:48	103.480	7388.24		33.19
17:27:14	103.504		256.20	
17:30:07	103.552	7433.57		45.33
17:31:34	103.576	7442.79		9.22
17:34:26	103.624		256.06	
17:35:53	103.648	7467.88		25.09
17:38:46	103.696	7499.54		31.66
17:40:12	103.720	7512.64		13.11
17:43:05	103.768	7536.98		24.34

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location : Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
17:44:31	103.792	7545.40		8.42
17:47:24	103.840	7545.39		-0.02
17:48:50	103.864		255.96	
17:51:43	103.912	7555.91		10.52
17:53:10	103.936	7560.05		4.15
17:56:02	103.984		255.85	
17:57:29	104.008	7570.32		10.27
18:00:22	104.056	7578.18		7.85
18:01:48	104.080	7581.96		3.78
18:04:41	104.128	7587.39		5.43
18:06:07	104.152	7590.32		2.93
18:09:00	104.200	7598.03		7.71
18:10:26	104.224		255.68	
18:13:19	104.272	7627.47		29.45
18:14:46	104.296	7635.65		8.17
18:17:38	104.344		255.59	
18:19:05	104.368	7652.39		16.75
18:21:58	104.416	7655.06		2.66
18:23:24	104.440	7656.94		1.89
18:26:17	104.488	7661.30		4.36
18:27:43	104.512	7674.06		12.77
18:30:36	104.560	7708.46		34.39
18:32:02	104.584		255.44	
18:34:55	104.632	10892.56		3184.10
18:36:22	104.656	7774.81		-3117.75
18:39:14	104.704		255.38	
18:40:00	Sampler string to surface, close Lubricator valve & bleed of			
18:40:41	104.728	7813.65		38.83
18:43:34	104.776	7842.54		28.89
18:45:00	104.800	7855.83		13.29
18:47:53	104.848	7881.24		25.41
18:49:19	104.872	7892.52		11.28
18:52:12	104.920	7912.99		20.47
18:53:38	104.944		255.23	
18:56:31	104.992	7940.61		27.62
18:57:58	105.016	7949.45		8.84
19:00:00	Close swab valve and choke, open kill valve			
19:00:50	105.064		255.15	
19:02:17	105.088	7972.88		23.42
19:05:10	105.136	7987.27		14.40
19:06:36	105.160	7993.82		6.55
19:07:00	Pressurise above Lubricator to 1500 psi			
19:08:00	Open Lubricator valve, well open to choke manifold			
19:09:29	105.208	8003.43		9.61
19:10:00	Open well at choke to Gauge tank			
19:10:55	105.232	6327.33		-1676.10
19:13:48	105.280	6320.52		-6.81
19:15:14	105.304		254.96	
19:18:07	105.352	6317.18		-3.34
19:19:34	105.376	6315.86		-1.32

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
19:22:26	105.424		255.10	
19:23:53	105.448	6312.27		-3.58
19:26:46	105.496	6309.01		-3.26
19:28:12	105.520	6307.49		-1.52
19:31:05	105.568	6303.59		-3.90
19:32:31	105.592	6299.24		-4.35
19:35:24	105.640	6296.48		-2.76
19:36:50	105.664		255.37	
19:39:43	105.712	6298.49		2.02
19:41:10	105.736	6298.41		-0.09
19:44:02	105.784		255.51	
19:45:29	105.808	6297.56		-0.84
19:48:22	105.856	6296.29		-1.27
19:49:48	105.880	6296.69		0.40
19:52:41	105.928	6298.41		1.72
19:54:07	105.952	6296.93		-1.48
19:57:00	106.000	6295.92		-1.01
19:58:26	106.024		255.70	
20:00:00	100% mud flowing to surface			
20:01:19	106.072	6298.39		2.47
20:02:46	106.096	6295.44		-2.95
20:05:38	106.144		255.80	
20:06:00	Divert flow to flare			
20:07:05	106.168	6296.68		1.24
20:09:58	106.216	6298.69		2.01
20:11:24	106.240	6299.12		0.43
20:14:17	106.288	6300.28		1.16
20:15:43	106.312	6299.49		-0.79
20:18:36	106.360	6299.43		-0.06
20:20:02	106.384		255.94	
20:22:55	106.432	6298.84		-0.60
20:24:22	106.456	6297.74		-1.10
20:27:14	106.504		255.99	
20:28:41	106.528	6299.16		0.43
20:31:34	106.576	6296.30		-1.86
20:33:00	106.600	6296.25		-0.06
20:35:53	106.648	6296.18		-0.07
20:37:19	106.672	6294.87		-1.30
20:40:12	106.720	6294.20		-0.67
20:41:38	106.744		256.10	
20:44:31	106.792	6293.06		-1.14
20:45:58	106.816	6292.27		-0.79
20:48:50	106.864		256.15	
20:50:17	106.888	6292.27		0.00
20:53:10	106.936	6290.91		-1.36
20:54:36	106.960	6290.46		-0.45
20:57:29	107.008	6289.40		-1.05
20:58:55	107.032	6288.95		-0.45
21:01:48	107.080	6288.85		-0.10
21:03:14	107.104		256.25	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
21:06:07	107.152	6287.23		-1.62
21:07:34	107.176	6286.92		-0.31
21:10:26	107.224		256.28	
21:11:53	107.248	6286.64		-0.28
21:14:46	107.296	6285.00		-1.64
21:16:12	107.320	6284.90		-0.10
21:19:05	107.368	6284.13		-0.78
21:20:31	107.392	6282.08		-2.05
21:23:24	107.440	6281.68		-0.40
21:24:50	107.464		256.37	
21:27:43	107.512	6279.80		-1.89
21:29:10	107.536	6279.71		-0.09
21:32:02	107.584		256.40	
21:33:29	107.608	6278.63		-1.08
21:36:22	107.656	6277.85		-0.78
21:37:48	107.680	6276.96		-0.89
21:40:41	107.728	6275.92		-1.04
21:42:07	107.752	6276.02		0.10
21:45:00	107.800	6272.53		-3.50
21:46:26	107.824		256.48	
21:49:19	107.872	6272.54		0.02
21:50:46	107.896	6271.53		-1.01
21:53:38	107.944		256.51	
21:55:05	107.968	6268.19		-3.34
21:57:58	108.016	6267.83		-0.36
21:59:24	108.040	6268.23		0.40
22:02:17	108.088	6266.92		-1.30
22:03:43	108.112	6265.97		-0.95
22:06:36	108.160	6265.53		-0.44
22:08:02	108.184		256.56	
22:10:55	108.232	6262.45		-3.09
22:12:22	108.256	6262.58		0.13
22:15:14	108.304		256.62	
22:16:41	108.328	6260.56		-2.02
22:19:34	108.376	6259.14		-1.42
22:21:00	108.400	6257.96		-1.19
22:23:53	108.448	6256.68		-1.27
22:25:19	108.472	6256.93		0.25
22:28:12	108.520	6253.42		-3.51
22:29:38	108.544		256.68	
22:32:31	108.592	6252.01		-1.41
22:33:58	108.616	6251.65		-0.35
22:36:50	108.664		256.67	
22:38:17	108.688	6250.31		-1.35
22:41:10	108.736	6248.30		-2.00
22:42:36	108.760	6247.92		-0.38
22:45:29	108.808	6246.11		-1.81
22:46:55	108.832	6244.34		-1.77
22:49:48	108.880	6242.73		-1.61
22:51:14	108.904		256.74	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 10/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
22:54:07	108.952	6239.79		-2.94
22:55:34	108.976	6238.12		-1.67
22:58:26	109.024		256.77	
22:59:53	109.048	6234.51		-3.61
23:02:46	109.096	6232.06		-2.46
23:04:12	109.120	6230.32		-1.74
23:07:05	109.168	6227.86		-2.46
23:08:31	109.192	6226.19		-1.67
23:11:24	109.240	6223.58		-2.62
23:12:50	109.264		256.79	
23:15:43	109.312	6220.72		-2.85
23:17:10	109.336	6219.06		-1.67
23:20:02	109.384		256.81	
23:21:29	109.408	6216.35		-2.70
23:24:22	109.456	6213.75		-2.60
23:25:48	109.480	6213.18		-0.57
23:28:41	109.528	6211.23		-1.96
23:30:07	109.552	6210.48		-0.75
23:33:00	109.600	6208.65		-1.83
23:34:26	109.624		256.86	
23:37:19	109.672	6206.14		-2.51
23:38:46	109.696	6205.92		-0.22
23:41:38	109.744		256.89	
23:43:05	109.768	6204.49		-1.43
23:45:58	109.816	6204.05		-0.44
23:47:24	109.840	6201.57		-2.48
23:50:17	109.888	6201.04		-0.53
23:51:43	109.912	6200.99		-0.06
23:54:36	109.960	6200.05		-0.94
23:56:02	109.984		256.91	
23:58:55	110.032	6194.72		-5.33
00:00:22	110.056	6194.24		-0.48
00:03:14	110.104		256.95	
00:04:41	110.128	6194.14		-0.10
00:07:34	110.176	6193.57		-0.57
00:09:00	110.200	6193.67		0.10
00:11:53	110.248	6193.86		0.19
00:13:19	110.272	6194.37		0.51
00:16:12	110.320	6192.44		-1.93
00:17:38	110.344		256.96	
00:20:31	110.392	6193.86		1.42
00:21:58	110.416	6192.59		-1.27
00:24:50	110.464		256.99	
00:26:17	110.488	6190.78		-1.81
00:29:10	110.536	6189.07		-1.71
00:30:36	110.560	6189.07		0.00
00:33:29	110.608	6189.03		-0.04
00:34:55	110.632	6188.98		-0.04
00:37:48	110.680	6187.13		-1.85
00:39:14	110.704		257.03	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
00:42:07	110.752	6186.43		-0.70
00:43:34	110.776	6184.19		-2.23
00:46:26	110.824		257.04	
00:47:53	110.848	6181.82		-2.38
00:50:46	110.896	6181.26		-0.55
00:52:12	110.920	6182.18		0.92
00:55:05	110.968	6181.35		-0.83
00:56:31	110.992	6181.63		0.28
00:59:24	111.040	6181.76		0.13
01:00:50	111.064		257.06	
01:03:43	111.112	6181.25		-0.51
01:05:10	111.136	6179.50		-1.75
01:08:02	111.184		257.09	
01:09:29	111.208	6179.86		0.37
01:12:22	111.256	6177.73		-2.13
01:13:48	111.280	6178.21		0.48
01:16:41	111.328	6178.13		-0.09
01:18:07	111.352	6177.03		-1.10
01:21:00	111.400	6176.61		-0.42
01:22:26	111.424		257.11	
01:25:19	111.472	6175.82		-0.79
01:26:46	111.496	6174.37		-1.45
01:29:38	111.544		257.12	
01:31:05	111.568	6174.08		-0.29
01:33:58	111.616	6173.34		-0.74
01:35:24	111.640	6173.47		0.13
01:38:17	111.688	6172.42		-1.05
01:39:43	111.712	6170.83		-1.59
01:42:36	111.760	6170.49		-0.33
01:44:02	111.784		257.12	
01:46:55	111.832	6169.05		-1.45
01:48:22	111.856	6171.32		2.28
01:51:14	111.904		257.13	
01:52:41	111.928	6171.25		-0.07
01:55:34	111.976	6169.01		-2.25
01:57:00	112.000	6167.87		-1.14
01:59:53	112.048	6168.51		0.64
02:01:19	112.072	6167.64		-0.88
02:04:12	112.120	6168.61		0.98
02:05:38	112.144		257.19	
02:08:31	112.192	6167.13		-1.49
02:09:58	112.216	6167.08		-0.04
02:12:50	112.264		257.19	
02:14:17	112.288	6166.73		-0.35
02:17:10	112.336	6166.44		-0.29
02:18:36	112.360	6166.53		0.09
02:21:29	112.408	6164.76		-1.77
02:22:55	112.432	6165.04		0.28
02:25:48	112.480	6163.81		-1.23
02:27:14	112.504		257.20	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
02:30:07	112.552	6163.72		-0.09
02:31:34	112.576	6162.59		-1.14
02:34:26	112.624		257.20	
02:35:53	112.648	6163.77		1.18
02:38:46	112.696	6164.95		1.18
02:40:12	112.720	6164.27		-0.68
02:43:05	112.768	6164.79		0.53
02:44:31	112.792	6164.35		-0.44
02:47:24	112.840	6163.13		-1.23
02:48:50	112.864		257.23	
02:51:43	112.912	6164.47		1.35
02:53:10	112.936	6163.55		-0.92
02:56:02	112.984		257.23	
02:57:29	113.008	6160.47		-3.08
03:00:22	113.056	6159.44		-1.04
03:01:48	113.080	6160.23		0.79
03:04:41	113.128	6159.22		-1.01
03:06:07	113.152	6158.05		-1.17
03:09:00	113.200	6157.18		-0.88
03:10:26	113.224		257.24	
03:13:19	113.272	6158.23		1.05
03:14:46	113.296	6157.92		-0.31
03:17:38	113.344		257.24	
03:19:05	113.368	6156.02		-1.90
03:21:58	113.416	6155.77		-0.25
03:23:24	113.440	6154.67		-1.11
03:26:17	113.488	6154.58		-0.09
03:27:43	113.512	6155.05		0.47
03:30:36	113.560	6155.22		0.18
03:32:02	113.584		257.30	
03:34:55	113.632	6154.52		-0.70
03:36:22	113.656	6154.48		-0.04
03:39:14	113.704		257.30	
03:40:41	113.728	6154.22		-0.26
03:43:34	113.776	6153.47		-0.74
03:45:00	113.800	6152.99		-0.48
03:47:53	113.848	6152.47		-0.53
03:49:19	113.872	6151.77		-0.70
03:52:12	113.920	6151.75		-0.02
03:53:38	113.944		257.27	
03:56:31	113.992	6151.25		-0.50
03:57:58	114.016	6151.08		-0.18
04:00:50	114.064		257.30	
04:02:17	114.088	6151.37		0.29
04:05:10	114.136	6149.25		-2.12
04:06:36	114.160	6148.77		-0.48
04:09:29	114.208	6149.45		0.67
04:10:55	114.232	6150.03		0.58
04:13:48	114.280	6148.32		-1.71
04:15:14	114.304		257.32	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
04:19:07	114.352	6148.12		-0.20
04:19:34	114.376	6148.56		0.44
04:22:26	114.424		257.32	
04:23:53	114.448	6148.86		0.31
04:26:46	114.496	6147.84		-1.02
04:28:12	114.520	6147.36		-0.48
04:31:05	114.568	6146.09		-1.27
04:32:31	114.592	6146.17		0.08
04:35:24	114.640	6146.60		0.44
04:36:50	114.664		257.34	
04:39:43	114.712	6146.44		-0.16
04:41:10	114.736	6147.28		0.83
04:44:02	114.784		257.37	
04:45:29	114.808	6145.47		-1.81
04:48:22	114.856	6146.08		0.61
04:49:48	114.880	6145.51		-0.57
04:52:41	114.928	6144.07		-1.44
04:54:07	114.952	6143.76		-0.31
04:57:00	115.000	6143.52		-0.25
04:58:26	115.024		257.39	
05:01:19	115.072	6142.60		-0.92
05:02:46	115.096	6142.68		0.09
05:05:38	115.144		257.39	
05:07:05	115.168	6139.72		-2.96
05:09:58	115.216	6141.21		1.49
05:11:24	115.240	6141.63		0.42
05:14:17	115.288	6140.99		-0.64
05:15:43	115.312	6140.73		-0.26
05:18:36	115.360	6139.91		-0.82
05:20:02	115.384		257.40	
05:22:55	115.432	6140.29		0.38
05:24:22	115.456	6141.34		1.05
05:27:14	115.504		257.38	
05:28:41	115.528	6139.80		-1.55
05:31:34	115.576	6139.50		-0.29
05:33:00	115.600	6140.07		0.57
05:35:53	115.648	6140.13		0.06
05:37:19	115.672	6140.36		0.23
05:40:12	115.720	6140.92		0.55
05:41:38	115.744		257.37	
05:44:31	115.792	6140.92		0.00
05:45:58	115.816	6138.90		-2.01
05:48:50	115.864		257.39	
05:50:17	115.888	6141.82		2.92
05:53:10	115.936	6140.73		-1.09
05:54:36	115.960	6141.88		1.15
05:57:29	116.008	6141.66		-0.22
05:58:55	116.032	6140.67		-0.99
06:01:48	116.080	6140.28		-0.39
06:03:14	116.104		257.40	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
06:06:07	116.152	6139.97		-0.31
06:07:34	116.176	6139.80		-0.18
06:10:26	116.224		257.42	
06:11:53	116.248	6141.08		1.28
06:14:46	116.296	6141.17		0.09
06:16:12	116.320	6141.99		0.82
06:19:05	116.368	6141.64		-0.35
06:20:31	116.392	6141.48		-0.16
06:23:24	116.440	6140.30		-1.18
06:24:50	116.464		257.42	
06:27:43	116.512	6140.09		-0.21
06:29:10	116.536	6139.78		-0.31
06:32:02	116.584		257.42	
06:33:29	116.608	6140.03		0.25
06:36:22	116.656	6139.81		-0.22
06:37:48	116.680	6138.37		-1.44
06:40:41	116.728	6139.77		1.40
06:42:07	116.752	6139.20		-0.57
06:45:00	116.800	6139.55		0.35
06:46:26	116.824		257.45	
06:49:19	116.872	6138.10		-1.46
06:50:46	116.896	6139.36		1.27
06:53:38	116.944		257.44	
06:55:05	116.968	6139.92		0.55
06:57:58	117.016	6138.93		-0.99
06:59:24	117.040	6139.23		0.31
07:02:17	117.088	6138.45		-0.79
07:03:43	117.112	6137.72		-0.73
07:06:36	117.160	6135.66		-2.06
07:08:02	117.184		257.46	
07:10:55	117.232	6135.94		0.28
07:12:22	117.256	6136.73		0.79
07:15:14	117.304		257.46	
07:16:41	117.328	6137.54		0.82
07:19:34	117.376	6135.40		-2.14
07:21:00	117.400	6133.75		-1.65
07:23:53	117.448	6135.06		1.31
07:25:19	117.472	6132.99		-2.07
07:28:12	117.520	6135.06		2.07
07:29:38	117.544		257.46	
07:32:31	117.592	6135.66		0.60
07:33:58	117.616	6134.39		-1.27
07:36:50	117.664		257.46	
07:38:17	117.688	6135.18		0.79
07:41:10	117.736	6134.36		-0.82
07:42:36	117.760	6133.64		-0.73
07:45:29	117.808	6132.94		-0.70
07:46:55	117.832	6132.31		-0.63
07:49:48	117.880	6133.64		1.33
07:51:14	117.904		257.48	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
07:54:07	117.952	6130.79		-2.84
07:55:34	117.976	6132.10		1.31
07:58:26	118.024		257.45	
07:59:53	118.048	6132.14		0.04
08:02:46	118.096	6132.54		0.39
08:04:12	118.120	6130.57		-1.97
08:07:05	118.168	6131.91		1.34
08:08:31	118.192	6130.48		-1.43
08:11:24	118.240	6131.06		0.58
08:12:50	118.264		257.44	
08:15:43	118.312	6131.21		0.15
08:17:10	118.336	6130.73		-0.48
08:20:02	118.384		257.42	
08:21:29	118.408	6130.28		-0.45
08:24:22	118.456	6130.28		0.00
08:25:48	118.480	6129.37		-0.90
08:28:41	118.528	6129.40		0.03
08:30:07	118.552	6128.67		-0.73
08:33:00	118.600	6128.91		0.23
08:34:26	118.624		257.45	
08:37:19	118.672	6126.95		-1.95
08:38:46	118.696	6127.44		0.48
08:41:38	118.744		257.47	
08:43:05	118.768	6127.01		-0.42
08:45:58	118.816	6128.68		1.66
08:47:24	118.840	6128.85		0.17
08:50:17	118.888	6126.29		-2.57
08:51:43	118.912	6127.38		1.09
08:54:36	118.960	6125.10		-2.27
08:56:02	118.984		257.48	
08:58:55	119.032	6126.33		1.22
09:00:22	119.056	6126.33		0.00
09:03:14	119.104		257.49	
09:04:41	119.128	6126.43		0.10
09:07:34	119.176	6126.81		0.38
09:09:00	119.200	6125.82		-0.99
09:11:53	119.248	6125.09		-0.73
09:13:19	119.272	6125.28		0.19
09:16:12	119.320	6123.89		-1.38
09:17:38	119.344		257.46	
09:20:31	119.392	6123.63		-0.26
09:21:58	119.416	6125.07		1.44
09:24:50	119.464		257.48	
09:26:17	119.488	6124.27		-0.80
09:29:10	119.536	6121.79		-2.48
09:30:36	119.560	6123.13		1.34
09:33:29	119.608	6122.77		-0.37
09:34:55	119.632	6122.79		0.03
09:37:48	119.680	6123.86		1.07
09:39:14	119.704		257.45	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
09:42:07	119.752	6122.45		-1.41
09:43:34	119.776	6123.54		1.09
09:46:26	119.824		257.45	
09:47:53	119.848	6121.95		-1.59
09:50:46	119.896	6122.45		0.50
09:52:12	119.920	6121.35		-1.09
09:55:05	119.968	6121.33		-0.03
09:56:31	119.992	6121.34		0.02
09:59:24	120.040	6120.70		-0.64
10:00:50	120.064		257.48	
10:03:43	120.112	6119.78		-0.92
10:05:10	120.136	6117.33		-2.45
10:06:00	Close PCT, bleed off pressure			
10:08:02	120.184		256.99	
10:09:29	120.208	6843.15		725.81
10:11:00	Close choke at manifold			
10:12:22	120.256	7037.36		194.21
10:13:48	120.280	7104.92		67.57
10:16:41	120.328	7209.42		104.50
10:18:07	120.352	7251.07		41.66
10:21:00	120.400	7320.09		69.01
10:22:26	120.424		256.86	
10:25:19	120.472	7402.60		82.51
10:26:00	Open kill valve, open MIDRV (@ 2800 psi), close kill valve			
10:26:46	120.496	7426.92		24.32
10:29:38	120.544		256.69	
10:30:00	Commence reverse circulating, maintaining tubing pressure			
10:31:05	120.568	7488.31		61.39
10:33:58	120.616	7526.18		37.87
10:35:24	120.640	7540.75		14.57
10:38:17	120.688	7571.97		31.22
10:39:43	120.712	7586.39		14.42
10:42:36	120.760	7613.37		26.98
10:44:02	120.784		256.71	
10:46:55	120.832	7648.99		35.62
10:48:22	120.856	7660.46		11.47
10:51:14	120.904		256.47	
10:52:41	120.928	7692.09		31.63
10:55:34	120.976	7711.71		19.62
10:57:00	121.000	7721.03		9.32
10:59:53	121.048	7739.10		18.07
11:01:19	121.072	7747.81		8.72
11:04:12	121.120	7764.95		17.13
11:05:38	121.144		256.32	
11:08:31	121.192	7787.41		22.46
11:09:58	121.216	7795.30		7.89
11:12:50	121.264		256.14	
11:14:17	121.288	7816.81		21.51
11:17:10	121.336	7830.40		13.59
11:18:36	121.360	7836.79		6.40

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
11:21:29	121.408	7850.00		13.21
11:22:55	121.432	7855.62		5.62
11:25:48	121.480	7867.98		12.36
11:27:14	121.504		255.94	
11:30:07	121.552	7885.34		17.36
11:31:34	121.576	7891.27		5.93
11:34:26	121.624		255.87	
11:35:53	121.648	7906.65		15.38
11:38:46	121.696	7917.16		10.51
11:40:12	121.720	7922.14		4.99
11:43:05	121.768	7931.62		9.48
11:44:31	121.792	7937.01		5.39
11:47:24	121.840	7946.14		9.13
11:48:50	121.864		255.65	
11:51:43	121.912	7959.38		13.23
11:53:10	121.936	7963.94		4.56
11:56:02	121.984		255.47	
11:57:29	122.008	7977.16		13.23
12:00:22	122.056	7984.99		7.82
12:01:48	122.080	7987.72		2.73
12:04:00	Open kill valve, close MIDRV			
12:04:41	122.128	7996.71		8.99
12:06:07	122.152	8001.06		4.35
12:09:00	122.200	8016.04		14.98
12:10:00	Pressurise annulus to open PCT (PCT remains closed)			
12:10:26	122.224		255.70	
12:12:00	Commence Bullheading (no increase in gauge pressure)			
12:13:19	122.272	8022.89		6.85
12:14:46	122.296	8025.80		2.91
12:17:38	122.344		255.79	
12:19:05	122.368	8035.77		9.97
12:21:58	122.416	8041.16		5.39
12:23:24	122.440	8045.53		4.37
12:26:17	122.488	8052.38		6.85
12:27:43	122.512	8055.66		3.28
12:30:36	122.560	8062.08		6.42
12:32:02	122.584		255.54	
12:34:55	122.632	8071.57		9.49
12:36:22	122.656	8074.71		3.14
12:39:14	122.704		255.44	
12:40:41	122.728	8083.82		9.11
12:43:34	122.776	8089.77		5.95
12:45:00	122.800	8092.63		2.87
12:47:53	122.848	8098.43		5.80
12:49:19	122.872	8101.27		2.84
12:52:12	122.920	8106.82		5.55
12:53:38	122.944		255.29	
12:56:31	122.992	8115.04		8.22
12:57:58	123.016	8117.81		2.78
13:00:50	123.064		255.21	

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
13:02:17	123.088	8119.40		1.59
13:05:10	123.136	8128.77		9.36
13:06:36	123.160	8131.93		3.16
13:09:29	123.208	8136.45		4.52
13:10:55	123.232	8141.11		4.66
13:13:48	123.280	8161.68		20.57
13:15:14	123.304		255.21	
13:18:07	123.352	8150.70		-10.98
13:19:34	123.376	8154.73		4.03
13:22:26	123.424		254.43	
13:23:53	123.448	8162.82		8.09
13:26:46	123.496	8166.79		3.97
13:28:12	123.520	8170.05		3.26
13:31:05	123.568	8174.27		4.22
13:32:31	123.592	8175.03		0.76
13:35:24	123.640	8178.95		3.92
13:36:50	123.664		254.35	
13:37:00	Unseat packer and circulate (transient pulse seen downhole)			
13:39:43	123.712	8565.83		386.88
13:41:10	123.736	8469.00		-96.84
13:44:02	123.784		256.06	
13:45:29	123.808	8349.95		-119.05
13:48:22	123.856	8317.09		-32.86
13:49:48	123.880	8306.28		-10.81
13:52:41	123.928	8291.83		-14.45
13:54:07	123.952	8286.46		-5.38
13:57:00	124.000	8278.65		-7.81
13:58:26	124.024		255.31	
14:01:19	124.072	8272.47		-6.18
14:02:46	124.096	8271.03		-1.44
14:05:38	124.144		255.05	
14:07:05	124.168	8269.57		-1.46
14:09:58	124.216	8269.03		-0.54
14:11:24	124.240	8269.46		0.43
14:14:17	124.288	8269.88		0.42
14:15:43	124.312	8270.18		0.29
14:18:36	124.360	8271.09		0.91
14:20:02	124.384		254.72	
14:22:55	124.432	8272.80		1.70
14:24:22	124.456	8273.54		0.74
14:27:14	124.504		254.62	
14:28:41	124.528	8275.51		1.97
14:31:34	124.576	8277.07		1.56
14:33:00	124.600	8277.91		0.84
14:35:53	124.648	8279.49		1.58
14:37:19	124.672	8280.34		0.85
14:40:12	124.720	8281.86		1.52
14:41:38	124.744		254.43	
14:44:31	124.792	8285.05		3.19
14:45:58	124.816	8286.40		1.35

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
14:48:50	124.864		254.36	
14:50:17	124.888	8288.79		2.39
14:53:10	124.936	8291.21		2.42
14:54:36	124.960	8292.17		0.96
14:57:29	125.008	8294.71		2.54
14:58:55	125.032	8296.45		1.74
15:01:48	125.080	8298.17		1.72
15:03:14	125.104		254.18	
15:06:07	125.152	8303.27		5.10
15:07:34	125.176	8304.90		1.63
15:10:26	125.224		254.18	
15:11:53	125.248	8309.39		4.50
15:14:46	125.296	8312.12		2.73
15:16:12	125.320	8313.35		1.23
15:19:05	125.368	8316.11		2.76
15:20:31	125.392	8317.29		1.18
15:23:24	125.440	8320.19		2.90
15:24:50	125.464		253.96	
15:27:43	125.512	8323.73		3.54
15:29:10	125.536	8324.98		1.26
15:32:02	125.584		253.93	
15:33:29	125.608	8328.83		3.85
15:36:22	125.656	8331.08		2.25
15:37:48	125.680	8332.26		1.18
15:40:41	125.728	8334.93		2.67
15:42:07	125.752	8336.23		1.30
15:45:00	125.800	8338.02		1.78
15:46:26	125.824		253.81	
15:49:19	125.872	8341.25		3.23
15:50:46	125.896	8342.32		1.07
15:53:38	125.944		253.78	
15:55:05	125.968	8345.95		3.63
15:57:58	126.016	8348.19		2.24
15:59:24	126.040	8349.35		1.16
16:02:17	126.088	8351.71		2.36
16:03:43	126.112	8353.08		1.37
16:06:36	126.160	8355.25		2.17
16:08:02	126.184		253.69	
16:10:55	126.232	8358.48		3.23
16:12:22	126.256	8359.65		1.16
16:15:14	126.304		253.66	
16:16:41	126.328	8363.17		3.53
16:19:34	126.376	8364.63		1.46
16:21:00	126.400	8365.39		0.76
16:23:53	126.448	8366.90		1.51
16:25:19	126.472	8367.88		0.98
16:28:12	126.520	8369.94		2.07
16:29:38	126.544		253.61	
16:32:31	126.592	8374.00		4.05
16:33:58	126.616	8375.26		1.26

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
16:36:50	126.664		253.54	
16:38:17	126.688	8374.71		-0.54
16:41:10	126.736	8376.27		1.55
16:42:36	126.760	8377.46		1.20
16:45:29	126.808	8379.65		2.19
16:46:55	126.832	8380.77		1.12
16:49:48	126.880	8382.87		2.10
16:51:14	126.904		253.51	
16:54:07	126.952	8386.23		3.36
16:55:34	126.976	8386.88		0.65
16:58:26	127.024		253.48	
16:59:53	127.048	8390.21		3.33
17:02:46	127.096	8392.41		2.21
17:04:12	127.120	8393.35		0.93
17:07:05	127.168	8395.54		2.19
17:08:31	127.192	8396.55		1.01
17:11:24	127.240	8398.82		2.27
17:12:50	127.264		253.41	
17:15:43	127.312	8401.74		2.92
17:17:10	127.336	8402.72		0.98
17:20:02	127.384		253.38	
17:21:29	127.408	8405.69		2.97
17:24:22	127.456	8407.81		2.11
17:25:48	127.480	8409.00		1.20
17:28:41	127.528	8410.76		1.76
17:30:07	127.552	8411.88		1.12
17:33:00	127.600	8412.16		0.28
17:34:26	127.624		253.31	
17:37:19	127.672	8414.71		2.55
17:38:46	127.696	8415.55		0.84
17:41:38	127.744		253.27	
17:43:05	127.768	8418.85		3.30
17:45:58	127.816	8421.12		2.27
17:47:24	127.840	8422.26		1.14
17:50:17	127.888	8424.18		1.93
17:51:43	127.912	8425.34		1.15
17:54:36	127.960	8426.92		1.59
17:56:02	127.984		253.22	
17:58:55	128.032	8429.04		2.12
18:00:22	128.056	8430.58		1.54
18:03:14	128.104		253.22	
18:04:41	128.128	8433.52		2.94
18:07:34	128.176	8436.03		2.51
18:09:00	128.200	8436.24		0.22
18:11:53	128.248	8435.81		-0.44
18:13:19	128.272	8436.62		0.81
18:16:12	128.320	8436.31		-0.31
18:17:38	128.344		253.09	
18:18:00	Pump slug, prior to P.O.O.H			604.78
18:20:31	128.392	9041.08		

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
18:21:58	128.416	9074.98		33.89
18:24:50	128.464		255.37	
18:26:17	128.488	9056.29		-18.69
18:29:10	128.536	9053.34		-2.95
18:30:36	128.560	9048.64		-4.70
18:33:29	128.608	9041.99		-6.65
18:34:55	128.632	9039.26		-2.73
18:37:48	128.680	9034.59		-4.67
18:39:14	128.704		254.30	
18:42:07	128.752	9028.18		-6.40
18:43:34	128.776	9025.10		-3.08
18:46:26	128.824		254.06	
18:47:53	128.848	9022.78		-2.32
18:50:46	128.896	9019.97		-2.81
18:52:12	128.920	9017.36		-2.61
18:55:05	128.968	9016.95		-0.40
18:56:31	128.992	9018.24		1.28
18:59:24	129.040	9014.27		-3.96
19:00:50	129.064		253.68	
19:03:43	129.112	9009.93		-4.34
19:05:10	129.136	9007.89		-2.04
19:08:02	129.184		253.54	
19:09:29	129.208	9006.37		-1.53
19:12:22	129.256	9002.31		-4.06
19:13:48	129.280	9003.76		1.46
19:16:41	129.328	9001.50		-2.26
19:18:07	129.352	8999.32		-2.18
19:21:00	129.400	8992.36		-6.97
19:22:26	129.424		253.36	
19:25:19	129.472	8988.46		-3.90
19:26:46	129.496	8993.25		4.79
19:29:38	129.544		253.27	
19:31:05	129.568	9004.40		11.16
19:33:58	129.616	9002.90		-1.50
19:35:24	129.640	9006.62		3.71
19:38:17	129.688	9003.08		-3.54
19:39:43	129.712	9009.59		6.51
19:42:36	129.760	8930.95		-78.64
19:44:02	129.784		252.37	
19:46:55	129.832	9021.61		90.65
19:48:22	129.856	9017.05		-4.55
19:51:14	129.904		251.57	
19:52:41	129.928	9011.00		-6.05
19:55:34	129.976	9006.96		-4.04
19:57:00	130.000	8900.25		-106.71
19:59:53	130.048	8998.88		98.63
20:01:19	130.072	9012.76		13.88
20:04:12	130.120	9023.11		10.35
20:05:38	130.144		249.30	
20:08:31	130.192	9009.16		-13.95

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
20:09:58	130.216	9015.75		6.59
20:12:50	130.264		248.57	
20:14:17	130.288	8988.54		-27.21
20:17:10	130.336	8862.17		-126.37
20:18:36	130.360	8822.68		-39.49
20:21:29	130.408	8985.21		162.53
20:22:55	130.432	8983.17		-2.04
20:25:48	130.480	9058.42		75.25
20:27:14	130.504		247.44	
20:30:07	130.552	8860.03		-198.38
20:31:34	130.576	8821.70		-38.34
20:34:26	130.624		247.10	
20:35:53	130.648	8748.74		-72.95
20:38:46	130.696	8955.76		207.02
20:40:12	130.720	9006.31		50.55
20:43:05	130.768	8998.26		-8.05
20:44:31	130.792	8931.67		-66.59
20:47:24	130.840	9013.18		81.51
20:48:50	130.864		244.20	
20:51:43	130.912	9028.36		15.18
20:53:10	130.936	9013.03		-15.33
20:56:02	130.984		241.41	
20:57:29	131.008	8954.81		-58.23
21:00:22	131.056	8983.39		28.58
21:01:48	131.080	8972.88		-10.50
21:04:41	131.128	8982.35		9.47
21:06:07	131.152	8962.25		-20.10
21:09:00	131.200	8982.96		20.70
21:10:26	131.224		226.37	
21:13:19	131.272	8980.10		-2.86
21:14:46	131.296	8969.52		-10.58
21:17:38	131.344		221.63	
21:19:05	131.368	8960.25		-9.27
21:21:58	131.416	8970.65		10.40
21:23:24	131.440	8996.55		25.90
21:26:17	131.488	8973.10		-23.45
21:27:43	131.512	8925.95		-47.14
21:30:36	131.560	8908.45		-17.50
21:32:02	131.584		231.01	
21:34:55	131.632	8901.79		-6.66
21:36:22	131.656	8908.28		6.49
21:39:14	131.704		225.10	
21:40:41	131.728	8883.95		-24.33
21:43:34	131.776	8878.89		-5.05
21:45:00	131.800	8875.25		-3.65
21:47:53	131.848	8858.14		-17.10
21:49:19	131.872	8854.56		-3.58
21:52:12	131.920	8831.62		-22.94
21:53:38	131.944		217.69	
21:56:31	131.992	8809.13		-22.49

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
21:57:58	132.016	8802.80		-6.33
22:00:50	132.064		215.81	
22:02:17	132.088	8779.93		-22.87
22:05:10	132.136	8764.31		-15.62
22:06:36	132.160	8753.96		-10.36
22:09:29	132.208	8748.52		-5.43
22:10:55	132.232	8711.35		-37.18
22:13:48	132.280	8730.19		18.84
22:15:14	132.304		215.36	
22:18:07	132.352	8706.72		-23.46
22:19:34	132.376	8700.36		-6.36
22:22:26	132.424		214.79	
22:23:53	132.448	8601.97		-98.39
22:26:46	132.496	8588.51		-13.46
22:28:12	132.520	8680.79		92.28
22:31:05	132.568	8649.35		-31.45
22:32:31	132.592	8625.14		-24.21
22:35:24	132.640	8592.30		-32.84
22:36:50	132.664		214.99	
22:39:43	132.712	8622.62		30.33
22:41:10	132.736	8619.66		-2.96
22:44:02	132.784		214.85	
22:45:29	132.808	8619.41		-0.25
22:48:22	132.856	8612.38		-7.03
22:49:48	132.880	8617.45		5.07
22:52:41	132.928	8610.47		-6.98
22:54:07	132.952	8613.09		2.62
22:57:00	133.000	8606.84		-6.26
22:58:26	133.024		215.41	
23:01:19	133.072	8604.09		-2.74
23:02:46	133.096	8601.89		-2.21
23:05:38	133.144		215.62	
23:07:05	133.168	8599.96		-1.92
23:09:58	133.216	8511.45		-88.51
23:11:24	133.240	8567.73		56.28
23:14:17	133.288	8532.90		-34.83
23:15:43	133.312	8587.10		54.20
23:18:36	133.360	8582.73		-4.37
23:20:02	133.384		215.98	
23:22:55	133.432	8575.23		-7.50
23:24:22	133.456	8573.50		-1.74
23:27:14	133.504		216.21	
23:28:41	133.528	8571.86		-1.63
23:31:34	133.576	8569.25		-2.61
23:33:00	133.600	8568.48		-0.77
23:35:53	133.648	8562.73		-5.76
23:37:19	133.672	8560.59		-2.14
23:40:12	133.720	8558.93		-1.66
23:41:38	133.744		216.66	
23:44:31	133.792	8558.07		-0.86

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 11/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
23:45:58	133.816	8557.65		-0.42
23:48:50	133.864		216.86	
23:50:17	133.888	8366.12		-191.53
23:53:10	133.936	8580.90		214.78
23:54:36	133.960	8620.77		39.87
23:57:29	134.008	8585.28		-35.49
23:58:55	134.032	8584.94		-0.34
00:01:48	134.080	8576.33		-8.61
00:03:14	134.104		216.95	
00:06:07	134.152	8568.19		-8.14
00:07:34	134.176	8571.90		3.71
00:10:26	134.224		216.75	
00:11:53	134.248	8579.16		7.27
00:14:46	134.296	8571.87		-7.29
00:16:12	134.320	8571.49		-0.39
00:19:05	134.368	8569.03		-2.46
00:20:31	134.392	8365.27		-203.75
00:23:24	134.440	8505.86		140.58
00:24:50	134.464		219.45	
00:27:43	134.512	8476.18		-29.68
00:29:10	134.536	8428.92		-47.25
00:32:02	134.584		217.95	
00:33:29	134.608	8416.27		-12.66
00:36:22	134.656	8398.55		-17.71
00:37:48	134.680	8380.98		-17.57
00:40:41	134.728	8346.48		-34.50
00:42:07	134.752	8091.55		-254.93
00:45:00	134.800	8294.14		202.59
00:46:26	134.824		213.30	
00:49:19	134.872	8231.49		-62.65
00:50:46	134.896	8235.17		3.67
00:53:38	134.944		212.91	
00:55:05	134.968	8085.10		-150.06
00:57:58	135.016	8167.12		82.01
00:59:24	135.040	8149.96		-17.16
01:02:17	135.088	7944.89		-205.07
01:03:43	135.112	8110.05		165.17
01:06:36	135.160	8064.49		-45.56
01:08:02	135.184		210.05	
01:10:55	135.232	8024.68		-39.81
01:12:22	135.256	7851.09		-173.59
01:15:14	135.304		208.56	
01:16:41	135.328	7964.06		112.97
01:19:34	135.376	7926.46		-37.60
01:21:00	135.400	7904.41		-22.05
01:23:53	135.448	7803.64		-100.77
01:25:19	135.472	7860.72		57.07
01:28:12	135.520	7820.46		-40.25
01:29:38	135.544		205.57	
01:32:31	135.592	7759.52		-60.94

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
01:33:58	135.616	7738.91		-20.61
01:36:50	135.664		203.48	
01:38:17	135.688	7519.99		-218.92
01:41:10	135.736	7658.30		138.31
01:42:36	135.760	7636.57		-21.72
01:45:29	135.808	7591.04		-45.53
01:46:55	135.832	7575.67		-15.37
01:49:48	135.880	7535.87		-39.80
01:51:14	135.904		200.01	
01:54:07	135.952	7474.93		-60.94
01:55:34	135.976	7453.02		-21.91
01:58:26	136.024		197.96	
01:59:53	136.048	7398.27		-54.75
02:02:46	136.096	7349.68		-48.59
02:04:12	136.120	7335.44		-14.24
02:07:05	136.168	7314.93		-20.51
02:08:31	136.192	7292.00		-22.92
02:11:24	136.240	7250.75		-41.25
02:12:50	136.264		195.03	
02:15:43	136.312	7209.02		-41.73
02:17:10	136.336	7185.41		-23.61
02:20:02	136.384		192.69	
02:21:29	136.408	7123.97		-61.44
02:24:22	136.456	7105.28		-18.69
02:25:48	136.480	7081.12		-24.16
02:28:41	136.528	7062.11		-19.01
02:30:07	136.552	7042.14		-19.97
02:33:00	136.600	7022.18		-19.96
02:34:26	136.624		189.56	
02:37:19	136.672	6959.31		-62.87
02:38:46	136.696	6940.31		-19.00
02:41:38	136.744		187.96	
02:43:05	136.768	6897.14		-43.17
02:45:58	136.816	6877.51		-19.63
02:47:24	136.840	6856.21		-21.30
02:50:17	136.888	6639.74		-216.47
02:51:43	136.912	6816.77		177.02
02:54:36	136.960	6770.69		-46.08
02:56:02	136.984		184.56	
02:58:55	137.032	6731.05		-39.64
03:00:22	137.056	6701.19		-29.86
03:03:14	137.104		183.00	
03:04:41	137.128	6673.64		-27.55
03:07:34	137.176	6651.06		-22.57
03:09:00	137.200	6631.53		-19.54
03:11:53	137.248	6563.32		-68.21
03:13:19	137.272	6591.27		27.95
03:16:12	137.320	6549.93		-41.34
03:17:38	137.344		180.19	
03:20:31	137.392	6522.52		-27.41

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
03:21:58	137.416	6490.43		--32.09
03:24:50	137.464		178.59	
03:26:17	137.488	6452.06		-38.37
03:29:10	137.536	6408.83		-43.23
03:30:36	137.560	6386.18		-22.66
03:33:29	137.608	6334.09		-52.09
03:34:55	137.632	6343.52		9.43
03:37:48	137.680	6072.84		-270.68
03:39:14	137.704		175.91	
03:42:07	137.752	6258.84		186.00
03:43:34	137.776	6241.39		-17.45
03:46:26	137.824		174.75	
03:47:53	137.848	6200.33		-41.06
03:50:46	137.896	6175.08		-25.24
03:52:12	137.920	6162.39		-12.69
03:55:05	137.968	6136.90		-25.50
03:56:31	137.992	6114.67		-22.23
03:59:24	138.040	6095.91		-18.75
04:00:50	138.064		172.51	
04:03:43	138.112	5862.90		-233.02
04:05:10	138.136	6038.76		175.86
04:08:02	138.184		171.44	
04:09:29	138.208	5996.52		-42.24
04:12:22	138.256	5958.22		-38.30
04:13:48	138.280	5937.99		-20.23
04:16:41	138.328	5851.37		-86.62
04:18:07	138.352	5893.77		42.40
04:21:00	138.400	5877.32		-16.44
04:22:26	138.424		169.11	
04:25:19	138.472	5836.48		-40.84
04:26:46	138.496	5816.14		-20.34
04:29:38	138.544		168.12	
04:31:05	138.568	5755.76		-60.38
04:33:58	138.616	5715.61		-40.16
04:35:24	138.640	5647.99		-67.62
04:38:17	138.688	5672.25		24.26
04:39:43	138.712	5651.01		-21.24
04:42:36	138.760	5630.14		-20.87
04:44:02	138.784		165.58	
04:46:55	138.832	5465.86		-164.28
04:48:22	138.856	5563.40		97.54
04:51:14	138.904		164.66	
04:52:41	138.928	5523.95		-39.45
04:55:34	138.976	5483.13		-40.82
04:57:00	139.000	5426.86		-56.26
04:59:53	139.048	5231.98		-194.89
05:01:19	139.072	5216.40		-15.58
05:04:12	139.120	5376.95		160.55
05:05:38	139.144		161.72	
05:08:31	139.192	5323.07		-53.88

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
05:09:58	139.216	5300.79		-22.28
05:12:50	139.264		160.15	
05:14:17	139.288	5240.86		-59.92
05:17:10	139.336	5216.76		-24.10
05:18:36	139.360	5196.19		-20.57
05:21:29	139.408	5154.33		-41.87
05:22:55	139.432	5158.35		4.03
05:25:48	139.480	5117.04		-41.32
05:27:14	139.504		157.09	
05:30:07	139.552	4903.85		-213.18
05:31:34	139.576	5058.56		154.71
05:34:26	139.624		155.81	
05:35:53	139.648	5014.03		-44.53
05:38:46	139.696	4986.32		-27.70
05:40:12	139.720	4972.39		-13.94
05:43:05	139.768	4952.40		-19.99
05:44:31	139.792	4931.42		-20.98
05:47:24	139.840	4891.52		-39.90
05:48:50	139.864		153.01	
05:51:43	139.912	4845.28		-46.24
05:53:10	139.936	4839.52		-5.76
05:56:02	139.984		151.62	
05:57:29	140.008	4787.59		-51.93
06:00:22	140.056	4747.87		-39.72
06:01:48	140.080	4721.15		-26.72
06:04:41	140.128	4661.17		-59.98
06:06:07	140.152	4507.27		-153.90
06:09:00	140.200	4631.80		124.53
06:10:26	140.224		147.90	
06:13:19	140.272	4581.18		-50.62
06:14:46	140.296	4417.89		-163.29
06:17:38	140.344		146.13	
06:19:05	140.368	4518.86		100.96
06:21:58	140.416	4473.80		-45.05
06:23:24	140.440	4459.25		-14.56
06:26:17	140.488	4407.99		-51.26
06:27:43	140.512	4393.93		-14.05
06:30:36	140.560	4376.16		-17.77
06:32:02	140.584		142.48	
06:34:55	140.632	4309.96		-66.20
06:36:22	140.656	4292.89		-17.07
06:39:14	140.704		140.47	
06:40:41	140.728	4210.39		-82.50
06:43:34	140.776	4166.30		-44.10
06:45:00	140.800	4153.03		-13.27
06:47:53	140.848	4106.00		-47.03
06:49:19	140.872	4091.72		-14.28
06:52:12	140.920	4051.20		-40.52
06:53:38	140.944		136.38	
06:56:31	140.992	3992.93		-58.27

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
06:57:58	141.016	3903.36		-89.57
07:00:50	141.064		134.36	
07:02:17	141.088	3914.52		11.16
07:05:10	141.136	3882.46		-32.06
07:06:36	141.160	3859.09		-23.38
07:09:29	141.208	3819.04		-40.05
07:10:55	141.232	3799.27		-19.77
07:13:48	141.280	3754.45		-44.82
07:15:14	141.304		130.39	
07:18:07	141.352	3714.74		-39.71
07:19:34	141.376	3682.79		-31.96
07:22:26	141.424		128.61	
07:23:53	141.448	3634.73		-48.05
07:26:46	141.496	3598.39		-36.34
07:28:12	141.520	3575.38		-23.01
07:31:05	141.568	3533.04		-42.34
07:32:31	141.592	3513.43		-19.61
07:35:24	141.640	3469.56		-43.88
07:36:50	141.664		124.61	
07:39:43	141.712	3410.68		-58.88
07:41:10	141.736	3384.17		-26.51
07:44:02	141.784		122.85	
07:45:29	141.808	3340.59		-43.58
07:48:22	141.856	3303.99		-36.60
07:49:48	141.880	3282.54		-21.46
07:52:41	141.928	3084.99		-197.55
07:54:07	141.952	3178.87		93.88
07:57:00	142.000	3045.12		-133.75
07:58:26	142.024		119.65	
08:01:19	142.072	3148.65		103.53
08:02:46	142.096	3128.27		-20.38
08:05:38	142.144		117.68	
08:07:05	142.168	3057.87		-70.40
08:09:58	142.216	3024.32		-33.55
08:11:24	142.240	2924.29		-100.03
08:14:17	142.288	2836.37		-87.92
08:15:43	142.312	2798.63		-37.74
08:18:36	142.360	2879.81		81.17
08:20:02	142.384		113.48	
08:22:55	142.432	2824.04		-55.76
08:24:22	142.456	2802.02		-22.03
08:27:14	142.504		111.59	
08:28:41	142.528	2742.46		-59.55
08:31:34	142.576	2741.81		-0.65
08:33:00	142.600	2623.92		-117.90
08:35:53	142.648	2675.21		51.29
08:37:19	142.672	2507.51		-167.70
08:40:12	142.720	2600.38		92.87
08:41:38	142.744		108.29	
08:44:31	142.792	2538.34		-62.05

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
08:45:58	142.816	2481.49		-56.85
08:48:50	142.864		106.57	
08:50:17	142.888	2476.16		-5.32
08:53:10	142.936	2432.66		-43.50
08:54:36	142.960	2416.85		-15.81
08:57:29	143.008	2395.23		-21.63
08:58:55	143.032	2369.65		-25.58
09:01:48	143.080	2330.08		-39.57
09:03:14	143.104		103.35	
09:06:07	143.152	2286.97		-43.10
09:07:34	143.176	2250.20		-36.78
09:10:26	143.224		101.99	
09:11:53	143.248	2226.75		-23.45
09:14:46	143.296	2192.69		-34.06
09:16:12	143.320	2167.56		-25.13
09:19:05	143.368	2132.38		-35.18
09:20:31	143.392	2116.48		-15.90
09:23:24	143.440	2089.85		-26.63
09:24:50	143.464		98.23	
09:27:43	143.512	1949.00		-140.85
09:29:10	143.536	1960.14		11.15
09:32:02	143.584		97.03	
09:33:29	143.608	1955.96		-4.19
09:36:22	143.656	1866.60		-89.36
09:37:48	143.680	1920.49		53.89
09:40:41	143.728	1883.57		-36.92
09:42:07	143.752	1811.81		-71.76
09:45:00	143.800	1845.08		33.27
09:46:26	143.824		94.35	
09:49:19	143.872	1795.69		-49.39
09:50:46	143.896	1778.59		-17.10
09:53:38	143.944		92.99	
09:55:05	143.968	1750.24		-28.35
09:57:58	144.016	1698.68		-51.56
09:59:24	144.040	1675.53		-23.15
10:02:17	144.088	1636.72		-38.81
10:03:43	144.112	1591.61		-45.11
10:06:36	144.160	1529.09		-62.52
10:08:02	144.184		89.27	
10:10:55	144.232	1544.63		15.54
10:12:22	144.256	1545.94		1.31
10:15:14	144.304		88.17	
10:16:41	144.328	1517.45		-28.48
10:19:34	144.376	1500.81		-16.64
10:21:00	144.400	1495.88		-4.93
10:23:53	144.448	1429.16		-66.72
10:25:19	144.472	1430.05		0.89
10:28:12	144.520	1395.33		-34.72
10:29:38	144.544		85.80	
10:32:31	144.592	1334.53		-60.80

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
10:33:58	144.616	1316.63		-17.90
10:36:50	144.664		83.71	
10:38:17	144.688	1254.04		-62.59
10:41:10	144.736	1126.38		-127.66
10:42:36	144.760	1094.74		-31.65
10:45:29	144.808	1154.26		59.53
10:46:55	144.832	1069.22		-85.05
10:49:48	144.880	1047.47		-21.75
10:51:14	144.904		79.64	
10:54:07	144.952	1007.08		-40.39
10:55:34	144.976	986.48		-20.60
10:58:26	145.024		77.05	
10:59:53	145.048	920.24		-66.24
11:02:46	145.096	930.11		9.87
11:04:12	145.120	913.27		-16.85
11:07:05	145.168	871.28		-41.99
11:08:31	145.192	847.99		-23.29
11:11:24	145.240	810.04		-37.95
11:12:50	145.264		72.53	
11:15:43	145.312	769.13		-40.91
11:17:10	145.336	751.12		-18.01
11:20:02	145.384		69.30	
11:21:29	145.408	691.11		-60.01
11:24:22	145.456	617.05		-74.06
11:25:48	145.480	603.30		-13.75
11:28:41	145.528	589.72		-13.58
11:30:07	145.552	565.54		-24.18
11:33:00	145.600	567.62		2.08
11:34:26	145.624		60.11	
11:37:19	145.672	566.99		-0.63
11:38:46	145.696	567.37		0.37
11:41:38	145.744		59.43	
11:43:05	145.768	567.56		0.19
11:45:58	145.816	561.71		-5.85
11:47:24	145.840	556.58		-5.14
11:50:17	145.888	549.25		-7.33
11:51:43	145.912	548.32		-0.92
11:54:36	145.960	549.07		0.75
11:56:02	145.984		59.38	
11:58:55	146.032	534.09		-14.98
12:00:22	146.056	530.28		-3.81
12:03:14	146.104		59.45	
12:04:41	146.128	530.08		-0.20
12:07:34	146.176	521.27		-8.81
12:09:00	146.200	516.33		-4.94
12:11:53	146.248	515.57		-0.76
12:13:19	146.272	515.11		-0.46
12:16:12	146.320	515.24		0.14
12:17:38	146.344		59.40	
12:20:31	146.392	497.19		-18.05

Exal Reservoir Services Ltd.

Client : Petrofina Australia
 Location: Zapata Arctic
 Test No.: DST # 2

Gauge No: 75189
 Well No.: Anemone # 1A
 Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	Pn-P(n-1) PSIA
12:21:58	146.416	496.34		-0.86
12:24:50	146.464		59.57	
12:26:17	146.488	475.20		-21.14
12:29:10	146.536	461.98		-13.22
12:30:36	146.560	456.55		-5.43
12:33:29	146.608	456.74		0.19
12:34:55	146.632	436.81		-19.93
12:37:48	146.680	436.65		-0.16
12:39:14	146.704		59.40	
12:42:07	146.752	417.06		-19.58
12:43:34	146.776	397.41		-19.66
12:46:26	146.824		58.80	
12:47:53	146.848	377.23		-20.18
12:50:46	146.896	358.19		-19.04
12:52:12	146.920	357.75		-0.43
12:55:05	146.968	338.84		-18.92
12:56:31	146.992	338.64		-0.20
12:59:24	147.040	319.13		-19.51
13:00:50	147.064		58.32	
13:03:43	147.112	299.44		-19.69
13:05:10	147.136	281.34		-18.10
13:08:02	147.184		58.08	
13:09:29	147.208	278.45		-2.89
13:12:22	147.256	260.32		-18.13
13:13:48	147.280	240.46		-19.86
13:16:41	147.328	228.13		-12.33
13:18:07	147.352	221.34		-6.79
13:21:00	147.400	201.78		-19.55
13:22:26	147.424		57.39	
13:25:19	147.472	182.14		-19.64
13:26:46	147.496	182.44		0.30
13:29:38	147.544		57.16	
13:31:05	147.568	160.75		-21.68
13:33:58	147.616	159.57		-1.18
13:35:24	147.640	159.63		0.06
13:38:17	147.688	159.89		0.26
13:39:43	147.712	159.62		-0.27
13:42:36	147.760	106.71		-52.91
13:44:02	147.784		57.49	
13:46:55	147.832	103.86		-2.86
13:48:22	147.856	103.49		-0.37
13:51:14	147.904		58.69	
13:52:41	147.928	100.19		-3.30
13:55:34	147.976	98.13		-2.06
13:57:00	148.000	96.83		-1.30
13:59:53	148.048	95.75		-1.08
14:01:19	148.072	94.85		-0.90
14:04:12	148.120	86.61		-8.24
14:05:38	148.144		61.19	
14:08:31	148.192	40.34		-46.28

Client : Petrofina Australia
Location: Zapata Arctic
Test No.: DST # 2

Gauge No: 75189
Well No.: Anemone # 1A
Date : 12/10/89

Real Time HH:MM:SS	Delta Time Hours	Pressure PSIA	Temp Deg F	P _n -P _(n-1) PSIA
14:09:58	148.216	39.23		-1.10
14:12:50	148.264		65.28	
14:14:17	148.288	37.94		-1.30
14:17:10	148.336	30.41		-7.52
14:18:36	148.360	29.51		-0.90
14:21:29	148.408	21.19		-8.32
14:22:55	148.432	23.04		1.84
14:25:48	148.480	22.36		-0.68
14:27:14	148.504		66.62	
14:30:07	148.552	25.12		2.76
14:31:34	148.576	26.59		1.47
14:34:26	148.624		61.96	
14:35:53	148.648	26.12		-0.47
14:38:46	148.696	25.76		-0.36

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 75189A.OIL

Test type: CRB

Date: 15/10/89 Time: 10:18

Analyst name.....: R.Weir
Company.....: Petrofina Exploration Australia SA
Well.....: Anemone # 1a
Field.....: Wildcat
Date.....: 06/10/89-12/10/89
Rig Name/Number.....: Zapata Arctic
Test.....: DST #2
Gauge Type.....: EMS 700
Gauge Number.....: 75189
Gauge Depth - Measured..: 4266.5
 Vertical...:
Producing Formation..Top:
 Bottom:
Perforated interval..Top: 4536.3-4546.3
 Bottom:
Depth Reference - MSL...:
Remarks.....:

TEST PARAMETERS

Test type - Constant rate buildup

Flow rate at surface (q).....:	50.000 STB/day
Pressure prior to shut-in (p(dt=0)).....:	6249.216 psia
Equivalent production time (Tp).....:	0.1670 hr
Time when dt=0.....:	54.320 hr

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 75189A.OIL

Date: 15/10/89 Time: 10:18

Test type: CRB

RESERVOIR CONSTANTS

Formation thickness (h).....:	32.800 ft
Average formation porosity (ϕ).....:	0.1600
Well radius (rw).....:	0.4000 ft
Water saturation (Sw).....:	1.000
Gas saturation (Sg).....:	0.0000

PRODUCED FLUID PROPERTIES

Oil gravity.....:	0.0000 API
Gas gravity.....:	0.0000 sp grav
Gas-oil ratio.....:	0.0000 scf/STB
Produced WOR.....:	999.000
Water salinity.....:	5000.000 ppm

FLUID PROPERTIES AT :

Reservoir pressure.....:	9000.000 psia
Temperature (T).....:	260.000 deg F

CORRELATIONS.....: Bo,Pb,Rs :STANDING
 Oil viscosity :BEGGS

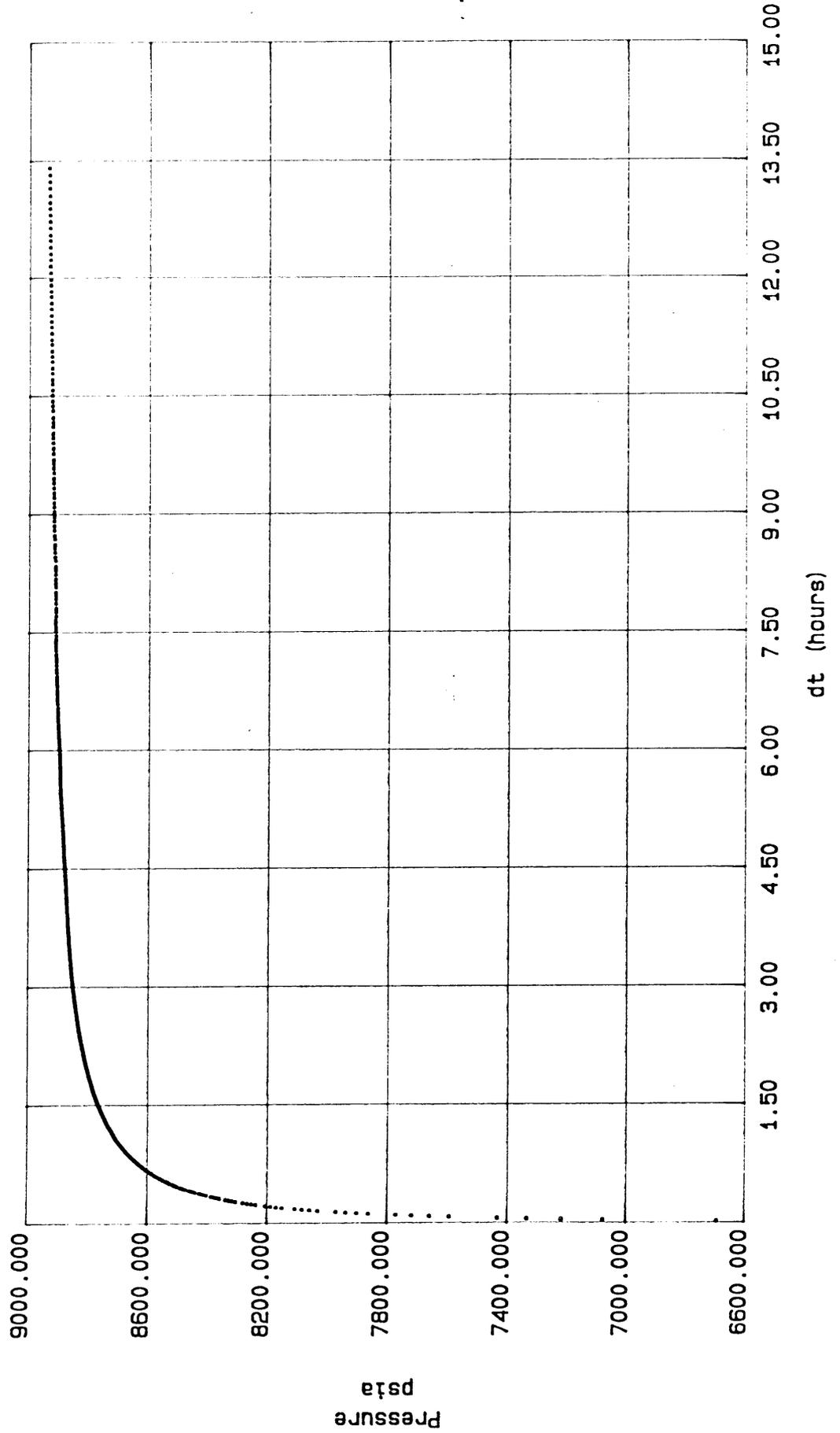
Gas-oil ratio.....:	0.0000 scf/STB
Bubble-point pressure (Pb).....:	0.0000 psia
Oil density.....:	74.700 lb/ft3
Water density.....:	59.610 lb/ft3
Gas density.....:	24.198 lb/ft3

	FVF (V / V)	VISCOSITY	COMPRESSIBILITY
OIL...:	Bo.: 1.000 RB/STB	Uo.: 0.0000 cp	Co.: 0.0000 psi-1
WATER...:	Bw.: 1.050 RB/STB	Uw.: 0.2258 cp	Cw.:3.07E-06 psi-1
GAS...:	Bg.: 0.0000 ft3/scf	Ug.: 0.0000 cp	Cg.: 0.0000 psi-1
		ROCK	Cf.:4.00E-06 psi-1
		TOTAL	Ct.:7.07E-06 psi-1

PANSYSTEM (C) EPDS 1986, 87, 88.

CARTESIAN PLOT

File.....: 75189A.DTL Field.....: Wildcat
Analyst name.....: R.Weir Date.....: 05/10/89-12/10/89
Company.....: Petrofina Exploration Australia SA Rig Name/Number.....: Zapata Arctic
Well.....: Anemone # 1a Test.....: DST #2



Data Point	Time Hours	Pressure psia
1.	54.3360	6694.265
2.	54.3520	7079.733
3.	54.3600	7218.329
4.	54.3680	7334.315
5.	54.3760	7433.189
6.	54.3920	7593.413
7.	54.4000	7659.580
8.	54.4080	7718.405
9.	54.4160	7771.320
10.	54.4320	7862.641
11.	54.4400	7902.421
12.	54.4480	7938.790
13.	54.4560	7972.199
14.	54.4720	8032.243
15.	54.4800	8059.175
16.	54.4880	8084.323
17.	54.4960	8107.916
18.	54.5120	8150.837
19.	54.5200	8170.393
20.	54.5280	8188.846
21.	54.5360	8206.149
22.	54.5520	8238.317
23.	54.5600	8253.134
24.	54.5680	8267.307
25.	54.5760	8280.834
26.	54.5920	8305.871
27.	54.6000	8317.551
28.	54.6080	8328.769
29.	54.6160	8339.664
30.	54.6320	8360.113
31.	54.6400	8369.759
32.	54.6480	8378.988
33.	54.6560	8387.893
34.	54.6720	8404.714
35.	54.6800	8412.646
36.	54.6880	8420.346
37.	54.6960	8427.720
38.	54.7120	8441.867
39.	54.7200	8448.546
40.	54.7280	8454.992
41.	54.7360	8461.486
42.	54.7520	8473.930
43.	54.7600	8479.820
44.	54.7680	8485.570
45.	54.7760	8491.275
46.	54.7920	8501.828
47.	54.8000	8506.927
48.	54.8080	8512.073
49.	54.8160	8516.939
50.	54.8320	8526.268

Data Point	Time Hours	Pressure psia
51.	54.8400	8530.855
52.	54.8480	8535.349
53.	54.8560	8539.563
54.	54.8720	8547.820
55.	54.8800	8551.942
56.	54.8880	8555.876
57.	54.8960	8559.624
58.	54.9120	8566.996
59.	54.9200	8570.604
60.	54.9280	8574.072
61.	54.9360	8577.446
62.	54.9520	8584.102
63.	54.9600	8587.337
64.	54.9680	8590.619
65.	54.9760	8593.761
66.	54.9920	8599.810
67.	55.0000	8602.671
68.	55.0080	8605.720
69.	55.0160	8608.581
70.	55.0320	8614.133
71.	55.0400	8616.855
72.	55.0480	8619.529
73.	55.0560	8622.063
74.	55.0720	8627.163
75.	55.0800	8629.604
76.	55.0880	8632.091
77.	55.0960	8634.532
78.	55.1120	8639.227
79.	55.1200	8641.481
80.	55.1280	8643.781
81.	55.1360	8646.035
82.	55.1520	8650.340
83.	55.1600	8652.454
84.	55.1680	8654.520
85.	55.1760	8656.540
86.	55.1920	8660.580
87.	55.2000	8662.506
88.	55.2080	8664.526
89.	55.2160	8666.405
90.	55.2320	8670.227
91.	55.2400	8672.013
92.	55.2480	8673.846
93.	55.2560	8675.631
94.	55.2720	8679.109
95.	55.2800	8680.801
96.	55.2880	8682.493
97.	55.2960	8684.232
98.	55.3120	8687.523
99.	55.3200	8689.121
100.	55.3280	8690.767

Data Point	Time Hours	Pressure psia
101.	55.3360	8692.412
102.	55.3520	8695.485
103.	55.3600	8697.037
104.	55.3680	8698.588
105.	55.3760	8700.046
106.	55.3920	8702.947
107.	55.4000	8704.264
108.	55.4080	8705.722
109.	55.4160	8707.086
110.	55.4320	8709.657
111.	55.4400	8710.833
112.	55.4480	8711.915
113.	55.4560	8713.091
114.	55.4720	8715.522
115.	55.4800	8716.651
116.	55.4880	8717.734
117.	55.4960	8718.957
118.	55.5120	8721.388
119.	55.5200	8722.753
120.	55.5280	8723.929
121.	55.5360	8725.247
122.	55.5520	8727.632
123.	55.5600	8728.855
124.	55.5680	8730.032
125.	55.5760	8731.161
126.	55.5920	8733.358
127.	55.6000	8734.347
128.	55.6080	8735.476
129.	55.6160	8736.465
130.	55.6320	8738.615
131.	55.6400	8739.698
132.	55.6480	8740.733
133.	55.6560	8741.769
134.	55.6720	8743.841
135.	55.6800	8744.782
136.	55.6960	8746.760
137.	55.7120	8748.596
138.	55.7200	8749.444
139.	55.7280	8750.339
140.	55.7360	8751.233
141.	55.7520	8753.149
142.	55.7600	8754.138
143.	55.7680	8755.033
144.	55.7760	8755.928
145.	55.7920	8757.702
146.	55.8080	8759.539
147.	55.8160	8760.434
148.	55.8320	8762.114
149.	55.8480	8763.763
150.	55.8560	8764.658

Data Point	Time Hours	Pressure psia
151.	55.8720	8766.213
152.	55.8880	8767.909
153.	55.8960	8768.710
154.	55.9120	8770.281
155.	55.9280	8771.553
156.	55.9360	8772.307
157.	55.9520	8773.815
158.	55.9600	8774.569
159.	55.9680	8775.276
160.	55.9760	8776.030
161.	55.9920	8777.287
162.	56.0000	8778.041
163.	56.0160	8779.455
164.	56.0320	8780.853
165.	56.0480	8782.173
166.	56.0560	8782.880
167.	56.0720	8784.169
168.	56.0800	8784.829
169.	56.0880	8785.489
170.	56.1120	8787.297
171.	56.1280	8788.522
172.	56.1360	8789.135
173.	56.1520	8790.297
174.	56.1600	8790.910
175.	56.1760	8792.088
176.	56.1920	8793.235
177.	56.2000	8793.801
178.	56.2080	8794.366
179.	56.2400	8796.645
180.	56.2480	8797.163
181.	56.2560	8797.729
182.	56.2720	8798.844
183.	56.2880	8799.834
184.	56.2960	8800.353
185.	56.3120	8801.406
186.	56.3280	8802.396
187.	56.3360	8802.868
188.	56.3520	8803.843
189.	56.3680	8804.833
190.	56.3760	8805.305
191.	56.3920	8806.185
192.	56.4080	8807.129
193.	56.4160	8807.647
194.	56.4320	8808.607
195.	56.4480	8809.503
196.	56.4560	8809.881
197.	56.4720	8810.715
198.	56.4880	8811.752
199.	56.5200	8813.545
200.	56.5360	8814.488

Data Point	Time Hours	Pressure psia
201.	56.5520	8815.337
202.	56.5600	8815.762
203.	56.5760	8816.517
204.	56.5920	8817.350
205.	56.6080	8818.247
206.	56.6150	8818.719
207.	56.6400	8819.930
208.	56.6560	8820.874
209.	56.6720	8821.723
210.	56.6800	8822.147
211.	56.6960	8822.902
212.	56.7120	8823.563
213.	56.7280	8824.459
214.	56.7520	8825.482
215.	56.7600	8825.860
216.	56.7760	8826.568
217.	56.7920	8827.260
218.	56.8080	8827.921
219.	56.8320	8829.101
220.	56.8400	8829.384
221.	56.8560	8830.139
222.	56.8800	8831.035
223.	56.8960	8831.602
224.	56.9120	8832.342
225.	56.9280	8832.719
226.	56.9520	8833.710
227.	56.9600	8833.899
228.	56.9760	8834.513
229.	57.0000	8835.409
230.	57.0160	8836.070
231.	57.0320	8836.669
232.	57.0480	8837.377
233.	57.0720	8838.132
234.	57.0880	8838.651
235.	57.0960	8839.076
236.	57.1200	8839.816
237.	57.1360	8840.382
238.	57.1600	8841.421
239.	57.1760	8841.940
240.	57.2000	8842.727
241.	57.2160	8843.152
242.	57.2320	8843.734
243.	57.2560	8844.537
244.	57.2720	8845.103
245.	57.2960	8845.859
246.	57.3120	8846.363
247.	57.3280	8846.929
248.	57.3520	8847.685
249.	57.3680	8848.157
250.	57.3920	8848.991

Data Point	Time Hours	Pressure psia
251.	57.4080	8849.369
252.	57.4320	8849.936
253.	57.4560	8850.786
254.	57.4720	8851.290
255.	57.4960	8851.904
256.	57.5120	8852.344
257.	57.5360	8852.911
258.	57.5600	8853.509
259.	57.5760	8853.934
260.	57.6000	8854.454
261.	57.6160	8854.926
262.	57.6480	8855.398
263.	57.6720	8856.059
264.	57.6880	8856.295
265.	57.7120	8856.847
266.	57.7360	8857.508
267.	57.7520	8857.744
268.	57.7760	8858.264
269.	57.8000	8858.925
270.	57.8160	8859.303
271.	57.8480	8859.996
272.	57.8720	8860.515
273.	57.8960	8861.082
274.	57.9120	8861.460
275.	57.9360	8861.791
276.	57.9680	8862.169
277.	57.9920	8862.594
278.	58.0160	8862.972
279.	58.0320	8863.255
280.	58.0560	8863.727
281.	58.0880	8864.247
282.	58.1120	8864.373
283.	58.1360	8864.657
284.	58.1600	8864.940
285.	58.1760	8865.035
286.	58.2160	8865.649
287.	58.2320	8865.979
288.	58.2720	8866.688
289.	58.2880	8867.066
290.	58.3120	8867.476
291.	58.3360	8867.665
292.	58.3680	8868.279
293.	58.3920	8868.689
294.	58.4160	8869.067
295.	58.4480	8869.539
296.	58.4720	8869.823
297.	58.5120	8870.484
298.	58.5360	8870.862
299.	58.5520	8871.098
300.	58.5760	8871.476

Data Point	Time Hours	Pressure psia
301.	58.6160	8872.090
302.	58.6480	8872.705
303.	58.6800	8873.256
304.	58.6960	8873.445
305.	58.7360	8874.201
306.	58.7520	8874.390
307.	58.7920	8875.052
308.	58.8160	8875.430
309.	58.8480	8875.745
310.	58.8720	8876.280
311.	58.9120	8877.068
312.	58.9360	8877.588
313.	58.9680	8878.344
314.	58.9920	8878.612
315.	59.0320	8879.195
316.	59.0560	8879.384
317.	59.0960	8879.762
318.	59.1200	8880.187
319.	59.1600	8880.660
320.	59.1920	8881.164
321.	59.2160	8881.684
322.	59.2560	8882.015
323.	59.2800	8881.920
324.	59.3200	8882.724
325.	59.3600	8883.574
326.	59.3760	8883.716
327.	59.4160	8884.236
328.	59.4560	8885.134
329.	59.4800	8885.450
330.	59.5200	8886.316
331.	59.5520	8886.835
332.	59.5920	8887.766
333.	59.6160	8888.049
334.	59.6560	8888.711
335.	59.6960	8889.373
336.	59.7280	8889.751
337.	59.7600	8890.365
338.	59.8000	8890.838
339.	59.8320	8891.059
340.	59.8800	8891.532
341.	59.9120	8891.815
342.	59.9520	8892.067
343.	59.9760	8892.067
344.	60.0160	8892.005
345.	60.0560	8892.415
346.	60.0960	8892.761
347.	60.1360	8893.234
348.	60.1680	8893.423
349.	60.2080	8893.738
350.	60.2480	8894.179

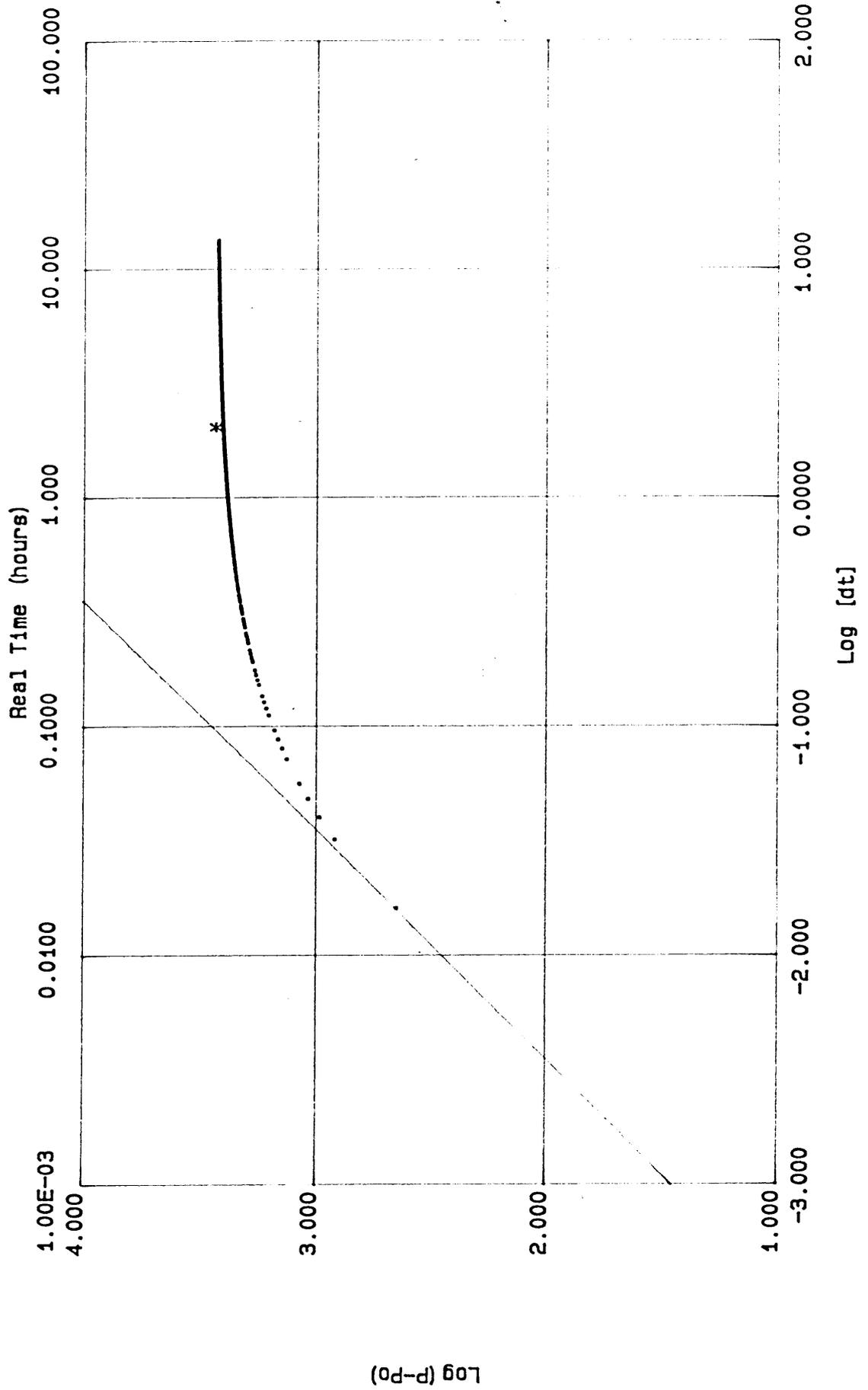
Data Point	Time Hours	Pressure psia
351.	60.2800	8894.557
352.	60.3200	8894.967
353.	60.3600	8895.503
354.	60.4000	8895.866
355.	60.4400	8896.575
356.	60.4800	8897.299
357.	60.5200	8897.899
358.	60.5600	8898.324
359.	60.6080	8898.750
360.	60.6480	8899.364
361.	60.6960	8899.884
362.	60.7360	8900.200
363.	60.7760	8900.484
364.	60.8160	8900.862
365.	60.8560	8901.335
366.	60.9120	8901.855
367.	60.9600	8902.895
368.	60.9920	8903.179
369.	61.0400	8903.699
370.	61.0800	8903.746
371.	61.1360	8904.125
372.	61.1680	8904.550
373.	61.2160	8904.976
374.	61.2560	8905.150
375.	61.3120	8906.001
376.	61.3520	8906.379
377.	61.4080	8906.852
378.	61.4560	8906.947
379.	61.4880	8907.215
380.	61.5360	8907.925
381.	61.5920	8908.318
382.	61.6400	8908.602
383.	61.6880	8909.996
384.	61.7280	8908.333
385.	61.7760	8908.176
386.	61.8400	8908.712
387.	61.8880	8909.264
388.	61.9360	8909.894
389.	61.9760	8910.131
390.	62.0320	8908.555
391.	62.0880	8908.034
392.	62.1280	8908.555
393.	62.1920	8908.744
394.	62.2480	8909.090
395.	62.2960	8909.359
396.	62.3360	8909.516
397.	62.4000	8909.800
398.	62.4480	8910.098
399.	62.4960	8910.225
400.	62.5600	8910.414

Data Point	Time Hours	Pressure psia
401.	62.6160	8910.414
402.	62.6560	8910.320
403.	62.7280	8911.266
404.	62.7760	8912.321
405.	62.8400	8913.315
406.	62.8960	8913.835
407.	62.9360	8913.504
408.	63.0080	8913.740
409.	63.0560	8914.387
410.	63.1200	8915.475
411.	63.1760	8916.153
412.	63.2400	8915.901
413.	63.2960	8915.632
414.	63.3520	8915.886
415.	63.4160	8916.516
416.	63.4720	8916.879
417.	63.5360	8916.832
418.	63.5920	8917.131
419.	63.6560	8917.604
420.	63.7200	8918.109
421.	63.7760	8918.266
422.	63.8480	8917.778
423.	63.9120	8918.677
424.	63.9680	8918.960
425.	64.0160	8919.055
426.	64.0960	8919.765
427.	64.1600	8920.143
428.	64.2320	8920.332
429.	64.2960	8920.758
430.	64.3520	8921.027
431.	64.4320	8921.137
432.	64.4880	8921.027
433.	64.5520	8921.736
434.	64.6320	8922.083
435.	64.6960	8922.556
436.	64.7600	8922.698
437.	64.8320	8922.887
438.	64.8960	8923.360
439.	64.9760	8923.786
440.	65.0320	8923.786
441.	65.1120	8923.407
442.	65.1760	8923.407
443.	65.2560	8924.117
444.	65.3280	8924.590
445.	65.3920	8925.063
446.	65.4720	8925.678
447.	65.5360	8925.868
448.	65.6160	8926.199
449.	65.6960	8926.435
450.	65.7680	8927.050

Data Point	Time Hours	Pressure psia
451.	65.8400	8927.145
452.	65.9280	8927.476
453.	66.0000	8927.334
454.	66.0800	8927.902
455.	66.1520	8928.423
456.	66.2320	8928.801
457.	66.2960	8928.990
458.	66.3920	8929.937
459.	66.4720	8930.836
460.	66.5520	8930.189
461.	66.6320	8929.984
462.	66.7120	8930.709
463.	66.8000	8931.167
464.	66.8720	8931.514
465.	66.9600	8931.593
466.	67.0480	8931.750
467.	67.1280	8932.129
468.	67.2150	8932.350
469.	67.2880	8932.634
470.	67.3760	8932.555
471.	67.4720	8932.744
472.	67.5520	8933.170
473.	67.6400	8933.312
474.	67.7280	8935.078

LOG-LOG PLOT

File.....: 75109A.OIL
 Analyst name.....: R. Weir
 Company.....: Petrofina Exploration Australia SA
 Well.....: Anesone # 1a
 Field.....: Wildcat
 Date.....: 06/10/89-12/10/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST #2
 Slope.....: 1.000
 Intercept.....: 4.452
 C(Storage)....: 7.357E-05
 CO(Storage)...: 5.802



E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 75189A.OIL

Test type: CRB

Date: 15/10/89 Time: 11:21

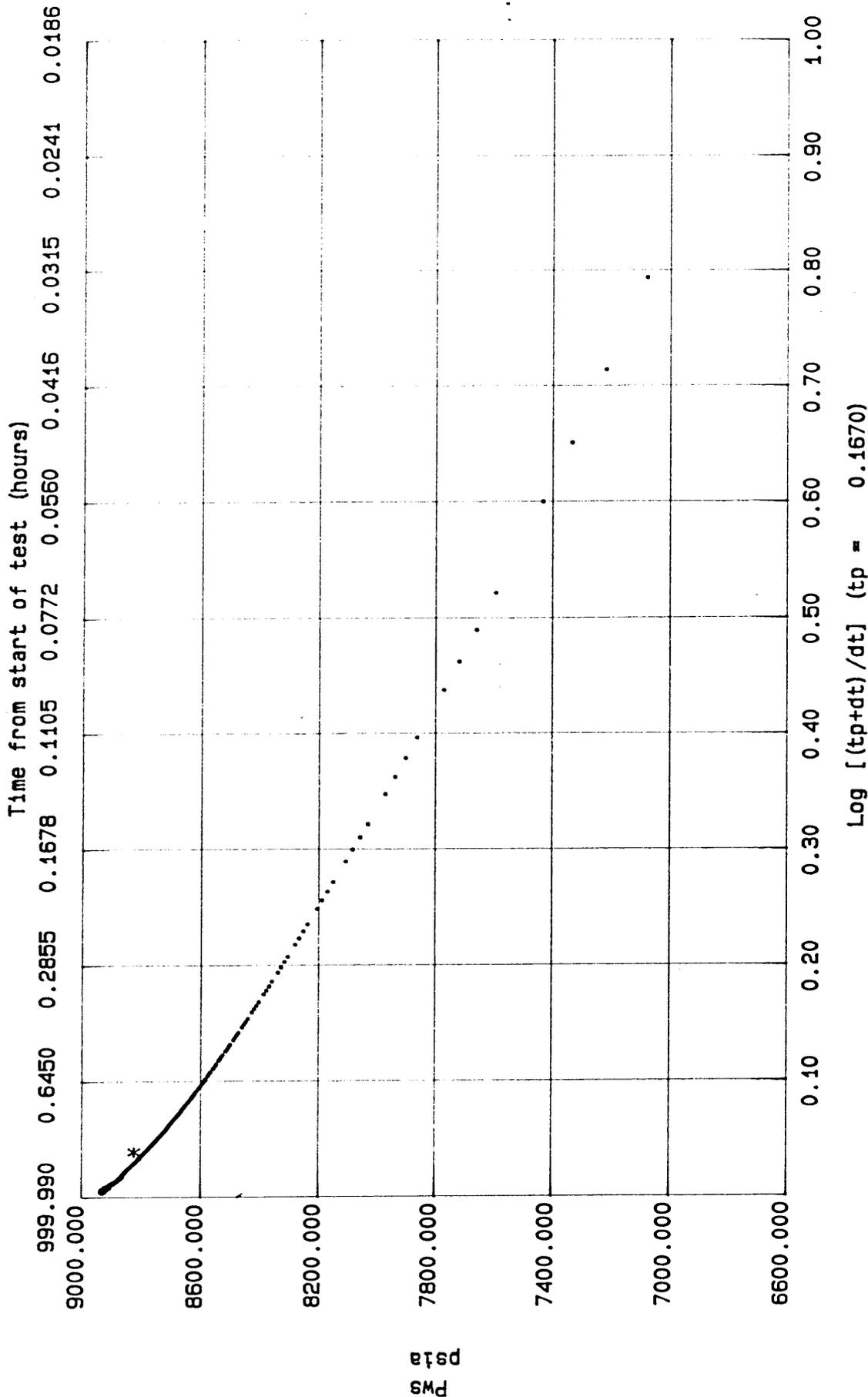
RESULTS FROM LOG-LOG ANALYSIS

Line :

Intercept.....:	4.442
Slope.....:	1.000
Wellbore storage coefficient (C).....:	7.525E-05 bbl/psi
Dim. wellbore storage constant (Cd).....:	11.332

HORNEH PLOT

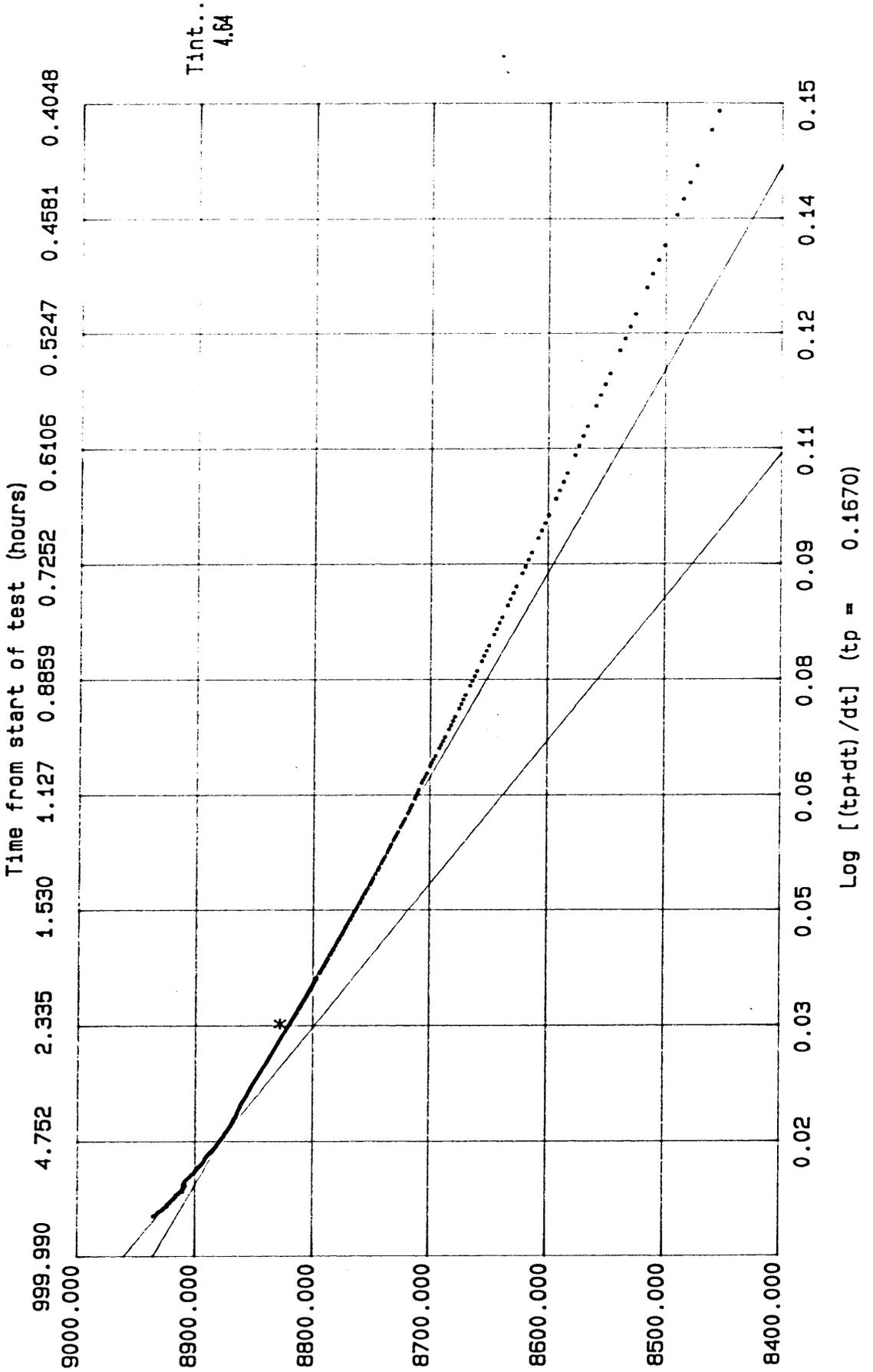
File.....: 75189A.01L
 Analyst name.....: R. Weir
 Company.....: Petrofina Exploration Australia SA
 Well.....: Anemone # 1a
 Field.....: Wildcat
 Date.....: 06/10/89-12/10/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST #2



HORNER PLOT

Line 1 Line 2

File.....: 75189A.011
 Analyst name.....: R.Meir
 Company.....: Petrofina Exploration Australia SA
 Well.....: Anemone # 1a
 Field.....: Mildcat
 Date.....: 06/10/89-12/10/89
 Rig Name/Number.....: Zapata Arctic
 Test.....: DST #2
 Slope.....: -3771.963 -5366.497
 Intercept.....: 8935.487 8959.983
 Permeability.: 0.0156 0.0110
 Skin.....: -0.9947 -1.057



E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 75189A.OIL

Date: 15/10/89 Time: 10:40

Test type: CRB

RESULTS FROM HORNER ANALYSIS
using Real time

First Line :

Intercept.....:	8935.487	
Slope.....:	-3771.963	
Start of line.....:(	0.0248 ,	8841.421)
End of line.....:(	0.0184 ,	8865.036)
Coefficient of determination.....:	0.9977	
Number of points.....:	48	
Pressure at dt = 1 hour.....:	8682.543	psia
Extrapolated pressure.....:	8935.487	psia
Permeability-thickness (kh).....:	0.5110	md.ft
Effective permeability to oil (Ko).....:	0.0156	md
Total skin factor (S).....:	-0.9947	
dP skin (constant rate).....:	-3258.458	psi
Radius of investigation.....:	2.927	ft

E.P.D.S. Ltd.

PANSYSTEM ANALYSIS PROGRAM

File: 75189A.OIL

Date: 15/10/89 Time: 10:40

Test type: CRD

RESULTS FROM HORNER ANALYSIS
using Real time

Second Line :

Intercept.....:	8959.983	
Slope.....:	-5366.497	
Start of line.....:(	0.0171	8869.024)
End of line.....:(	5.376E-03	8935.079)
Coefficient of determination.....:	0.9952	
Number of points.....:	179	
Pressure at dt = 1 hour.....:	8600.112	psia
Extrapolated pressure.....:	8959.983	psia
Permeability-thickness (kh).....:	0.3592	md.ft
Effective permeability to oil (Ko).....:	0.0110	md
Total skin factor (S).....:	-1.057	
dP skin (constant rate).....:	-4925.407	psi
Radius of investigation.....:	2.454	ft

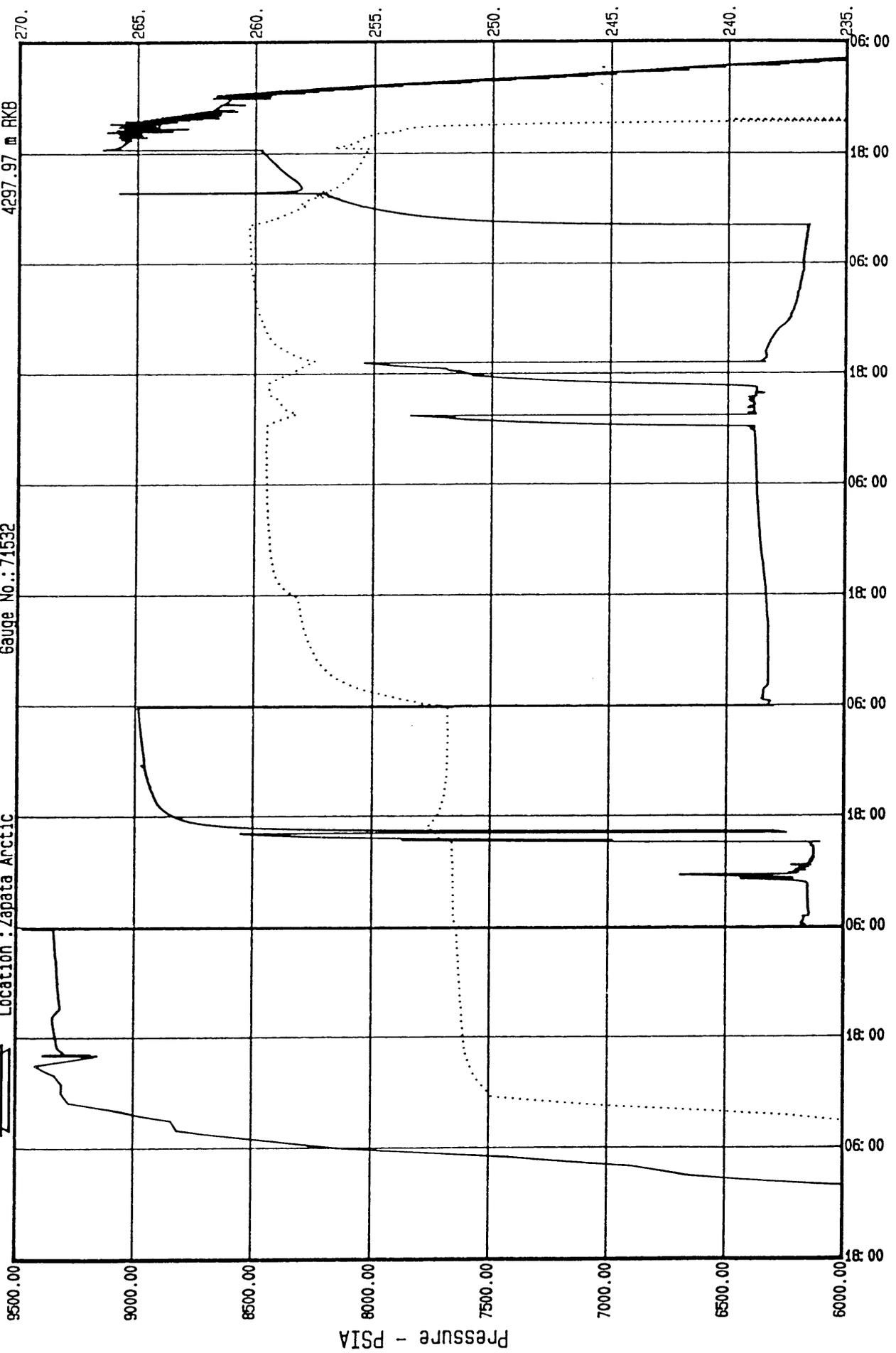


EXAL RESERVOIR
SERVICES LTD.

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 2
Location : Zapata Arctic

Engineer : R. Weir
Date : 05/10/89
Recorder : Memory Gauge
Gauge No. : 71532

Comments : Sensor Depth
4297.97 m RKB



Real Time (12.00 hours per division)

Report# 10.35

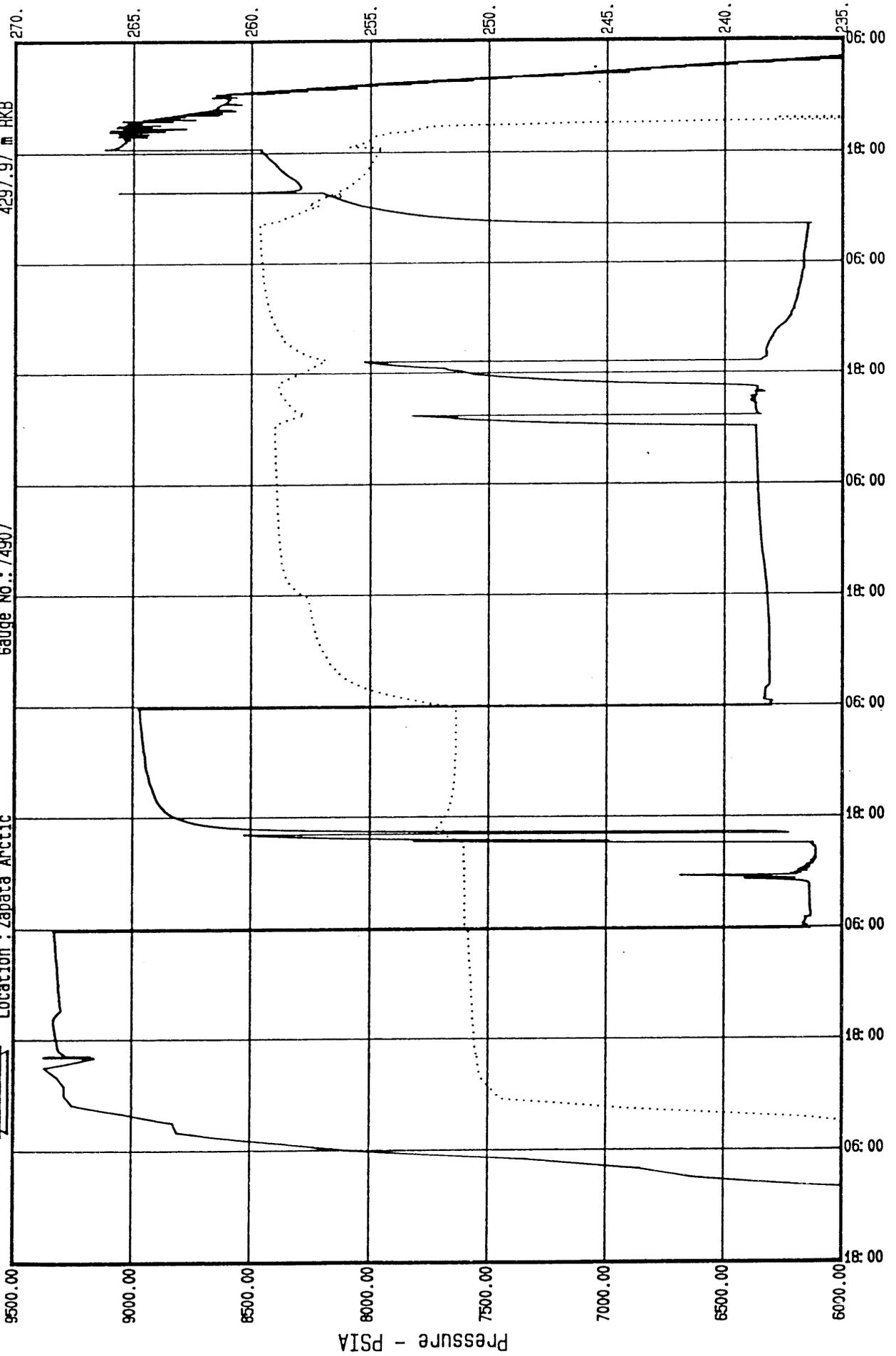


**EXAL RESERVOIR
SERVICES LTD.**

Customer : Petrofina Australia
Well No. : Anemone # 1A
Test No. : DST # 2
Location : Zapata Arctic

L. Weir : R. Weir
Date : 06/10/89
Recorder : Memory Gauge
Gauge No. : 74907

Comments : Sensor Depth
4297.97 m RKB



Real Time (12.00 hours per division)

Report# 10.35

EXAL

RESERVOIR SERVICES



GAUGE COMPARISON

Client : Petrofina Exploration Australia S.A. Client Engineer : D. Sousa
 Field : Wildcat Well : Anemone # 1A Test : DST # 2
 Date : 6th- 12th October 1989 Job No. : AB 256
 Perforations : 4536.3-4546.3 m RKB

Gauge No.	75188	72121	71532	74907
Sensing point (m mdrkb).	4266.50	4266.50	4297.97	4297.97
Maximum Temperature (degF).	257.0	256.5	260.3	259.7

Date	Event/End of	Time	Pressure		Pressure	
			psia	psia	psia	psia
<u>08/10/89</u>						
	Initial Hydrostatic	08:00	6088.5	6087.9	6119.1	6134.6
	Prior to 10 minute flow	16:05	8485.9	8478.3	8518.6	8527.7
	Final flowing pressure	16:16	6239.0	6237.1	6330.1	6285.8
<u>09/10/89</u>						
	Final Buildup pressure	05:43	8935.2	8929.3	8990.2	8971.0
<u>11/10/89</u>						
	End of Main Drawdown	10:04	6121.9	6121.0	6159.7	6144.1
	End of Main Buildup	18:17	8437.3	8433.7	8476.2	8461.3