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NUMBER 4667

PPL 17

COOPER AND EROMANGA BASINS

MERRIMELIA 10

TEST REPORTS

Submitted by

**Delhi Petroleum Pty Ltd
1986**

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MINES AND ENERGY
SOUTH AUSTRALIA



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ENVELOPE 4667

TENEMENT: PPL 17; Eromanga and Cooper Basins

TENEMENT HOLDER: Delhi Petroleum Pty Ltd (operator), Alliance Oil Development NL, Santos Ltd, Vamgas Ltd and South Australian Oil and Gas Corp. Pty Ltd

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			MESA NO.	
REPORTS:	Driedric, G., 1983. Field maintenance contractor's results of the pre-production flowing bottomhole pressure, 44 hour reservoir pressure buildup and static wellbore pressure gradient surveys of the Hutton Sandstone oil reservoir perforated interval 6125-6148 feet depth KB, conducted over the period 30/5 - 1/6/83 (G.R. Martin and Associates Pty Ltd).		4667 R 1 Pgs 3-15	
	Coment Computer Enterprises Ltd, 1983. Contractor's well log analysis report (5/10/83).		4667 R 2 Pgs 16-36	
PLAN		Scale		
Encl.	Computerised log interpretation [plot].	1:240	4667-1	A1
REPORT:	Glancaspro, G. and Bowyer, P., 1986. Field maintenance contractor's results of the flowing bottomhole pressure, 48 hour reservoir pressure buildup and static wellbore pressure gradient surveys of the Hutton Sandstone producing zone, conducted over the period 6-10/9/86 (Expertest Pty Ltd).		4667 R 3 Pgs 37-48	
PLAN		Scale		
Encl.	Mudlog.	1:240	4667-2 +T	>A0

END OF CONTENTS

SEPARATELY HELD DATA

TRANSPARENCIES: (Held in Document Storage Centre)

Plans marked with +T on contents page are also held as transparencies in Cylinder 4961/1.

30th May to 1st June 1983(well shut-in at 0745 hrs to rig-up)30th May

958 - On SSOR #81069.

015 - SSOR & Amerada in lubricator

016 - Open master valve WHP - 829 psig

046 - RIH with gauges WHP - 829 psig

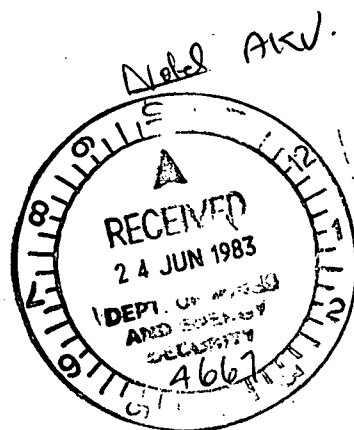
117 - Amerada (bottom) @ 6100' KB.

400 - Well opened & Test Separator on a 10/64" choke

Production Data from test:- 245 BOPD. Actual
 - 600 - - - Potential
 BSW 0.854%. (+ water).

417 - Boom for gradient stops.

June	Depth	Time
426	@ 6000'	15 mins
446	@ 5900'	---
502	@ 5800'	---
518	@ 5700'	---
535	@ 5600'	---
556	@ 4600'	---
616	@ 3600'	---
636	@ 2600'	---
655	@ 1600'	---
715	@ 600'	---
735	- in lubricator - WHP - 849 psig	
745	- Depressurised lubricator -	

End Survey

Date:- 30th May to 1st June Well #10. Merrimack
'83
Flowing & Bu. Survey

LINEAR PLOT

Erroneous pressure data
stored on EPROM.



TEMPERATURE DEG F

325
300
275
250
225
200
175
150
125
100
75

0000004

TIME MINUTES

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

WILLIAMS REPORT

000005

WELL.....

DATE 30.5.55

PROGRAM.....

PURPOSE OF WORK check joining force observations

21. 100% 100%

REPORT OF WORK PERFORMED PIG UP 3' BATH WITH 175 B.B.

RIG UP & RUN WITH 1.75 B/B
P-V @ 72.76 (PSTD 72.73)


Operator's Signature

Operator's Signature

WORKED PERFORMED BY G. DZIEDZIC OF _____

WELL DATA:

Tubing Size 2 7/8 FWHP _____ SIWHP _____

Subsurface S.V./Landing Nipple @ _____ S.S.D. @ _____

'X' Nipple @ _____ 'N'/'XN' Nipple @ 60-6 Other _____ @ _____

Min. I.D. _____ @ _____ Packer @ 6092

Perforated Interval: 6125 - 6148

000007

G.R. Martin & Associates Pty.Ltd.
 SURFACE LINE & WELL TESTING SERVICES

** MERRIMELIA #10 (HUTTON) **

STATIC PRESSURE GRADIENT

TEST DATE: 30th May 1983

TOP PRESSURE ELEMENT 21599/3300				BOTTOM PRESSURE ELEMENT		
DEPTH (FT.)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)
LUB	~~1.6420~~	~~2697.0~~	----			----
6000	1.5960	2669.9	0.2705			
5900	1.5790	2641.2	0.2874			
5800	1.5610	2610.7	0.3042			
5700	1.5440	2582.0	0.2872			
5600	1.5270	2553.3	0.2872			
4600	1.3510	2256.3	0.2970			
3600	1.1740	1958.3	0.2980			
2600	0.9940	1656.0	0.3023			
1600	0.8110	1349.4	0.3066			
600	0.6240	1036.8	0.3125			
LUB	~~0.6500~~	~~67.5~~	----			----

Element 21599/3300 calibrated.

Element calibrated

st was run on decreasing depths.

LUBRICATOR PRESSURE SUMMARY

<u>TYPE OF MEASUREMENT</u>	<u>ON ENTRY</u>	<u>ON EXIT</u>
Deadweight Tester	830	849
Element 21599/3300	2697.0	0.5
Element	0.9	0.9

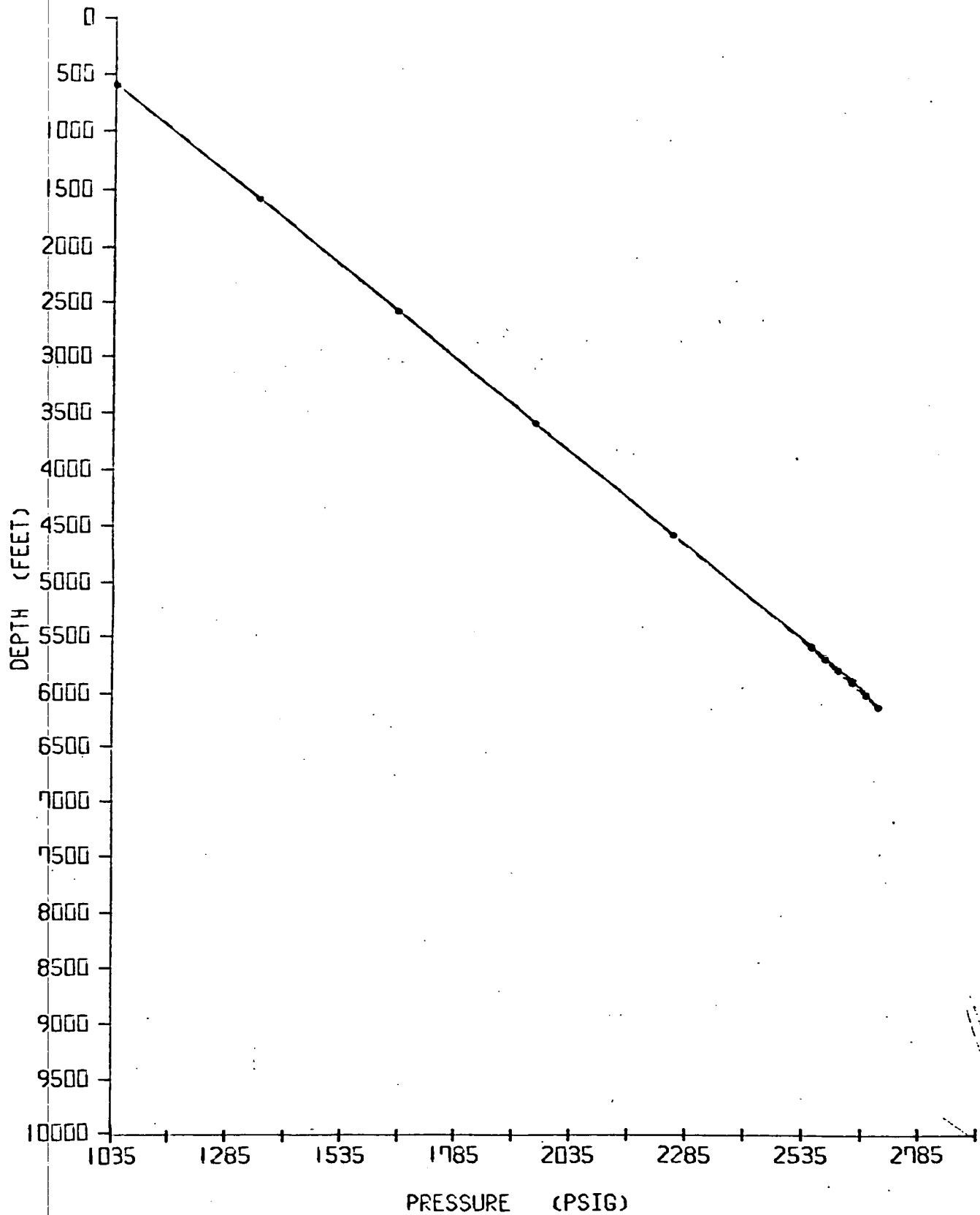
PLANNED DATA COLLECTION
STATIC PRESSURE GRADIENT

000008

30/5/83

LEGEND: 21599/3300 - - - - -

21599/3300 - - - - -





Client: DEMI PETROLEUM

Field : MARSHENA

Well : W-10 HUSCO

WELL TESTING DATA SHEET

Page: ONE

TIME	PRESSURE AND TEMPERATURE MEASUREMENTS							PROD. RATES AND FLUID PROPERTIES					GOR				
	BOTTOM HOLE		WELL HEAD			SEPARATOR		OIL OR CONDENSATE			GAS						
	Cumul.	Temp.	Pressure	Tg. temp.	Tg. press.	Cg. press.	Temp.	Press.	Rate	Gravity	BSW	Rate					Gravity
				80	832	0.2											
				84	831	0.											Flow well
				87	745	0											
				88	745	0											
				86	732	0											
				86	736	0											
				86	749	0											
				86	750	0											
				86	746	0											
				37	754	0											
				37	754	0											SWI
					806	0											
					809												
					814												
					816												
					817												

Flow rate

SWI

LIQUID FLOW RATE MEASURING CONDITIONS:

RESULTS GIVEN ARE THOSE USING METER MEASUREMENTS.

TESTED INTERVAL

DEPTH REFERENCE

DEPTH OF B.H. MEASUREMENTS

600000

Field : MORIMELIA
Well : " 10 "

Page: 7080[illegible]

RESULTS GIVEN ARE THOSE USING METER MEASUREMENTS.

DEPTH OF B.H. MEASUREMENTS

000010

OPERATOR

000011

SURVEY

DATE

TOP BOMB REC. No. CLOCK DATA

MID BOMB REC. No. CLOCK DATA

BTM BOMB REC. No. CLOCK DATA

ENG. STYLUS DISENGAGE STYLUS

DWT IN DWTOUT MBHT

Date	Time	Cum. Time	Depth	Top		Mid		Bot		Remarks
				Def.	PSI	Def.	PSI	Def.	PSI	
30.5	1015		605					500	8550	
	1045									
	1116		6100					1.612	2657	
	1400	042						1.581	2658	FLOW WELL
		1/2						1.612	2657	
		1						"	"	
		1 1/2						1.581	2655	
		2						"	"	
		2 1/2						"	"	
		3						"	"	
		3 1/2						1.581	2658	
		4						1.588	2656	
		4 1/2						"	"	
		SMID						1.609	2692	START BLOW
		10						1.611	2695	
		15						1.611	"	
		1/2 HR						"	"	
		1						"	"	
		2						"	"	
		4						"	"	
		8						"	"	
		12						1.610	2694	
		16						"	"	
		20						"	"	
		24						1.609	2692	
		28						"	"	
		32						1.610	2694	
		36						"	"	
		40						1.611	2695	
		44						1.612	2697	

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

Well #10 Meremalia

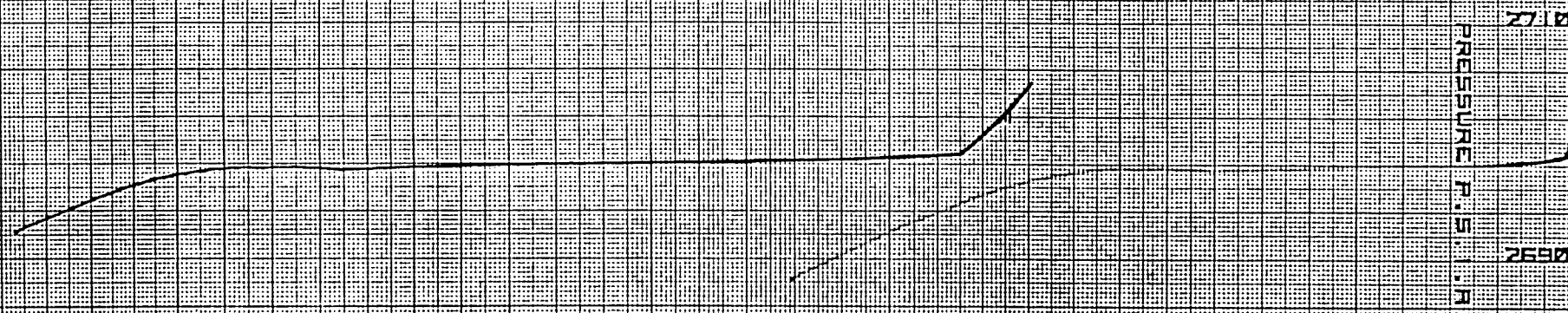
2730

MORNER PLOT

FINAL Build-Up

RED FLOW TIME USED 26 hrs (+ 3 months)

BLUE Actual flow time for Pressure Survey 4 hrs 29 mins



Well Shut in @ B-30 hrs on 30th May 83

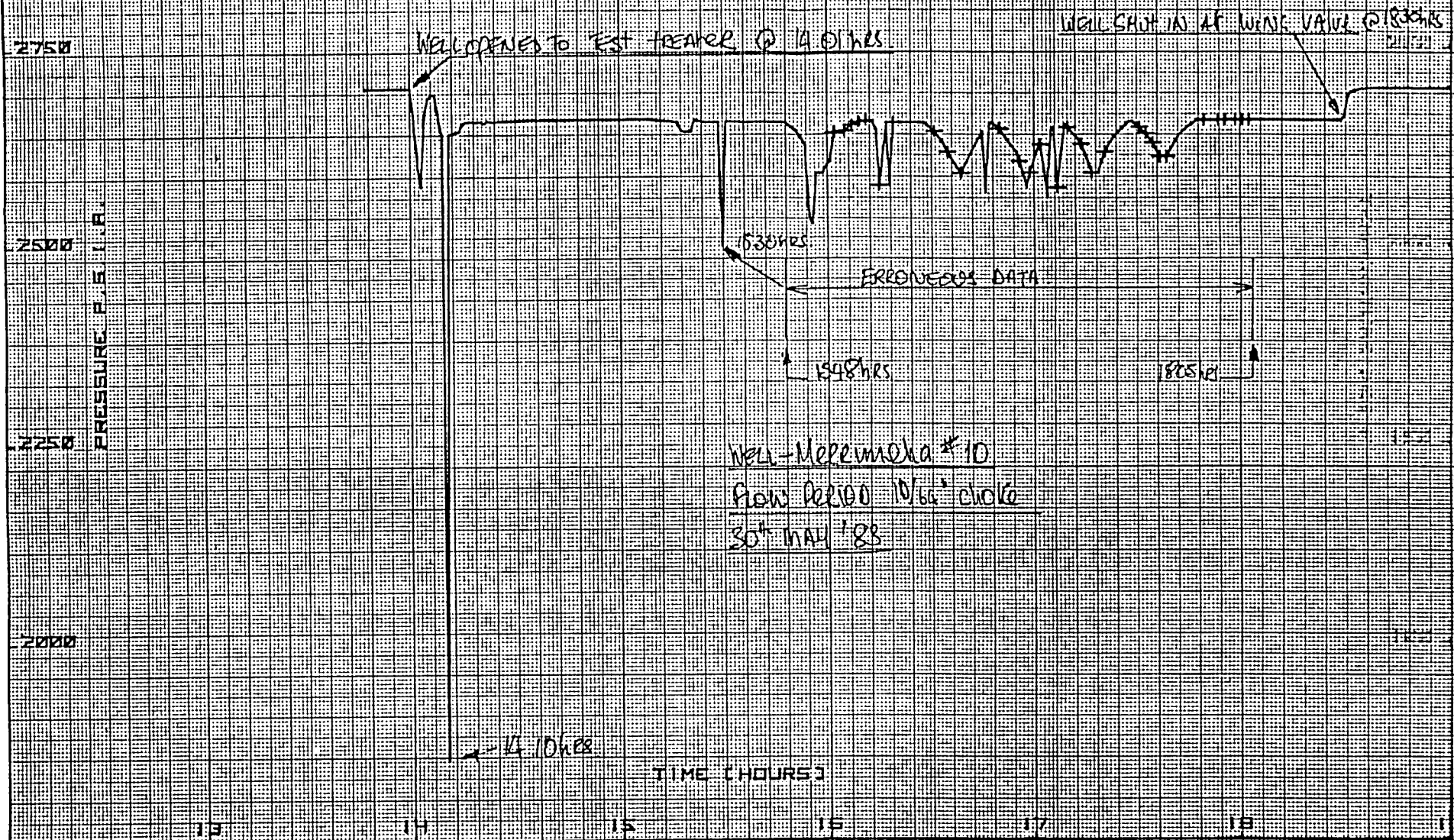
2670

LOG t + DELTA t
DELTA t

2650

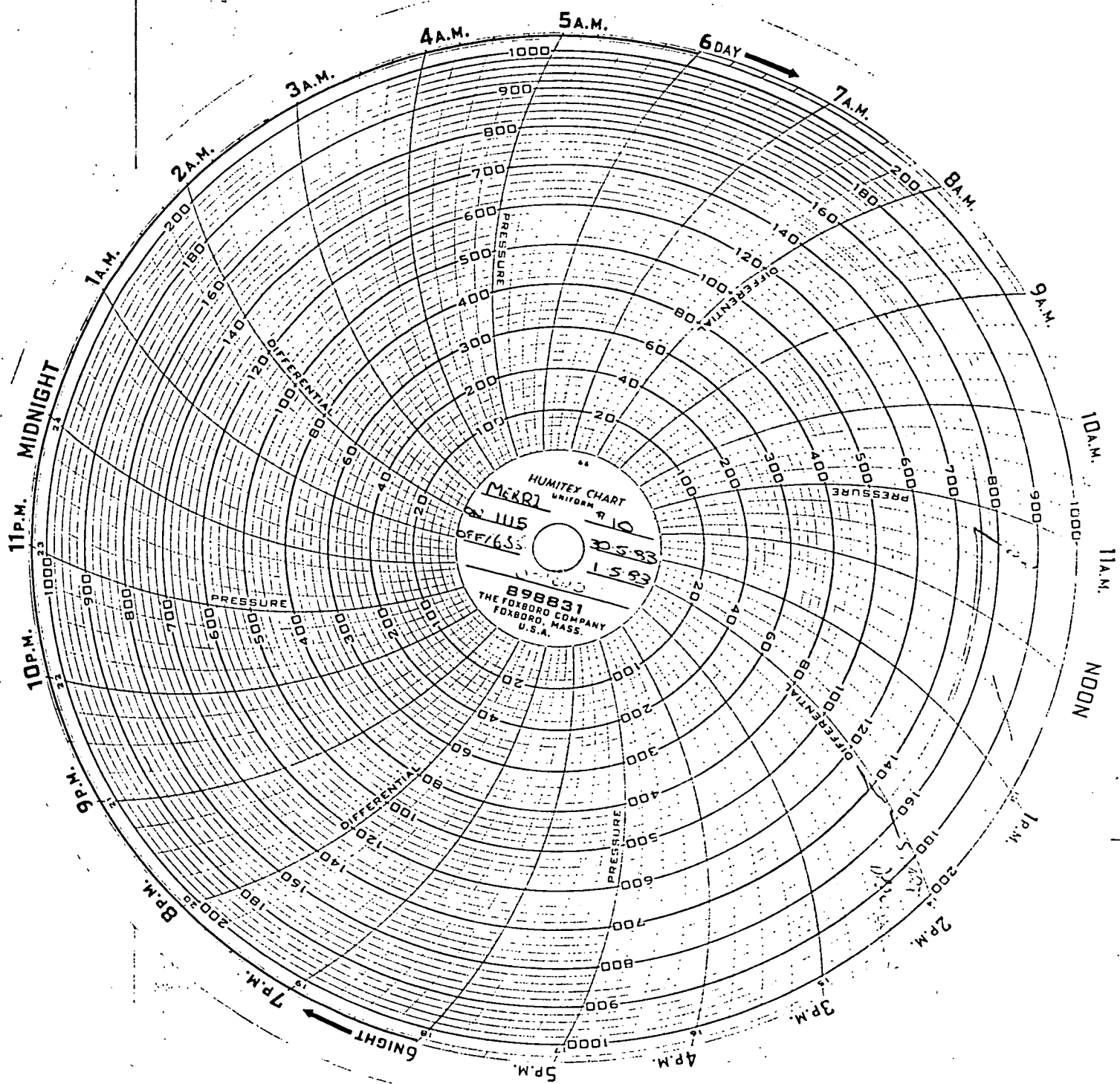
000012

LINEAR PLOT

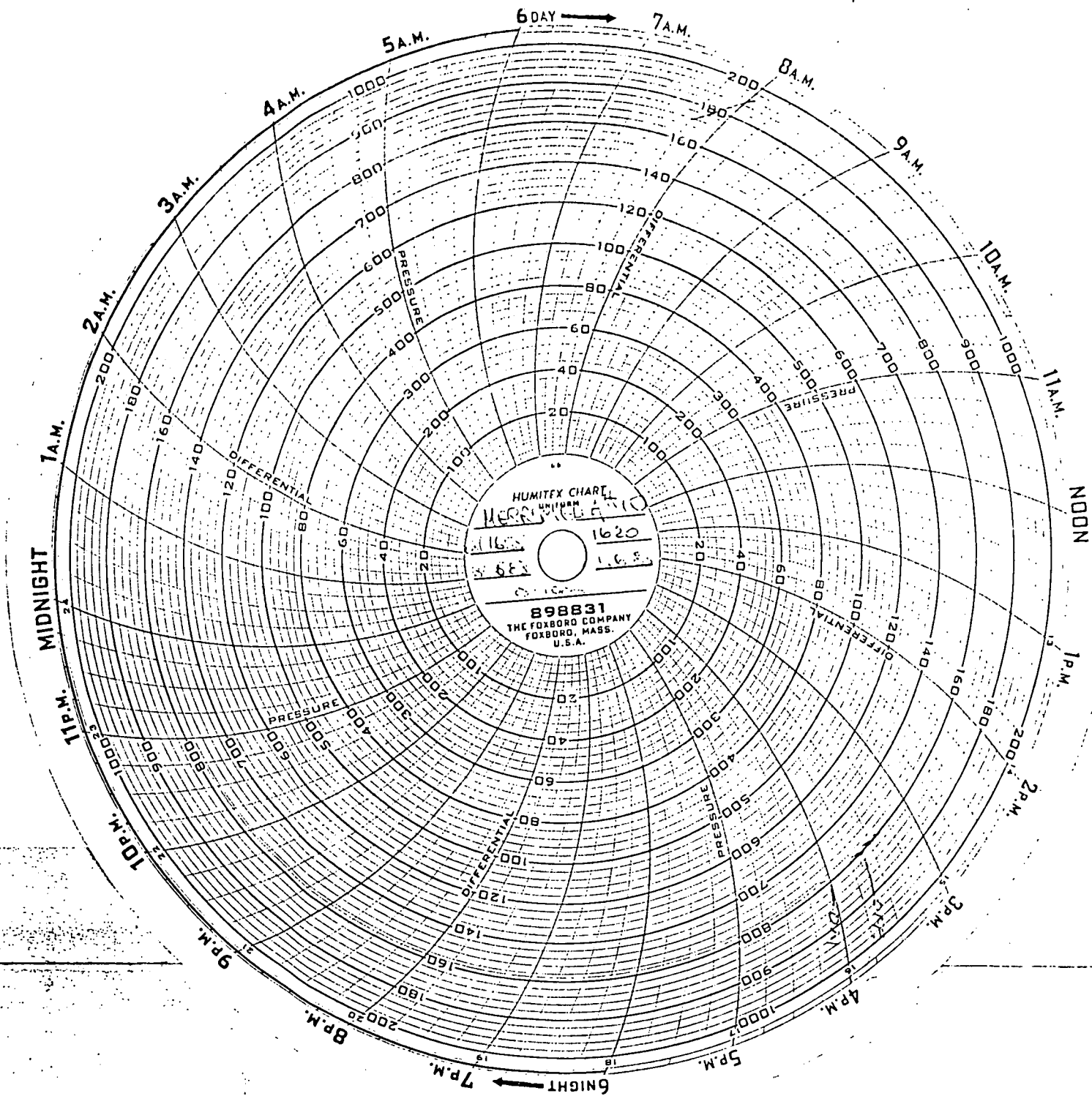


000013

000014



000015.



000016

Coment
Computer
Enterprises Ltd.

1020-444 5th Ave. S.W.,
Calgary, Alberta,
T2P 2T8
Bus. 261-5012

05/10/83

LOG ANALYSIS REPORT
FOR

MERRIMELIA #10
27-44-31.0S/140-11-04.8E

EW. 4667

SCANNED

Coment Ltd.

LOG ANALYSIS Parameters

General Log Analysis program (CARBAN)

Explanation of the parameter names and their values.

A - Formation Factor Coefficient

M - Formation Factor Cementation Exponent

N - Saturation exponent in formation factor equation.

R_w - Formation water resistivity at formation temperature (TEMP)

TEMP - Formation temperature at Top of analysis interval. This value and R_w are corrected for depth using the formation temperature gradient (GRAD).

GRAD - The geothermal gradient in degrees per 100 feet (Imperial) or degrees per meter (S. I.)

GMAX - The Maximum Gamma ray. The gamma ray reading at the point where all of the rock is considered to be shale.

GMIN - The Minimum Gamma ray. This value is biased upwards from the 'minimum' to include all 'clean' carbonate rocks. That is all points below this value are considered clean.

R_{sh} - The resistivity of the shales, using the deep resistivity log.

Corr C G I - Log Correction codes: (1 = used, 2 = not used)

C - Caliper correction. Bore hole effects on the density and gamma-ray logs are corrected.

G - Gas corrections. This allows for correction of gas effect on the neutron and density logs.

I - Invasion correction applied to the Deep resistivity.

PTYP - Porosity type used in the analysis:

1=Acoustic log

2=Neutron log

3=Density log

4=Neutron/density cross-plot

5=Acoustic/neutron cross-plot

6=M*N Porosity

7=Core porosity

MAT - Matrix value used in single log porosity calculation.

FLD - Fluid value used in single log porosity calculation. (Ptyp 1 to 3)

RhoS - Shale density.

PhiS - Neutron Shale porosity

DTSH - Acoustic transit time of Shale

LOG ANALYSIS Parameters

Sandstone Analysis Program (SANDAN)

Explanation of the parameter names and their values.

A - Formation Factor Coefficient

M - Formation Factor Cementation Exponent

N - Saturation exponent in formation factor equation.

R_w - Formation water resistivity at formation temperature (TEMP)

TEMP - Formation temperature at Top of analysis interval. This value and R_w are corrected for depth using the formation temperature gradient (GRAD).

GRAD - The geothermal gradient in degrees/ 100 feet (Imperial) or degrees/ metre (S.I.)

GMAX - The Maximum Gamma Ray. The gamma ray reading at the point where the lithology changes from grain supported to mud supported rock (The shale boundary)

GMIN - The Minimum Gamma Ray. The lowest gamma ray in a clean sand section. May also be projected from cross-plots.

R_{sh} - The resistivity of the shales, using the deep resistivity log.

Corr C C I - Log Correction codes: (1 = used, 2 = not used)

C - Caliper correction. Bore hole effects on the density and gamma-ray logs are corrected.

G - Gas correction. Corrections applied to the neutron and density logs for gas effects and rough hole effects.

1=Prime log is Neutron

2=Prime log is density

3=No gas corrections.

I - Invasion Corrections applied to the Deep resistivity.

RhoG - Grain Density

RhoS - Shale Density (derived from the cross-plots)

PhiS - Neutron shale porosity (derived from the cross-plots)

PhiC - Neutron clay porosity (usually 24 but may be changed)

Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

Page 1

Zone Name = UPPER NAPPMR Top = 6920.00 Base = 6973.00 Date = 26/10/83

Caliper Cutoff = ***** Permeability Cutoff = 0.00
Gross Shale Cutoff = 50.00 Shale Cutoff = 50.00

Porosity*Sw cutoff = 0.0 Porosity cutoff = 10.0 Saturation cutoff = 65.0

Gross Thickness = 3.50 Sand Thickness = 3.50 Sand > por. Cutoff = 3.50

Average Porosity = 0.00 Average water saturation = 0.00 Net thickness = 0.00

000019

Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

Page 2

Zone Name = MID. NAPPMR Top = 6973.00 Base = 7102.00 Date = 26/10/83

Caliper Cutoff = ***** Permeability Cutoff = 0.00
Gross Shale Cutoff = 50.00 Shale Cutoff = 50.00

Porosity*Sw cutoff = 0.0 Porosity cutoff = 10.0 Saturation cutoff = 65.0

Gross Thickness = 31.50 Sand Thickness = 31.50 Sand > por. Cutoff = 25.00

Average Porosity = 14.22 Average water saturation = 42.10 Net thickness = 21.50

000020

Well name = MERRIMELIA #10

Location = 27-44-31.05/140-11-04.8E

Page 3

Zone Name = LWR. NAPPMR Top = 7102.00 Base = 7200.00 Date = 26/10/83

Caliper Cutoff = ***** Permeability Cutoff = 0.00
Gross Shale Cutoff = 50.00 Shale Cutoff = 50.00

Porosity*Sw cutoff = 0.0 Porosity cutoff = 10.0 Saturation cutoff = 65.0

Gross Thickness = 21.00 Sand Thickness = 21.00 Sand > por. Cutoff = 17.00

Average Porosity = 13.66 Average water saturation = 40.89 Net thickness = 17.00

000021

Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

Page No 1

Porosity cutoff = 10.0 Saturation cutoff = 65.0 Caliper cutoff = bit size +***** Shale Cutoff = 50.0
Permeability cutoff = 0.000
TOP BASE A M N RW TEMP GRAD GMAX GMIN RSH COR C G I RHOG RHOS PHIS PHIC
6850.00 6970.00 1.00 2.00 2.00 0.620 211.0 1.910 144.00 28.00 18.00 2 1 2 2.650 2.720 14.0 24.0
Porosity derived from Neutron/Density Cross-Plot
6970.00 7200.00 1.00 2.00 2.00 0.210 213.0 1.910 136.00 48.00 20.00 2 1 2 2.650 2.710 12.0 24.0
Porosity derived from Neutron/Density Cross-Plot

000022

Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

Page No 2

DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6850.00	75.38	41.19	34.43	16.63	14.71	26.85	394.92			
6850.50	63.33	34.60	27.84	16.38	14.76	31.50	464.97			
6851.00	45.92	25.09	22.54	16.38	15.20	37.71	573.32	0.08	0.05	0.50
6851.50	49.78	27.20	22.88	16.02	14.75	35.50	523.78	0.15	0.09	1.00
6852.00	51.00	27.87	18.22	15.34	14.04	37.14	521.36			
6852.50	44.31	24.21	10.82	14.22	13.09	44.70	585.17	0.22	0.13	1.50
6853.00	30.30	16.56	3.05	12.90	12.12	57.26	694.15	0.28	0.16	2.00
6853.50	22.65	12.37	1.17	12.19	11.61	65.75	763.41			
6854.00	17.67	9.65	0.63	11.83	11.38	71.45	813.17			
6854.50	19.44	10.62	0.70	12.01	11.52	70.86	816.20			
6855.00	35.22	19.25	1.48	13.34	12.44	65.69	816.98			
6855.50	39.10	21.37	2.07	14.37	13.37	64.70	865.01	0.34	0.18	2.50
6856.00	27.62	15.09	0.88	14.32	13.61	74.24	1010.62			
6856.50	41.27	22.55	0.38	11.27	10.22	73.08	746.77			
6857.00	47.28	25.83	0.61	10.38	9.17	64.34	590.24			
6857.50	58.29	31.85	0.71	8.74	7.26	54.55	395.96			
6858.00	68.66	37.52	0.63	7.20	5.45	45.86	250.08			
6858.50	56.38	30.81	19.19	15.09	13.65	34.21	467.04			
6859.00	60.56	33.09	17.98	14.45	12.91	31.96	412.65			
6859.50	47.88	26.16	12.02	12.46	11.24	40.36	453.80	0.40	0.21	3.00
6860.00	41.86	22.87	4.02	10.89	9.83	47.08	462.53			
6860.50	31.81	17.38	2.95	11.98	11.16	54.74	611.14	0.45	0.24	3.50
6861.00	27.28	14.91	1.23	13.52	12.82	68.70	880.75			
6861.50	42.83	23.40	1.97	14.38	13.29	65.03	864.28			
6862.00	49.00	26.77	1.36	14.67	13.42	69.26	929.69			
6862.50	40.21	21.97	0.55	15.42	14.40	81.04	1166.76			
6863.00	25.08	13.70	0.18	16.00	15.37	95.20	1462.84			
6863.50	15.42	8.43	0.12	16.18	15.78	100.00	1578.40			
6864.00	6.44	3.52	0.13	16.42	16.26	100.00	1626.06			
6864.50	0.00	0.00	0.16	17.22	17.22	100.00	1722.27			
6865.00	0.00	0.00	0.53	17.98	17.98	89.20	1604.03			
6865.50	4.61	2.52	1.22	17.57	17.45	79.54	1388.19			
6866.00	25.43	13.90	11.87	17.99	17.34	56.62	981.66	0.54	0.28	4.00
6866.50	39.47	21.57	30.16	18.57	17.56	41.03	720.52	0.63	0.33	4.50
6867.00	15.94	8.71	3.48	14.75	14.34	61.75	885.57	0.70	0.36	5.00
6867.50	37.82	20.66	20.85	17.19	16.23	43.11	699.59	0.78	0.40	5.50
6868.00	31.05	16.97	10.39	15.47	14.68	51.52	756.04	0.86	0.44	6.00
6868.50	19.70	10.76	1.90	13.62	13.11	64.96	851.97	0.92	0.46	6.50
6869.00	13.44	7.35	4.13	15.40	15.06	61.67	928.82	1.00	0.49	7.00
6869.50	19.27	10.53	3.81	14.54	14.05	60.08	843.98	1.07	0.52	7.50
6870.00	25.09	13.71	2.69	13.67	13.03	61.09	796.31	1.13	0.54	8.00
6870.50	28.59	15.62	1.94	13.15	12.43	62.82	780.62	1.19	0.57	8.50
6871.00	23.80	13.01	1.66	13.87	13.26	66.74	884.88			
6871.50	13.75	7.51	1.82	15.36	15.01	70.09	1051.93			
6872.00	9.74	5.32	2.11	15.95	15.70	70.14	1101.55			
6872.50	11.78	6.44	2.77	15.65	15.35	66.49	1020.69			
6873.00	20.17	11.02	2.65	14.41	13.89	63.47	881.58	1.26	0.59	9.00
6873.50	26.06	14.24	1.46	13.53	12.86	67.02	862.19			
6874.00	29.35	16.03	0.36	13.04	12.29	79.97	983.11			
6874.50	21.67	11.84	0.12	14.18	13.63	94.84	1292.68			

000023

Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

Page No 3

DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6875.00	12.97	7.09	1.60	20.12	19.79	81.04	1603.77			
6875.50	9.09	4.97	0.28	17.96	17.72	95.44	1691.57			
6876.00	11.57	6.32	0.11	15.68	15.39	100.00	1538.65			
6876.50	15.81	8.64	0.09	15.05	14.65	100.00	1464.86			
6877.00	19.72	10.77	0.10	14.47	13.97	97.91	1367.72			
6877.50	21.94	11.99	0.09	14.14	13.58	98.19	1333.72			
6878.00	19.58	10.70	0.09	14.49	13.99	99.37	1390.51			
6878.50	12.45	6.81	0.11	15.55	15.23	100.00	1523.27			
6879.00	1.75	0.96	0.16	17.14	17.10	100.00	1709.51			
6879.50	0.00	0.00	0.20	17.87	17.87	99.01	1769.53			
6880.00	0.00	0.00	0.16	17.15	17.15	100.00	1714.65			
6880.50	0.00	0.00	0.32	18.51	18.51	95.66	1770.92			
6881.00	0.00	0.00	0.33	18.58	18.58	95.36	1771.62			
6881.50	0.00	0.00	0.31	18.64	18.64	95.92	1788.44			
6882.00	0.00	0.00	0.28	18.71	18.71	97.16	1817.56			
6882.50	0.00	0.00	0.23	18.76	18.76	99.48	1865.81			
6883.00	0.00	0.00	0.22	18.81	18.81	100.00	1880.56			
6883.50	0.00	0.00	0.22	18.85	18.85	100.00	1885.49			
6884.00	0.00	0.00	0.22	18.83	18.83	100.00	1882.83			
6884.50	0.00	0.00	0.22	18.79	18.79	100.00	1878.68			
6885.00	0.00	0.00	0.21	18.69	18.69	100.00	1869.24			
6885.50	0.00	0.00	0.20	18.40	18.40	100.00	1839.83			
6886.00	5.63	3.08	0.13	16.08	15.94	100.00	1594.00			
6886.50	21.77	11.89	0.86	15.51	14.95	77.74	1162.21			
6887.00	35.72	19.52	4.67	14.82	13.91	57.61	801.24	1.33	0.62	9.50
6887.50	39.08	21.36	7.39	14.47	13.48	51.74	697.29	1.40	0.65	10.00
6888.00	34.54	18.87	6.28	14.22	13.34	53.06	707.66	1.47	0.68	10.50
6888.50	31.53	17.23	5.67	13.93	13.13	53.59	703.50	1.53	0.72	11.00
6889.00	29.73	16.24	5.15	13.56	12.81	53.73	688.07	1.60	0.75	11.50
6889.50	29.76	16.26	5.01	13.21	12.45	53.04	660.66	1.66	0.77	12.00
6890.00	29.65	16.20	4.88	12.93	12.18	52.53	639.70	1.72	0.80	12.50
6890.50	30.03	16.41	1.15	12.69	11.92	66.88	797.26			
6891.00	31.76	17.36	0.19	12.79	11.98	85.72	1027.16			
6891.50	36.07	19.71	0.16	13.12	12.20	88.06	1073.92			
6892.00	39.16	21.40	0.23	13.88	12.88	86.35	1112.25			
6892.50	28.52	15.58	0.30	15.78	15.06	89.14	1342.11			
6893.00	14.96	8.17	0.15	16.69	16.30	99.21	1617.66			
6893.50	4.51	2.46	0.16	17.26	17.14	100.00	1714.46			
6894.00	0.00	0.00	0.19	17.93	17.93	100.00	1792.55			
6894.50	2.49	1.36	0.16	17.03	16.97	100.00	1696.68			
6895.00	15.84	8.66	0.18	15.05	14.64	93.20	1364.84			
6895.50	48.55	26.53	0.25	10.19	8.95	72.74	651.17			
6896.00	56.78	31.03	1.34	8.97	7.52	49.19	369.94			
6896.50	59.04	32.26	1.68	8.63	7.13	45.01	320.82			
6897.00	53.02	28.97	2.32	9.53	8.17	46.39	379.22			
6897.50	24.51	13.39	74.93	22.19	21.57	39.15	844.27	1.83	0.87	13.00
6898.00	19.46	10.64	50.57	22.45	21.96	45.68	1002.84	1.94	0.93	13.50
6898.50	6.74	3.68	17.15	21.84	21.67	60.13	1302.86	2.05	0.97	14.00
6899.00	1.81	0.99	2.35	20.17	20.12	77.65	1562.49			
6899.50	1.39	0.76	0.32	18.76	18.72	95.89	1795.22			

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Well name = MERRIMELIA #10

Location = 27-44-31.05/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6900.00	2.96	1.62	0.17	17.64	17.56	100.00	1755.97			
6900.50	3.01	1.64	0.16	17.30	17.22	100.00	1721.86			
6901.00	0.13	0.07	0.18	17.63	17.63	100.00	1762.54			
6901.50	0.00	0.00	0.19	18.01	18.01	100.00	1800.69			
6902.00	0.00	0.00	0.19	18.02	18.02	100.00	1802.09			
6902.50	1.18	0.64	0.16	17.22	17.19	100.00	1719.48			
6903.00	3.92	2.14	0.15	16.82	16.72	100.00	1671.76			
6903.50	5.64	3.08	0.14	16.56	16.42	100.00	1641.86			
6904.00	1.47	0.80	0.16	17.18	17.14	100.00	1714.38			
6904.50	0.00	0.00	0.19	17.92	17.92	100.00	1792.35			
6905.00	0.00	0.00	0.27	19.54	19.54	99.08	1936.60			
6905.50	0.91	0.50	0.22	18.77	18.74	100.00	1874.45			
6906.00	0.00	0.00	0.25	19.46	19.46	100.00	1945.88			
6906.50	0.00	0.00	0.26	19.76	19.76	100.00	1975.64			
6907.00	0.00	0.00	0.22	18.82	18.82	100.00	1881.71			
6907.50	0.00	0.00	0.22	18.91	18.91	100.00	1890.69			
6908.00	0.00	0.00	0.23	18.99	18.99	100.00	1899.34			
6908.50	0.00	0.00	0.29	20.35	20.35	100.00	2035.41			
6909.00	2.66	1.45	0.24	19.36	19.29	100.00	1929.15			
6909.50	6.63	3.62	0.22	18.95	18.78	100.00	1878.22			
6910.00	4.83	2.64	0.22	18.92	18.80	100.00	1879.60			
6910.50	1.72	0.94	0.22	18.96	18.91	100.00	1891.47			
6911.00	0.00	0.00	0.25	19.60	19.60	100.00	1960.02			
6911.50	10.91	5.96	0.11	15.78	15.50	100.00	1550.13			
6912.00	15.70	8.58	0.10	15.07	14.67	100.00	1466.87			
6912.50	14.82	8.10	0.10	15.20	14.82	100.00	1482.06			
6913.00	8.57	4.68	0.27	19.27	19.06	98.26	1872.38			
6913.50	11.97	6.54	0.39	19.07	18.77	93.83	1761.11			
6914.00	14.61	7.98	0.49	18.83	18.46	91.06	1681.08			
6914.50	13.35	7.29	0.40	19.12	18.78	93.81	1762.13			
6915.00	9.62	5.26	0.31	19.78	19.54	97.56	1906.05			
6915.50	3.32	1.81	0.29	20.50	20.42	100.00	2041.84			
6916.00	0.00	0.00	0.32	21.05	21.05	100.00	2104.95			
6916.50	0.48	0.26	0.17	17.33	17.32	100.00	1731.61			
6917.00	4.97	2.72	0.14	16.66	16.53	100.00	1653.49			
6917.50	11.04	6.03	0.11	15.76	15.48	100.00	1547.92			
6918.00	17.48	9.55	0.14	14.80	14.36	94.99	1363.97			
6918.50	24.48	13.38	0.22	13.76	13.14	87.32	1147.39			
6919.00	35.62	19.46	0.15	12.11	11.20	86.18	965.40			
6919.50	71.98	39.33	0.01	6.71	4.87	83.91	409.07			
6920.00	100.00	54.94	0.01	2.54	0.00	100.00	0.00			
6920.50	100.00	58.64	0.01	2.46	0.00	100.00	0.00			
6921.00	100.00	57.45	0.01	8.57	0.00	100.00	0.00			
6921.50	21.93	11.98	0.03	11.19	10.63	100.00	1063.29			
6922.00	49.48	27.04	1.45	18.13	16.87	76.55	1291.50			
6922.50	28.05	15.33	0.21	19.38	18.66	100.00	1866.37			
6923.00	16.69	9.12	0.21	18.87	18.44	100.00	1844.00			
6923.50	8.31	4.54	0.20	18.56	18.35	100.00	1835.13			
6924.00	2.97	1.63	0.21	18.57	18.49	100.00	1849.37			
6924.50	41.68	22.77	0.03	11.21	10.15	100.00	1014.77			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6925.00	63.35	34.61	0.01	7.99	6.38	100.00	637.78			
6925.50	83.02	45.36	0.00	5.07	2.95	100.00	295.50			
6926.00	100.00	55.88	0.01	2.52	0.00	100.00	0.00			
6926.50	100.00	59.21	0.01	2.44	0.00	100.00	0.00			
6927.00	100.00	60.27	0.01	2.42	0.00	100.00	0.00			
6927.50	100.00	61.98	0.01	2.38	0.00	100.00	0.00			
6928.00	100.00	67.82	0.01	2.24	0.00	100.00	0.00			
6928.50	100.00	81.18	0.01	1.92	0.00	100.00	0.00			
6929.00	100.00	88.83	0.01	1.74	0.00	100.00	0.00			
6929.50	100.00	90.97	0.01	1.69	0.00	100.00	0.00			
6930.00	100.00	85.61	0.01	1.81	0.00	100.00	0.00			
6930.50	100.00	78.14	0.01	11.26	0.00	100.00	0.00			
6931.00	100.00	71.24	0.01	10.36	0.00	100.00	0.00			
6931.50	100.00	60.20	0.01	8.93	0.00	100.00	0.00			
6932.00	100.00	55.59	0.01	8.33	0.00	100.00	0.00			
6932.50	75.73	41.38	0.01	0.00	0.00	100.00	0.00			
6933.00	75.19	41.09	0.01	0.00	0.00	100.00	0.00			
6933.50	98.67	53.92	3.12	8.11	5.59	30.09	168.33			
6934.00	100.00	56.48	0.01	8.44	0.00	100.00	0.00			
6934.50	100.00	57.84	0.01	8.62	0.00	100.00	0.00			
6935.00	100.00	58.58	0.01	8.72	0.00	100.00	0.00			
6935.50	100.00	57.53	0.01	8.58	0.00	100.00	0.00			
6936.00	100.00	55.86	0.01	8.36	0.00	100.00	0.00			
6936.50	99.63	54.44	9.22	8.18	5.64	19.07	107.51			
6937.00	75.85	41.45	0.01	0.00	0.00	100.00	0.00			
6937.50	98.85	54.02	3.92	8.12	5.60	27.77	155.57			
6938.00	100.00	57.08	0.01	8.52	0.00	100.00	0.00			
6938.50	100.00	60.61	0.01	8.98	0.00	100.00	0.00			
6939.00	100.00	62.19	0.01	9.18	0.00	100.00	0.00			
6939.50	100.00	62.30	0.01	9.20	0.00	100.00	0.00			
6940.00	100.00	57.34	0.01	8.55	0.00	100.00	0.00			
6940.50	73.97	40.42	0.01	1.38	0.00	100.00	0.00			
6941.00	70.39	38.46	0.01	0.32	0.00	100.00	0.00			
6941.50	68.63	37.50	0.01	0.00	0.00	100.00	0.00			
6942.00	67.82	37.06	0.01	0.64	0.00	100.00	0.00			
6942.50	73.58	40.21	0.00	1.94	0.06	100.00	6.10			
6943.00	100.00	55.59	0.01	8.33	0.00	100.00	0.00			
6943.50	100.00	57.77	0.01	8.61	0.00	100.00	0.00			
6944.00	100.00	58.36	0.01	8.69	0.00	100.00	0.00			
6944.50	100.00	56.37	0.01	8.43	0.00	100.00	0.00			
6945.00	75.35	41.17	0.01	0.00	0.00	100.00	0.00			
6945.50	72.36	39.54	0.01	0.00	0.00	100.00	0.00			
6946.00	74.05	40.47	0.01	0.00	0.00	100.00	0.00			
6946.50	100.00	56.82	0.01	8.49	0.00	100.00	0.00			
6947.00	100.00	60.18	0.01	8.92	0.00	100.00	0.00			
6947.50	100.00	60.71	0.01	8.99	0.00	100.00	0.00			
6948.00	100.00	57.31	0.01	8.55	0.00	100.00	0.00			
6948.50	99.81	54.54	16.69	8.19	5.65	12.95	73.09			
6949.00	99.29	54.25	5.90	8.15	5.62	23.63	132.82			
6949.50	100.00	54.95	0.01	8.24	0.00	100.00	0.00			

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Well name = MERRIMELIA #10

Location = 27-44-31.05/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6950.00	100.00	55.81	0.01	8.36	0.00	100.00	0.00			
6950.50	100.00	55.66	0.01	8.34	0.00	100.00	0.00			
6951.00	99.18	54.20	6.52	8.15	5.62	22.55	126.68			
6951.50	73.63	40.24	0.00	2.47	0.59	100.00	58.98			
6952.00	98.66	53.91	0.68	6.56	4.05	34.62	140.11			
6952.50	93.12	50.89	0.08	6.52	4.14	57.96	240.14			
6953.00	91.20	49.83	0.03	6.27	3.94	64.98	256.19			
6953.50	74.62	40.77	0.00	3.33	1.43	100.00	142.85			
6954.00	100.00	55.06	0.01	8.26	0.00	100.00	0.00			
6954.50	100.00	56.99	0.01	8.51	0.00	100.00	0.00			
6955.00	100.00	59.40	0.01	8.82	0.00	100.00	0.00			
6955.50	100.00	60.97	0.01	9.03	0.00	100.00	0.00			
6956.00	100.00	61.55	0.01	9.10	0.00	100.00	0.00			
6956.50	100.00	60.32	0.01	8.94	0.00	100.00	0.00			
6957.00	100.00	55.99	0.01	8.38	0.00	100.00	0.00			
6957.50	100.00	62.01	0.01	4.73	0.00	100.00	0.00			
6958.00	100.00	58.78	0.01	5.52	0.00	100.00	0.00			
6958.50	100.00	57.50	0.01	5.78	0.00	100.00	0.00			
6959.00	100.00	58.04	0.01	5.65	0.00	100.00	0.00			
6959.50	100.00	58.73	0.01	5.40	0.00	100.00	0.00			
6960.00	94.71	51.75	0.35	7.15	4.74	47.09	223.15			
6960.50	87.04	47.56	0.30	8.07	5.85	55.85	326.46			
6961.00	100.00	63.19	0.01	2.35	0.00	100.00	0.00			
6961.50	100.00	64.86	0.01	2.31	0.00	100.00	0.00			
6962.00	96.02	52.47	0.34	7.49	5.04	49.60	249.87			
6962.50	100.00	64.15	0.01	9.44	0.00	100.00	0.00			
6963.00	100.00	62.06	0.01	9.17	0.00	100.00	0.00			
6963.50	100.00	59.95	0.01	8.89	0.00	100.00	0.00			
6964.00	100.00	58.04	0.01	8.65	0.00	100.00	0.00			
6964.50	100.00	56.36	0.01	8.43	0.00	100.00	0.00			
6965.00	100.00	54.79	0.01	8.22	0.00	100.00	0.00			
6965.50	74.49	40.70	0.01	1.59	0.00	100.00	0.00			
6966.00	73.23	40.02	0.01	1.19	0.00	100.00	0.00			
6966.50	73.05	39.92	0.01	1.14	0.00	100.00	0.00			
6967.00	99.94	54.61	26.83	8.20	5.65	8.03	45.41			
6967.50	100.00	59.94	0.01	8.89	0.00	100.00	0.00			
6968.00	100.00	63.91	0.01	9.41	0.00	100.00	0.00			
6968.50	100.00	66.24	0.01	9.71	0.00	100.00	0.00			
6969.00	100.00	66.05	0.01	9.69	0.00	100.00	0.00			
6969.50	100.00	57.71	0.01	8.60	0.00	100.00	0.00			
6970.00	100.00	53.27	0.01	8.01	0.00	100.00	0.00			
6970.50	100.00	53.81	0.01	8.08	0.00	100.00	0.00			
6971.00	100.00	55.04	0.01	8.24	0.00	100.00	0.00			
6971.50	100.00	55.53	0.01	8.30	0.00	100.00	0.00			
6972.00	100.00	67.83	0.01	2.80	0.00	100.00	0.00			
6972.50	100.00	68.26	0.01	2.92	0.00	100.00	0.00			
6973.00	100.00	60.26	0.01	5.21	0.00	100.00	0.00			
6973.50	100.00	51.45	0.01	7.43	0.00	100.00	0.00			
6974.00	94.89	45.70	7.67	8.39	6.15	24.03	147.84			
6974.50	87.61	42.19	4.82	8.87	6.81	32.41	220.70			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
6975.00	87.52	42.15	4.02	8.75	6.69	33.69	225.37			
6975.50	88.25	42.50	3.04	8.37	6.29	34.45	216.76			
6976.00	87.33	42.06	2.03	8.03	5.97	36.84	220.04			
6976.50	86.32	41.57	1.43	7.77	5.73	39.08	224.01			
6977.00	86.97	41.88	1.61	7.83	5.78	38.09	220.06			
6977.50	83.46	40.19	2.51	8.54	6.57	37.98	249.57			
6978.00	79.34	38.21	3.65	9.25	7.38	38.09	280.92			
6978.50	75.29	36.26	5.38	9.80	8.03	37.01	297.17			
6979.00	71.23	34.30	5.96	10.01	8.33	37.21	309.87			
6979.50	96.88	46.65	0.00	2.77	0.48	54.55	26.29			
6980.00	67.08	32.31	8.29	10.36	8.77	35.59	312.25			
6980.50	67.53	32.52	10.05	10.49	8.89	34.07	303.03			
6981.00	71.12	34.25	9.36	10.12	8.44	32.99	278.49			
6981.50	69.03	33.24	5.88	9.56	7.93	35.64	282.55			
6982.00	68.33	32.90	4.90	9.42	7.81	36.99	288.74			
6982.50	66.57	32.06	4.20	9.53	7.96	39.28	312.57			
6983.00	64.19	30.91	3.58	9.62	8.10	41.58	336.99			
6983.50	62.12	29.92	3.13	9.70	8.23	43.51	358.22			
6984.00	85.60	41.22	0.01	4.24	2.22	57.67	128.26			
6984.50	67.86	32.68	2.29	9.10	7.50	43.54	326.65			
6985.00	73.13	35.22	1.82	8.58	6.86	42.82	293.56			
6985.50	79.21	38.14	1.82	8.23	6.36	40.19	255.72			
6986.00	90.03	43.36	4.11	8.28	6.16	30.55	188.08			
6986.50	95.54	46.01	10.93	8.55	6.30	21.17	133.36			
6987.00	96.50	46.47	11.67	8.31	6.04	19.01	114.81			
6987.50	91.99	44.30	4.15	7.70	5.53	26.73	147.88			
6988.00	89.05	42.88	2.03	7.10	5.00	30.66	153.40			
6988.50	87.67	42.22	3.10	7.70	5.63	30.39	171.23			
6989.00	80.90	38.96	6.42	9.13	7.22	31.47	227.23			
6989.50	64.32	30.98	10.65	10.97	9.45	35.57	336.15			
6990.00	55.58	26.76	9.31	11.34	10.03	39.06	391.87			
6990.50	50.56	24.35	7.64	11.24	10.05	41.17	413.67			
6991.00	49.30	23.74	6.17	10.92	9.75	42.35	413.13			
6991.50	52.28	25.18	4.43	10.17	8.93	42.75	381.93			
6992.00	60.57	29.17	2.35	8.79	7.36	42.62	313.87			
6992.50	65.83	31.70	1.39	7.85	6.29	42.64	268.31			
6993.00	73.39	35.34	1.53	7.58	5.85	39.05	228.40			
6993.50	76.29	36.74	5.19	9.01	7.21	33.65	242.79			
6994.00	71.89	34.62	5.55	9.76	8.06	36.82	296.84			
6994.50	70.12	33.77	5.08	10.13	8.48	39.49	334.73			
6995.00	81.38	39.19	4.35	9.39	7.47	36.70	274.09			
6995.50	100.00	49.14	0.01	9.69	0.00	100.00	0.00			
6996.00	100.00	51.26	0.01	9.46	0.00	100.00	0.00			
6996.50	94.02	45.28	11.40	11.08	8.87	16.54	146.65			
6997.00	72.66	34.99	17.21	10.93	9.22	29.71	273.89			
6997.50	57.37	27.63	7.34	10.50	9.15	38.31	350.40			
6998.00	48.89	23.54	5.64	10.69	9.53	42.49	405.16			
6998.50	41.28	19.88	5.07	11.06	10.09	45.56	459.47	2.10	1.00	14.50
6999.00	34.79	16.75	5.40	11.63	10.81	47.35	512.01	2.15	1.03	15.00
6999.50	28.63	13.79	6.02	12.18	11.50	48.35	556.22	2.21	1.06	15.50

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Well name = MERRIMELIA #10

Location = 27-44-31.05/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7000.00	38.42	18.50	2.99	10.42	9.51	49.02	466.22			
7000.50	55.46	26.71	1.49	8.19	6.88	44.99	309.51			
7001.00	66.84	32.19	0.79	6.70	5.12	41.32	211.61			
7001.50	72.75	35.04	0.51	5.92	4.21	38.99	164.05			
7002.00	61.35	29.55	7.20	9.68	8.23	34.83	286.69			
7002.50	70.92	34.15	3.75	8.68	7.01	36.02	252.39			
7003.00	77.62	37.38	2.20	8.04	6.21	37.35	231.82			
7003.50	86.62	41.72	2.40	7.78	5.74	33.72	193.66			
7004.00	95.10	45.80	5.87	7.81	5.57	23.35	130.04			
7004.50	91.28	43.96	11.13	9.07	6.92	24.25	167.80			
7005.00	83.17	40.05	17.58	10.38	8.42	26.32	221.59			
7005.50	69.52	33.48	18.04	11.20	9.56	30.47	291.22			
7006.00	57.35	27.62	14.30	11.49	10.14	34.94	354.17			
7006.50	70.65	34.02	0.28	6.20	4.53	48.02	217.69			
7007.00	65.36	31.47	0.50	6.89	5.35	47.64	254.89			
7007.50	65.27	31.43	0.52	6.90	5.36	47.23	253.35			
7008.00	73.08	35.19	0.24	5.88	4.16	46.59	193.74			
7008.50	74.17	35.72	0.22	5.74	3.99	46.01	183.54			
7009.00	58.27	28.06	3.00	9.03	7.66	41.46	317.47			
7009.50	54.50	26.25	4.25	9.81	8.53	41.56	354.28			
7010.00	54.76	26.37	5.89	10.37	9.08	40.34	366.27			
7010.50	59.56	28.68	6.16	10.28	8.87	39.07	346.64			
7011.00	64.10	30.87	5.64	9.98	8.47	38.40	325.33			
7011.50	70.95	34.17	4.20	9.26	7.59	37.64	285.68			
7012.00	76.69	36.93	2.92	8.54	6.73	37.23	250.74			
7012.50	81.76	39.37	2.02	7.87	5.94	36.71	218.09			
7013.00	86.60	41.71	1.46	7.24	5.19	35.44	184.05			
7013.50	93.36	44.96	2.05	6.98	4.78	29.00	138.71			
7014.00	89.81	43.25	4.15	8.04	5.93	29.14	172.72			
7014.50	83.60	40.26	6.82	9.11	7.14	30.44	217.34			
7015.00	100.00	50.74	0.01	2.28	0.00	100.00	0.00			
7015.50	67.74	32.62	7.74	10.11	8.52	35.26	300.26			
7016.00	60.95	29.35	7.59	10.36	8.92	37.10	331.01			
7016.50	56.43	27.18	6.48	10.32	8.99	39.01	350.77			
7017.00	54.47	26.23	5.83	10.24	8.95	39.96	357.81			
7017.50	57.32	27.61	7.11	10.36	9.01	38.12	343.54			
7018.00	59.76	28.78	7.93	10.38	8.97	36.82	330.37			
7018.50	61.97	29.84	7.55	10.17	8.71	36.29	315.93			
7019.00	62.44	30.07	6.55	9.89	8.42	36.61	308.15			
7019.50	63.00	30.34	5.67	9.60	8.12	36.84	299.04			
7020.00	63.85	30.75	4.85	9.29	7.79	37.02	288.26			
7020.50	67.71	32.61	3.69	8.70	7.10	36.68	260.51			
7021.00	73.04	35.17	2.57	7.97	6.25	36.00	225.06			
7021.50	80.99	39.00	1.68	7.17	5.26	34.38	180.74			
7022.00	94.68	45.59	2.17	6.59	4.35	25.15	109.51			
7022.50	100.00	53.69	0.01	5.97	0.00	100.00	0.00			
7023.00	100.00	59.64	0.01	5.84	0.00	100.00	0.00			
7023.50	100.00	58.64	0.01	7.30	0.00	100.00	0.00			
7024.00	100.00	55.74	0.01	8.39	0.00	100.00	0.00			
7024.50	100.00	51.05	0.01	8.24	0.00	100.00	0.00			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7025.00	97.42	46.91	8.53	7.72	5.43	18.57	100.78			
7025.50	98.53	47.45	4.62	6.72	4.40	17.60	77.36			
7026.00	100.00	48.30	0.01	6.03	0.00	100.00	0.00			
7026.50	100.00	50.01	0.01	6.22	0.00	100.00	0.00			
7027.00	98.52	47.45	16.20	8.10	5.78	14.07	81.34			
7027.50	95.22	45.86	21.99	9.55	7.30	19.04	139.06			
7028.00	90.93	43.79	22.51	10.30	8.15	22.64	184.57			
7028.50	82.83	39.89	16.82	10.65	8.69	27.90	242.51			
7029.00	69.28	33.37	8.84	10.46	8.82	35.11	309.70			
7029.50	61.83	29.78	5.57	9.99	8.53	38.75	330.51			
7030.00	59.95	28.87	4.43	9.55	8.14	39.49	321.31			
7030.50	62.69	30.19	3.25	8.95	7.47	39.77	297.21			
7031.00	71.78	34.57	4.25	8.87	7.18	35.58	255.59			
7031.50	74.92	36.08	4.90	9.23	7.46	35.43	264.37			
7032.00	67.13	32.33	4.23	10.19	8.61	41.93	360.87			
7032.50	47.82	23.03	2.22	11.68	10.55	55.73	587.97	2.26	1.08	16.00
7033.00	30.79	14.83	1.38	12.65	11.92	64.98	774.74	2.32	1.10	16.50
7033.50	26.80	12.91	2.21	12.27	11.63	59.22	688.95	2.38	1.13	17.00
7034.00	29.30	14.11	3.79	11.48	10.79	50.94	549.61	2.43	1.15	17.50
7034.50	36.81	17.73	5.83	10.65	9.78	43.04	420.91			
7035.00	47.55	22.90	7.78	10.09	8.97	37.04	332.28			
7035.50	55.45	26.70	7.58	9.42	8.11	33.79	274.06			
7036.00	61.84	29.78	5.75	8.65	7.19	32.47	233.54			
7036.50	68.02	32.76	3.81	7.87	6.26	31.95	200.13			
7037.00	75.43	36.32	2.36	7.06	5.28	31.00	163.72			
7037.50	86.18	41.50	1.76	6.42	4.39	27.58	121.05			
7038.00	93.39	44.98	2.29	6.34	4.13	22.79	94.17			
7038.50	91.83	44.22	4.49	7.18	5.02	22.51	112.92			
7039.00	82.69	39.82	4.29	8.73	6.78	33.45	226.73			
7039.50	56.98	27.44	9.90	12.30	10.96	41.48	454.49			
7040.00	33.09	15.93	13.32	15.26	14.48	45.63	660.65	2.50	1.19	18.00
7040.50	25.82	12.43	14.53	15.85	15.24	46.61	710.48	2.58	1.23	18.50
7041.00	34.12	16.43	1.55	10.98	10.18	58.22	592.41	2.63	1.25	19.00
7041.50	40.42	19.47	2.08	10.15	9.20	51.64	475.17			
7042.00	44.59	21.48	2.99	9.61	8.56	45.34	387.96			
7042.50	42.62	20.53	4.60	9.87	8.86	42.07	372.80			
7043.00	28.32	13.64	10.75	11.74	11.07	40.98	453.66	2.69	1.29	19.50
7043.50	11.64	5.61	14.21	13.92	13.65	40.87	557.78	2.76	1.33	20.00
7044.00	4.75	2.29	17.43	14.82	14.71	40.94	602.31	2.83	1.37	20.50
7044.50	0.03	0.02	18.90	15.44	15.44	42.12	650.40	2.91	1.41	21.00
7045.00	0.00	0.00	18.27	16.23	16.23	45.59	740.02	2.99	1.46	21.50
7045.50	0.00	0.00	16.64	16.56	16.56	48.38	801.15	3.07	1.50	22.00
7046.00	0.00	0.00	16.11	16.70	16.70	49.41	825.17	3.15	1.54	22.50
7046.50	0.00	0.00	16.80	16.76	16.76	48.84	818.82	3.24	1.59	23.00
7047.00	5.13	2.47	18.98	16.09	15.97	43.97	702.27	3.32	1.63	23.50
7047.50	24.59	11.84	11.55	12.83	12.25	39.27	480.98	3.38	1.67	24.00
7048.00	35.31	17.01	12.06	10.82	9.98	36.19	361.25			
7048.50	42.81	20.61	12.19	10.38	9.37	33.88	317.53			
7049.00	47.49	22.87	14.51	10.70	9.58	32.83	314.65			
7049.50	45.10	21.72	11.86	11.46	10.40	37.78	392.84	3.43	1.70	24.50

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7050.00	58.04	27.95	1.04	7.85	6.48	46.71	302.67			
7050.50	41.44	19.96	8.41	11.66	10.68	42.28	451.52	3.48	1.73	25.00
7051.00	54.99	26.48	3.17	9.71	8.42	44.18	371.90			
7051.50	83.53	40.23	1.77	7.62	5.65	36.33	205.21			
7052.00	100.00	49.23	0.01	6.86	0.00	100.00	0.00			
7052.50	64.04	30.84	0.01	3.76	2.25	57.61	129.47			
7053.00	100.00	49.50	0.01	7.00	0.00	100.00	0.00			
7053.50	92.71	44.65	7.16	7.61	5.43	20.40	110.75			
7054.00	80.23	38.64	5.17	8.47	6.58	30.50	200.72			
7054.50	9.12	4.39	29.36	17.17	16.95	39.39	667.70	3.57	1.78	25.50
7055.00	0.00	0.00	16.76	15.99	15.99	46.42	742.36	3.65	1.83	26.00
7055.50	11.92	5.74	9.87	13.88	13.60	49.05	667.19	3.72	1.86	26.50
7056.00	35.97	17.32	5.35	10.74	9.89	44.32	438.32			
7056.50	46.63	22.45	4.78	9.34	8.24	39.15	322.73			
7057.00	41.86	20.16	19.82	13.51	12.53	27.52	344.76	3.78	1.91	27.00
7057.50	47.96	23.10	20.85	13.41	12.28	24.78	304.17	3.84	1.95	27.50
7058.00	23.45	11.29	50.14	16.86	16.31	27.02	440.66	3.92	2.01	28.00
7058.50	16.70	8.04	13.45	13.26	12.87	38.60	496.57	3.99	2.05	28.50
7059.00	6.12	2.95	16.86	14.64	14.50	40.78	591.26	4.06	2.09	29.00
7059.50	0.00	0.00	23.46	16.02	16.02	40.10	642.25	4.14	2.14	29.50
7060.00	0.00	0.00	27.98	16.19	16.19	37.44	606.28	4.22	2.19	30.00
7060.50	0.00	0.00	32.30	16.23	16.23	34.92	566.98	4.30	2.25	30.50
7061.00	0.00	0.00	34.63	16.31	16.31	33.92	553.20	4.38	2.30	31.00
7061.50	0.00	0.00	36.38	16.39	16.39	33.34	546.49	4.46	2.35	31.50
7062.00	0.00	0.00	37.59	16.46	16.46	33.02	543.55	4.55	2.41	32.00
7062.50	0.00	0.00	38.81	16.53	16.53	32.71	540.62	4.63	2.46	32.50
7063.00	0.00	0.00	39.33	16.60	16.60	32.74	543.42	4.71	2.52	33.00
7063.50	0.00	0.00	36.87	16.61	16.61	33.98	564.39	4.80	2.58	33.50
7064.00	0.00	0.00	26.81	16.56	16.56	39.62	656.07	4.88	2.62	34.00
7064.50	0.00	0.00	20.89	16.51	16.51	44.02	726.70	4.96	2.67	34.50
7065.00	2.18	1.05	12.37	15.16	15.11	49.39	746.17	5.04	2.71	35.00
7065.50	14.34	6.90	7.24	13.57	13.23	51.31	678.79	5.10	2.74	35.50
7066.00	100.00	49.91	0.01	2.30	0.00	100.00	0.00			
7066.50	100.00	54.16	0.01	2.17	0.00	100.00	0.00			
7067.00	95.00	45.75	16.56	9.36	7.12	21.13	150.50			
7067.50	100.00	58.46	0.01	8.68	0.00	100.00	0.00			
7068.00	100.00	55.45	0.01	8.29	0.00	100.00	0.00			
7068.50	100.00	53.40	0.01	8.02	0.00	100.00	0.00			
7069.00	100.00	52.51	0.01	7.91	0.00	100.00	0.00			
7069.50	100.00	54.02	0.01	8.10	0.00	100.00	0.00			
7070.00	100.00	58.18	0.01	8.64	0.00	100.00	0.00			
7070.50	100.00	60.95	0.01	9.00	0.00	100.00	0.00			
7071.00	100.00	62.10	0.01	9.15	0.00	100.00	0.00			
7071.50	100.00	60.62	0.01	8.96	0.00	100.00	0.00			
7072.00	100.00	48.65	0.01	7.41	0.00	100.00	0.00			
7072.50	68.77	33.12	12.85	11.23	9.61	34.20	328.71			
7073.00	61.16	29.45	9.45	11.09	9.65	37.54	362.22			
7073.50	59.34	28.58	5.54	10.27	8.87	40.18	356.40			
7074.00	57.65	27.76	3.99	9.80	8.44	41.86	353.41			
7074.50	53.23	25.64	2.51	9.76	8.51	46.95	399.36			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7075.00	54.68	26.33	0.18	8.29	7.00	67.48	472.27			
7075.50	25.17	12.12	0.92	12.50	11.91	69.16	823.49			
7076.00	15.35	7.39	0.83	13.42	13.05	73.35	957.49			
7076.50	7.01	3.38	0.93	14.53	14.36	75.56	1085.19			
7077.00	5.97	2.87	0.83	14.66	14.52	77.12	1120.01			
7077.50	5.02	2.42	0.92	14.79	14.67	76.44	1121.35			
7078.00	16.22	7.81	0.80	13.32	12.94	73.46	950.53			
7078.50	29.83	14.37	0.60	11.80	11.09	71.11	788.81			
7079.00	62.96	30.32	0.02	7.21	5.72	81.30	465.09			
7079.50	95.03	45.77	0.00	3.01	0.77	100.00	76.69			
7080.00	100.00	56.59	0.01	2.10	0.00	100.00	0.00			
7080.50	100.00	64.26	0.01	1.86	0.00	100.00	0.00			
7081.00	100.00	70.68	0.01	1.66	0.00	100.00	0.00			
7081.50	100.00	59.01	0.01	4.67	0.00	100.00	0.00			
7082.00	100.00	76.42	0.01	11.01	0.00	100.00	0.00			
7082.50	100.00	68.78	0.01	10.02	0.00	100.00	0.00			
7083.00	100.00	63.69	0.01	9.36	0.00	100.00	0.00			
7083.50	100.00	60.62	0.01	8.96	0.00	100.00	0.00			
7084.00	100.00	57.55	0.01	8.56	0.00	100.00	0.00			
7084.50	100.00	56.83	0.01	8.47	0.00	100.00	0.00			
7085.00	100.00	57.61	0.01	8.57	0.00	100.00	0.00			
7085.50	100.00	60.79	0.01	8.98	0.00	100.00	0.00			
7086.00	100.00	63.68	0.01	9.36	0.00	100.00	0.00			
7086.50	100.00	64.53	0.01	9.47	0.00	100.00	0.00			
7087.00	100.00	64.47	0.01	9.46	0.00	100.00	0.00			
7087.50	100.00	64.02	0.01	9.40	0.00	100.00	0.00			
7088.00	100.00	62.97	0.01	9.27	0.00	100.00	0.00			
7088.50	100.00	61.30	0.01	9.05	0.00	100.00	0.00			
7089.00	100.00	59.30	0.01	8.79	0.00	100.00	0.00			
7089.50	100.00	57.11	0.01	8.51	0.00	100.00	0.00			
7090.00	100.00	55.45	0.01	8.29	0.00	100.00	0.00			
7090.50	100.00	54.64	0.01	8.18	0.00	100.00	0.00			
7091.00	100.00	53.97	0.01	8.10	0.00	100.00	0.00			
7091.50	100.00	55.24	0.01	8.26	0.00	100.00	0.00			
7092.00	100.00	56.50	0.01	8.43	0.00	100.00	0.00			
7092.50	100.00	54.50	0.01	8.17	0.00	100.00	0.00			
7093.00	100.00	56.57	0.01	8.43	0.00	100.00	0.00			
7093.50	100.00	62.62	0.01	9.22	0.00	100.00	0.00			
7094.00	100.00	66.08	0.01	9.67	0.00	100.00	0.00			
7094.50	100.00	66.76	0.01	9.76	0.00	100.00	0.00			
7095.00	100.00	65.77	0.01	9.63	0.00	100.00	0.00			
7095.50	100.00	65.27	0.01	9.56	0.00	100.00	0.00			
7096.00	100.00	66.13	0.01	9.68	0.00	100.00	0.00			
7096.50	100.00	66.91	0.01	9.78	0.00	100.00	0.00			
7097.00	100.00	67.08	0.01	9.80	0.00	100.00	0.00			
7097.50	100.00	67.58	0.01	6.43	0.00	100.00	0.00			
7098.00	100.00	66.24	0.01	6.06	0.00	100.00	0.00			
7098.50	100.00	64.58	0.01	5.69	0.00	100.00	0.00			
7099.00	100.00	61.64	0.01	5.33	0.00	100.00	0.00			
7099.50	100.00	57.49	0.01	5.52	0.00	100.00	0.00			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7100.00	100.00	53.29	0.01	5.84	0.00	100.00	0.00			
7100.50	100.00	49.32	0.01	6.38	0.00	100.00	0.00			
7101.00	94.78	45.64	3.68	6.87	4.63	21.81	101.08			
7101.50	86.50	41.66	3.88	7.44	5.40	26.61	143.74			
7102.00	78.72	37.91	4.21	7.95	6.09	29.93	182.33			
7102.50	71.12	34.25	4.06	8.42	6.74	33.85	228.25			
7103.00	63.31	30.49	3.84	9.10	7.61	38.63	293.82			
7103.50	56.83	27.37	4.58	9.93	8.59	41.02	352.20			
7104.00	52.49	25.28	5.37	10.53	9.29	42.10	391.03			
7104.50	47.56	22.90	5.58	10.93	9.81	43.58	427.30			
7105.00	43.63	21.01	8.26	11.19	10.16	40.74	413.97	5.15	2.77	36.00
7105.50	42.64	20.53	10.29	11.05	10.05	38.07	382.56	5.20	2.80	36.50
7106.00	43.27	20.84	11.90	10.71	9.69	35.28	341.77			
7106.50	43.91	21.14	12.95	10.36	9.33	33.07	308.36			
7107.00	45.07	21.70	12.04	10.05	8.98	32.53	292.22			
7107.50	46.19	22.25	9.91	9.72	8.63	33.17	286.35			
7108.00	48.43	23.32	6.14	9.33	8.19	36.32	297.43			
7108.50	55.41	26.68	4.63	9.21	7.90	38.01	300.37			
7109.00	56.52	27.22	5.08	9.81	8.48	39.51	334.99			
7109.50	46.16	22.23	5.72	11.02	9.94	43.78	435.01			
7110.00	29.68	14.29	8.32	12.92	12.22	47.10	575.60	5.26	2.84	37.00
7110.50	12.52	6.03	14.50	15.65	15.36	47.06	722.72	5.34	2.88	37.50
7111.00	6.12	2.94	15.46	16.29	16.15	48.44	782.17	5.42	2.92	38.00
7111.50	2.78	1.34	8.64	15.08	15.01	53.88	808.95	5.50	2.95	38.50
7112.00	13.58	6.54	5.82	13.67	13.35	53.88	719.19	5.56	2.98	39.00
7112.50	64.77	31.19	0.08	6.18	4.66	61.27	285.34			
7113.00	81.70	39.34	0.00	3.98	2.06	64.12	131.97			
7113.50	97.49	46.95	0.01	3.72	1.42	48.22	68.34			
7114.00	100.00	54.94	0.01	3.97	0.00	100.00	0.00			
7114.50	100.00	68.00	0.01	9.92	0.00	100.00	0.00			
7115.00	100.00	69.55	0.01	10.12	0.00	100.00	0.00			
7115.50	100.00	70.04	0.01	10.18	0.00	100.00	0.00			
7116.00	100.00	67.34	0.01	9.83	0.00	100.00	0.00			
7116.50	100.00	63.71	0.01	9.36	0.00	100.00	0.00			
7117.00	100.00	59.08	0.01	8.76	0.00	100.00	0.00			
7117.50	100.00	55.08	0.01	8.24	0.00	100.00	0.00			
7118.00	100.00	52.47	0.01	7.90	0.00	100.00	0.00			
7118.50	100.00	52.00	0.01	7.84	0.00	100.00	0.00			
7119.00	100.00	53.36	0.01	8.02	0.00	100.00	0.00			
7119.50	100.00	55.13	0.01	8.25	0.00	100.00	0.00			
7120.00	100.00	55.32	0.01	8.27	0.00	100.00	0.00			
7120.50	100.00	52.52	0.01	7.91	0.00	100.00	0.00			
7121.00	100.00	50.30	0.01	7.62	0.00	100.00	0.00			
7121.50	100.00	48.46	0.01	7.38	0.00	100.00	0.00			
7122.00	99.47	47.90	13.17	7.31	4.96	10.93	54.23			
7122.50	100.00	48.86	0.01	7.43	0.00	100.00	0.00			
7123.00	100.00	53.05	0.01	6.16	0.00	100.00	0.00			
7123.50	100.00	54.65	0.01	5.41	0.00	100.00	0.00			
7124.00	100.00	57.72	0.01	4.21	0.00	100.00	0.00			
7124.50	100.00	59.85	0.01	3.32	0.00	100.00	0.00			

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7125.00	100.00	61.27	0.01	2.60	0.00	100.00	0.00			
7125.50	100.00	63.02	0.01	2.14	0.00	100.00	0.00			
7126.00	100.00	67.28	0.01	2.18	0.00	100.00	0.00			
7126.50	100.00	70.80	0.01	4.11	0.00	100.00	0.00			
7127.00	100.00	58.71	0.01	8.71	0.00	100.00	0.00			
7127.50	100.00	56.98	0.01	8.49	0.00	100.00	0.00			
7128.00	100.00	58.29	0.01	8.66	0.00	100.00	0.00			
7128.50	100.00	59.63	0.01	8.83	0.00	100.00	0.00			
7129.00	100.00	60.31	0.01	8.92	0.00	100.00	0.00			
7129.50	100.00	58.61	0.01	8.70	0.00	100.00	0.00			
7130.00	100.00	54.05	0.01	8.11	0.00	100.00	0.00			
7130.50	100.00	51.02	0.01	7.71	0.00	100.00	0.00			
7131.00	100.00	51.16	0.01	7.73	0.00	100.00	0.00			
7131.50	100.00	53.04	0.01	7.98	0.00	100.00	0.00			
7132.00	100.00	52.48	0.01	7.90	0.00	100.00	0.00			
7132.50	93.44	45.00	6.64	8.19	5.98	24.57	147.03			
7133.00	77.15	37.15	9.26	9.59	7.77	30.22	234.86			
7133.50	62.88	30.28	16.47	10.77	9.29	30.43	282.62			
7134.00	51.85	24.97	10.33	11.75	10.53	32.57	342.90			
7134.50	45.22	21.77	12.63	13.07	12.00	35.77	429.29	5.62	3.02	39.50
7135.00	36.76	17.70	13.84	14.38	13.51	40.89	552.54	5.69	3.06	40.00
7135.50	19.34	9.31	13.59	15.30	14.84	46.56	691.06	5.77	3.10	40.50
7136.00	18.92	9.11	4.29	12.97	12.52	54.86	686.98	5.83	3.13	41.00
7136.50	15.24	7.34	5.33	13.45	13.09	54.13	708.55	5.89	3.16	41.50
7137.00	13.04	6.28	12.47	14.82	14.52	47.16	684.60	5.97	3.20	42.00
7137.50	16.70	8.04	15.49	14.93	14.53	42.67	620.16	6.04	3.24	42.50
7138.00	15.25	7.35	20.28	15.42	15.06	39.24	591.04	6.11	3.29	43.00
7138.50	9.67	4.66	23.06	15.61	15.38	37.96	583.87	6.19	3.33	43.50
7139.00	19.26	9.28	12.81	12.92	12.47	37.83	471.67	6.25	3.37	44.00
7139.50	25.06	12.07	11.98	12.17	11.58	34.78	402.54	6.31	3.41	44.50
7140.00	29.14	14.03	11.24	11.63	10.94	32.80	358.99	6.37	3.45	45.00
7140.50	31.38	15.11	10.32	11.34	10.60	33.06	350.35	6.42	3.48	45.50
7141.00	28.70	13.82	13.07	12.25	11.57	32.47	375.62	6.48	3.52	46.00
7141.50	29.70	14.30	14.30	12.58	11.88	31.92	379.16	6.54	3.56	46.50
7142.00	19.19	9.24	17.38	13.51	13.06	33.52	437.66	6.60	3.60	47.00
7142.50	13.45	6.48	17.32	13.68	13.37	35.14	469.67	6.67	3.65	47.50
7143.00	10.41	5.01	19.67	14.08	13.84	34.55	478.06	6.74	3.69	48.00
7143.50	7.70	3.71	21.87	14.44	14.26	34.21	487.67	6.81	3.74	48.50
7144.00	4.98	2.40	24.32	14.79	14.68	33.90	497.43	6.88	3.79	49.00
7144.50	2.46	1.18	26.92	15.12	15.07	33.55	505.43	6.96	3.84	49.50
7145.00	0.00	0.00	34.26	15.91	15.91	32.49	517.02	7.04	3.89	50.00
7145.50	0.00	0.00	34.63	16.10	16.10	33.05	531.87	7.12	3.95	50.50
7146.00	0.00	0.00	29.76	16.16	16.16	36.17	584.57	7.20	4.00	51.00
7146.50	0.00	0.00	22.29	16.06	16.06	41.22	661.77	7.28	4.04	51.50
7147.00	2.40	1.16	11.92	15.13	15.07	50.03	754.07	7.35	4.08	52.00
7147.50	9.27	4.46	6.21	14.23	14.01	54.91	769.47	7.42	4.11	52.50
7148.00	32.56	15.68	0.48	9.88	9.11	66.59	606.67			
7148.50	80.39	38.71	0.01	4.92	3.03	68.96	208.86			
7149.00	100.00	49.83	0.01	2.31	0.00	100.00	0.00			
7149.50	100.00	53.77	0.01	2.18	0.00	100.00	0.00			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7150.00	100.00	54.84	0.01	2.15	0.00	100.00	0.00			
7150.50	100.00	50.54	0.01	2.28	0.00	100.00	0.00			
7151.00	78.46	37.78	0.24	6.50	4.65	50.56	235.06			
7151.50	100.00	54.58	0.01	2.16	0.00	100.00	0.00			
7152.00	100.00	62.85	0.01	1.90	0.00	100.00	0.00			
7152.50	100.00	69.15	0.01	1.71	0.00	100.00	0.00			
7153.00	100.00	71.85	0.01	1.62	0.00	100.00	0.00			
7153.50	100.00	55.13	0.01	3.45	0.00	100.00	0.00			
7154.00	100.00	57.87	0.01	3.17	0.00	100.00	0.00			
7154.50	100.00	58.15	0.01	3.21	0.00	100.00	0.00			
7155.00	100.00	57.33	0.01	3.39	0.00	100.00	0.00			
7155.50	100.00	56.80	0.01	3.59	0.00	100.00	0.00			
7156.00	100.00	60.31	0.01	4.31	0.00	100.00	0.00			
7156.50	100.00	62.36	0.01	4.73	0.00	100.00	0.00			
7157.00	100.00	60.12	0.01	8.90	0.00	100.00	0.00			
7157.50	100.00	58.13	0.01	8.64	0.00	100.00	0.00			
7158.00	100.00	58.79	0.01	8.72	0.00	100.00	0.00			
7158.50	100.00	59.93	0.01	8.87	0.00	100.00	0.00			
7159.00	100.00	60.80	0.01	8.98	0.00	100.00	0.00			
7159.50	100.00	60.24	0.01	8.91	0.00	100.00	0.00			
7160.00	100.00	56.58	0.01	8.44	0.00	100.00	0.00			
7160.50	100.00	60.54	0.01	4.54	0.00	100.00	0.00			
7161.00	100.00	60.87	0.01	4.27	0.00	100.00	0.00			
7161.50	100.00	59.71	0.01	4.44	0.00	100.00	0.00			
7162.00	100.00	58.17	0.01	4.75	0.00	100.00	0.00			
7162.50	100.00	56.66	0.01	5.04	0.00	100.00	0.00			
7163.00	100.00	54.56	0.01	5.29	0.00	100.00	0.00			
7163.50	100.00	52.02	0.01	5.65	0.00	100.00	0.00			
7164.00	100.00	48.75	0.01	6.06	0.00	100.00	0.00			
7164.50	93.98	45.26	0.74	6.48	4.26	35.64	151.94			
7165.00	87.27	42.03	0.61	6.83	4.77	41.59	198.44			
7165.50	81.53	39.26	0.62	7.07	5.15	44.10	227.22			
7166.00	76.72	36.95	0.60	7.20	5.39	46.07	248.34			
7166.50	73.16	35.23	0.47	7.16	5.44	48.75	265.11			
7167.00	74.69	35.97	0.20	6.56	4.79	53.59	256.92			
7167.50	80.78	38.90	0.05	5.86	3.95	60.15	237.88			
7168.00	100.00	61.35	0.01	1.95	0.00	100.00	0.00			
7168.50	100.00	57.06	0.01	5.52	0.00	100.00	0.00			
7169.00	100.00	67.93	0.01	9.91	0.00	100.00	0.00			
7169.50	100.00	67.20	0.01	9.81	0.00	100.00	0.00			
7170.00	100.00	64.47	0.01	9.46	0.00	100.00	0.00			
7170.50	100.00	62.60	0.01	9.22	0.00	100.00	0.00			
7171.00	100.00	60.98	0.01	9.01	0.00	100.00	0.00			
7171.50	100.00	59.26	0.01	8.78	0.00	100.00	0.00			
7172.00	100.00	58.44	0.01	8.68	0.00	100.00	0.00			
7172.50	100.00	60.28	0.01	8.92	0.00	100.00	0.00			
7173.00	100.00	62.52	0.01	9.21	0.00	100.00	0.00			
7173.50	100.00	63.28	0.01	9.31	0.00	100.00	0.00			
7174.00	97.73	47.07	0.11	4.99	2.69	39.22	105.51			
7174.50	79.58	38.32	0.00	4.70	2.82	73.49	207.54			

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Well name = MERRIMELIA #10

Location = 27-44-31.0S/140-11-04.8E

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DEPTH	V Shale	V clay	Perm.	PhiZ	PhiE	Sw	PhiE*Sw	Cum Phi*H	Cum Hc*H	Cum H
7175.00	69.01	33.23	0.00	4.48	2.85	79.38	226.24			
7175.50	65.19	31.39	0.00	3.99	2.45	79.90	195.60			
7176.00	67.52	32.52	0.00	2.89	1.30	78.42	101.77			
7176.50	78.82	37.96	0.00	2.26	0.41	75.54	30.69			
7177.00	100.00	53.62	0.01	3.19	0.00	100.00	0.00			
7177.50	100.00	54.59	0.01	4.87	0.00	100.00	0.00			
7178.00	100.00	49.53	0.01	5.56	0.00	100.00	0.00			
7178.50	88.59	42.66	0.01	6.00	3.91	75.79	296.49			
7179.00	76.06	36.63	0.00	6.52	4.73	93.07	439.89			
7179.50	100.00	49.18	0.01	2.33	0.00	100.00	0.00			
7180.00	100.00	52.85	0.01	2.21	0.00	100.00	0.00			
7180.50	100.00	57.56	0.01	2.07	0.00	100.00	0.00			
7181.00	100.00	50.29	0.01	5.92	0.00	100.00	0.00			
7181.50	100.00	56.87	0.01	5.70	0.00	100.00	0.00			
7182.00	100.00	58.66	0.01	5.86	0.00	100.00	0.00			
7182.50	100.00	58.85	0.01	6.15	0.00	100.00	0.00			
7183.00	100.00	57.57	0.01	6.00	0.00	100.00	0.00			
7183.50	100.00	56.81	0.01	5.52	0.00	100.00	0.00			
7184.00	100.00	56.94	0.01	5.07	0.00	100.00	0.00			
7184.50	100.00	57.59	0.01	4.67	0.00	100.00	0.00			
7185.00	100.00	57.46	0.01	4.25	0.00	100.00	0.00			
7185.50	100.00	57.12	0.01	3.80	0.00	100.00	0.00			
7186.00	100.00	56.66	0.01	3.33	0.00	100.00	0.00			
7186.50	100.00	56.68	0.01	2.81	0.00	100.00	0.00			
7187.00	100.00	55.27	0.01	2.83	0.00	100.00	0.00			
7187.50	100.00	49.97	0.01	3.90	0.00	100.00	0.00			
7188.00	91.50	44.06	0.01	5.14	2.99	74.46	222.39			
7188.50	100.00	56.95	0.01	2.09	0.00	100.00	0.00			
7189.00	92.34	44.47	0.00	5.20	3.02	75.95	229.52			
7189.50	100.00	50.16	0.01	4.88	0.00	100.00	0.00			
7190.00	100.00	55.35	0.01	4.58	0.00	100.00	0.00			
7190.50	100.00	56.42	0.01	5.08	0.00	100.00	0.00			
7191.00	100.00	54.01	0.01	5.16	0.00	100.00	0.00			
7191.50	100.00	51.63	0.01	5.02	0.00	100.00	0.00			
7192.00	100.00	49.15	0.01	5.38	0.00	100.00	0.00			
7192.50	95.01	45.76	0.35	6.66	4.42	44.74	197.75			
7193.00	86.95	41.88	0.10	7.18	5.13	63.18	324.39			
7193.50	88.83	42.78	0.04	6.77	4.68	70.50	329.65			
7194.00	94.32	45.42	0.03	6.18	3.96	65.37	258.64			
7194.50	98.83	47.59	0.18	5.59	3.26	40.92	133.41			
7195.00	100.00	49.73	0.01	5.00	0.00	100.00	0.00			
7195.50	100.00	49.85	0.01	4.21	0.00	100.00	0.00			
7196.00	97.44	46.92	0.00	4.13	1.84	83.19	152.88			
7196.50	89.50	43.10	0.00	4.33	2.22	100.00	222.33			
7197.00	84.45	40.67	0.00	4.40	2.41	100.00	241.09			
7197.50	83.50	40.21	0.00	4.01	2.04	100.00	203.80			
7198.00	87.07	41.93	0.00	3.46	1.41	100.00	141.03			
7198.50	93.99	45.26	0.00	3.79	1.57	100.00	157.09			
7199.00	96.30	46.38	0.00	4.76	2.49	90.17	224.88			
7199.50	100.00	62.99	0.01	1.90	0.00	100.00	0.00			

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4667-1

COMPUTERIZED
LOG
INTERPRETATION
FOR

MERRIMELIA #10

27-44-31.0S/140-11-04.8E

26/10/83

SCANNED

FIRST FOLD HERE

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATIONS MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES.

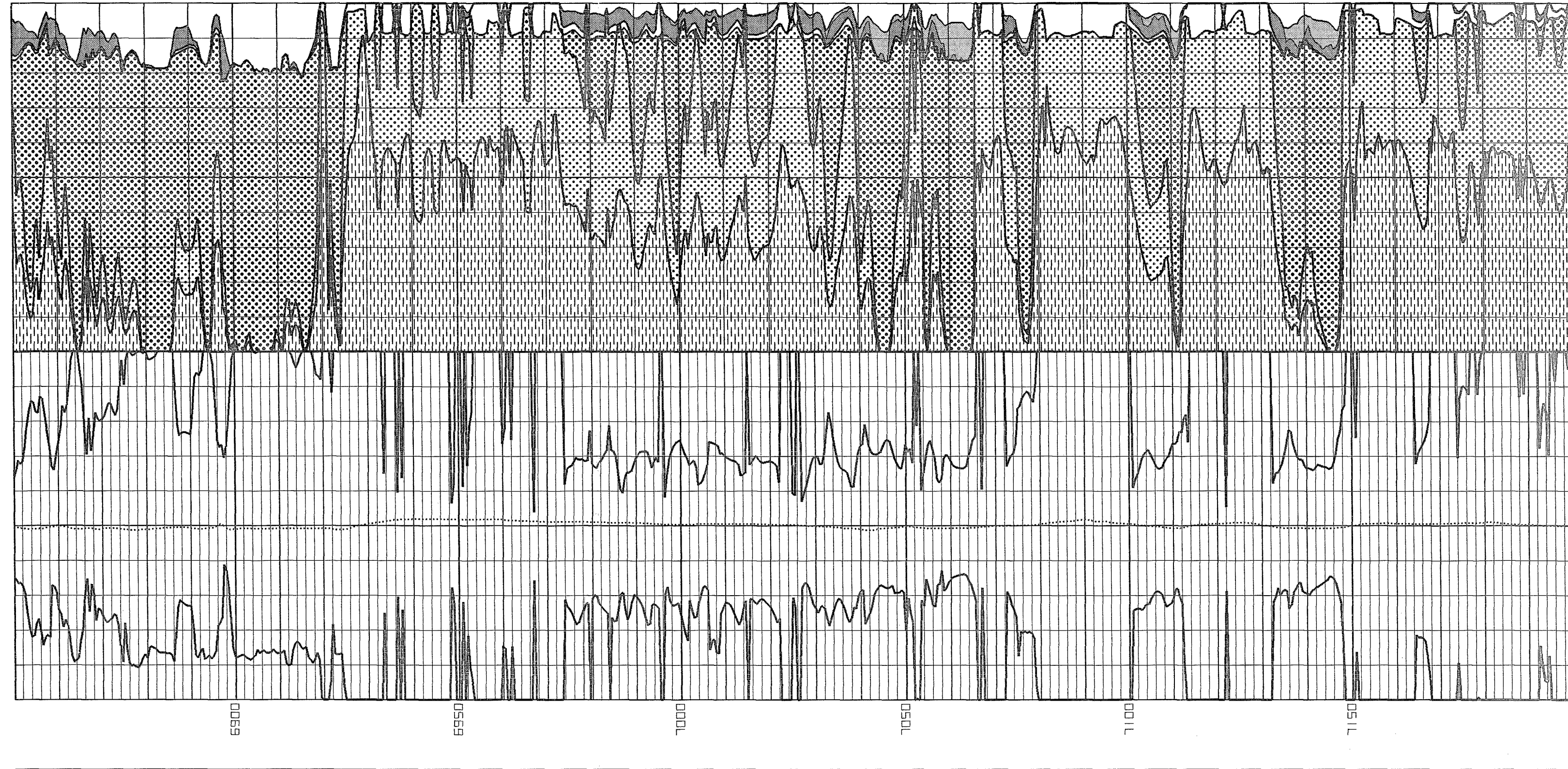
SANDSTONE ANALYSIS

FACTORS USED IN THIS INTERPRETATION

FACTORS USED IN THIS INTERPRETATION																	
TOP	BASE	A	M	N	RA	TEMP	GRAD	GMAX	GMIN	RSH	COR	C G I	RHOG	RHOS	PHIS	PHIC	
6850.00	6970.00	1.00	2.00	2.00	0.620	211.0	1.91	144.0	28.0	18.0	2	1	2	2.650	2.720	14.0	24.
6970.00	7200.00	1.00	2.00	2.00	0.210	213.0	1.91	136.0	48.0	20.0	2	1	2	2.650	2.710	12.0	24.

REMARKS
POROSITY DERIVED FROM NEUTRON/DENSITY XPLT
DATA STORED IN AMELIA-10

DEPTH	PERMEABILITY	WATER SATURATION	BULK VOLUME ANALYSIS					
			CLAY	SILT	SAND	ØZ	ØE	ØESW
.01	1000 0	100						
	DELTA HOLE -8 -4 +4 +8							



COMENT LTD.

MERRIMELIA #10

27-44-31.0S/140-11-04.8E

4667-1

COMPANY DELHI
RIG S-2-17
WELL MERRIMELIA 10
FIELD MERRIMELIA
COUNTRY AUSTRALIA
CO-ORDINATES 27°44'31.0"S 140°11'04.8"E

DEPTH LOGGED FROM SURFACE
TO 7336
DATE LOGGED FROM 9-7-82
TO 22-7-82

GEARHART PTY. LTD
Geodata Services
AUSTRALIA Telephone: (08) 722 3333
No. AH1240300 Telex: AA871

LITHOLOGY
F-MED SANDSTON LIMESTONE GLAUCONITE
CRSE SANDSTONE COAL PYRITE
SILTSTONE CALCAREOUS
CLAYSTONE

ABBREVIATIONS

NCB New bit
NCR New core bit
Coring
CS Casing shoe
SWC Sidewall cores
EL Electric log
RRB Rerun bit
WOB Weight on bit
RPM Revolutions per minute
PP Pump pressure
SPM Strokes per minute
CR Circulated returns
PR Poor returns
NR No returns
TG Trip gas
CG Connection gas
DS Directional survey
WT Wiper trip
POH Pull out of hole
RIH Run in hole
WOW Wait on weather
LAT Logged after trip
LCM Lost circulation material
DC Depth connection
DST Drill stem test

LOGGING ENGINEERS

P. BOULT
D. SHAW
I. PETERS

CHROMATOGRAPH CARLO ERBA 4200
TOTAL GAS RECORDER CARLO ERBA 4200
H₂S RECORDER

INSTRUMENTS CHECKED DAILY

24 HRS. LOGGING SERVICE

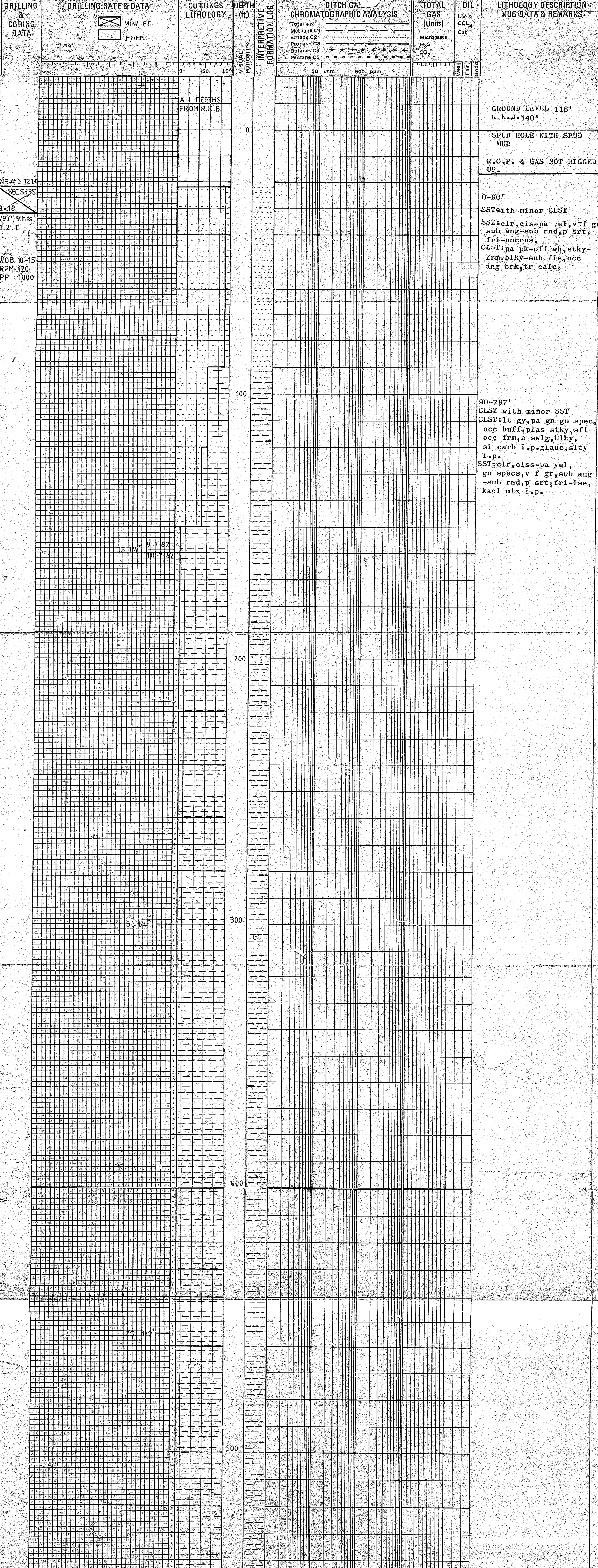
SCALE 1:240

MUD TYPE Variable details specified in drilling rate column

POROSITY (Visible or inferred from texture)

CASING AND HOLE DATA

MUD DATA			MATRIX POROSITY		VUGULAR POROSITY		BIT SIZE	HOLE DEPTH	CASING SIZE	CASING SHOE
W Weight lb/gal	CK Cake thickness 32nd inch	S Salinity gm/ltr Cl	slightly porous < 10%	isolated vugs < 10%	12 1/4"	797'	9 5/8"	791'		
MG Mud gradient psi/1000 ft	SD Sand content % by volume	O Oil content % by volume	porous 10-30%	isolated vugs > 10%	8 1/2"	7336'				
V Funnel viscosity sec/qt	WL Water loss % by volume	SOL Solids content % by volume	Mixed porosity > 10%	visibly interconnected vugs < 10%						
Yield point lbs/100 ft	pl Alkalinity of filtrate	GYP Gypsum total/dissolved								
GEL Gel strength lbs/100 ft										
PH Filtrate API ml/30 minutes										



NB#2 8 1/2
HTC X3A
3x10'
2807,32.5 hrs
4,4,I.

WOB 15
RPM 130
SPM 105
PP 1250

R.O.P. MINS/FT
1 2 3 4 5 6

GAS ANAL. PPM TOTAL GAS
50 500 5000 UNITS

797'-900'
CLST with interbedded
SLTST & SST + tr COAL
SLTST:pa gn-med brn,frm,
blk, tr glauc, tr carb
flects.
SLTST:lt tan-buff,frm,
blk,carb flects.
SST:clss-pa yel.v f-f gr
sub ang-occ sub rnd,lse,
glauc.
COAL:blk-dk brn,frm,hkly
frac,lig.

900'-1200'
SST with minor intbd
SLTST & CLST with tr of
COAL & LST
SST:clss,pa gn-gn,f-med
gr,ang-sub rnd,cons-fri-
lse,lithics of gn clst,
coal,med qtz grs,glauc,
tr calc i.p.
SLTST:lt tan-buff,frm,
blk,carb specks,tr glauc.
CLST:pa gn-med brn,frm,
blk, tr glauc, tr carb.
COAL:blk-dk brn,frm,hkly
frac,lig.
LST:med-dk gy/brn,hd,
v ang brk,micrxin.

WOB 15
RPM 130
SPM 105
PP 1250

PP 1450

WOB 15
RPM 130
SPM 105
PP 1450

PP 1450

R.D.P. MIN/5 FT
1 2 3 4 5 6 7 8 9 10

0.5 0

R.D.P. MIN/5 FT
1 2 3 4 5 6 7 8 9 10

0.5 0

1200

1300

1400

1500

1600

1700

1800

GAS ANAL PPM

50 500 5000 10 0

TOTAL GAS

UNITS

10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

50 500 5000 10 0

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1200'-1770'
SLTST & CLST with minor
SST & tr COAL
SLTST:lt gy-lt brn-dk brn
-pa gn,frm,blky,carb flks
sl glauc i.p.
CLST:lt gy-lt brn,pa gn,
sft-frm,blky,carb flecks
SST:clr,clss,pa gn,lt gy
f gr,sub ang-occ sub rnd,
lse-occ cons,glauc,occ
lithics,arg mtx i.p.,
tr pyr,tr carb.
COAL:blk,hd,brit,ang-conc
frac,

1770'-2160'
CLST with minor SST &
tr COAL+ trLST
CLST:lt gy-lt brn-gn-
gy/gn,sft-frm,blky-sub
fis,glauc,occ mica,occ
qtz grs,plant rems i.p.
SST:clr,clss,pa gn,lt gy,
f gr,sub ang-occ sub rnd
lse-occ cons,glauc,occ
lithics,arg mtx i.p.,tr
pyr,tr carb.
COAL:blk,hd,brit,ang-conc
frac.
LST:buff-transl,hd,micxln
ang brk.

PP 1500

WOB 15
RPM 130
SPM 105
PP 1500

ROP HNS/FT

1 2 3 4 5 6 7 8

PP 1550

12' 82"
13' 87"

DS 1/4"

1800

1900

2000

2100

2200

2300

2400

2500

CG

CG

CG

CG

G

G

G

CG

CG

GAS ANAL PPM

50 500 5000 10 0

TOTAL GAS

UNITS

1770'-2160'
CLST with minor SST &
tr COAL+ trLST
CLST:lt gy-lt brn-gn-
gy/gn,sft-frn,blky-sub
fis,glauc,occ mica,occ
qtz grs,plant rams i.p.
SST:clr,clss,pa gn,lt gy,
f gr,sub ang-occ sub rnd
lse-occ cons,glauc,occ
lithics,arg mxi.p.,tr
pyr,tr carb.
COAL:blk,hd,brit,ang-conc
frac.
LST:buff-transl,hd,micxn
ang brk.

2160'-2790'
Interbd CLST,SST,& minor
COALS
CLST:pa-dk gn/brn-buff,
frn,mod hd,blky,sub fis,
ang brk,glauc,occ qtz grs
grdg to sltst i.p.
SST:clr,pa gn,lt gy,f gr,
sub ang-occ sub rnd,lse-
occ cons,tr glauc,occ
lithics,arg mxi.p.,calc
i.p.,tr carb.
COAL:blk,hd,sub vit-vit

WOB 15
RPM 130
SPM 105
PP 1550

WOB 20
PP 1600

WOB 20
RPM 130
SPM 105
PP 1600

ROP MINS/FT

ROP MINS/FT

GAS ANAL

PPM

TOTAL GAS
UNITS

50

500

5000

10

0

MUD DATA
W 9.0, V 75, pH 8

2790'-3232'
Interbd SST, SLTST & CLST
with tr of COAL & LST
SST: lt gy-gy gn, f-v f gr,
sub ang-occ sub rnd, mod
w srt, calc cmt, arg mtx,
hd-fri, glauc, fld lithics
occ carb flecks, tight
vis $\emptyset$, no shows
SLTST: lt-gy/brn, dk-gy, dk-
brn, gy/gn, carb flecks,
calc i.p., frm, blk, y,
CLST: lt brn-dk brn, occ gn
sft-frm, blk, y, carb.
COAL: blk, hd, sub vit.
LST: wh-pa yel, hd, micrxln,
occ shell frags.

WOB 15
PP 1650

WOB 15
RPM 130
SPM 105
PP 1700

NB#3 8 1/2
HTC J03
3x10
1267' 27 1/2 Hrs
4.5.1
13.7.02
14.7.02
DS 2°

WOB 20
RPM 130
SPM 105
PP 1750

WOB 20
RPM 130
SPM 105
PP 1800

ROP MINS/FT
1 2 3 4 5 6 8

ROP MINS/FT
1 2 3 4 5 6 8

ROP MINS/FT
1 2 3 4 5 6 8

3100

3200

3300

3400

3500

3600

3700

3800

MARÉE SUBGROUP
3232 K.B 3092 S.S

3232'-3650'
SLTST with thin SST &
thin LST beds
SLTST:dk gy/brn,v sft,
stiky,v arg,v hygro tur-
gid,sl carb.
SST:lt gy-gy gn,f-v f gr,
sub ang-occ sub rnd,hd-
fri,mod w srt,calc cmt
arg mtx,glauc,fld liths
occ carb flecks,tight
vis ϕ ,no show.

CARBIDE RUN CORRECT
2470 STKS

GAS ANAL PPM TOTAL GAS
UNITS
50 500 5000 10 0

MUD DATA
9.8,V 38,PV 5,YP 10,
Gel 9/-,pH 8.5+,Ck 2,
Sol 5,Sd tr,

3650'-3890'
CLST with minor interbd,
SLTST & LST, & tr SST.
CLST:med-dk gy-gy/gn,frm
-sft,blky,carb.
SLTST:med-dk gy-gy/brn-
gn/gy,frm,blky,carb ilk
foss frags.
LST:lt gy/brn,hd,micrxln
calcilutite
SST:lt gy-gy gn,f-v f gr
sub ang-occ sub rnd,hd-
fri,mod w srt,calc cmt,
arg mtx,glauc,fld liths
occ carb flecks,tight ϕ
no shows

GAS ANAL PPM TOTAL GAS
UNITS
50 500 5000

WOB 20
RPM 130
SPM 105
PP 1800

RDP MINS/FT
1 2 3 4 6 8

3800

GAS ANAL PPM
50 500 5000

TOTAL GAS
UNITS

3900

3890'-4080'
CLst:med gy,frm,blky-
sub fis,sl slty,sl glauc

4000

MUD DATA
W 9.4,V 38,PV 9,YP 11,
Gel 8/32,ph 9,F 18,Ck 3
Sol 8,Sd tr

4100

4080'-4310'
Interbd CLST & SLTST
with minor SST laminae
CLST:pa gn-dk gy,frm,
sub fis,ang brk.
SLTST:med gy-dk gy-gy/brn
-gn/gy,frm,blky,carb flk
foss frags.
SST:pa gn-lt gy,frm,sub
ang-sub rnd,sph,tight
arg mtx,glauc.

4200

CHANGE OF SHAKER NO GAS READINGS

RDP MINS/FT
1 2 3 4 6 8

GAS ANAL PPM
50 500 5000

TOTAL GAS
UNITS

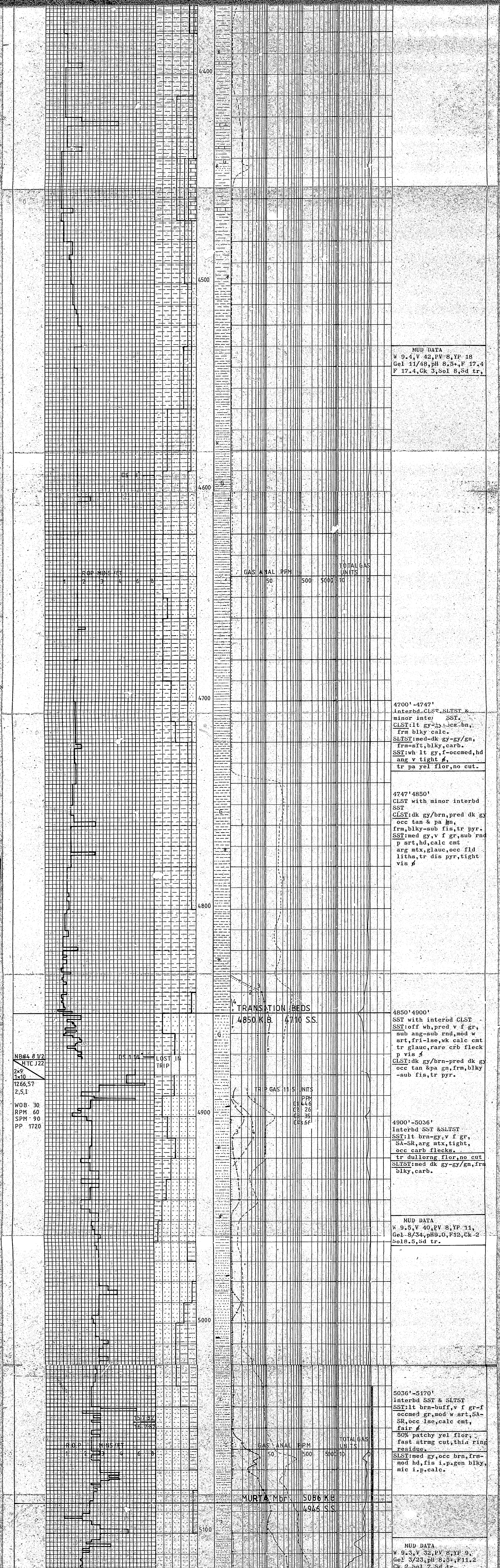
4300

GAS RECALIBRATED

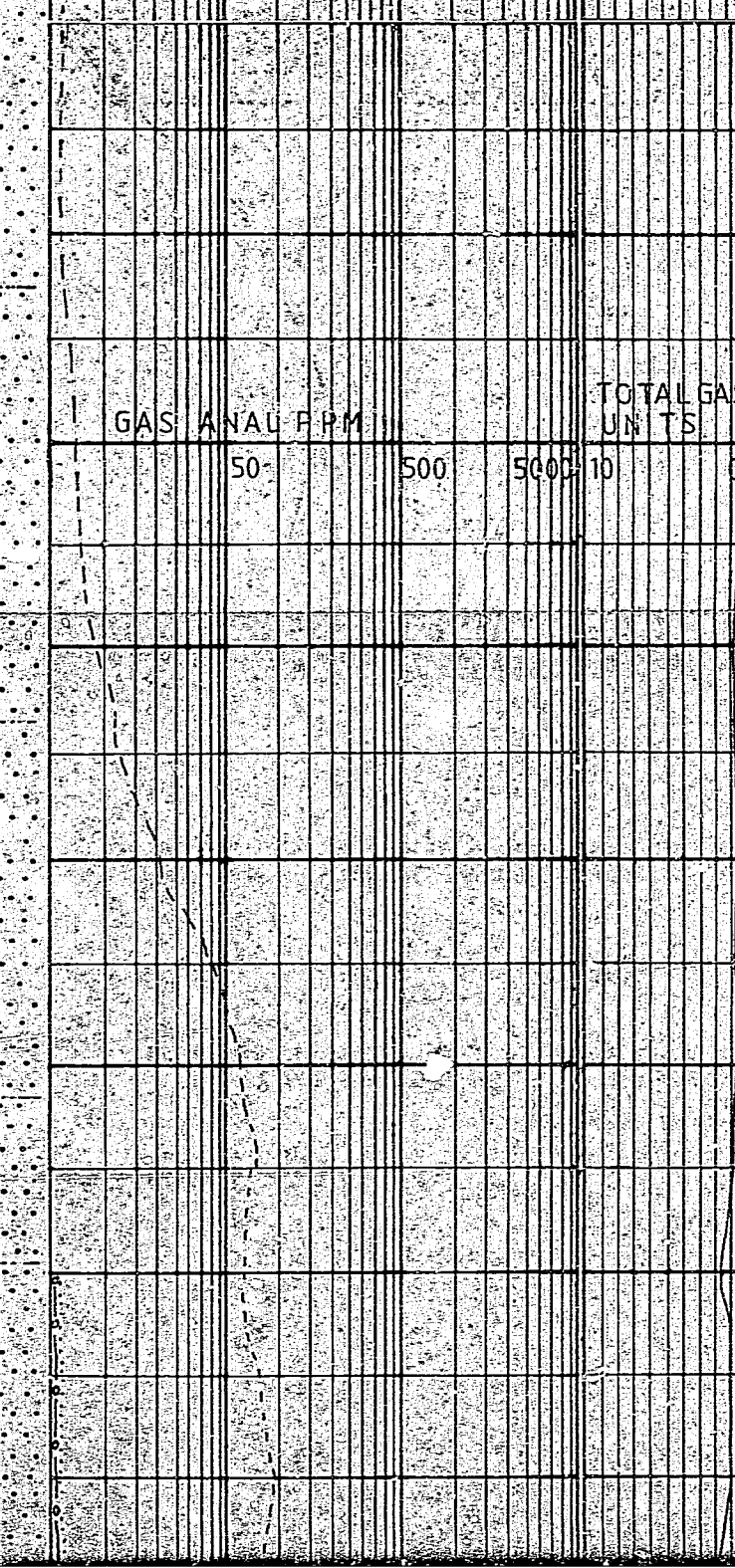
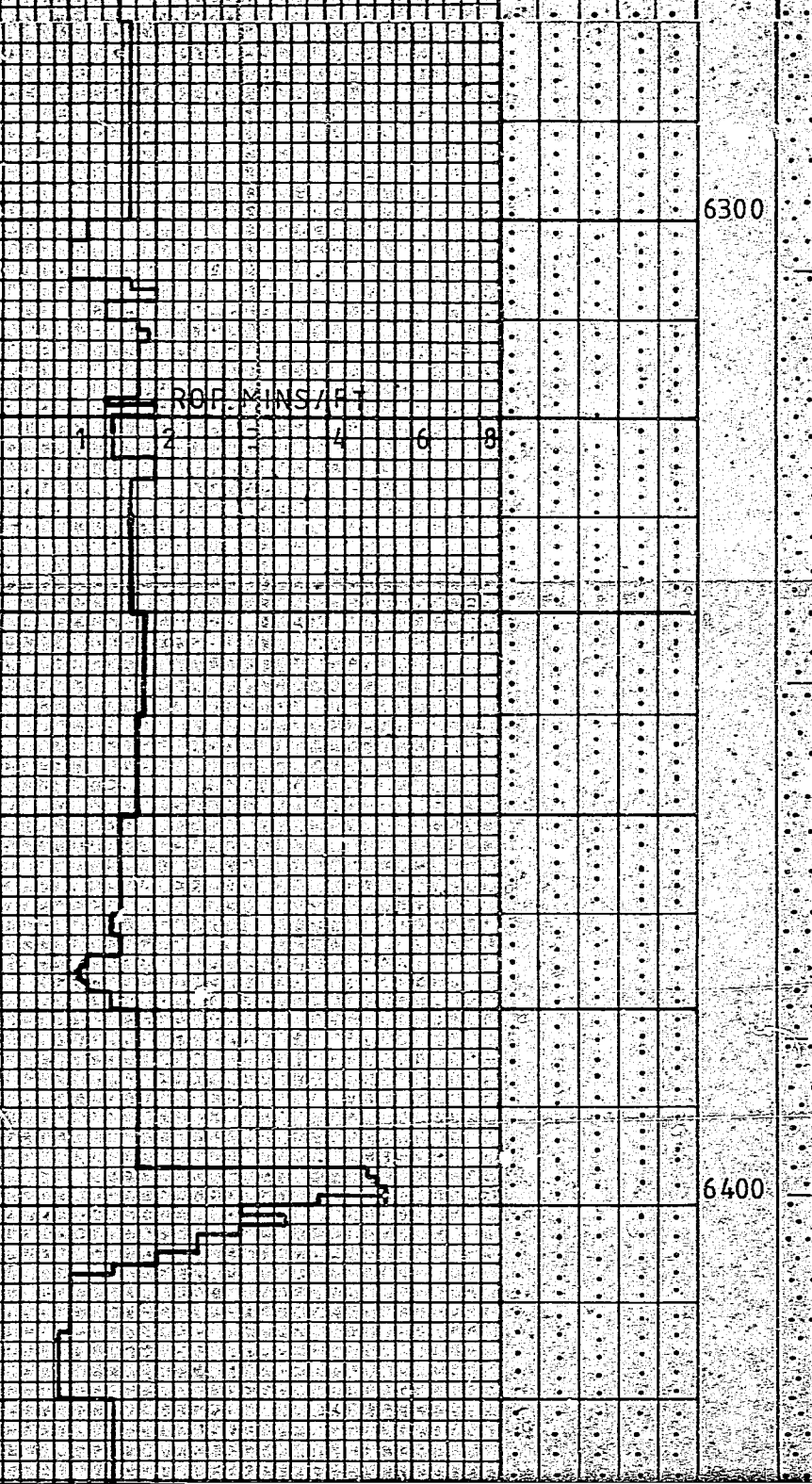
4310'-4700'
Interbd CLST & SLTST's
with minor SST's & LST's
CLST:lt gy-gy,frm,blky,
calc.
SLTST:med-dk gy-gy/gn,frm
-sft,blky,carb.
SST:pa gn-lt gy,frm,sub
ang-sub rnd,sph,tight
arg mtx,tr glauc bcn
calc.
LST:lt gy/brn,hd,ang brk
micrxln.

14-7-82
15-7-82

4400



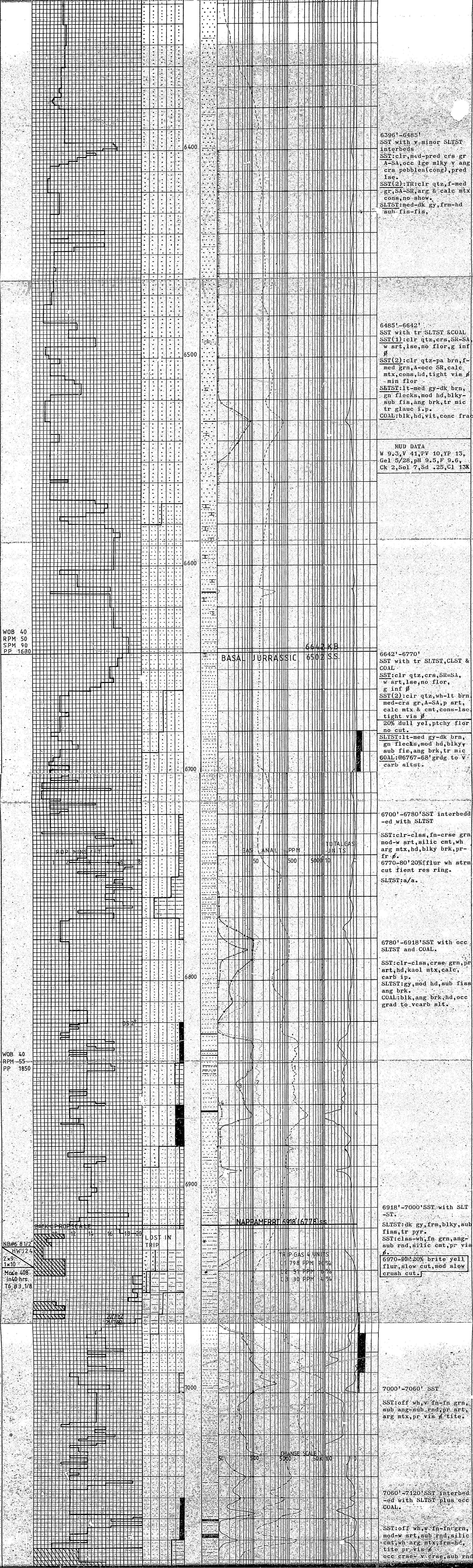
6396!-6485!
SST with v minor SLTST
interbeds
SST:clr, med-pred crs gr
A-SA, occ lge mlky v ang
crs pebbles (cong), pred
lse.
SST(2):TR:clr qtz, f-med
gr, SA-SR, arg & calc mtx
cons, no show.
SLTST-med clay, f-med



TRIP GAS 270 UNITS	
C1	75.7%
C2	15.7%
C3	6.9%
C4	2.0%

NB#581/2
SEC
S86F
2x9
1x10
761,35 hrs.
74,18
WOB 40
RPM 55
SPM 105
PP 1660

ORE 1



NB#6 8 1/2
HW 12 1/4
2x9
1x10
Made 408
in 40 hrs.
T6 B3 1/8

BACK-UP PROP SCALE

LOST IN TRIP

20/7/82
21/7/82

R.O.P. MIN/FT

WOB 45
RPM 60
PP 1900

20/7/82
22/7/82

DRILLERS LOG 7386
SCHLUMBERGER 7386

NAPRAMERPT 6918 (6778) ss

TRIP GAS UNITS
C1 798 PPM 30%
C2 51 PPM 6%
C3 30 PPM 4%

6918'-7000' SST with SLT

-ST.

SLTST:dk gy,frm,blky,sub
fiss, tr pyr.
SST:cls-wh,fn grn,ang-
sub rnd,silic cmt,pr vis
ø.
6970-80% 20% brite yell
flur,slow cut,mod slow
crush cut.

7000'-7060' SST

SST:off wh,v fn-fn grn,
sub ang-sub rnd,pr srt,
arg mtx,pr vis ø tite.

7060'-7120' SST interbed
ed with SLTST plus occ
COAL.

SST:off wh,v fn-fn grn,
mod-w srt,sub rnd,silic
cmt,wh arg mtx,frm-hd,
tite pr vis ø
occ crse- v crse,sub rnd
mod srt,lse,gd ø.
SLTST:dk gy-gy brn,frm,
blky,occ carb flecks,
sub fiss.
COAL:blk,mod hd,sub vit,
ang frac.

7120'-7220' SST with occ
interbedded SLTST.

SST:wh,med-fn grn,sub
rnd-rnd,mod-w srt,mod hd
silic cmt,pr vis ø,
occ crse,rnd grn,lse.
7150-50' dull yell flur,
50% v slow crush cut.

7150-60' 20% brite yell
flur,mod rapid crush cut
thick res ring.

SLTST:dk gy,blky,ang brk
occ fn dissem pyr.

MUD DATA

W9.6 V 42 PV 12 YP 14
GELS 2/28 pH 9.2 F 9.8
Ck-2 GI-16000-Sd-tr

7220'-7336' interbedded
SST,SLTST and CLST.

SST:off wh-lt gy,v fn
grn,sub rnd-rnd,mod-w
srt,silic cmt,tr wh cly
mtx,mod hd-hd,pr vis ø.
SLTST:gy-dk gy,blky,ang
brk,frm-mod hd.
CLST:rd brn,frm,blky,sl
mic,sub fiss ip.

PRE PERMIAN 7236 (7096) ss

E-LOGS UNL, LDL
DL, MFSU, GR, CAL, SLS

000037

PAGE 1

SANTOS LTD
39 GREENFELL ST
ADELAIDE

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS	RUN 01 FIELD MERRIMELIA	WELL 10
EFF DEPTH	WELL STAT	TOOL HUNG 6125'
CASING 7"	CASING PRESS	ON BOTTOM 0730 8/9
LINER	TUBING PRESS	OFF BOTTOM 1330 10/9
DATE 860910	ELEMENT RANGE 0 - 3025	ZERO POINT
ELEVATION	ZONE	SHUT-IN 1330 8/9
MAX TEMP 236.5 °F	PICK-UP	ON-PROD
PERF 6125'-6148'	CAL SER NO. 29386	MPP 6137
TUBING 2-7/8"		
UNITS ENGLISH	PURPOSE BUILD-UP	

SURVEY DATA

CO. SANTOS				RUN 01 FIELD MERRIMELIA				WELL 10			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME				
13:30	2601.4	0.0	0.0	16:02	2728.8	127.4	2.5				
13:31	2630.8	29.4	0.0	22:19	2728.8	127.4	8.8				
13:32	2699.9	98.5	0.0	6:48	2727.8	126.4	17.3				
13:34	2713.0	111.6	0.1	16:47	2726.9	125.5	27.3				
13:35	2718.1	116.7	0.1	2:59	2725.0	123.6	37.5				
13:39	2723.6	122.2	0.2	12:43	2725.1	123.7	47.2				
13:46	2727.9	126.5	0.3	13:30	2705.0	103.6	48.0				
14:02	2728.2	126.8	0.5	0:00	0.0	0.0	0.0				

LUB IN DWT = 182 PSI / OUT = 312 PSI
LUB IN AMERADA = 176 PSI / OUT = 308 PSI



SANTOS LTD
39 GREENHILL ST
ADELAIDE

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS	RUN 02 FIELD MERRIMELIA	WELL 10
EFF DEPTH	WELL STAT	TOOL HUNG 6131'
CASING 7"	CASING PRESS	ON BOTTOM 0730 8/9
LINER	TUBING PRESS	OFF BOTTOM 1330 10/9
DATE 860910	ELEMENT RANGE 0 - 3048	ZERO POINT
ELEVATION	ZONE	SHUT-IN 1330 8/9
MAX TEMP 236.5°F	PICK-UP	ON-PROD
PERF 6125'-6148'	CAL SER NO. 29388	MPP 6137
TUBING 2-7/8"		
UNITS ENGLISH	PURPOSE BUILD-UP	

SURVEY DATA

CO. SANTOS				RUN 02 FIELD MERRIMELIA				WELL 10			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
13:30	2601.8	0.0	0.0	15:16	2729.6	127.8	1.8				
13:31	2628.4	26.7	.0	16:56	2730.4	128.6	3.4				
13:32	2681.1	79.3	.0	21:49	2730.5	128.7	8.3				
13:34	2718.8	117.0	.1	4:48	2729.4	127.6	15.3				
13:40	2724.8	123.0	.2	16:55	2728.4	126.7	27.4				
13:50	2728.3	126.5	.3	3:40	2727.3	125.5	28.2				
14:04	2729.6	127.8	.6	13:30	2727.2	125.4	48.0				
14:23	2729.3	127.5	.9	0:00	0.0	0.0	0.0				

LUB IN DWT = 182 PSI / OUT = 312 PSI
LUB IN AMERADA = 181 PSI / OUT = 321 PSI

CLIENT SANTOS.

WELL MERRIMELA #10

DATE 6TH SEPTEMBER 1986.

PROGRAMME FLOW TEST AND BUILD UP SURVEY PROGRAM.

PURPOSE OF WORK BLIND BOX RUN.

REPORT OF WORK PERFORMED

6TH SEPT 1986

16.30 - S.W.I. AND RIG IN SWAB VALVE PUT WELL BACK ON LINE.

7TH SEPT 1986

09.00 - RIG IN .082" W/LINE UNIT AND PRESSURE TEST EQUIPMENT - O.K.

10.00 - R.I.H WITH 1.75" BLIND BOX.

10.35 - TAG T.D @ 7263'KB - RECHECK DEPTH AND P.O.O.H.

11.00 - ARRIVE LUB AND CHANGE TOOLSTRING TO RUN AMERADAS.

13.36 - R.I.H WITH BHP/BHT GAUGES FOR FLOWING GRADIENT AS PER PROGRAM WITH WELL FLOWING ON 24/64" 180 PSI FTHP.

14.55 P.O.O.H - TOOL STRING HANGING UP IN END OF TUBING - WORK WIRE TO TRY AND ENTER TUBING. TOOL STRING STILL HANGING UP @ 6074'KB.

15.25 - S.W.I. - PULL UP INTO TUBING AND PASS THROUGH TWICE.

15.30 - P.O.O.H. - 299 PSI SITP.

15.40 - PUT WELL BACK ON LINE - RESTART TEST IN SATELLITE.

15.47 - ARRIVE LUB. 131 PSI FTHP.

16.02 - DEP LUB - 169 FTHP - SECURE LEASE OVERNIGHT.

8TH SEPT 1986

07.06 - R.I.H WITH BHP/BHT GAUGES TO SURVEY DEPTH OF 6137'KB AND FLOW WELL ON 24/64" FOR 6 HRS PRIOR TO STARTING 48HR BUILD UP.

13.30 - S.W.I. COMMENCE 48HR BUILD UP.

10TH SEPT 1986

13.30 - BONDS OFF BOTTOM - END OF BUILD UP.

- DEP LUB - END OF SURVEY.



Operator's Signature

WORKED PERFORMED BY G. GIANCASPRO / P. BOWYER OF EXPERTEST.

WELL DATA:

Tubing Size 2 7/8" FWHP 181 PSI 8.9.86 SIWHP 10.9.86

Subsurface S.V./Landing Nipple @ S.S.D. @

'X' Nipple @ 'N'/'X' Nipple @ 6066'KB Other @

Min. I.D. 2.205" @ 6066'KB Packer @ 6052'

Perforated Interval: 6125' - 6148'KB

WELL: ...MERRIDALEA...#10.....

OPERATOR: ...G..GIANCASPRO.....



SANTOS LTD

WELL TEST DATA

- METRIC SUMMARY SHEET

DATE: ...7TH SEPTEMBER 1986...

PAGE No: ...ONE.....

DATE TIME	WELLHEAD						FLUID PRODUCTION				GAS PRODUCTION			
	CASING FSI	CASING KPA	TUBING PSI	TUBING KPA	TEMP °F	TEMP °C	FLOWRATE OIL-COND BBL'S/D	FLOWRATE OIL-COND M3/D	FLOWRATE H2O BBL'S/D	FLOWRATE H2O M3/D	MMSCF/D	Mm3/D	G.O.R. Cu/FT BBL	G.O.R. M3/M3
7 TH SEPTEMBER 1986														
27.30	33	227	181	1248	145	63	BOMBS ON BOTTOM @ 6137' - FLOW WELL ON				2 1/4 CHOKED FOR 6 HRS PRIOR TO			
28.30	35	241	181	1248	149	65	S.W.I. FOR 48 HR BUILD UP.							
29.30	33	227	180	1241	149	65								
30.30	33	227	180	1241	149	65								
11.30	33	227	181	1248	151	66								
12.30	33	227	180	1241	153	67								
3.30	33	227	181	1248	153	67	S.W.I. COMMENCE 48 HR BUILD UP.							
3.35	33	227	302	2082										
3.40	31	213	306	2109										
3.45	30	206	307	2116										
4.00	28	193	312	2151										

CONVERSION FACTORS:

• BBL'S x 0.15899 = M³

• MMSCF x 28.174 = 10³ M³

• Cu/FT PER BBL x 0.1773 = M³/M³

• PSI x 6.895 = KPA

• °C x 9 ÷ 5 + 32 = °F

000041

WELL: ...MERRIMELA #10.....

OPERATOR: ...G. GIANCAPPRA.....



SANTOS LTD

WELL TEST DATA

METRIC SUMMARY SHEET

DATE: ...7TH SEPTEMBER 1986...

PAGE No: ...Two.....

DATE TIME	WELLHEAD						FLUID PRODUCTION				GAS PRODUCTION			
	CASING FSI	CASING KPA	TUBING PSI	TUBING KPA	TEMP °F	TEMP °C	FLOWRATE OIL-COND BBL'S/D	FLOWRATE OIL-COND M ³ /D	FLOWRATE H ₂ O BBL'S/D	FLOWRATE H ₂ O M ³ /D	MMSCF/D	Mm ³ /D	G.O.R. Cu/FT BBL	G.O.R. M ³ /M ³
7 TH SEPTEMBER 1986							CONTINUE BUILD UP						HRS SHUT IN.	
14.15	26	179	315	2171										
14.30	24	165	316	2178										1.
14.45	23	158	316	2178										
15.00	23	158	317	2185										
15.15	20	137	315	2171										
15.30	19	131	314	2165										2.
15.45	19	131	314	2165										
16.00	19	131	314	2165										
16.15	19	131	313	2158										
16.30	17	117	313	2158										3.
16.45	19	131	314	2165										

CONVERSION FACTORS:

• BBL'S x 0.15899 = M³

• MMSCF x 28.174 = 10³ M³

• Cu/FT PER BBL x 0.1773 = M³/M³

• PSI x 6.895 = KPA

• °C x 9 ÷ 5 + 32 = °F

000042

WELL: ...MERRIMELA...#10.....

OPERATOR: ...G. GIANCASPRO.....



SANTOS LTD WELL TEST DATA METRIC SUMMARY SHEET

DATE: ...7TH SEPTEMBER 1986...

PAGE No: ...THREE.....

DATE TIME	WELLHEAD						FLUID PRODUCTION				GAS PRODUCTION			
	CASING PSI	CASING KPA	TUBING PSI	TUBING KPA	TEMP °F	TEMP °C	FLOWRATE OIL-COND BBL'S/D	FLOWRATE OIL-COND M3/D	FLOWRATE H2O BBL'S/D	FLOWRATE H2O M3/D	MMSCF/D	Mm3/D	G.O.R. Cu/FT BBL	G.O.R. M3/M3
1 TH SEPTEMBER 1986							CONTINUE BUILD UP						HRS SHUT IN.	
7.00	16	110	312.	2151										
7.15	18	124	312	2151.										
7.30	15	103	311	2144.			COMMENCE 4 HRLY READINGS.							4.
11.30	12	83	304	2096										8
3 TH SEPTEMBER 1986														
1.30	9	62	304	2096										12
5.30	7	48	303.	2089.										16
9.30	7	48	303.	2089										20
3.30	10	69.	306	2109.										24
7.30	6.	41.	305	2102.										28
11.30	5	34.	307.	2116.										32.

CONVERSION FACTORS:

• BBL'S x 0.15899 = M³

• MMSCF x 28.174 = 10³ M³

• Cu/FT PER BBL x 0.1773 = M³/M³

• PSI x 6.895 = KPA

• °C x 9 ÷ 5 + 32 = °F

000043

WELL: ...MERRINEUA #1D.....

OPERATOR: G. GIANCAS PRO.....



SANTOS LTD WELL TEST DATA METRIC SUMMARY SHEET

DATE: 10TH SEPTEMBER 1986....

PAGE No: FOUR.....

DATE TIME	WELLHEAD						FLUID PRODUCTION				GAS PRODUCTION			
	CASING PSI	CASING KPA	TUBING PSI	TUBING KPA	TEMP °F	TEMP °C	FLOWRATE OIL-COND BBL'S/D	FLOWRATE OIL-COND M ³ /D	FLOWRATE H ₂ O BBL'S/D	FLOWRATE H ₂ O M ³ /D	MMSCF/D	Mm ³ /D	G.O.R. Cu/FT BBL	G.O.R. M ³ /M ³
9 TH SEPTEMBER 1986							CONTINUE BUILD UP						HRS SHUT IN	
21.30	4	27	305	2102										36
25.30	6	41	306	2109										40
29.30	5	34	307	2116										44
3.30	5	34	311	2144			BOMBS OFF BOTTOM - END OF BUILD UP							48
4.55	4	27	312	2151			DEPRESSURE LUB - END OF SURVEY							
							174.35	27.72	619.41	98.48	.029	.825	167.85	29.76
							GAS AND LIQUID PRODUCTION RATES ARE AN AVERAGE RATE OVER A 2 1/2 HR TEST							
							PERIOD CONDUCTED IN SATELLITE							

CONVERSION FACTORS:

• BBL'S x 0.15899 = M³

• MMSCF x 28.174 = 10³ M³

• Cu/FT PER BBL x 0.1773 = M³/M³

• PSI x 6.895 = KPA

• °C x 9 ÷ 5 + 32 = °F

000044



WELL TEST DATA SHEET

000045

WELL:

OPERATION:

DATE (Start Test): 7-9-86

METER RUN I.D.: 97.18 / 102.26 mm

TEST SEPARATOR: Memmelau

ORIFICE PLATE: 11.113 mm

TEST LINE: M[#] 10

FLOW COMPUTER CONSTANT: Factor 39.00

TO START TEST: TIME PIG LAUNCHED: TIME RECEIVED:

TO END TEST: TIME PIG LAUNCHED: TIME RECEIVED:

TIME	WELLHEAD		SATELLITE DATA								
	FTP kPa	CHOKE SIZE 64ths	SEP. OIL TEMP °C	LIQUIDS			GAS				
				NOA		TOTALIZED WATER m³	STATIC PRESS. kPa	DIFF. PRESS. kPa	TEMP. °C	INDICATED FLOW RATE m³ x 10³/d	TOTALIZED FLOW m³ x 10³
				Gross NET OIL m³	NET WATER m³						
7-9-86											
1600	1240	24	68	0	NA	0	260	228	32	-	0
8-9-86											
1330	1240	24	68	24.84	NA	88.23	260	4.68	33	-	0.825
(A) 21.10	TOTALS			(B) OIL	(C)	(D)	(E)				(F) GAS
	(final minus Initial)			24.84	NA	88.23	= TOTAL WATER				0.825

COMMENTS: Target + 3% : 127.7 + 3% : 133.4 actual over 24 hr period : 126.2 m³
Data compiled in conjunction with Exported programme - Well SI 21330 - 21330

PRODUCTION ENGINEERING DEPARTMENT USE ONLY

CALCULATIONS

SUMMARY

(1) STOCK TANK OIL

m³/d

000046



**** MERRIMELIA #10 ****
FLOWING PRESSURE GRADIENT

TEST DATE: 7.9.86

DEPTH (FT.)	TOP PRESSURE ELEMENT 29386/2975			BOTTOM PRESSURE ELEMENT 29388/3000		
	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)	DEFLECTION (INCHES)	PRESSURE (PSIG)	GRADIENT (PSI/FT)
LUB	0.1190	171.3	----	0.1195	182.7	----
1000	0.3685	545.9	0.3746	0.3660	555.8	0.3731
2000	0.6355	947.4	0.4015	0.6295	954.8	0.3990
3000	0.9000	1346.4	0.3990	0.8905	1351.8	0.3969
4000	1.1620	1743.2	0.3968	1.1495	1747.7	0.3959
4500	1.2925	1941.5	0.3966	1.2780	1944.7	0.3940
5000	1.4225	2139.4	0.3959	1.4065	2141.8	0.3942
5500	1.5525	2337.8	0.3968	1.5355	2339.5	0.3955
5800	1.6305	2457.1	0.3975	1.6138	2459.3	0.3994
6137	1.7195	2593.3	0.4043	1.7015	2593.2	0.3973
LUB	0.1150	165.3	----	0.1110	169.8	----

GENERAL REMARKS:

WELL ON TEST THROUGH SATELLITE.

CHOKE SIZE 24/64THS.

WELL RATE 174.35 BBL/D. WATER RATE 619.41 BBL/D. GAS RATE .029 MMSCF/D.

DWT IN: 179

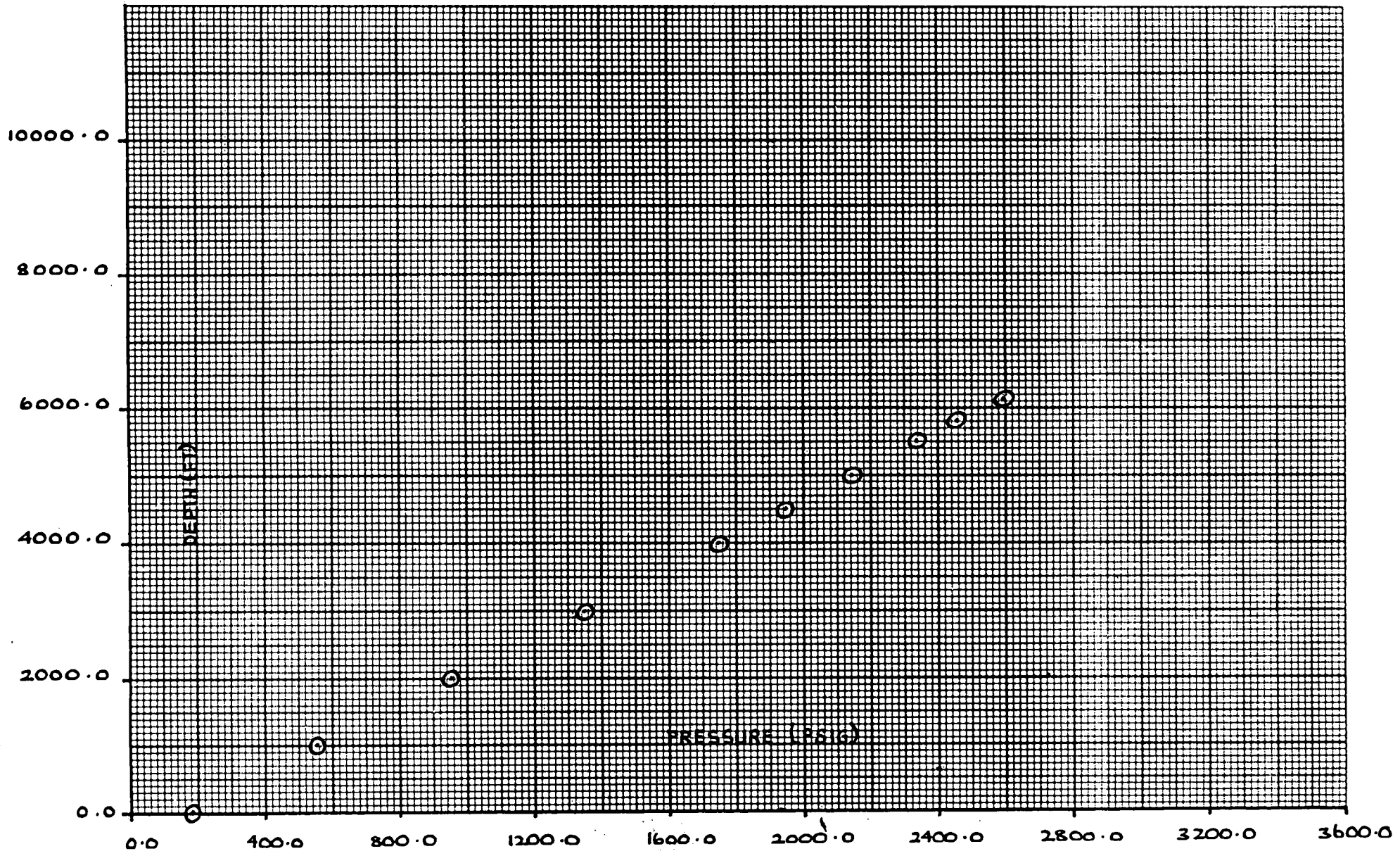
DWT OUT: 169

MAX BHT:

ELEMENT 29386/2975 CALIBRATED 21.8.86
 ELEMENT 29388/3000 CALIBRATED 21.8.86
 TEMP ELEMENT USED IN SURVEY. 63256/150-400F.
 238.5°F

MERRIMELIA # 10 - FLOWING PRESSURE GRADIENT - 7/9/86

ELEMENT # 29388/3000 (BOT)





CLIENT SANTOS

FLOWING ~~STATIC~~ GRADIENT SURVEY

WELL MERRIMELIA #10

OPERATOR G. GIANCASPRO

DATE 7TH SEPTEMBER 1986

TOP BOMB No. 1 DATA					MID BOMB No. 2 DATA					DWT IN 179 PSI	
ELEMENT No.	29386	ELEMENT RANGE	2975 PSI		ELEMENT No.	29388	ELEMENT RANGE	3000 PSI		DWT OUT 169 PSI	
RECORDER No.	61373	157LS	CLOCK DATA	5/N.1 x 3hr	RECORDER No.	61001	157LS	CLOCK DATA	A-12047 x 3hr		
ENGAGE STYLUS	13.14	DISENGAGE	16.08		ENGAGE STYLUS	13.14	DISENGAGE	16.08			
PRESSURE LUBRICATOR	13.21				BLEED LUBRICATOR	16.02					

DATE	TIME	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	REMARKS
7 TH SEPTEMBER 1986										
	13.21	LUB.	.119	171.3		LUB.	.1195	182.7		15 MINUTES.
	13.36	R.I.H.				R.I.H.				
	13.40	1000	.3685	545.9	.3746	1000	.366	555.8	.3731	5 MINUTES.
	13.49	2000	.6355	947.4	.4015	2000	.6295	954.8	.3990	" "
	13.58	3000	.900	1346.4	.3990	3000	.8905	1351.8	.3969	" "
	14.06	4000	1.162	1743.2	.3968	4000	1.1495	1747.7	.3959	" "
	14.12	4500	1.2925	1941.5	.3966	4500	1.278	1944.7	.3940	" "
	14.19	5000	1.4225	2139.4	.3959	5000	1.4065	2141.8	.3942	" "
	14.27	5500	1.5525	2337.8	.3968	5500	1.5355	2339.5	.3955	" "
	14.33	5800	1.6305	2457.1	.3975	5800	1.6138	2459.3	.3994	" "
	14.40	6137'	1.7195	2593.3	.4043	6137	1.7015	2593.2	.3973	15 MINUTES.
	14.55	P.O.O.H.				P.O.O.H.				SEE WILKIE REPORT.
	16.08	LUB.	.115	165.3		LUB.	.111	169.8		15 MINUTES.

GENERAL REMARKS: WELL ON TEST THROUGH SATELLITE.
 GAS RATE .029 MMSCF/D. CHOKE SIZE 2 1/4 THS.
 OIL RATE 174.35 BBLSD.
 WATER RATE 619.41 BBLSD.

TEMP ELEMENT USED IN SURVEY - ELE 63256 x 150' - 400'
 REL 61275 x 157LS
 CLOCK 2530 x 3hr

STYLUS ON 13.14
 STYLUS OFF 16.08

000048