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NUMBER 7129/2

PPL 17

EROMANGA AND COOPER BASINS

PELICAN 2

TEST REPORTS

Submitted by

Santos Ltd
1993

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MINES AND ENERGY
SOUTH AUSTRALIA

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ENVELOPE 7129/2

TENEMENT: PPL 17; Eromanga and Cooper Basins

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

CONTENTS OF VOLUME ONE

		MESA NO.
REPORTS:	**Halliburton Services, 1988.** Formation testing service report, DST 2 (31/8/88).	**7129/2 R 1** Pgs 3-14
	Halliburton Services, 1988. Formation testing service report, DST 4 (15/9/88).	**7129/2 R 2** Pgs 15-28
	Campbell, R. and Mueller, M., 1989. Field maintenance contractor's results of the modified isochronal gas production test, reservoir pressure buildup and static pressure gradient surveys of the Toolachee Formation gas reservoir perforated interval 7807-7877 feet KB [the Upper producing zone], conducted over the period 27/11/89 - 11/12/89 (Expertest Pty Ltd).	**7129/2 R 3** Pgs 29-70
	Mueller, M., Chapman, T., McAllister, D.J. and Moore, R., 1990. Field maintenance contractor's production [surface flow pressure] results of the modified isochronal gas production test, reservoir pressure buildup and static pressure gradient surveys of the Patchawarra Formation gas reservoir perforated interval 8127-8555 feet KB [the Lower producing zone], conducted over the period 21/12/89 - 7/1/90 (Expertest Pty Ltd).	**7129/2 R 4** Pgs 71-120
	Metcalfe, J. and Chapman, T., 1990. Field maintenance contractor's electronic bottomhole pressure/temperature [BHP/BHT] survey results for the above modified isochronal gas production test of the Lower producing zone, obtained over the period 23/12/89 - 7/1/90 (Expertest Pty Ltd).	**7129/2 R 5** Pgs 121-219
	Santos Ltd, 1991. Operator's well test summary and well deliverability calculations for the above modified isochronal gas production test of the Lower producing zone (March 1991).	**7129/2 R 6** Pgs 220-231
	Moore, R., 1990. Field maintenance contractor's results for two static pressure gradient surveys of the Lower producing zone, conducted on 17/2/90 and 19/2/90 (Expertest Pty Ltd).	**7129/2 R 7** Pgs 232-243
	Mueller, M., 1990. Field maintenance contractor's results for the reservoir pressure monitoring buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 25-30/9/90 (Expertest Pty Ltd).	**7129/2 R 8** Pgs 244-256
	Mueller, M., 1990. Field maintenance contractor's results for the reservoir pressure monitoring buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 30/9/90 - 5/10/90 (Expertest Pty Ltd).	**7129/2 R 9** Pgs 257-271

CONTENTS OF VOLUME TWO

		MESA NO.
REPORTS:	**Bon, J.G., 1990.** Analytical contractor's results for the reservoir fluid PVT study of samples taken in December 1989 from the Lower producing zone during the modified isochronal test (Petrolab, 12/9/90).	**7129/2 R 10** Pgs 272-288
	Briancourt, W., 1991. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 16-21/8/91 (Expertest Pty Ltd).	**7129/2 R 11** Pgs 289-300
	Grindlay, A., 1991. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 22-31/8/91 (Expertest Pty Ltd).	**7129/2 R 12** Pgs 301-314
	Kurasiak, I., 1992. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 1-7/9/92 (Expertest Pty Ltd).	**7129/2 R 13** Pgs 315-326
	Bowyer, P., 1992. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 7-13/9/92 (Expertest Pty Ltd).	**7129/2 R 14** Pgs 327-338
	Keane, K., 1993. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 10-16/7/93 (Expertest Pty Ltd).	**7129/2 R 15** Pgs 339-350
	Hull, B., Keane, K. and Black, P., 1993. Field maintenance contractor's results for the liquids evaluation test plus reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 14-23/7/93 (Expertest Pty Ltd).	**7129/2 R 16** Pgs 351-373

END OF CONTENTS

HALLIBURTON SERVICES

TICKET NO. 35654500
31-AUG-88
MOOMBA

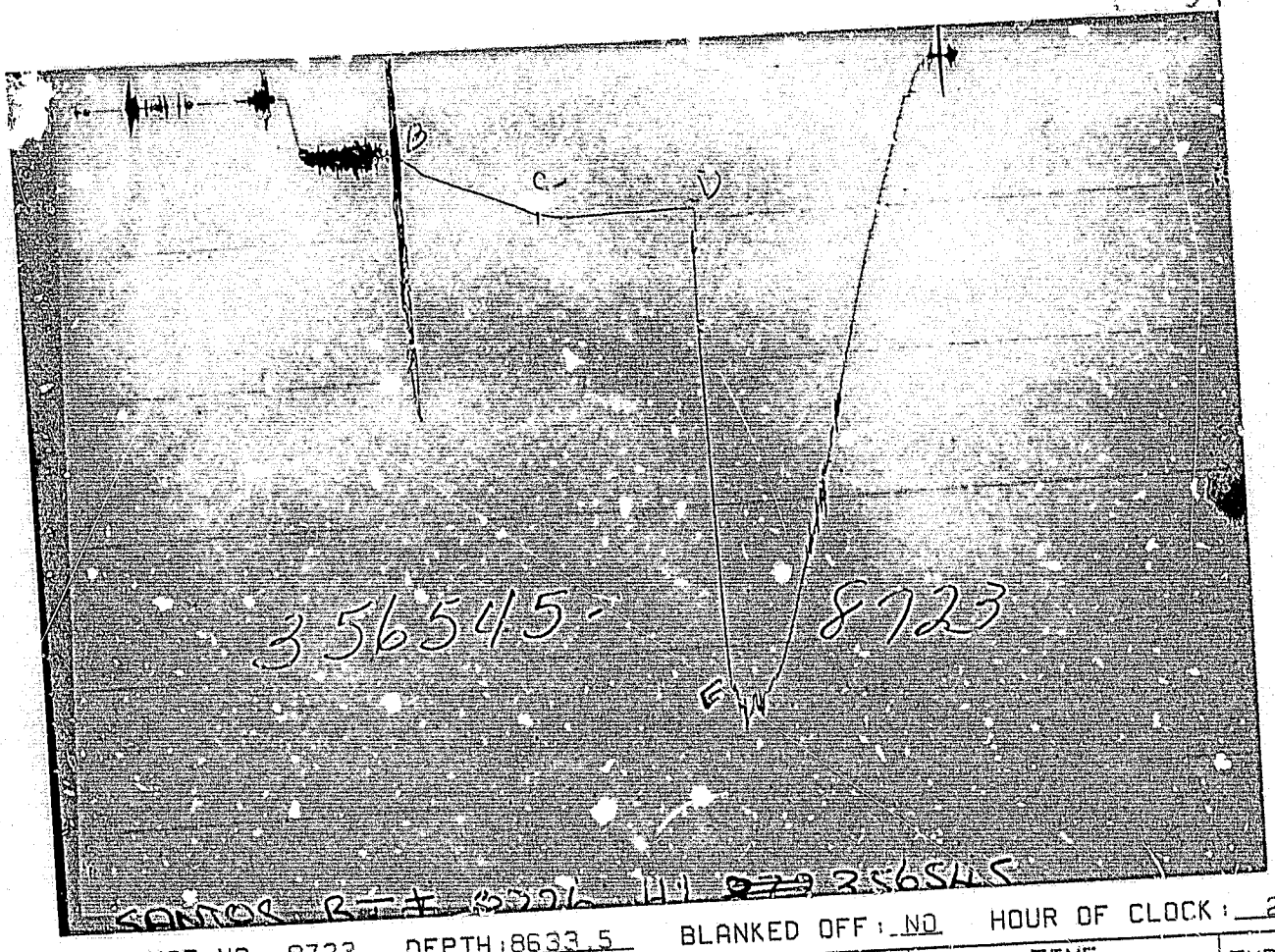
PELICAN	2	2	8677.7 - 8900.0
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL

LEGAL LOCATION SEC. - TWP. - RNG.	SEE REMARKS	COOPER BASIN	SOUTH AUSTRALIA	SANTOS LTD.
		FIELD AREA	COUNTY	LEASE OWNER/COMPANY NAME

		SM
	STATE AUSTRALIA	

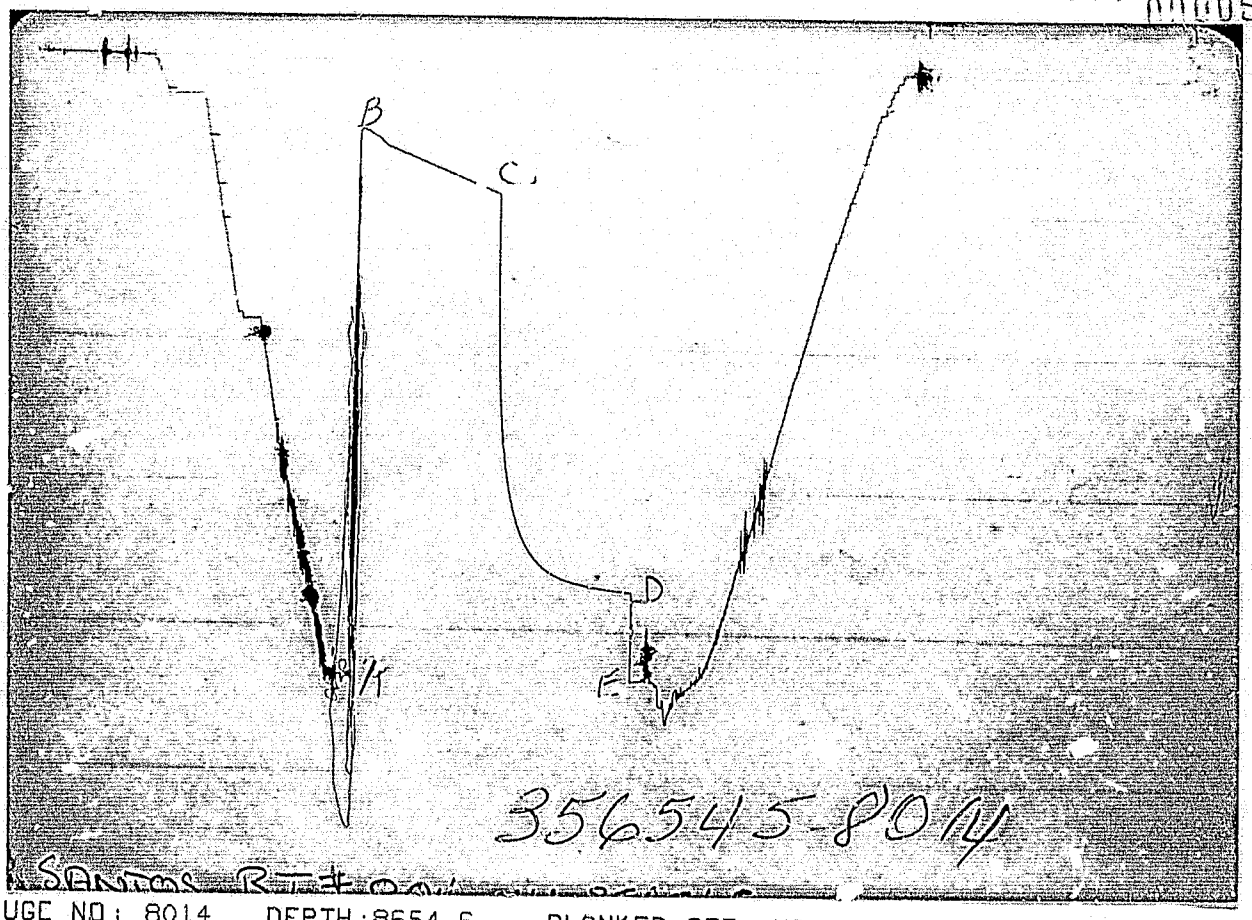
7/29/2

FORMATION TESTING SERVICE REPORT



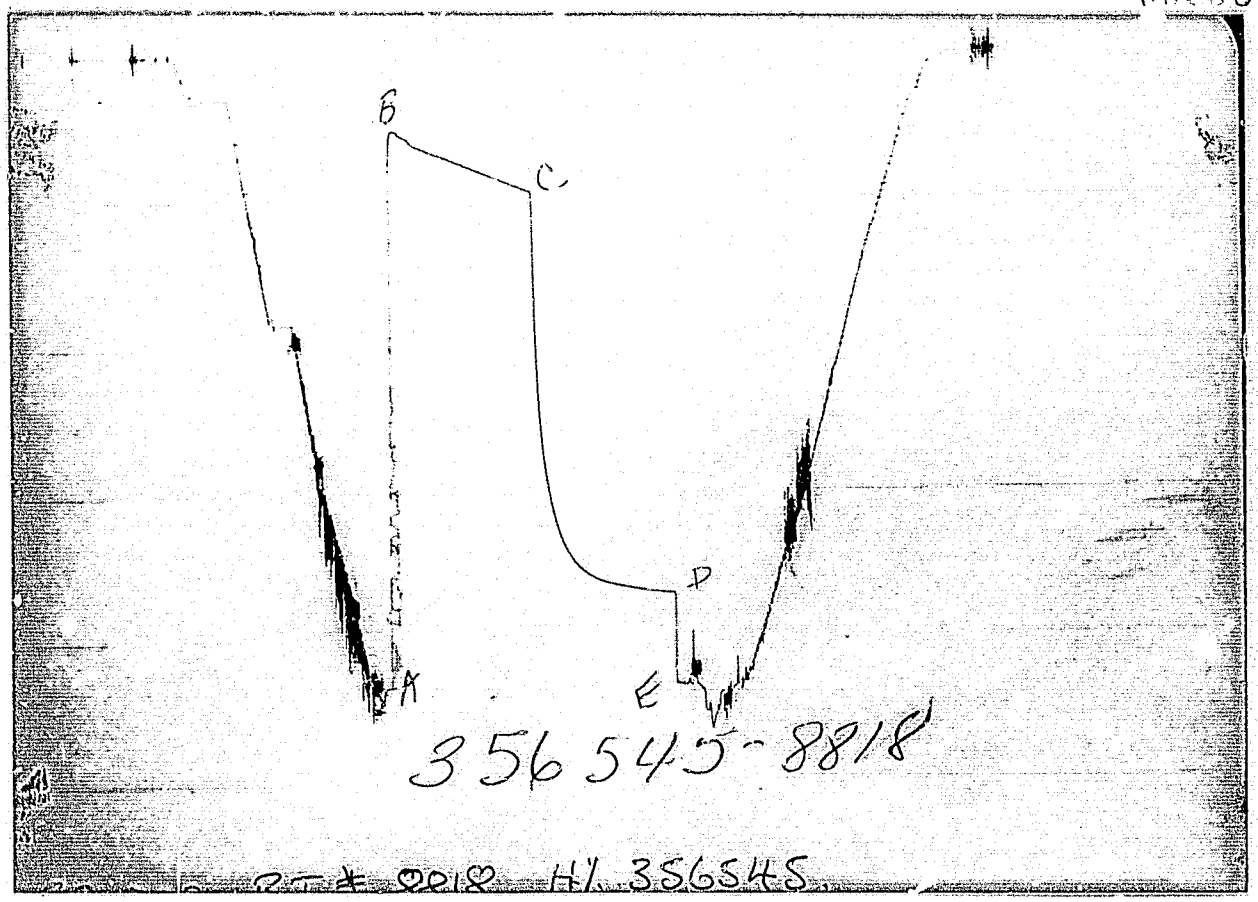
GAUGE NO: 8723 DEPTH: 8633.5 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW		447.5	180 0	182.2	F
C	FINAL FIRST FLOW		904.8			
C	INITIAL FIRST CLOSED-IN		904.8	180.0	177.8	C
D	FINAL FIRST CLOSED-IN	924	929.4			
E	FINAL HYDROSTATIC		4312.6			
F	HYDROSTATIC RELEASE					



GAUGE NO: 8014 DEPTH: 8654.6 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYD. STATIC	4321	4336.7			
B	INITIAL FIRST FLOW	515	505.2	180.0	182.2	F
C	FINAL FIRST FLOW	921	933.8			
C	INITIAL FIRST CLOSED-IN	921	933.8	180.0	177.8	C
D	FINAL FIRST CLOSED-IN	3711	3724.8			
E	FINAL HYDROSTATIC	4325	4335.7			
F	HYDROSTATIC RELEASE					



GAUGE NO: 8818 DEPTH: 8713.1 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4336	4345.0			
B	INITIAL FIRST FLOW	583	582.6	180.0	182.2	F
C	FINAL FIRST FLOW	961	959.8			
C	INITIAL FIRST CLOSED-IN	961	959.8	180.0	177.8	C
D	FINAL FIRST CLOSED-IN	3712	3707.7			
E	FINAL HYDROSTATIC	4345	4333.2			
F	HYDROSTATIC RELEASE					

GAUGE NO: 3288 DEPTH: 8924.0 BLANKED OFF: YES HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4468	4482.4			
B	INITIAL FIRST FLOW					
C	FINAL FIRST FLOW			180.0		F
C	INITIAL FIRST CLOSED-IN					
D	FINAL FIRST CLOSED IN			180.0		C
E	FINAL HYDROSTATIC	4477	4480.0			
F	HYDROSTATIC RELEASE		4488.9			

122

0098

EQUIPMENT & HOLE DATA

FORMATION TESTED: TIRRAWARRA
NET PAY (ft): _____
GROSS TESTED FOOTAGE: 222.3
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft): _____
HOLE OR CASING SIZE (in): 8.500
ELEVATION (ft): 133.0
TOTAL DEPTH (ft): 8926.0
PACKER DEPTH(S) (ft): 8670 18, 8900, 8907
FINAL SURFACE CHOKE (in): 0.50000
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.40
MUD VISCOSITY (sec): _____
ESTIMATED HOLE TEMP. (°F): _____
ACTUAL HOLE TEMP. (°F): 260 @ 8896.0 ft

TICKET NUMBER: 35654500
DATE: 3-7-88 TEST NO: 2
TYPE DST: ON BTM STRADDLE
HALLIBURTON CAMP: MOOMBA
TESTER: N. COWLEY
WITNESS: RAY EEL
DRILLING CONTRACTOR: ATCO RIG #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ ____ °F	_____ ppm
_____	_____ @ ____ °F	_____ ppm
_____	_____ @ ____ °F	_____ ppm
_____	_____ @ ____ °F	_____ ppm
_____	_____ @ ____ °F	_____ ppm
_____	_____ @ ____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: _____
cu.ft. OF GAS: _____
cc OF OIL: _____
cc OF WATER: _____
cc OF MUD: _____
TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ ____ °F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
WATER (FT)	1000.0	8.34

RECOVERED:

1000 FEET OF WATER CUSHION
1600 FEET OF OILY, WATERY, EMULSION

MEASURED FROM TESTER VALVE

REMARKS:

LEGAL LOCATION: 027 DEG 18' 13"S. LAT.
140 DEG 04' 53"E LONG

TYPE & SIZE MEASURING DEVICE: 6" CERAMIC CHOKE | TICKET NO: 35654500

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
3-7-88					
0210					PICKED UP TOOL
0345					TOOL MADE UP AND RAN INTO HOLE
0750					HEAD UP TO FLOOR MANIFOLD
0809					SEATED PACKERS WITH 28,000#
0818	.50				TOOL OPENED WITH WEAK BLOW
0827	.50				BLOW INCREASED TO MODERATE
0831	.50				BLOW INCREASED TO STRONG
0843	.50	6			
0849	.50	19			GAS TO THE SURFACE
0852	.50	18			
0854	.50	17			
0900	.50	11			
0910	.50	7			
0915	.50	4			
0920	.50	3			
0930	.50	2			
1000	.50	2			SLIGHT FLUCTUATION BETWEEN
					1 AND 2 PSI, GAS STI T
					SURFACE
1030	.50	2			
1100	.50	2			
1118		3			CLOSED TOOL FOR CLOSED IN
					PERIOD
1418					OPENED BYPASS, PACKERS FREE
1436					DROPPED BAR TO REVERSE
1438					PIN BROKE, STARTED REVERSING
					PUMPED PILL AND PULLED OUT OF
					HOLE
1950					TOOL AT FLOOR, STARTED
					BREAKING DOWN
2200					TOOL BROK DOWN AND LAID OUT
					JOB COMPLETED

TICKET NO: 35654500

CLOCK NO: 32066 HOUR: 24

GAUGE NO: 8723

DEPTH: 8633.5

	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	443.5			
	2	10.0	477.9	34.4		
	3	20.0	513.3	35.5		
	4	30.0	564.6	51.3		
	5	40.0	594.4	29.7		
	6	50.0	618.6	24.3		
	7	60.0	641.5	22.8		
	8	70.0	665.3	23.8		
	9	80.0	686.7	21.4		
	10	90.0	706.4	19.8		
	11	100.0	726.0	19.6		
	12	110.0	746.0	19.3		
	13	120.0	767.5	21.5		
	14	130.0	789.5	22.0		
	15	140.0	809.5	19.9		
	16	150.0	829.4	19.9		
	17	160.0	854.5	25.1		
	18	170.0	878.5	24.0		
C	19	182.2	904.8	26.4		
			FIRST CLOSED-IN			
C	1	0.0	904.8			
D	2	177.8	929.4	24.6	90.0	0.306

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

TICKET NO: 35654500

CLOCK NO: 12462 HOUR: 24

GAUGE NO: 8014

DEPTH: 8654.6

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	505.2			
	2	10.0	503.8	-1.4		
	3	20.0	537.7	33.8		
	4	30.0	585.3	47.6		
	5	40.0	622.3	37.0		
	6	50.0	644.1	21.8		
	7	60.0	665.0	20.9		
	8	70.0	686.3	21.3		
	9	80.0	709.8	23.5		
	10	90.0	731.9	22.1		
	11	100.0	753.7	21.8		
	12	110.0	773.3	19.6		
	13	120.0	794.8	21.5		
	14	130.0	814.7	19.8		
	15	140.0	838.0	23.5		
	16	150.0	858.3	20.3		
	17	160.0	880.1	21.8		
	18	170.0	904.2	24.2		
C	19	182.2	933.8	29.6		
			FIRST CLOSED-IN			
C	1	0.0	933.8			
	2	1.0	1597.5	663.7	1.0	2.27[illegible]
	3	2.0	1860.9	927.1	2.0	1.965
	4	3.0	2041.4	1107.6	2.9	1.793
	5	4.0	2217.8	1284.0	3.9	1.668
	6	5.0	2338.2	1404.4	4.9	1.573
	7	6.0	2419.9	1486.1	5.8	1.497
	8	7.0	2510.5	1576.7	6.7	1.433
	9	8.0	2588.4	1654.6	7.7	1.377
	10	9.0	2655.0	1721.2	8.6	1.326
	11	10.0	2713.1	1779.3	9.5	1.282
	12	12.0	2805.3	1872.5	11.2	1.211
	13	14.0	2891.0	1957.2	13.0	1.148
	14	16.0	2965.6	2032.8	14.7	1.092
	15	18.0	3030.6	2096.8	16.4	1.047
	16	20.0	3084.5	2150.7	18.0	1.005
	17	22.0	3134.9	2201.1	19.6	0.968
	18	24.0	3180.8	2247.0	21.2	0.935
	19	26.0	3215.5	2281.7	22.8	0.903
	20	28.0	3255.7	2321.9	24.3	0.876
	21	30.0	3289.3	2355.5	25.8	0.849
	22	35.0	3356.5	2422.7	29.3	0.793
	23	40.0	3412.5	2478.8	32.8	0.745
	24	45.0	3457.3	2523.5	36.1	0.703
	25	50.0	3496.4	2562.6	39.3	0.666
	26	55.0	3524.7	2590.9	42.2	0.635
	27	60.0	3550.6	2617.0	45.1	0.606
	28	70.0	3534.1	2660.3	50.6	0.557
	29	80.0	3621.7	2687.9	55.6	0.515
			FIRST CLOSED-IN - CONTINUED			
	30	90.0	3642.8	2709.0	60.2	0.481
	31	100.0	3658.2	2724.4	64.5	0.451
	32	110.0	3671.1	2737.3	68.6	0.424
	33	120.0	3683.1	2749.3	72.4	0.401
	34	135.0	3696.4	2762.6	77.5	0.371
	35	150.0	3707.1	2773.3	82.2	0.345
	36	165.0	3716.3	2782.5	86.6	0.323
D	37	177.8	3724.8	2791.1	90.0	0.306

REMARKS:

TICKET NO: 35654500

CLOCK NO: 30347 HOUR: 24

GAUGE NO: 8818

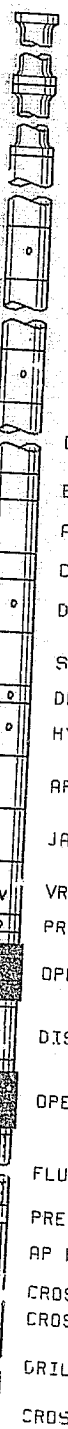
DEPTH: 8713.1

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	582.6			
2	10.0	538.1	-44.5		
3	20.0	579.5	41.4		
4	30.0	624.4	45.0		
5	40.0	652.3	27.9		
6	50.0	677.5	25.2		
7	60.0	696.1	18.6		
8	70.0	716.8	20.7		
9	80.0	738.6	21.8		
10	90.0	758.3	19.7		
11	100.0	778.2	19.9		
12	110.0	797.7	19.5		
13	120.0	819.2	21.5		
14	130.0	840.9	21.7		
15	140.0	863.8	23.0		
16	150.0	885.2	21.3		
17	160.0	907.8	22.6		
18	170.0	930.1	22.3		
C 19	182.2	959.8	29.6		
FIRST CLOSED-IN					
C 1	0.0	959.8			
2	1.0	1442.0	482.2	1.0	2.247
3	2.0	1921.2	961.5	1.9	1.975
4	3.0	2106.9	1147.2	3.0	1.788
5	4.0	2268.	1308.8	3.9	1.672
6	5.0	2400.	1440.9	4.9	1.571
7	6.0	2492.1	1532.3	5.8	1.498
8	7.0	2566.3	1606.6	6.7	1.433
9	8.0	2631.9	1672.1	7.6	1.378
10	9.0	2696.3	1736.6	8.6	1.328
11	10.0	2750.8	1791.0	9.5	1.285
12	12.0	2843.5	1883.7	11.3	1.208
13	14.0	2921.1	1961.3	13.0	1.146
14	16.0	2994.4	2034.7	14.7	1.093
15	18.0	3050.2	2090.4	16.4	1.046
16	20.0	3105.5	2145.7	18.0	1.005
17	22.0	3151.3	2191.5	19.6	0.968
18	24.0	3194.5	2234.7	21.2	0.934
19	26.0	3233.8	2274.0	22.8	0.903
20	28.0	3273.8	2314.0	24.3	0.875
21	30.0	3306.1	2346.4	25.8	0.849
22	35.0	3368.9	2409.2	29.4	0.793
23	40.0	3420.7	2460.9	32.8	0.745
24	45.0	3463.6	2503.8	36.1	0.703
25	50.0	3497.6	2537.8	39.2	0.667
26	55.0	3524.7	2564.9	42.3	0.635
27	60.0	3547.7	2587.9	45.1	0.606
28	70.0	3584.6	2624.9	50.5	0.557
29	80.0	3611.9	2652.2	55.6	0.516

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST CLOSED-IN - CONTINUED					
30	90.0	3630.4	2670.6	60.3	0.480
31	100.0	3644.3	2684.5	64.6	0.451
32	110.0	3656.4	2696.6	68.6	0.424
33	120.0	3666.3	2706.6	72.3	0.401
34	135.0	3681.4	2721.6	77.6	0.371
35	150.0	3692.2	2732.4	82.3	0.345
36	165.1	3702.3	2742.5	86.6	0.323
D 37	177.8	3707.7	2747.9	90.0	0.306

REMARKS:

TICKET NO. 35654500



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.500	3.826	8180.3	
4	FLEX WEIGHT	4.500	2.764	182.7	
3	DRILL COLLARS	6.500	2.813	89.5	
51	PUMP OUT REVERSING SUB	6.000	3.000	1.0	8452.5
3	DRILL COLLARS	6.500	2.812	89.0	
50	IMPACT REVERSING SUB	6.000	3.000	1.0	8542.5
3	DRILL COLLARS	6.500	2.812	89.0	
258	BAR CATCHER SUB	6.000	1.120	1.0	
80	AP RUNNING CASE	5.000	2.250	4.1	8633.5
5	CROSSOVER	5.000	2.250	1.0	
12	DUAL CIP VALVE	5.000	0.870	4.9	
202	SAMPLE CHAMBER	5.000	3.000	4.9	
33	DRAIN VALVE	5.000	2.200	0.9	
60	HYDROSPRING TESTER	5.000	0.750	5.3	8650.4
80	AP RUNNING CASE	5.000	2.250	4.1	8654.6
15	JAR	5.000	1.750	5.0	
16	VR SAFETY JOINT	5.000	2.780	2.8	
17	PRESSURE EQUALIZING CROSSOVER	4.870		1.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8669.8
18	DISTRIBUTOR VALVE	5.000	1.680	2.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8677.7
20	FLUSH JOINT ANCHOR	5.000	2.370	31.0	
17	PRESSURE EQUALIZING CROSSOVER	4.620	2.750	1.0	
80	AP RUNNING CASE	5.000	2.250	4.1	8713.1
5	CROSSOVER	4.800	2.200	1.0	
5	CROSSOVER	6.000	2.250	1.0	
3	DRILL COLLARS	6.500	2.812	179.3	
5	CROSSOVER	6.000	2.250	1.0	

CONTINUED

EQUIPMENT DATA

821
0014

TICKET NO. 35654500

		O.D.	I.D.	LENGTH	DEPTH
5	CROSSOVER	4.800	2.200	1.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8899.7
18	DISTRIBUTOR VALVE	5.000	1.680	2.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8907.1
5	CROSSOVER	4.800	2.200	1.0	
19	ANCHOR PIPE SAFETY JOINT	5.000	1.500	4.3	
20	FLUSH JOINT ANCHOR	5.000	2.370	5.0	
81	BLANKED-OFF RUNNING CASE	5.000		4.1	8924.0
	TOTAL DEPTH				8926.0

EQUIPMENT DATA

HALLIBURTON SERVICES

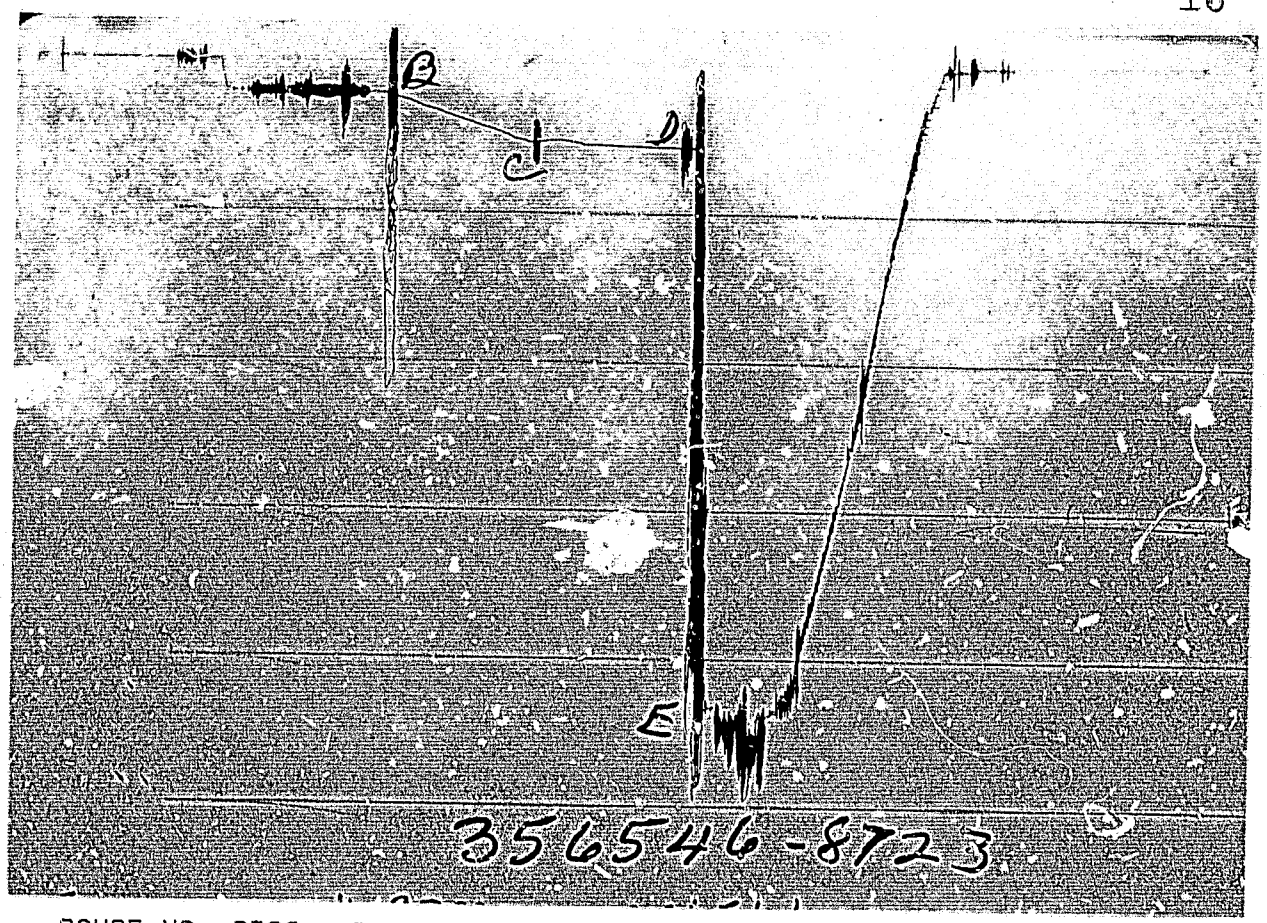
TICKET NO. 35654600
15-SEP-88
MDJM8A

FORMATION TESTING SERVICE REPORT

PELICAN LEASE NAME	2 WELL NO.	5 TEST NO.	8637.3 - 8656.1 TESTED INTERVAL
SEE REMARKS LEGAL LOCATION SEC. - TWP. - RNG	COOPER BASIN FIELD AREA	SOUTH AUSTRALIA COUNTY	SOUTH AUSTRALIA STATE

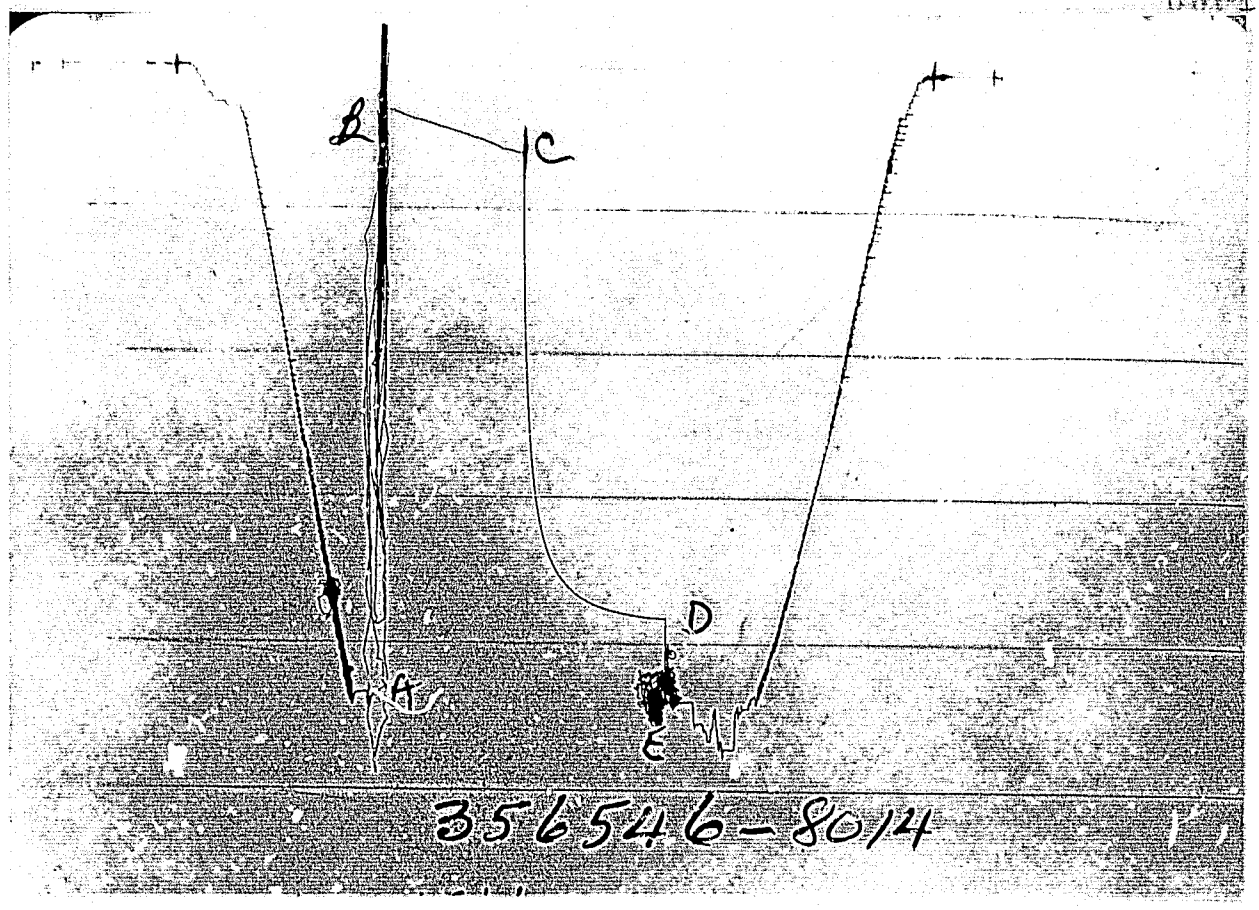
SANTOS LIMITED
LEASE OWNER/COMPANY NAME

7129/2



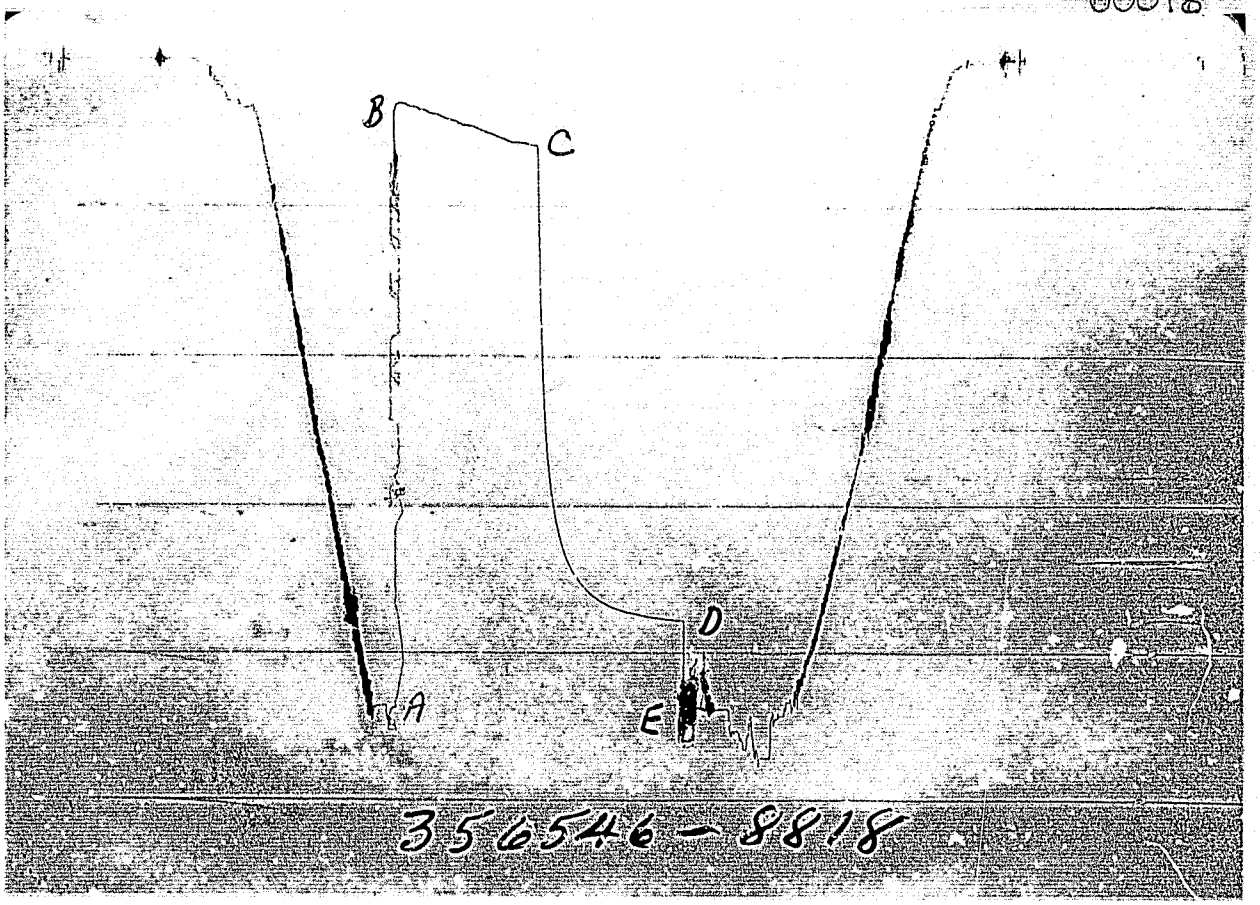
GAUGE NO: 8723 DEPTH: 8593.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW	212	220.1	181.0	182.5	F
C	FINAL FIRST FLOW	555	526.4			
C	INITIAL FIRST CLOSED-IN	555	526.4	179.0	177.5	C
D	FINAL FIRST CLOSED-IN		556.8			
E	FINAL HYDROSTATIC					
F	HYDROSTATIC RELEASE					



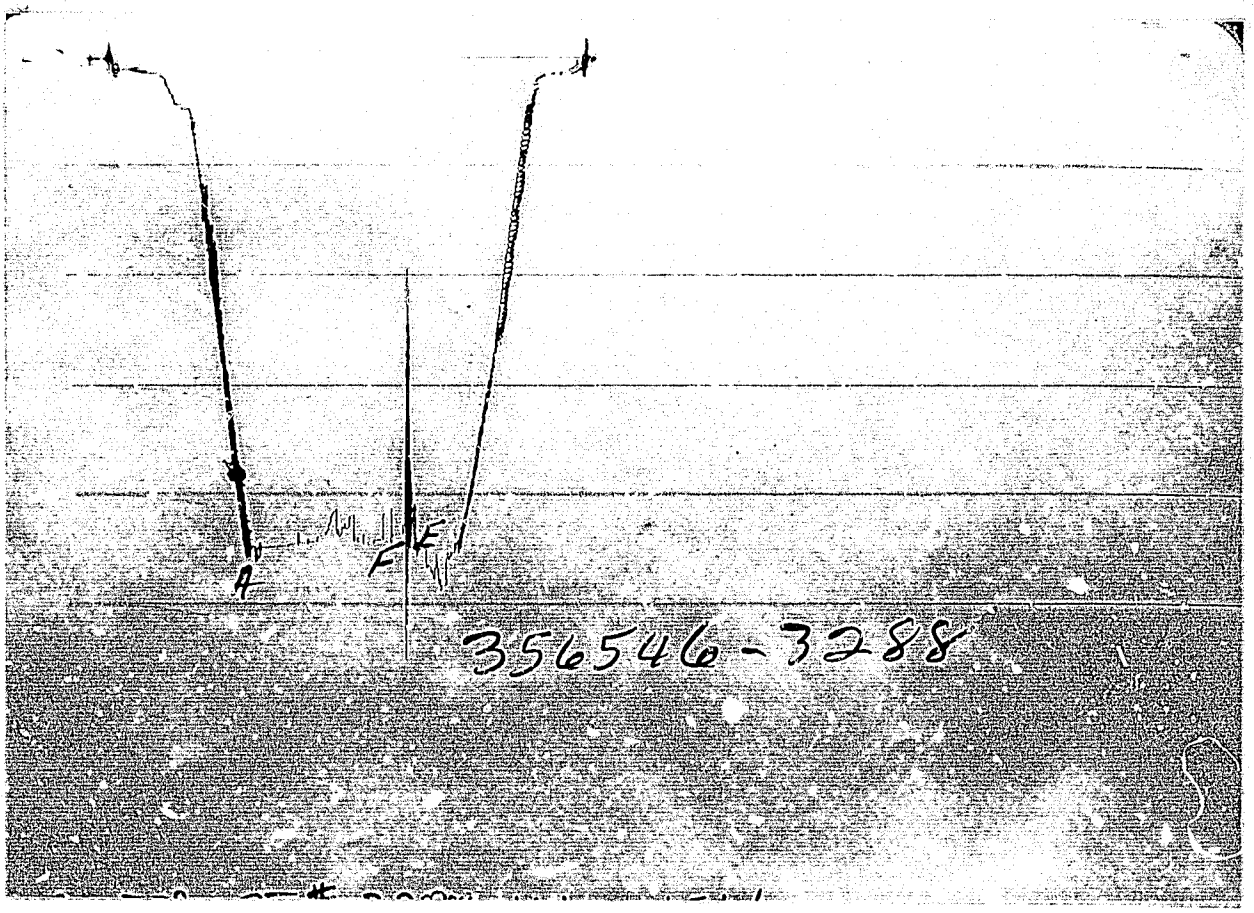
GAUGE NO: 8014 DEPTH: 8613.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4328	4330.2			
B	INITIAL FIRST FLOW	302	253.7	181.0	182.5	F
C	FINAL FIRST FLOW	600	561.8			
C	INITIAL FIRST CLOSED-IN	600	561.8	179.0	177.5	C
D	FINAL FIRST CLOSED-IN	3819	3788.2			
E	FINAL HYDROSTATIC	4386	4354.9			
F	HYDROSTATIC RELEASE					



GAUGE NO: 8818 DEPTH: 8661.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4355	4351.6			
B	INITIAL FIRST FLOW	347	317.5	181.0	182.5	F
C	FINAL FIRST FLOW	590	585.5			
C	INITIAL FIRST CLOSED-IN	590	585.5	179.0	177.5	C
D	FINAL FIRST CLOSED-IN	3775	3776.6			
E	FINAL HYDROSTATIC	4371	4370.5			
F	HYDROSTATIC RELEASE					



GAUGE NO: 3288 DEPTH: 8923.0 BLANKED OFF: YES HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4464	4470.2			
B	INITIAL FIRST FLOW			181.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			179.0		C
D	FINAL FIRST CLOSED-IN					
E	FINAL HYDROSTATIC	4482	4479.1			
F	HYDROSTATIC RELEASE		4267.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: TIRRAWARRA
NET PAY (ft):
GROSS TESTED FOOTAGE: 28.8
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 8.500
ELEVATION (ft): 133.0
TOTAL DEPTH (ft): 8926.0
PACKER DEPTH(S) (ft): 8630, 8637, 8666, 8674
FINAL SURFACE CHOKE (in): 0.50000
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.60
MUD VISCOSITY (sec): 44
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 230 @ 8922.0 ft

TICKET NUMBER: 35654600
DATE: 3-9-88 TEST NO: 5
TYPE DST: ON BT. STRADDLE
HALLIBURTON CAMP: MOOMBA
TESTER: N. COWLEY
WITNESS: B. SPEECHLEY
DRILLING CONTRACTOR: ATCO RIG #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT
WATER (FT.)	516.0	8.34

RECOVERED:

1437' OF MUDDY WATER
40' OF GAS AND CONDENSATE CUT MUDDY WATER

MEASURED FROM TESTER VALVE

REMARKS:

LEGAL LOCATION: LAT: 027 DEG, 48' 13" S. AND LONG: 140 DEG. 04', 53" E.

STYLUS SLIPPED IN GAUGE #8014.

TYPE & SIZE MEASURING DEVICE: 6" CERAMIC SURFACE CHOKE | TICKET NO: 3565460

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
3-9-88					
1989					ON LOCATION
0230					PICKED UP TOOL
0415					TOOL MADE UP AND WENT IN HOLE
0500					RUN 516' OF WATER CUSHION
0515					MADE UP HEAD ASSEMBLY
0530					LAID OUT HEAD ASSEMBLY AND
					SINGLE
0810					HEAD UP TO FLOOR MANIFOLD
0828					SEATED PACKERS WITH 30,000#
0836	.50				OPENED TOOL WITH A WEAK BLOW
0843					BLOW INCREASED TO MODERATE
0845					BLOW INCREASED TO STRONG
0957		1			GAS TO SURFACE
0910		0			PRESSURE DROPPED TO ZERO. GAS
					STILL AT SURFACE
0941		1			
0955		2			
1006		3			
1015		5			
1030		4			
1044		5			
1047		6			
1100		9			
1108		11			PRESSURE ROSE STEADILY UNTIL
					17 PSI, SLIGHT FLUCTUATIONS
					AROUND THAT PRESSURE. GAS
					STILL AT SURFACE--LAZY FLARE
1135		17			
1136		19			
1137		24			CLOSED TOOL
1436					OPENED BYPASS. PACKERS FREE
					30,000# OVERPULL
1456					DROPPED BAR TO REVERSE
1458					PIN BROKE, STARTED REVERSING
					PUMPED PILL AND PULLED OUT OF
					HOLE

-986

00022

TYPE & SIZE MEASURING DEVICE: 6" CERAMIC SURFACE CHOKE | TICKET NO: 35654600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
2011					TOOL AT FLOOR, STARTED BREAKING
					DOWN
2203					TOOL BROKEN DOWN AND LAID DOWN
					JOB COMPLETED

TICKET NO: 35654600	GAUGE NO: 8723
CLOCK NO: 32066 HOUR: 24	DEPTH: 8593.0

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	220.1			
	2	30.0	271.3	51.2		
	3	60.0	323.4	52.2		
	4	90.0	375.3	51.8		
	5	120.0	427.1	51.8		
	6	150.0	481.2	54.1		
C	7	182.5	526.4	45.1		
			FIRST CLOSED-IN			
C	1	0.0	526.4			
D	2	177.5	556.8	30.4	90.0	0.307

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$

REMARKS:

00624

TICKET NO: 35654600

CLOCK NO: 12462 HOUR: 24

GAUGE NO: 8014

DEPTH: 8613.0

	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	253.7			
	2	30.0	301.9	48.1		
	3	60.0	354.2	52.4		
	4	90.0	409.3	55.1		
	5	120.0	461.2	51.9		
	6	150.0	520.4	59.3		
C	7	182.5	561.8	41.4		
			FIRST CLOSED-IN			
C	1	0.0	561.8			
	2	1.0	1311.2	749.4	1.0	2.261
	3	2.0	1635.5	1073.6	2.0	1.969
	4	3.0	1854.7	1292.9	3.0	1.788
	5	4.0	2013.8	1452.0	3.9	1.669
	6	5.0	2124.9	1563.1	4.9	1.574
	7	6.0	2264.3	1702.5	5.8	1.494
	8	7.0	2364.5	1802.6	6.7	1.433
	9	8.0	2467.6	1905.8	7.7	1.377
	10	9.0	2554.2	1992.3	8.6	1.328
	11	10.0	2629.7	2067.9	9.5	1.284
	12	12.0	2753.3	2191.5	11.3	1.210
	13	14.0	2865.6	2303.8	13.0	1.146
	14	16.0	2953.7	2391.8	14.7	1.094
	15	18.0	3041.2	2479.4	16.4	1.046
	16	20.0	3110.5	2548.8	18.0	1.006
	17	22.0	3156.5	2594.7	19.6	0.969
	18	24.0	3204.6	2642.7	21.2	0.935
	19	26.0	3246.6	2684.8	22.8	0.904
	20	28.0	3283.7	2721.9	24.3	0.876
	21	30.0	3321.8	2760.0	25.8	0.850
	22	35.0	3393.2	2831.3	29.4	0.793
	23	40.1	3454.6	2892.7	32.8	0.745
	24	45.0	3498.2	2936.4	36.1	0.704
	25	50.0	3537.8	2976.0	39.3	0 667
	26	55.0	3569.9	3008.1	42.3	0.635
	27	60.0	3597.5	3035.7	45.1	0.607
	28	70.0	3641.9	3080.1	50.6	0.557
	29	80.0	3674.5	3112.7	55.6	0.516
	30	90.0	3700.3	3138.5	60.3	0.481
	31	100.0	3719.7	3157.9	64.6	0.451
	32	110.0	3736.2	3174.4	68.6	0.425
	33	120.0	3748.5	3186.7	72.4	0.401
	34	135.0	3762.5	3200.7	77.6	0.371
	35	150.0	3775.0	3213.2	82.3	0.346
	36	165.0	3783.7	3221.9	86.7	0.323
D	37	177.5	3788.2	3226.3	90.0	0.307

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

TICKET NO: 35654600

CLOCK NO: 30347 HOUR: 24

GAUGE NO: 8818

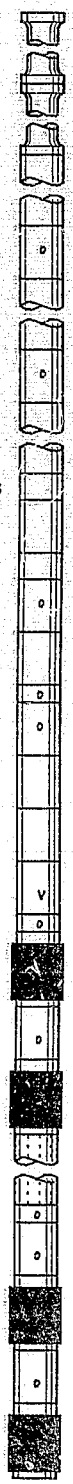
DEPTH: 8661.0

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	317.5			
	2	30.0	325.2	7.8		
	3	60.0	377.2	52.0		
	4	90.0	443.7	66.5		
	5	120.0	499.5	55.8		
	6	150.0	567.3	67.8		
C	7	182.5	585.5	18.2		
			FIRST CLOSED-IN			
C	1	0.0	585.5			
	2	1.0	1212.8	627.3	1.0	2.274
	3	2.0	1484.7	899.2	1.9	1.976
	4	3.0	1727.8	1142.3	2.9	1.797
	5	4.0	1893.9	1308.4	3.9	1.666
	6	5.0	2107.9	1522.4	4.9	1.572
	7	6.0	2267.9	1682.4	5.8	1.499
	8	7.0	2363.9	1778.4	6.7	1.434
	9	8.0	2461.3	1875.8	7.7	1.376
	10	9.0	2569.8	1984.3	8.6	1.326
	11	10.0	2633.2	2047.7	9.5	1.285
	12	12.0	2758.9	2173.4	11.3	1.209
	13	14.0	2849.2	2263.7	13.0	1.148
	14	16.0	2929.4	2343.9	14.7	1.094
	15	18.0	3008.3	2422.7	16.4	1.047
	16	20.0	3072.0	2486.5	18.0	1.006
	17	22.0	3129.4	2543.9	19.6	0.968
	18	24.0	3184.3	2598.8	21.2	0.935
	19	26.0	3222.7	2637.1	22.7	0.905
	20	28.0	3263.9	2678.4	24.3	0.876
	21	30.0	3298.5	2713.0	25.8	0.850
	22	35.0	3376.1	2790.5	29.4	0.793
	23	40.0	3432.8	2847.3	32.8	0.746
	24	45.0	3475.7	2890.2	36.1	0.704
	25	50.0	3517.2	2931.7	39.2	0.668
	26	55.0	3552.3	2966.8	42.3	0.635
	27	60.0	3579.6	2994.1	45.2	0.606
	28	70.0	3626.1	3040.6	50.6	0.557
	29	80.0	3661.8	3076.3	55.6	0.516
	30	90.0	3687.7	3102.2	60.3	0.481
	31	100.0	3707.[illegible]	3121.5	64.6	0.451
	32	110.0	3723.0	3137.5	68.7	0.425
	33	120.0	3734.2	3148.6	72.4	0.402
	34	135.0	3751.5	3166.0	77.6	0.371
	35	150.0	3763.1	3177.6	82.3	0.346
	36	165.0	3772.1	3186.6	86.7	0.323
D	37	177.5	3776.6	3191.1	90.0	0.307

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

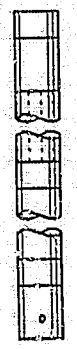
		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.500	3.826	8077.7	
4	FLEX WEIGHT	4.500	2.764	182.7	
3	DRILL COLLARS	6.500	2.812	269.3	
51	PUMP OUT REVERSING SUB	6.000	3.000	1.0	8529.7
3	DRILL COLLARS	6.500	2.812	29.3	
50	IMPACT REVERSING SUB	6.000	3.000	1.0	8560.0
3	DRILL COLLARS	6.500	2.812	29.8	
258	BAR CATCHER SUB	6.000	1.120	1.0	
80	AP RUNNING CASE	5.000	2.250	4.1	8593.0
5	CROSSOVER	5.000	2.250	1.0	
12	DUAL CIP VALVE	5.000	0.870	4.9	
202	SAMPLE CHAMBER	5.000	3.000	4.1	
33	DRAIN VALVE	5.000	2.200	0.9	
60	HYDROSPRING TESTER	5.000	0.750	5.3	8611.0
80	AP RUNNING CASE	5.000	2.250	4.1	8613.0
15	JAR	5.000	1.750	5.0	
16	VR SAFETY JOINT	5.000	2.780	2.8	
17	PRESSURE EQUALIZING CROSSOVER	4.870	0.750	1.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8629.5
18	DISTRIBUTOR VALVE	5.000	1.680	2.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8637.3
20	FLUSH JOINT ANCHOR	5.000	2.370	21.0	
17	PRESSURE EQUALIZING CROSSOVER	4.620	2.250	1.0	
81	BLANKED-OFF RUNNING CASE	5.000		4.1	8661.0
70	OPEN HOLE PACKER	7.500	1.680	5.8	8666.1
18	DISTRIBUTOR VALVE	5.000	1.680	2.0	
70	OPEN HOLE PACKER	7.500	1.680	5.8	8673.9



CONTINUED

EQUIPMENT DATA

		O.D.	I.D.	LENGTH	DEPTH
5	CROSSOVER	4.800	2.200	1.0	
19	ANCHOR PIPE SAFETY JOINT	5.000	1.500	4.3	
20	FLUSH JOINT ANCHOR	5.000	2.370	27.0	
5	CROSSOVER	6.000	2.200	1.0	
3	DRILL COLLARS	6.500	2.812	205.2	
5	CROSSOVER	6.000	2.200	1.0	
81	BLANKED OFF RUNNING CASE	5.000		4.1	8923.0
	TOTAL DEPTH				8526.0



EQUIPMENT DATA

EQUATIONS FOR DST LIQUID WELL ANALYSIS

00028

Transmissibility	$\frac{kh}{\mu} = \frac{162.6\ QB}{m}$	$\frac{md\text{-}ft}{cp}$
Indicated Flow Capacity	$kh = \frac{kh}{\mu}\ \mu$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151\left[\frac{P^*-P_i}{m} - LOG\left(\frac{k\ (t/60)}{\phi\ \mu\ c_t r_w^2}\right) + 3.23\right]$	
Damage Ratio	$DR = \frac{P^* - P_i}{P^* - P_i - 0.87\ mS}$	
Theoretical Potential w/Damage Removed	$Q_t = Q\ DR$	BPD
Approx. Radius of Investigation	$r_i = 0.032\sqrt{\frac{k\ (t/60)}{\phi\mu c_t}}$	ft

EQUATIONS FOR DST GAS WELL ANALYSIS

Indicated Flow Capacity	$kh = \frac{637\ Q_g\ T}{m}$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151\left[\frac{m(P^*)-m(P_i)}{m} - LOG\left(\frac{k\ (t/60)}{\phi\ \mu\ c_t r_w^2}\right) + 3.23\right]$	
Damage Ratio	$DR = \frac{m(P^*) - m(P_i)}{m(P^*) - m(P_i) - 0.87\ mS}$	
Indicated Flow Rate (Maximum)	$AOF_1 = \frac{Q_g\ m(P^*)}{m(P^*) - m(P_i)}$	MCFD
Indicated Flow Rate (Minimum)	$AOF_2 = Q_g\sqrt{\frac{m(P^*)}{m(P^*) - m(P_i)}}$	MCFD
Approx. Radius of Investigation	$r_i = 0.032\sqrt{\frac{k\ (t/60)}{\phi\ \mu\ c_t}}$	ft

SANTOS LTD

WELL TEST SUMMARY

WELL: Pelican # 2 upper
TESTED BY: Expertest
CASING SIZE: 7 ins
TUBING SIZE: 2.3/8 ins

Lat.: 27°48'12.96" S
LOCATION: Long: 140°04'53.10" E
PERFORATIONS: 7807 - 7877 ft
WEIGHT: 26 lb/ft
WEIGHT: 4.7 lb/ft

DATE: 26/11 — 11/12/89
PRODUCING THROUGH: Tubing
GRADE: J55 & N80
GRADE: J55
FORMATION: Toolachee

DESCRIPTION OF TEST

INITIAL SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
28/11/89	1700		8411	N/A	44	Well online on 100% choke.
29/11/89	1230					Test abandoned.
	1500		8080	N/A	49	Recommenced test. (Extended rate)
1/12/89	1730		8315	8577	41	Samples taken
2/12/89	0700	0	8095	8481	42	Shut well in
6/12/89	1500		18127	5537		B.O.L. for determination of choke settings.
	1620					Shut well in
7/12/89	1000	123	18617	5571		Opened well on rate #1.

Flow Period

Run No.: 1 Duration of Run: 4 Hours.
Flow Well On: 13/64" Choke.

Orifice Size: 1.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~ psi	Hw ~~kPa~~ "w.g.	Temp. ~~°C~~ °F	m3/d	m3/d
7/12/89	1000	0	18617	5571						
	1030	0.5	14328	5888	45	610	63	104		
	1100	1	13790	6261	45	605	58	113	0.307	NIL
	1130	1.5	13618	6640	47	605	56	112		
	1200	2	13631	6667	47	601	55	133	NIL	0.307
	1230	2.5	13700	6771	47	635	49	136		
	1300	3	13176	6805	49	640	49	131	0.307	NIL
	1330	3.5	13038	6895	50	640	48	126		
	1400	4	12969	6971	50	645	47	117	0.613	1.226

Env 7129/2

WP 2548G

CC 8/3/91

00029

2nd SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
7/12/89	1400	0	12969	6971	50	Shut well in
	1430	0.5	17189	6840	49	
	1500	1	17193	6640	48	
	1530	1.5	18106	6474	48	
	1600	2	18155	6364	47	
	1630	2.5	18134	6309	47	
	1700	3	18113	6185	47	
	1730	3.5	18106	6109	46	
	1800	4	18044	6047	45	Opened well on rate #2

Flow Period

Run No.: 2 Duration of Run: 4 Hours.
Flow Well On: 16/64" Choke.

Orifice Size: 1.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~ psi	Hw ~~kPa~~ "wg.	Temp. ~~°C~~ °F	m3/d	m3/d
7/12/89	1800	0	18044	6047	45					
	1830	0.5	10605	6309	44	640	88	104		
	1900	1	10191	6530	46	640	80	102	NIL	1.226
	1930	1.5	10053	6730	45	640	77	99		
	2000	2	9998	6867	43	640	76	95	1.226	NIL
	2030	2.5	9943	6985	43	640	75	93		
	2100	3	9929	7095	42	637	75	91	1.226	0.307
	2130	3.5	9901	7185	42	635	75	90		
	2200	4	9887	7254	42	631	74	88	0.613	0.920

3RD SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
7/12/89	2200	0	9887	7254	42	Shut well in
	2230	0.5	16396	7198	35	
	2300	1	17534	6502	32	
	2330	1.5	17913	6771	30	
	2400	2	18010	6578	28	
8/12/89	0030	2.5	18065	6426	26	
	0100	3	18099	6240	26	
	0130	3.5	18120	6206	25	
	0200	4	18134	6192	25	Opened well on rate # 3

Flow Period

Run No.: 3 Duration of Run: 4 Hours. Orifice Size: 1.500 ins
Flow Well On: 20/64" Choke. Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~	Hw ~~kPa~~	Temp. ~~°C~~	m^3/d	m^3/d
8/12/89	0200	0	18134	6192	25					
	0230	0.5	7915	6302	38	613	56	81		
	0300	1	7647	6592	39	605	52	82	1.226	0.307
	0330	1.5	7557	6764	39	608	50	84		
	0400	2	7516	6861	38	608	50	86	0.613	1.226
	0430	2.5	7495	6957	38	608	49	86		
	0500	3	7488	7033	38	608	49	86	0.920	0.613
	0530	3.5	7488	7109	38	608	49	88		
	0600	4	7481	7164	38	608	49	88	0.613	1.226

00031

4TH SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
8/12/89	0600	0	7481	7164	38	Shut well in
	0630	0.5	15748	7205	34	
	0700	1	17251	6978	31	
	0730	1.5	17782	6785	31	
	0800	2	17913	6667	33	
	0830	2.5	17989	6536	35	
	0900	3	17996	6412	36	
	0930	3.5	18024	6309	38	
	1000	4	18044	6240	39	Opened well on rate #4

Flow Period

Run No.: 4 Duration of Run: 4 Hours.
Flow Well On: 28/64" Choke.

Orifice Size: 1.500 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~	Hw ~~kPa~~	Temp. ~~°C~~	m^3/d	m^3/d
8/12/89	1000	0	18044	6240	39					
	1030	0.5	5233	6330	46	645	71	108		
	1100	1	5171	6516	47	650	66	106	1.226	0.920
	1130	1.5	5144	6612	49	650	64	109		
	1200	2	5137	6716	49	650	65	113	0.920	1.226
	1230	2.5	5144	6798	51	650	64	117		
	1300	3	5151	6867	51	650	65	117	0.307	1.226
	1330	3.5	5151	6888	51	650	65	117		
	1400	4	5151	6923	51	650	65	117	0.307	1.533

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✓ ✓

FINAL STABILIZATION FLOW PERIOD

Flow Period

Run No.: 5 Duration of Run: 64 Hours.
Flow Well On: 64/64" Choke.

Orifice Size: 1.000 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings Tubing kPa	Casing kPa	Temp. °C	Meter or Prover Data Pf ~~kPa~~ psi	Hw ~~kPa~~ "Wg	Temp. ~~°C~~ °F	Condensate Production m^3/d	Water Production m^3/d
29/11/89	1500	0	8080	N/A	49	1155	110	118.4		
	1700	2	8150	"	40	1170	105	100		
	1900	4	8046	"	37	1156	105	97	0.153	0.460
	2100	6	8212	"	42	1180	106	102		
	2300	8	7978	"	42	1175	108	102	0.153	0.460
30/11/89	0100	10	8412	"	41	1170	107	108		
	0300	12	8412	"	41	1175	106	106	0.460	0.767
	0500	14	8184	"	42	1178	104	106		
	0700	16	8212	"	42	1180	105	106	0.767	0.153
	0900	18	8143	8964	44	1171	105	117		
	1100	20	8102	8915	47	1165	108	122	0.767	0.460
	1300	22	8060	8895	51	1159	112	122		
	1500	24	7984	8853	52	1148	117	124	0.307	0.920
	1700	26	8060	8819	48	1158	108	119		
	1900	28	8033	8784	47	1153	109	115	NIL	0.767
	2100	30	8040	8750	44	1154	109	115		
	2300	32	8046	8736	43	1155	107	113	0.307	0.767
1/12/89	0100	34	8060	8729	41	1156	106	107		
	0300	36	8067	8708	41	1159	106	107	0.307	0.767
	0500	38	8074	8681	40	1160	107	109		
	0700	40	8088	8667	41	1162	105	113	0.153	0.153
	0900	42	8267	8646	48	1187	100	120		
	1100	44	8304	8633	47	1194	101	122	0.153	0.920
	1300	46	8488	8605	49	1222	97	124		
	1500	48	8329	8598	49	1198	101	122	0.307	0.767
	1700	50	8315	8577	49	1195	101	122	0.307	0.307
	1730	50.5	8315	8577	41	1198	97	109		
	1800	51	8336	8564	37	1200	94	100	NIL	0.613
	1830	51.5	8364	8564	34	1202	94	102		
	1900	52	8419	8564	34	1213	94	104	0.613	0.613
	2100	54	8246	8564	33	1185	95	97		
	2300	56	8172	8570	32	1177	99	97	0.460	0.613
2/12/89	0100	58	8177	8550	38	1177	100	102		
	0300	60	8191	8515	40	1180	103	108	N/A	0.767
	0500	62	8060	8502	42	1161	105	108		
	0700	64	8095	8481	42	1162	106	109	N/A	0.460

SANTOS LTD:

[redacted] TE[redacted]SUM[redacted]

FINAL BUILD-UP PERIOD

Date	Time	Shut in Period (Hours)	Tubing Pressure kPa	Casing Pressure kPa	Wellhead Temp. °C	REMARKS
8/12/89	1400	0	5151	6923	51	Shut well in
	1415	0.25	13608	7136	50	
	1430	0.5	15383	7054	50	
	1445	0.75	16410	6936	50	
	1500	1	16886	6840	49	
	1515	1.25	17210	6743	49	
	1530	1.5	17355	6674	48	
	1545	1.75	17506	6585	49	
	1600	2	17589	6509	48	
	1615	2.25	17651	6447	48	
	1630	2.5	17693	6405	47	
	1645	2.75	17686	6357	45	
	1700	3	17789	6302	45	
	1715	3.25	17796	6254	45	
	1730	3.5	17851	6219	45	
	1745	3.75	17864	6171	44	
	1800	4	17899	6157	44	
	2000	6	18003	5840	37	
	2200	8	18044	5661	32	
9/12/89	0200	12	18141	5447	25	
	0600	16	18203	5302	22	
	1000	20	18203	5226	40	
	1400	24	18155	5116	46	
	1800	28	18189	5054	31	
	2200	32	18265	4964	27	
10/12/89	0200	36	18279	4909	26	
	0600	40	18341	4861	24	
	1000	44	18265	4840	49	
	1400	48	18244	4778	52	
	1800	52	18292	4764	47	
	2200	56	18320	4702	35	
11/12/89	0200	60	18348	4716	32	
	0600	64	18430	4668	28	
	0700	65	18444	4682	32	P.O.O.H.

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WELL TEST SUMMARY

FINAL BUILD-UP, SUBSURFACE PRESSURES

ELEMENT NO. BOMB DEPTH 'KB DWT
LUB.

Date	Time	Shut In Time (Hours)	PRESSURE psig	PRESSURE psia^2 X 10^3	$\frac{T + \theta}{\theta}$	REMARKS

SANTOS LTD.
WELL TEST SUMMARY
CALCULATION SHEET

GAS RATES THROUGH SEPARATOR

Run No.	Hw		Pf		Size Orifice Plate		Ft	
	(kPa)	("w.g.)	(kPa)	(psig)	(mm)	(inches)	(°C)	(°F)
1	11.7	47	4447	645	31.750	1.250	47	117
2	18.4	74	4351	631	31.750	1.250	31	88
3	12.2	49	4192	608	38.100	1.500	31	88
4	16.2	65	4482	650	38.100	1.500	47	117
5	26.4	106	8012	1162	25.400	1.000	43	109
	✓	✓	✓	✓	✓	✓	✓	✓

Separator Gas Properties

Specific Gravity = 0.8038
TC = 403.39 °R
PC = 745.37 psia
CO2 CONTENT = 18.62 mole %

Meter Run = 3.068"

GAS RATES THROUGH SEPARATOR

Run No.	Q	
	E3m³/d	mmscf/d
1	42.511	1.509
2	54.585	1.937
3	63.908	2.268
4	73.635	2.614
5	56.457	2.004

✓

WP 2548G

00036

GAS WELL DELIVERABILITY TEST CALCULATIONS
(Base Conditions = 14.65 psia and 60°F)

WELL NAME: Pelican # 2 Upper DATE: 26/11 - 11/12/89 ELEMENT NO: 27617 DEPTH TESTED: 7741' & 7739

		EXT RATE		MOD ISO & B/UP	
EXT. RATE	DWT IN:	1169 PSIG	OUT:	2635 PSIG		
	LUB IN:	1164 PSIG	OUT:	2631 PSIG		
MOD ISO & B/UP	DWT IN:	2642 PSIG	OUT:	2676 PSIG		
	LUB IN:	2632 PSIG	OUT:	2697 PSIG		

SIMPLIFIED ANALYSIS

	Duration (hours)	Sandface Pressure (psia)	Bottom Hole Temperature (°F)	Meas.	Δp^2 ($\times 10^6$ psia^2)	Flow Rate E3m^3/d	H/Carbon Prod. m^3/d	Water Prod. m^3/d	REMARKS
Initial Shut In	123	3266.35	-	✓	—	—	—	—	$q = C(\bar{p}_R^2 - p_{wf}^2)^n$
Flow 1	4	2513.15	-	✓	4.353		0.307	0.383	slope n =
Shut In	4	3249.65	-	✓	—	—	—	—	$\bar{p}_R$ = psia
Flow 2	4	1863.75	-	✓	7.087		0.766	0.613	$C = \frac{q}{(\bar{p}_R^2 - p_{wf}^2)^n}$
Shut In	4	3251.95	-	✓	—	—	—	—	
Flow 3	4	1481.95	-	✓	8.379		0.843	0.843	=
Shut In	4	3233.75	-	✓	—	—	—	—	AOF (MMscfd)
Flow 4	4	1149.45	-	✓	9.135		0.690	1.226	=
Extended Flow	64	1530.25	-	✓	8.582		0.329	0.604	
Final Shut In	65	3305.05	253	✓	—	—	—	—	

WP 2548G ✓ ✓ ✓ ✓ ✓ ✓

00037

GAS WELL DELIVERABILITY TEST CALCULATIONS
(Base Conditions = 14.65 psia and 60°F)

LIT (ψ) ANALYSIS

	Duration (hours)	Sandface Pressure (psia)	ψ ($\times 10^6$ psia^2/cp)	$\Delta\psi$ ($\times 10^6$ psia^2/cp)	Flow Rate (q) (MMscfd)	$\Delta\psi/q$	q^2	$\Delta\psi - bq^2$
Initial Shut In	123	3266.35						
Flow 1	4	2513.15						
Shut In	4	3249.65						
Flow 2	4	1863.75						
Shut In	4	3251.95						
Flow 3	4	1481.95						
Shut In	4	3233.75						
Flow 4	4	1149.45						
Total=								
Extended Flow	64	1530.25						
Final Shut In	65	3305.05						

WP 2548G

✓ ✓

GAS WELL DELIVERABILITY TEST CALCULATIONS

L.I.T. (Ψ) ANALYSIS

DISCARDED POINT _____

N = _____ $\bar{\Psi}_R$ = _____ MMpsia²/cp

$$a, a_t = \frac{\Sigma\frac{\Delta\Psi}{q}\ \Sigma q^2 - \Sigma q\ \Sigma\Delta\Psi}{N\ \Sigma q^2 - \Sigma q\ \Sigma q} = _____$$

$$b = \frac{N\Sigma\ \Delta\Psi - \Sigma q\ \Sigma\frac{\Delta\Psi}{q}}{N\ \Sigma q^2 - \Sigma q\ \Sigma q} = _____$$

(EXTENDED FLOW)

$\Delta\Psi$ = _____ q = _____ b = _____

$$a = \frac{\Delta\Psi - bq^2}{q} = _____$$

A.O.F. = _____ MMSCFD n = _____

Total Volume of Gas Produced During Test = _____ MMSCF

Condensate = _____ Bbls

Water = _____ Bbls

REMARKS

WP 2548G

RESULTS

TRANSIENT FLOW: $\bar{\Psi}_R - \Psi_{wf} = a_t q + bq^2$

i.e. _____ - Ψ_{wf} = _____ q + _____ q^2

STABLIZED FLOW: $\bar{\Psi}_R - \Psi_{wf} = aq + bq^2$

i.e. _____ - Ψ_{wf} = _____ q + _____ q^2

DELIVERABILITY:

$$q = \frac{1}{2b}\left[-a + \sqrt{a^2 + 4b\ (\bar{\Psi}_R - \Psi_{wf})}\right]$$

FOR Ψ_{wf} = 0, q = AOF = _____ MMscfd

Interpreted by: Date:

00039

00040

SUB-SURFACE PRESSURE SURVEY

CO. RUN 01 FIELD PELICAN WELL 02U
FF DEPTH WELL STAT TOOL HUNG 7741'
ASING - CASING PRESS ON BOTTOM 1720 30/11
LINER - TUBING PRESS OFF BOTTOM 1200 5/12
ATE 891130 ELEMENT RANGE 0 - 5770 ZERO POINT
LEVATION ZONE SHUT-IN 0700 2/12
MAX TEMP PICK-UP ON-PROD
ERF - CAL SER NO. 27617 MPP
UBING -
UNITS ENGLISH PURPOSE EXT RATE & BUILD-UP PRE MODISO

SURVEY DATA

CO. RUN 01 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	
7:00	1515.6	1515.6	.0	18:22	3063.3	3063.3	11.4	
7:01	1549.0	1549.0	.0	19:49	3070.2	3070.2	12.8	
7:02	1607.9	1607.9	.0	21:17	3085.7	3085.7	14.3	
7:02	1710.2	1710.2	.0	23:07	3092.0	3092.0	16.1	
7:04	1810.8	1810.8	.1	1:18	3101.2	3101.2	18.3	
7:06	1895.6	1895.6	.1	3:26	3112.3	3112.3	20.4	
7:07	1993.0	1993.0	.1	6:01	3118.6	3118.6	23.0	
7:11	2115.8	2115.8	.2	9:46	3128.9	3128.9	26.8	
7:14	2231.0	2231.0	.2	13:56	3130.9	3130.9	30.9	
7:18	2348.0	2348.0	.3	18:59	3144.9	3144.9	36.0	
7:21	2452.1	2452.1	.4	22:56	3158.9	3158.9	39.9	
7:25	2539.0	2539.0	.4	3:48	3168.6	3168.6	44.8	
7:31	2596.8	2596.8	.5	8:55	3180.6	3180.6	49.9	
7:37	2677.3	2677.3	.6	12:58	3180.6	3180.6	54.0	
7:48	2744.7	2744.7	.8	17:44	3187.7	3187.7	58.7	
7:57	2804.8	2804.8	.9	23:52	3203.4	3203.4	64.9	
8:05	2838.2	2838.2	1.1	5:48	3213.6	3213.6	70.8	
8:18	2877.9	2877.9	1.3	11:37	3214.4	3214.4	76.6	
8:33	2904.9	2904.9	1.6	12:00	3214.4	3214.4	77.0	P.O.O.H.
8:51	2932.2	2932.2	1.9	- 6:48	1512.0	1512.0	-37.8	EXT. RATE
9:16	2950.9	2950.9	2.3	- 6:09	1503.9	1503.9	-37.1	↓
9:42	2975.4	2975.4	2.7	- 5:08	1503.9	1503.9	-36.1	
10:16	2985.7	2985.7	3.3	- 3:47	1508.2	1508.2	-34.8	
10:52	3000.1	3000.1	3.9	- 1:58	1511.0	1511.0	-33.0	
11:27	3012.2	3012.2	4.4	- 0:04	1511.6	1511.6	-31.1	
12:17	3022.5	3022.5	5.3	- 22:09	1517.0	1517.0	-29.2	
13:31	3034.9	3034.9	6.5	- 19:35	1513.2	1513.2	-26.6	
14:19	3042.4	3042.4	7.3	- 17:12	1514.9	1514.9	-24.2	
15:14	3046.6	3046.6	8.2	- 15:42	1539.0	1539.0	-22.7	
16:40	3054.4	3054.4	9.7	- 15:24	1537.6	1537.6	-22.4	

00041

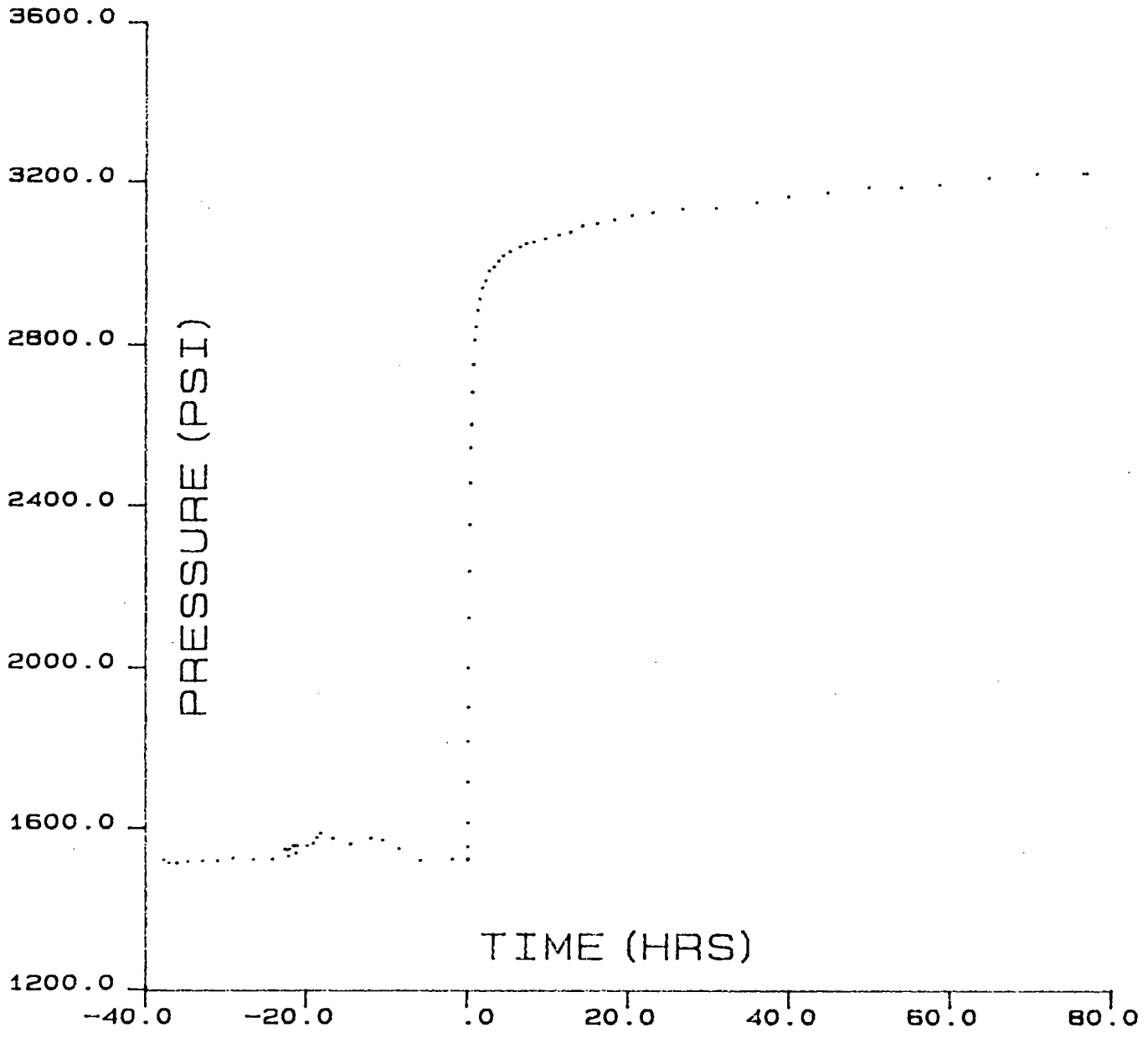
SURVEY DATA

CO. RUN 01 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
15:14	1522.3	1522.3	-22.2	- 11:13	1578.3	1578.3	-18.2
- 15:06	1539.0	1539.0	-22.1	- 9:43	1564.8	1564.8	-16.7
14:40	1548.2	1548.2	-21.7	- 7:31	1551.2	1551.2	-14.5
14:25	1548.2	1548.2	-21.4	- 5:02	1566.4	1566.4	-12.0
- 14:17	1530.1	1530.1	-21.3	- 3:33	1560.4	1560.4	-10.5
14:06	1547.9	1547.9	-21.1	- 1:32	1540.2	1540.2	-8.5
12:54	1547.9	1547.9	-19.9	1:07	1510.3	1510.3	-5.9
- 12:09	1554.8	1554.8	-19.1	5:03	1514.5	1514.5	-1.9
- 11:43	1568.0	1568.0	-18.7	7:00	1515.6	1515.6	.0

LUB IN DWT = 1169 PSI / OUT = 2635 PSI
LUB IN AMERADA = 1164 PSI / OUT = 2631 PSI

PELICAN #2U EXT RATE & BUILD-UP PRE MOD ISO
ELEMENT #27617 (TOP) 30/11-5/12/89



00042

SUB-SURFACE PRESSURE SURVEY

CO.			RUN 02 FIELD PELICAN		WELL 02U
[redacted]FF DEPTH			WELL STAT	TOOL HUNG	7747'
[redacted]ASING		-	CASING PRESS	ON BOTTOM	1720 30/11
LINER		-	TUBING PRESS	OFF BOTTOM	1200 5/12
[redacted]ATE	891130		ELEMENT RANGE 0 - 5741	ZERO POINT	
[redacted]LEVATION			ZONE	SHUT-IN	0700 2/12
MAX TEMP			PICK-UP	ON-PROD	
[redacted]ERF		-	CAL SER NO. 27616	MPP	
[redacted]UBING		-			
UNITS	ENGLISH		PURPOSE	EXT RATE & BUILD-UP PRE MODISO	

SURVEY DATA

CO.			RUN 02 FIELD PELICAN			WELL 02U		
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	
7:00	1518.7	1518.7	.0	11:40	3013.9	3013.9	4.7	
7:01	1573.1	1573.1	.0	12:17	3023.4	3023.4	5.3	
7:02	1637.3	1637.3	.0	13:10	3029.9	3029.9	6.2	
7:03	1677.5	1677.5	.0	14:33	3041.8	3041.8	7.5	
7:04	1756.8	1756.8	.1	16:04	3051.7	3051.7	9.1	
7:05	1843.3	1843.3	.1	17:37	3057.0	3057.0	10.6	
7:06	1923.8	1923.8	.1	19:17	3068.9	3068.9	12.3	
7:07	2005.1	2005.1	.1	20:28	3083.8	3083.8	13.5	
7:09	2118.7	2118.7	.1	22:29	3090.6	3090.6	15.5	
7:13	2230.0	2230.0	.2	0:53	3101.5	3101.5	17.9	
7:17	2334.7	2334.7	.3	4:10	3111.2	3111.2	21.2	
7:21	2436.2	2436.2	.4	7:50	3123.6	3123.6	24.8	
7:24	2514.9	2514.9	.4	12:00	3131.4	3131.4	29.0	
7:29	2605.0	2605.0	.5	16:38	3136.9	3136.9	33.6	
7:34	2680.6	2680.6	.6	21:36	3157.0	3157.0	38.6	
7:43	2724.9	2724.9	.7	1:59	3169.3	3169.3	43.0	
7:46	2752.1	2752.1	.8	6:38	3176.9	3176.9	47.6	
7:51	2784.7	2784.7	.9	11:44	3180.6	3180.6	52.7	
7:58	2808.4	2808.4	1.0	16:37	3188.6	3188.6	57.6	
8:03	2828.2	2828.2	1.0	22:34	3204.2	3204.2	63.6	
8:07	2849.1	2849.1	1.1	4:14	3211.9	3211.9	69.2	
8:13	2863.9	2863.9	1.2	9:27	3219.5	3219.5	74.4	
8:18	2883.1	2883.1	1.3	12:00	3218.3	3218.3	77.0	P.O.O.H.
8:29	2907.3	2907.3	1.5	- 6:32	1516.9	1516.9	-37.5	EXT RATE
8:40	2924.2	2924.2	1.7	- 6:01	1514.4	1514.4	-37.0	↓
8:54	2940.4	2940.4	1.9	- 5:33	1511.0	1511.0	-36.6	
9:17	2957.7	2957.7	2.3	- 4:43	1512.3	1512.3	-35.7	
9:50	2980.4	2980.4	2.8	- 3:31	1513.5	1513.5	-34.5	
10:17	2987.9	2987.9	3.3	- 2:15	1514.1	1514.1	-33.3	
10:59	3004.2	3004.2	4.0	- 0:15	1515.1	1515.1	-31.3	

00044

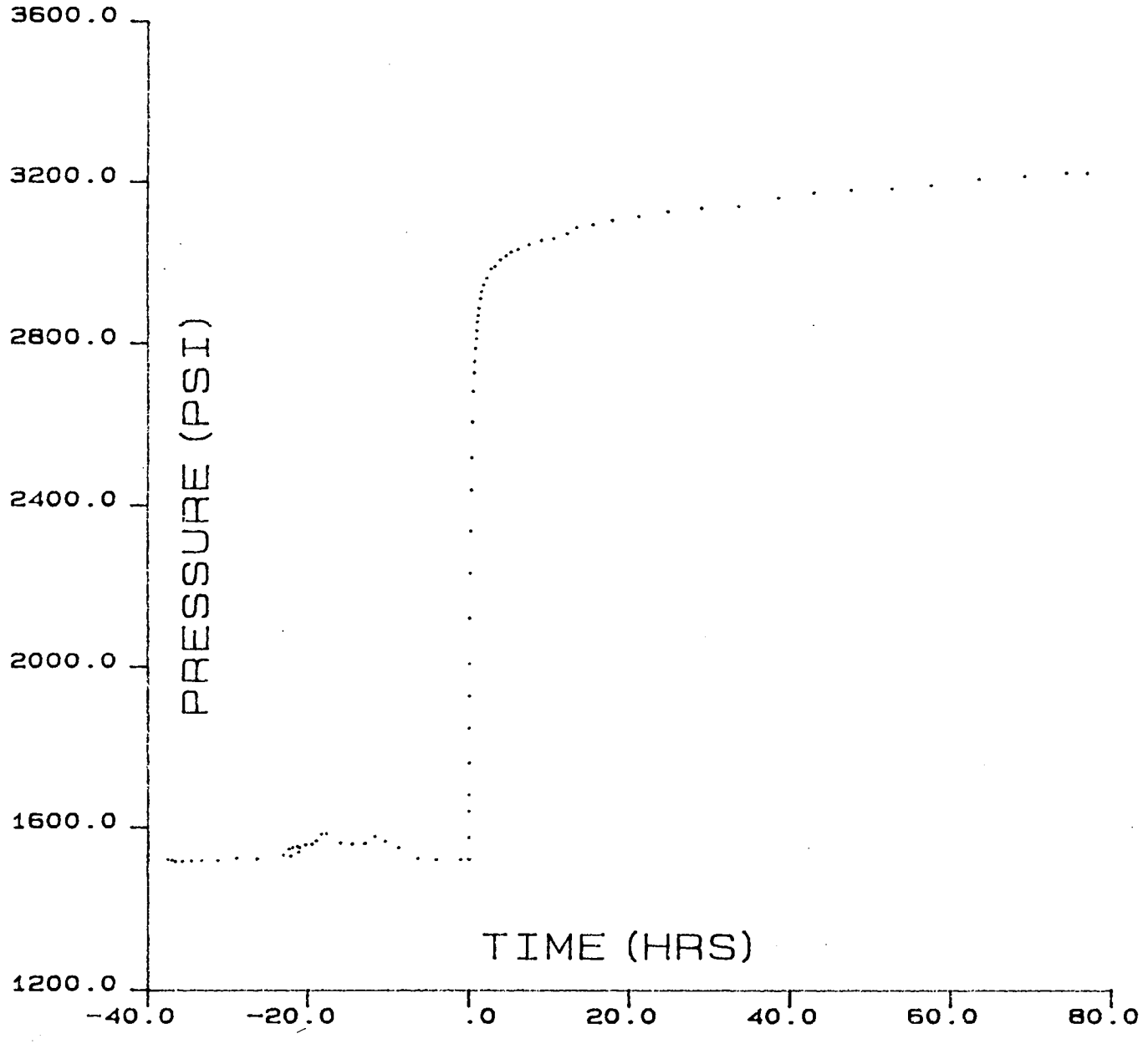
SURVEY DATA

CO. RUN 02 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
21:55	1520.9	1520.9	-28.9	- 11:21	1580.0	1580.0	-18.4
- 19:22	1517.2	1517.2	-26.4	- 10:42	1581.7	1581.7	-17.7
16:03	1528.2	1528.2	-23.1	- 9:00	1557.6	1557.6	-16.0
15:20	1543.1	1543.1	-22.3	- 7:33	1554.1	1554.1	-14.6
- 15:08	1525.2	1525.2	-22.1	- 5:57	1557.1	1557.1	-13.0
14:54	1546.3	1546.3	-21.9	- 4:43	1574.0	1574.0	-11.7
14:19	1549.5	1549.5	-21.3	- 3:24	1561.1	1561.1	-10.4
- 14:10	1534.8	1534.8	-21.2	- 1:44	1545.7	1545.7	-8.7
- 14:03	1546.2	1546.2	-21.0	0:39	1518.7	1518.7	-6.4
13:18	1553.6	1553.6	-20.3	2:56	1515.7	1515.7	-4.1
12:32	1555.0	1555.0	-19.5	5:59	1516.3	1516.3	-1.0
- 12:00	1563.6	1563.6	-19.0	7:00	1518.9	1518.9	.0

UB IN DWT = 1169 PSI / OUT = 2635 PSI
LUB IN AMERADA = 1168 PSI / OUT = 2634 PSI

PELICAN #2U EXT RATE & BUILD-UP PRE MOD ISO
ELEMENT #27616 (BOT) 30/11-5/12/89



00045

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 03	FIELD PELICAN	WELL 02U	
FF DEPTH		WELL STAT		TOOL HUNG	7739'
ASING	-	CASING PRESS		ON BOTTOM	1435 6/12
LINER	-	TUBING PRESS		OFF BOTTOM	0700 11/12
ATE	891206	ELEMENT RANGE	0 - 5770	ZERO POINT	
LEVATION		ZONE		SHUT-IN	1400 8/12
MAX TEMP	123°C	PICK-UP		ON-PROD	
ERF	-	CAL SER NO.	27617	MPP	
UBING	-				
UNITS	ENGLISH	PURPOSE	MOD ISO & BUILD-UP		

SURVEY DATA

CO. RUN 03 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
14:00	1134.8 F4	1134.8	.0	15:52	3115.1	3115.1	1.9
14:01	1167.6	1167.6	.0	15:59	3124.3	3124.3	2.0
14:04	1233.2	1233.2	.1	16:09	3132.6	3132.6	2.1
14:05	1296.2	1296.2	.1	16:19	3142.9	3142.9	2.3
14:06	1374.4	1374.4	.1	16:30	3154.4	3154.4	2.5
14:08	1468.4	1468.4	.1	16:44	3162.0	3162.0	2.7
14:09	1540.6	1540.6	.2	17:15	3170.2	3170.2	3.3
14:11	1619.9	1619.9	.2	17:34	3180.4	3180.4	3.6
14:12	1719.3	1719.3	.2	18:05	3188.6	3188.6	4.1
14:12	1810.4	1810.4	.2	18:40	3195.3	3195.3	4.7
14:14	1927.4	1927.4	.2	19:40	3199.3	3199.3	5.7
14:15	2046.6	2046.6	.3	20:50	3198.8	3198.8	6.8
14:18	2143.8	2143.8	.3	21:51	3205.6	3205.6	7.9
14:20	2249.0	2249.0	.3	22:52	3207.3	3207.3	8.9
14:22	2362.8	2362.8	.4	0:31	3216.5	3216.5	10.5
14:24	2450.3	2450.3	.4	1:32	3228.8	3228.8	11.5
14:29	2563.3	2563.3	.5	2:46	3235.2	3235.2	12.8
14:35	2667.9	2667.9	.6	4:44	3235.1	3235.1	14.7
14:39	2721.7	2721.7	.6	7:28	3240.7	3240.7	17.5
14:41	2756.5	2756.5	.7	9:55	3243.5	3243.5	19.9
14:44	2793.9	2793.9	.7	13:10	3242.4	3242.4	23.2
14:50	2847.9	2847.9	.8	16:32	3251.5	3251.5	26.5
14:53	2886.2	2886.2	.9	20:24	3253.2	3253.2	30.4
14:58	2916.4	2916.4	1.0	0:10	3263.9	3263.9	34.2
15:06	2971.0	2971.0	1.1	3:15	3270.9	3270.9	37.3
15:13	3012.9	3012.9	1.2	6:18	3275.8	3275.8	40.3
15:19	3036.2	3036.2	1.3	10:23	3268.0	3268.0	44.4
15:28	3066.1	3066.1	1.5	13:28	3268.9	3268.9	47.5
15:38	3092.5	3092.5	1.6	17:13	3273.3	3273.3	51.2
15:45	3105.4	3105.4	1.7	20:47	3274.8	3274.8	54.8

00047

SURVEY DATA

CO. RUN 03 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME		TIME	P-T		DP-DT	DTIME
0:37	3277.8	3277.8	58.6	-	21:41	3246.3		3246.3	-35.7
3:15	3273.9	3273.9	61.3	-	19:54	3249.4		3249.4	-33.9
4:48	3286.9	3286.9	62.8	-	17:39	3253.2		3253.2	-31.7
P.H. 7:00	3290.4	3290.4 FINAL SI	65.0	-	15:08	3252.3		3252.3	-29.1
- 8:41	3234.8	3234.8	-46.7	-	13:42	3251.7	B.O.L	3251.7	-27.7
8:38	3195.6	3195.6	-46.6	-	13:38	3105.2		3105.2	-27.6
8:38	3166.3	3166.3	-46.6	-	13:36	2900.6		2900.6	-27.6
- 8:31	3205.9	3205.9	-46.5	-	13:32	2729.7		2729.7	-27.5
8:31	3141.5	3141.5	-46.5	-	13:25	2610.6		2610.6	-27.4
8:31	3034.1	3034.1	-46.5	-	13:16	2523.1		2523.1	-27.3
- 8:30	2921.0	2921.0	-46.5	-	13:06	2474.4		2474.4	-27.1
- 8:29	2816.0	2816.0	-46.5	-	12:49	2438.1		2438.1	-26.8
8:29	2709.6	2709.6	-46.5	-	12:34	2419.3		2419.3	-26.6
8:27	2616.6	2616.6	-46.5	-	12:12	2404.5		2404.5	-26.2
- 8:22	2541.5	2541.5	-46.4	-	11:42	2410.0		2410.0	-25.7
8:16	2486.6	2486.6	-46.3	-	11:19	2417.1		2417.1	-25.3
8:16	2390.2	2390.2	-46.3	-	10:44	2390.4		2390.4	-24.7
- 8:14	2268.6	2268.6	-46.2	-	10:08	2372.9		2372.9	-24.1
8:10	2167.6	2167.6	-46.2	-	9:45	2365.9		2365.9	-23.8
8:06	2146.9	2146.9	-46.1	-	9:43	2498.5	F1	2498.5	-23.7
7:49	1825.8	1825.8	-45.8	-	9:40	2617.2		2617.2	-23.7
- 7:42	1542.1	1542.1	-45.7	-	9:39	2711.9		2711.9	-23.6
7:40	1423.3	1423.3	-45.7	-	9:32	2827.5		2827.5	-23.5
7:30	1339.3	1339.3	-45.5	-	9:25	2931.6		2931.6	-23.4
- 7:29	1431.3	1431.3	-45.5	-	9:17	3013.0		3013.0	-23.3
7:28	1541.1	1541.1	-45.5	-	9:07	3083.1		3083.1	-23.1
7:27	1683.7	1683.7	-45.5	-	8:50	3155.6		3155.6	-22.8
- 7:25	1810.4	1810.4	-45.4	-	8:25	3200.9		3200.9	-22.4
- 7:24	1932.5	1932.5	-45.4	-	7:50	3221.1		3221.1	-21.8
7:20	2085.7	2085.7	-45.3	-	7:22	3228.1		3228.1	-21.4
7:17	2235.8	2235.8	-45.3	-	6:40	3235.4		3235.4	-20.7
- 7:14	2403.6	2403.6	-45.2	-	5:38	3235.0	SI	3235.0	-19.6
7:10	2550.3	2550.3	-45.2	-	5:39	3063.2		3063.2	-19.6
7:05	2705.3	2705.3	-45.1	-	5:39	2806.2		2806.2	-19.6
- 6:59	2827.5	2827.5	-45.0	-	5:39	2518.8		2518.8	-19.7
6:53	2911.5	2911.5	-44.9	-	5:34	2292.2		2292.2	-19.6
6:47	2970.5	2970.5	-44.8	-	5:30	2124.3		2124.3	-19.5
- 6:34	3056.7	3056.7	-44.6	-	5:16	1976.2		1976.2	-19.3
- 6:22	3100.7	3100.7	-44.4	-	4:56	1909.9		1909.9	-18.9
6:15	3121.6	3121.6	-44.3	-	4:39	1887.4		1887.4	-18.7
6:03	3142.6	3142.6	-44.1	-	4:05	1872.3		1872.3	-18.1
- 5:50	3167.6	3167.6	-43.8	-	3:24	1851.9		1851.9	-17.4
5:36	3182.7	3182.7	-43.6	-	2:38	1850.2		1850.2	-16.6
5:11	3201.6	3201.6	-43.2	-	1:53	1849.1	F2	1849.1	-15.9
- 4:44	3206.9	3206.9	-42.7	-	1:46	2036.7		2036.7	-15.8
3:51	3223.5	3223.5	-41.8	-	1:44	2185.0		2185.0	-15.7
2:53	3228.9	3228.9	-40.9	-	1:38	2396.3		2396.3	-15.6
- 1:59	3237.8	3237.8	-40.0	-	1:33	2591.0		2591.0	-15.6
- 0:53	3242.3	3242.3	-38.9	-	1:24	2785.4		2785.4	-15.4
23:42	3241.9	3241.9	-37.7	-	1:13	2907.0		2907.0	-15.2

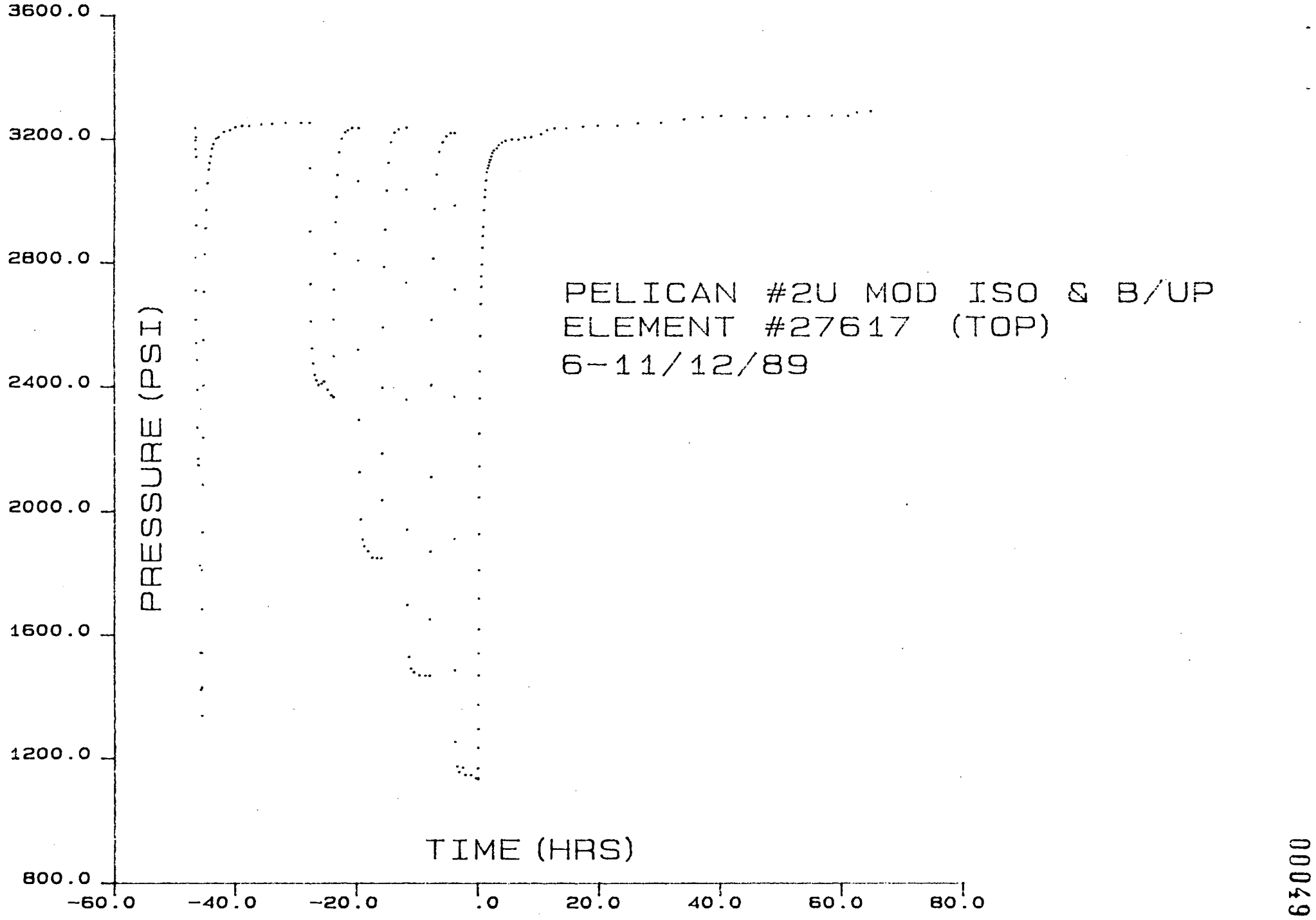
00048

SURVEY DATA

CO. RUN 03 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
1:00	3032.7	3032.7	-15.0	6:44	2811.2	2811.2	-7.3
0:41	3121.8	3121.8	-14.7	6:59	2975.1	2975.1	-7.0
0:17	3189.0	3189.0	-14.3	7:19	3084.6	3084.6	-6.7
0:16	3220.1	3220.1	-13.7	7:43	3156.7	3156.7	-6.3
1:01	3231.7	3231.7	-13.0	8:15	3188.4	3188.4	-5.7
2:17	3237.3 SI_2	3237.3	-11.7	8:54	3208.9	3208.9	-5.1
2:18	3036.4	3036.4	-11.7	9:37	3219.3	3219.3	-4.4
2:17	2735.7	2735.7	-11.7	10:16	3219.1 SI_3	3219.1	-3.7
2:18	2359.5	2359.5	-11.7	10:15	2985.7	2985.7	-3.7
2:19	1942.1	1942.1	-11.7	10:15	2712.1	2712.1	-3.8
2:24	1698.6	1698.6	-11.6	10:14	2370.1	2370.1	-3.8
2:41	1528.6	1528.6	-11.3	10:14	1912.2	1912.2	-3.8
3:00	1491.2	1491.2	-11.0	10:15	1485.9	1485.9	-3.7
3:29	1478.3	1478.3	-10.5	10:19	1253.3	1253.3	-3.7
4:23	1467.9	1467.9	-9.6	10:38	1174.6	1174.6	-3.4
5:22	1467.6	1467.6	-8.6	10:56	1155.5	1155.5	-3.1
6:05	1467.3 F_3	1467.3	-7.9	11:32	1170.0	1170.0	-2.5
6:08	1651.8	1651.8	-7.9	11:56	1146.2	1146.2	-2.1
6:13	1871.4	1871.4	-7.8	12:51	1145.9	1145.9	-1.1
6:19	2109.3	2109.3	-7.7	13:41	1135.5	1135.5	-.3
6:24	2405.1	2405.1	-7.6	14:00	1135.4 F_4	1135.4	.0
6:30	2615.6	2615.6	-7.5	0:00	.0	.0	.0

LUB IN DWT = 2642 PSI / OUT = 2676 PSI
LUB IN AMERADA = 2632 PSI / OUT = 2697 PSI


3600.0
3200.0
2800.0
2400.0
2000.0
1600.0
1200.0
800.0
PRESSURE (PSI)
-60.0
-40.0
-20.0
.0
20.0
40.0
60.0
80.0
TIME (HRS)
PELICAN #2U MOD ISO & B/UP
ELEMENT #27617 (TOP)
6-11/12/89

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 04 FIELD PELICAN		WELL 02U	
EFF DEPTH		WELL STAT		TOOL HUNG	7745'
CASING	-	CASING PRESS		ON BOTTOM	1435 6/12
LINER	-	TUBING PRESS		OFF BOTTOM	0700 11/12
DATE	891206	ELEMENT RANGE	0 - 5741	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	1400 8/12
MAX TEMP	123°C	PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	27616	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	MOD ISO & BUILD-UP		

SURVEY DATA

CO. RUN 04 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
14:00	1139.0	1139.0	.0	19:00	3196.6	3196.6	5.0
14:02	1185.5	1185.5	.0	19:50	3197.1	3197.1	5.8
14:04	1255.6	1255.6	.1	20:45	3197.0	3197.0	6.8
14:07	1356.7	1356.7	.1	21:45	3203.5	3203.5	7.7
14:08	1465.8	1465.8	.1	22:37	3203.5	3203.5	8.6
14:11	1579.7	1579.7	.2	23:37	3211.4	3211.4	9.6
14:12	1669.4	1669.4	.2	0:24	3214.8	3214.8	10.4
14:12	1807.8	1807.8	.2	1:02	3222.2	3222.2	11.0
14:13	1917.2	1917.2	.2	1:58	3231.9	3231.9	12.0
14:15	2035.7	2035.7	.2	3:15	3231.8	3231.8	13.2
14:17	2183.1	2183.1	.3	5:11	3240.2	3240.2	15.2
14:21	2329.6	2329.6	.4	6:35	3240.1	3240.1	16.6
14:23	2426.3	2426.3	.4	8:11	3240.0	3240.0	18.2
14:27	2537.0	2537.0	.4	9:42	3245.3	3245.3	19.7
14:33	2641.5	2641.5	.5	11:13	3237.7	3237.7	21.2
14:38	2714.5	2714.5	.6	13:05	3241.3	3241.3	23.1
14:42	2798.4	2798.4	.7	14:45	3241.2	3241.2	24.7
14:48	2848.0	2848.0	.8	16:32	3245.6	3245.6	26.5
14:56	2917.6	2917.6	.9	18:40	3250.6	3250.6	28.7
15:06	2989.3	2989.3	1.1	20:32	3246.4	3246.4	30.5
15:14	3024.3	3024.3	1.2	21:46	3257.2	3257.2	31.8
15:24	3059.2	3059.2	1.4	23:41	3266.3	3266.3	33.7
15:33	3083.0	3083.0	1.5	1:49	3266.7	3266.7	35.8
15:44	3101.4	3101.4	1.7	4:18	3266.5	3266.5	38.3
15:56	3121.7	3121.7	1.9	7:24	3272.5	3272.5	41.4
16:17	3141.2	3141.2	2.3	10:30	3266.8	3266.8	44.5
16:41	3155.5	3155.5	2.7	14:43	3266.5	3266.5	48.7
17:22	3179.2	3179.2	3.4	18:03	3274.5	3274.5	52.1
17:52	3187.5	3187.5	3.9	21:26	3278.8	3278.8	55.4
18:33	3196.6	3196.6	4.6	1:06	3275.7	3275.7	59.1

00051

SURVEY DATA

RUN 04 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME		TIME	P-T	DP-DT	DTIME
3:25	3278.1	3278.1	61.4	-	13:26	2704.5	2704.5	-27.4
4:44	3289.1	3289.1	62.7	-	13:17	2569.4	2569.4	-27.3
5:52	3294.8	3294.8	63.9	-	12:59	2478.9	2478.9	-27.0
P.O.O.H. 7:00	3294.7	3294.7	65.0	-	12:51	2448.0	2448.0	-26.9
8:31	3232.6	3232.6	-46.5	-	12:34	2419.0	2419.0	-26.6
8:20	3124.2	3124.2	-46.3	-	12:07	2404.1	2404.1	-26.1
8:18	2967.6	2967.6	-46.3	-	11:40	2411.2	2411.2	-25.7
8:17	2829.2	2829.2	-46.3	-	11:24	2411.5	2411.5	-25.4
8:17	2672.3	2672.3	-46.3	-	10:53	2402.0	2402.0	-24.9
8:14	2560.9	2560.9	-46.2	-	10:16	2378.8	2378.8	-24.3
8:08	2497.6	2497.6	-46.1	-	9:44	2369.3	2369.3	-23.7
8:04	2364.5	2364.5	-46.1	-	9:39	2478.9	2478.9	-23.6
8:01	2206.0	2206.0	-46.0	-	9:37	2578.8	2578.8	-23.6
7:53	2155.1	2155.1	-45.9	-	9:33	2707.9	2707.9	-23.5
7:50	2023.1	2023.1	-45.8	-	9:26	2884.6	2884.6	-23.4
7:38	1815.0	1815.0	-45.6	-	9:18	2975.8	2975.8	-23.3
7:36	1678.6	1678.6	-45.6	-	9:08	3059.2	3059.2	-23.1
7:34	1534.4	1534.4	-45.6	-	8:55	3125.4	3125.4	-22.9
7:30	1417.9	1417.9	-45.5	-	8:39	3175.9	3175.9	-22.6
7:23	1350.7	1350.7	-45.4	-	8:09	3213.4	3213.4	-22.2
7:19	1486.7	1486.7	-45.3	-	7:22	3229.2	3229.2	-21.4
7:19	1609.8	1609.8	-45.3	-	6:40	3232.0	3232.0	-20.7
7:18	1739.6	1739.6	-45.3	-	5:41	3231.9	3231.9	-19.7
7:14	1895.7	1895.7	-45.2	-	5:40	3065.8	3065.8	-19.7
7:12	2040.0	2040.0	-45.2	-	5:39	2899.8	2899.8	-19.7
7:10	2185.6	2185.6	-45.2	-	5:37	2609.7	2609.7	-19.6
7:05	2368.2	2368.2	-45.1	-	5:34	2352.1	2352.1	-19.6
7:01	2487.2	2487.2	-45.0	-	5:28	2129.7	2129.7	-19.5
6:55	2640.4	2640.4	-44.9	-	5:17	1996.1	1996.1	-19.3
6:50	2750.6	2750.6	-44.8	-	4:58	1923.3	1923.3	-19.0
6:44	2869.2	2869.2	-44.7	-	4:46	1897.3	1897.3	-18.8
6:36	2966.1	2966.1	-44.6	-	4:30	1886.3	1886.3	-18.5
6:30	3012.8	3012.8	-44.5	-	3:58	1874.3	1874.3	-18.0
6:17	3076.7	3076.7	-44.3	-	3:18	1858.8	1858.8	-17.3
6:07	3117.7	3117.7	-44.1	-	2:49	1855.0	1855.0	-16.8
5:47	3153.0	3153.0	-43.8	-	2:21	1850.1	1850.1	-16.3
5:26	3186.8	3186.8	-43.4	-	1:51	1850.1	1850.1	-15.9
5:03	3198.5	3198.5	-43.1	-	1:47	1969.7	1969.7	-15.8
4:32	3211.1	3211.1	-42.5	-	1:44	2121.1	2121.1	-15.7
3:48	3216.5	3216.5	-41.8	-	1:41	2229.9	2229.9	-15.7
2:36	3229.3	3229.3	-40.6	-	1:36	2378.4	2378.4	-15.6
1:00	3238.6	3238.6	-39.0	-	1:33	2549.5	2549.5	-15.6
23:32	3238.5	3238.5	-37.5	-	1:28	2709.3	2709.3	-15.5
21:23	3244.9	3244.9	-35.4	-	1:20	2854.2	2854.2	-15.3
18:49	3247.0	3247.0	-32.8	-	1:07	2986.9	2986.9	-15.1
16:17	3250.0	3250.0	-30.3	-	0:54	3084.6	3084.6	-14.9
13:40	3246.9	3246.9	-27.7	-	0:37	3140.8	3140.8	-14.6
13:36	3130.7	3130.7	-27.6	-	0:16	3189.3	3189.3	-14.3
13:33	3003.1	3003.1	-27.6		0:25	3217.3	3217.3	-13.6
13:30	2846.0	2846.0	-27.5		1:15	3227.0	3227.0	-12.7

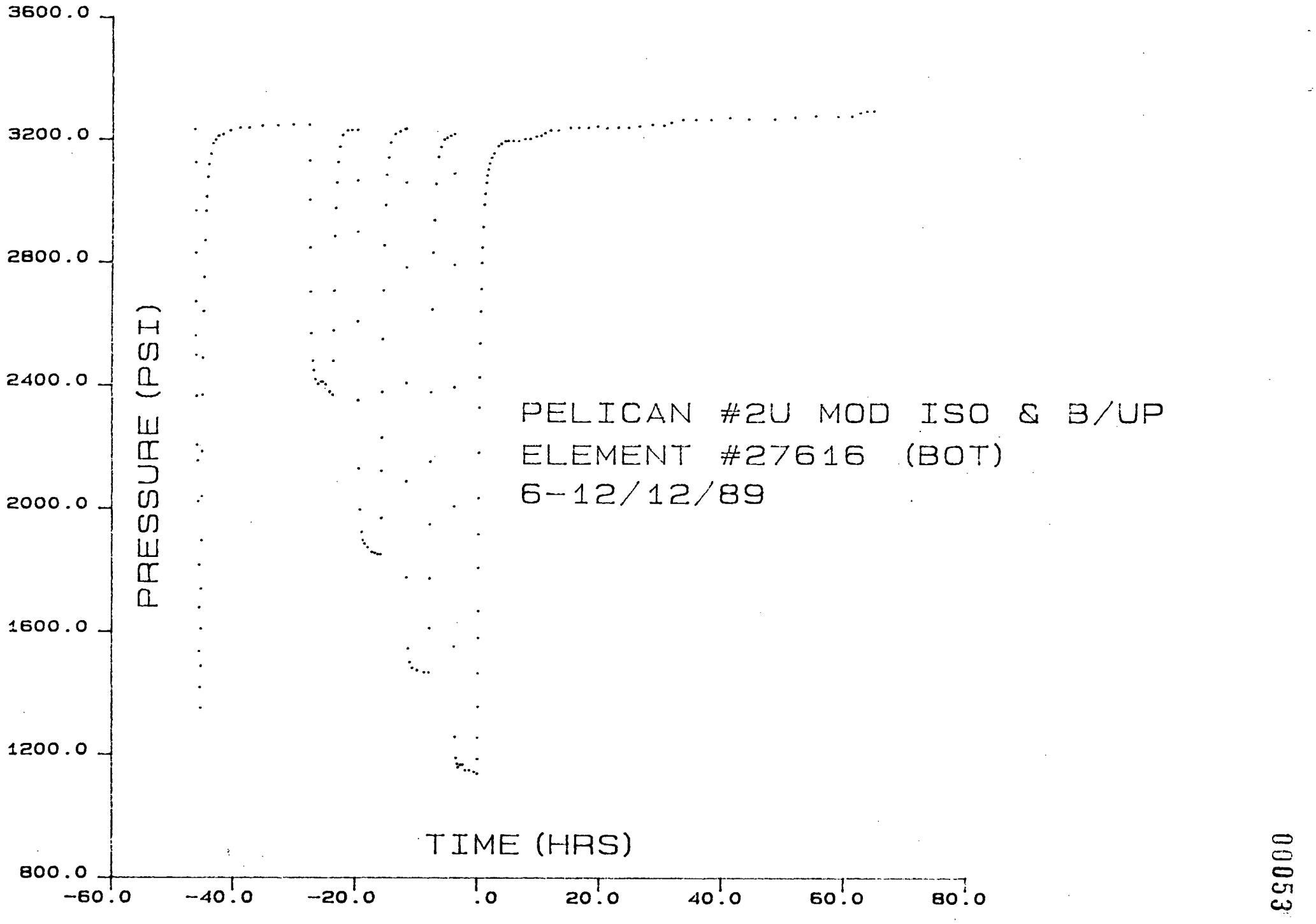
00052

SURVEY DATA

CO. RUN 04 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
2:03	3235.9	3235.9	-12.0	7:34	3143.3	3143.3	-6.4
2:16	3235.8	3235.8	-11.7	7:59	3176.0	3176.0	-6.0
2:18	3059.1	3059.1	-11.7	8:31	3199.5	3199.5	-5.5
2:19	2783.7	2783.7	-11.7	8:59	3206.0	3206.0	-5.0
2:20	2408.1	2408.1	-11.7	9:35	3213.1	3213.1	-4.4
2:20	2088.8	2088.8	-11.7	10:12	3219.1	3219.1	-3.8
2:24	1777.2	1777.2	-11.6	10:14	3089.5	3089.5	-3.8
2:40	1543.9	1543.9	-11.3	10:14	2791.1	2791.1	-3.8
2:56	1500.8	1500.8	-11.1	10:12	2394.9	2394.9	-3.8
3:20	1481.9	1481.9	-10.7	10:11	2008.3	2008.3	-3.8
4:08	1473.5	1473.5	-9.9	10:15	1551.9	1551.9	-3.7
5:19	1466.5	1466.5	-8.7	10:22	1257.7	1257.7	-3.6
6:05	1466.4	1466.4	-7.9	10:32	1188.7	1188.7	-3.5
6:08	1612.4	1612.4	-7.9	10:44	1169.4	1169.4	-3.3
6:12	1773.5	1773.5	-7.8	10:53	1157.9	1157.9	-3.1
6:13	1948.8	1948.8	-7.8	11:14	1166.8	1166.8	-2.8
6:17	2152.2	2152.2	-7.7	11:38	1166.8	1166.8	-2.4
6:22	2378.3	2378.3	-7.6	12:05	1149.2	1149.2	-1.9
6:33	2647.3	2647.3	-7.4	12:42	1149.1	1149.1	-1.3
6:43	2832.1	2832.1	-7.3	13:29	1143.3	1143.3	-.5
6:54	2938.4	2938.4	-7.1	14:00	1137.2	1137.2	.0
7:10	3055.0	3055.0	-6.8	0:00	.0	.0	.0

LUB IN DWT = 2642 PSI / OUT = 2676 PSI
LUB IN AMERADA = 2626 PSI / OUT = 2695 PSI


3600.0
3200.0
2800.0
2400.0
2000.0
1600.0
1200.0
800.0
PRESSURE (PSI)
-60.0
-40.0
-20.0
.0
20.0
40.0
60.0
80.0
TIME (HRS)
PELICAN #2U MOD ISO & B/UP
ELEMENT #27616 (BOT)
6-12/12/89

WIRELINE REPORT

00054

WELL: PELICAN # 2 UPPER.

DATE: 27TH NOV. 1989

PROGRAM: MODIFIED ISOCHRONAL PELICAN #2 UPPER.

PURPOSE OF WORK: BLIND BOX RUN 1.75" TAG P.O.T.D.

REPORT OF WORK PERFORMED:

27.11.89.

1215 SHUT WELL IN RIG UP SWAB VALVE.

1500 WELL BACK ON LINE.

1520 COMPLETED RIG UP OF WIRELINE UNIT #5 WITH 1.75" B.B.

1545 RUN IN HERE

1615 TAG P.O.T.D @ 7,730' KB.

1620 PULL OUT OF HOLE.

1700 ARRIVED @ SURFACE SECURE WELL.

28.11.89. RIG OUT WIRELINE UNIT.

OPERATOR'S SIGNATURE

WORK PERFORMED BY: R. CAMPBELL OF EXPERTEST.

WELL DATA:

Tubing Size: 2 3/8 FWHP: 1200 PSI ± SIWHP:

Sub Surface S.V./Landing Nipple @ S.S.D @:

"X" Nipple @ "N"/"XN" Nipple @ other

Min I.D. " @ REFER TO PROGRAMME Packer @

Perforated Interval:

Forward to: Petroleum Engineering — Adelaide
Production Department — Moomba

SANTOS

WIRELINE REPORT

00055

WELL: PELICAN #2 UPPER

DATE: 30:11:89

PROGRAM: MODIFIED ISOCHRONAL

PURPOSE OF WORK:

REPORT OF WORK PERFORMED:

1300: RIG UP WIRELINE UNIT & PREPARE PRESSURE GAUGES FOR FLOW & BUILD UP.

1656: RUN BOMBS IN HOLE SEE ATTACHED BOMB RUN SHEET.

5.12.89

1200: PULL BOMBS OUT OF HOLE END BUILD UP.

1500: RIG IN ELECTRIC LINE.

6:12:89

1200: RIG OUT ELECTRIC LINE & RIG IN SLICK LINE

1414: RUN PRESSURE ELEMENTS IN THE HOLE SEE ATTACHED BOMB DATA SHEET.

MB Mueller
OPERATOR'S SIGNATURE

WORK PERFORMED BY: M MUELLER OF EXPERTEST

WELL DATA:

Tubing Size: ..... FWHP: ..... SIWHP: .....

Sub Surface S.V./Landing Nipple @ ..... S.S.D. @: .....

"X" Nipple @ ..... "N"/"XN" Nipple @ ..... other .....

Min I.D. ....." @ ..... Packer @ .....

Perforated Interval: .....

Forward to: **Petroleum Engineering — Adelaide**
Production Department — Moomba

WIRELINE REPORT

00056

SANTOS

WELL: PELICAN # 2 UPPER

DATE: 11:12:89

PROGRAM: MODIFIED ISOCHRONAL

PURPOSE OF WORK:

REPORT OF WORK PERFORMED:

0700 : PULL ELEMENTS OUT OF HOLE. FOR DETAILS SEE BOMB DATA SHEET.

1015 : RUN STATIC GRADIENT SEE ATTACHED GRADIENT REPORT.

1230 : RIG DOWN END SURVEY

M D Mueller
OPERATOR'S SIGNATURE

WORK PERFORMED BY: M MUELLER OF EXPERTEST

WELL DATA:

Tubing Size: .. FWHP: SIWHP:

Sub Surface S.V./Landing Nipple @ S.S.D. @:

"X" Nipple @ "N"/"XN" Nipple @ other

Min I.D. " @ Packer @

Perforated Interval:

Forward to: **Petroleum Engineering — Adelaide**
Production Department — Moomba

EXPERTEST
WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Monday, 11th December 1989.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN Z UPPE	TOOLACHEE

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	27617	5675	16/ 5/89
Bottom	27616	5700	24/ 7/89

WELL DATA	
PARAMETER	VALUE
DWT In	18451 KPA
DWT Out	18430 KPA
Max BHT	124 C

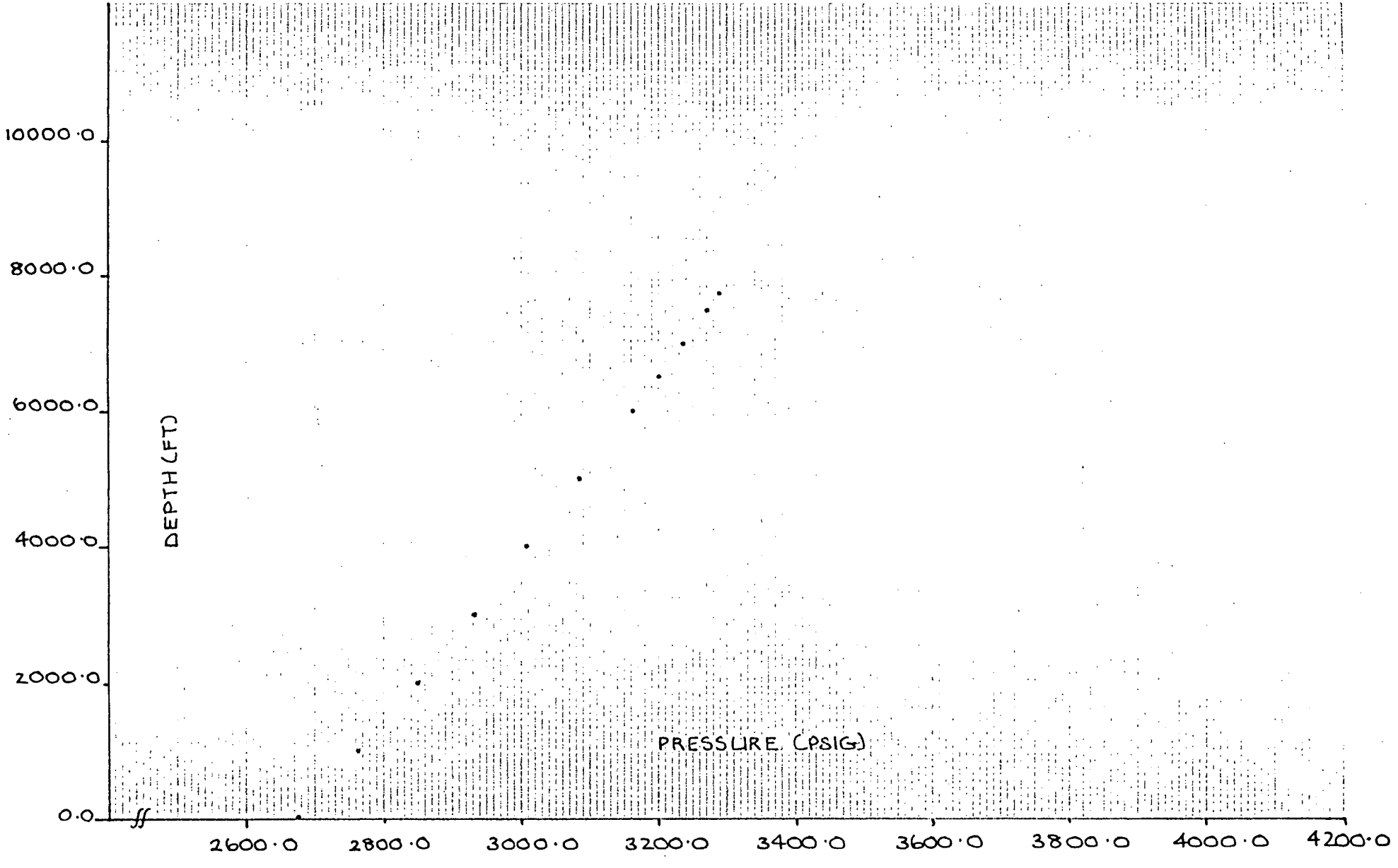
	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.9300	2678.9	-----	0.9300	2675.2	-----
1000	0.9610	2768.1	0.089	0.9610	2763.9	0.089
2000	0.9910	2854.4	0.086	0.9910	2849.8	0.086
3000	1.0200	2937.9	0.084	1.0190	2930.0	0.080
4000	1.0470	3015.6	0.078	1.0460	3007.3	0.077
5000	1.0740	3093.4	0.078	1.0730	3084.6	0.077
6000	1.1000	3168.2	0.075	1.1000	3162.0	0.077
6500	1.1130	3205.7	0.075	1.1130	3199.2	0.075
7000	1.1250	3240.2	0.069	1.1260	3236.5	0.075
7500	1.1380	3277.6	0.075	1.1380	3270.9	0.069
7747	1.1440	3294.9	0.070	1.1440	3288.1	0.070
LUB.	0.9370	2699.0	-----	0.9370	2695.2	-----

GENERAL REMARKS

CASING 4620 KPA

PELICAN # 2 UPPER — STATIC PRESSURE GRADIENT — 11/12/89

ELEMENT # 27616/5700 (BOT)



00058

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WIRELINE & WELL TESTING SERVICE
138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COMANDILLA 5033

STATIC GRADIENT SURVEY

CLIENT SANTOS

WELL PELICAN # 2 UPPER OPERATOR M.MUELLER DATE 11.12.89

BOMB No. 1 DATA		BOMB No 2 DATA		DWT IN
ELEMENT No. 27617	ELEMENT RANGE 5675 PSI	ELEMENT No. 27616	ELEMENT RANGE 5700 PSI	18451 KPA.
RECORDER No 13029	CLOCK DATA A12046 - 3HR.	RECORDER No 14629	CLOCK DATA A15013 - 3HR.	DWT OUT
ENGAGE STYLUS 0954	DISENGAGE 1225	ENGAGE STYLUS 0954	DISENGAGE 1225	18430 KPA.
PRESSURE LUBRICATOR 1000		BLEED LUBRICATOR 125		

DATE	TIME	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	DEPTH'	DEFLEC-TION	PRESSURE TEMP.	GRADIENT psi/ft	REMARKS
	1000	LUB								
	1015	RIH								MBHT 124° C
	1019	1000								
	1027	2000								CASING 4620 KA.
	1035	3000								
	1043	4000								
	1051	5000								
	1059	6000								
	1106	6500								
	1114	7000								
	1121	7500								
	1127	7747								DWT @ BOTTOM STOP 18437 KPA
	1143	POOH								
	1200	LUB								

GENERAL REMARKS:

E4

00059

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN 2 UPPER Date: 30.11.89

Lubricator Data: ① 1164 /2631 ② 1168 /2634 Operator M MUELLER

Pressure with D.W.T. In 8060 KPA (1169) Out 18168 KPA (2635)

Time Pressured 1556 30.11.89 Time Depressured 1420 5.12.89

Time Run in Hole 1656 30.11.89 Time off Bottom 1200 5.12.89

	Bomb No. 1 Data	Bomb No. 2 Data
Element No. and Range	27617 × 5675 PSI	27616 × 5700 PSI
Recorder No.	13029 × 15 TCS	14629 × 15 TCS
Clock and Lead Screw Data	F-15306 - 120 HR.	F 15309 × 120 HR.
Engage Stylus	Date: 30.11.89 Time: 1528	Date: 30.11.89 Time: 1528
Disengage	Date: 5.12.89 Time: 1430	Date: 5.12.89 Time: 1430

Remarks:

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. °C	Remarks
30.11.89			WELL FLOWING ON 100%	CHOKE		
	1556					PRESSURE LUB.
	1656		8060	8819	48	RUN IN HOLE.
	1720		8060	8812	48	HANG BOMBS @ 7747' KB.
	1900		8033	8784	47	
	2100		8040	8750	44	
	2300		8046	8736	43	
1.12.89						
	0100		8060	8729	41	
	0300		8067	8708	41	
	0500		8074	8681	40	
	0700		8088	8667	41	
	0900		8267	8646	48	
	1100		8304	8633	47	
	1300		8488	8605	49	
	1500		8529	8598	49	
	1700		8315	8577	49	
	1900		8419	8564	34	
	2100		8246	8564	33	
	2300		8172	8570	32	
2.12.89						
	0100		8177	8550	38	
	0300		8191	8515	40	
	0500		8060	8502	42	

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN * 2 UPPER Date: 2·12·89

Lubricator Data: Operator M MUELLER

Pressure with D.W.T. In Out

Time Pressured Time Depressured

Time Run in Hole Time off Bottom

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: SEE PAGE 1 FOR BOMB DATA

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead P.S.I.G.	Casing P.S.I.G.	Wellhead Temp.	Remarks
2·12·89						
	0700		8095	8481	42	SWI START BUILD UP
	0715		13514	8536		
	0730		15045	8439		
	0745		15562	8336		
	0800	1	15893	8205		
	0815		16134	8081		
	0830		16293	7998		
	0845		16396	7895		
	0900	2	16479	7819		
	0915		16541	7729		
	0930		16569	7647		
	0945		16603	7564		
	1000	3	16631	7522		
	1015		16651	7447		
	1030		16672	7398		
	1045		16693	7336		
	1100	4	16713	7295		
	1500	8	16900	6736		
	1900	12	17134	6612		
	2300	16	17293	5881		
3·12·89						
	0300	20	17334	5819		
	0700	24	17375	5764		

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN 2 UPPER Date: 3·12·89

Lubricator Data:

Operator M MUELLER

Pressure with D.W.T. In ..... Out .....

Time Pressured ..... Time Depressured .....

Time Run in Hole ..... Time off Bottom .....

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: SEE PAGE 1 FOR BOMB DATA

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead P.S.I.G.	Casing P.S.I.G.	Wellhead Temp.	Remarks
3·12·89						
	1100	28	17499	5613		
	1500	32	17603	5537		
	1900	36	17699	6440		
	2300	40	17782	5357		
4·12·89						
	0300	44	17825	5288		
	0700	48	17858	5199		
	1100	52	17920	5178		
	1500	56	17955	5130		
	1900	60	17975	5074		
	2300	64	18017	5013		
5·12·89						
	0300	68	18030	4937		
	0700	72	18051	4902		
	1100	76	18148	5178		
	1200	77	18175	5247		PULL BOMBS OUT OF HOLE. IN LUB
	1220					DEPRESSURE LUB.
	1420		18168	5351		END BUILD UP
						FOR FURTHER INFORMATION SEE WELLHEAD DATA SHEET.

EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE
138 RICHMOND ROAD MARLESTON SA 5033
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POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN # 2 UPPER

Lubricator Data: ① 2632 / 2697 ② 2626 / 2695

Date: 6·12·89

Operator M. MUELLER

Pressure with D.W.T. In 18217 KPA (2642) Out 18451 KPA. (2676)

Time Pressured 1334 6·12·89 Time Depressured 0923 11·12·89

Time Run in Hole 1414 6·12·89 Time off Bottom 0700 11·12·89

	Bomb No. 1 Data	Bomb No. 2 Data
Element No. and Range	27617 × 5675 PSI	27616 × 5700 PSI
Recorder No.	13029 × 15 TL5	14629 × 15 TL5
Clock and Lead Screw Data	F 15306 × 120 HR.	F 15309 × 120 HR
Engage Stylus	Date: 6·12·89 Time: 1301	Date: 6·12·89 Time: 1301
Disengage	Date: 11·12·89 Time: 09 8	Date: 11·12·89 Time: 09 8

Remarks: MBHT : 123° C.

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead	Casing	Wellhead Temp.	Remarks
6·12·89		WELL SHUT IN.				
	1314		18244	5537		PRESSURE LUB
	1414					RUN IN HOLE
	1435		18257	5537		HANG BOMBS @ 7705' KB.
	1500		18127	5537		FLOW WELL TO GET RATES
	1900		17927	5537		
	2300		18065	5564		
7·12·89						
	0300		18210	5619		
	0700		18479	5564		
	1000		18617	5571		START 1ST FLOW RATE 13/64
	1015		14859	5626	43	
	1030		14328	5888	45	
	1045		14080	6143	45	
	1100		13790	6261	45	
	1115		13680	6343	47	
	1130		13618	6640	47	
	1145		13542	6564	47	
	1200		13631	6667	47	
	1215		13673	6723	47	
	1230		13700	6771	48	
	1245		13804	6861	49	
	1300		13176	6805	49	

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN # 2 UPPER Date: 7.12.89

Lubricator Data: Operator M. MUELLER

Pressure with D.W.T. In Out

Time Pressured Time Depressured

Time Run in Hole Time off Bottom

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE # 4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead	Casing	Wellhead Temp.	Remarks
7.12.89						
	1315		13066	6847	49	
	1330		13038	6875	50	
	1345		13011	6916	50	
	1400		12969	6971	50	SWI START BUILD UP
	1415		16300	6957	52	
	1430		17189	6840	49	
	1445		17679	6756	48	
	1500	1	17913	6640	48	
	1515		18024	6564	48	
	1530		18106	6474	48	
	1545		18141	6433	48	
	1600	2	18155	6364	47	
	1615		18168	6343	47	
	1630		18134	6309	47	
	1645		18120	6226	47	
	1700	3	18113	6185	47	
	1715		18044	6164	47	
	1730		18106	6109	46	
	1745		18072	6102	45	
	1800	4	18044	6047	45	START 2nd FLOW RATE. 16/64
	1815		10667	6088	48	
	1830		10605	6309	46	
	1845		10349	6440	46	

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE
138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN #2 WIPER Date: 7.12.89

Lubricator Data: Operator M MUELLER

Pressure with D.W.T. In ..... Out .....

Time Pressured ..... Time Depressured .....

Time Run in Hole ..... Time off Bottom .....

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE #4.

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. C	Remarks
7.12.89						
	1900		10191	6530	46	
	1915		10094	6661	46	
	1930		10053	6730	45	
	1945		10032	6826	44	
	2000		9998	6867	43	
	2015		9970	6936	43	
	2030		9943	6985	43	
	2045		9936	7047	42	
	2100		9929	7095	42	
	2115		9915	7143	42	
	2130		9901	7185	42	
	2145		9894	7226	42	
	2200		9887	7254	42	SWI FOR BUILD UP.
	2215		14886	7336	38	
	2230		16396	7198	35	
	2245		17141	7060	33	
	2300	1	17534	6502	32	
	2315		17741	6502	30	
	2330		17913	6771	30	
	2345		17955	6661	29	
	0000	2	18010	6578	28	
8.12.89						
	0015		18037	6550	27	

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138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

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Well: PELICAN # 2 UPPER Date: 8·12·89

Lubricator Data: Operator M. MUELLER

Pressure with D.W.T. In ..... Out .....

Time Pressured ..... Time Depressured .....

Time Run in Hole ..... Time off Bottom .....

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE # 4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA.	Casing KPA	Wellhead Temp. C	Remarks
8·12·89						
	0030		18065	6426	26	
	0045		18079	6364	26	
	0100	3	18099	6240	26	
	0115		18106	6274	25	
	0130		18120	6206	25	
	0145		18127	6185	25	
	0200	4	18134	6192	25	FLOW 3rd RATE. 20/64
	0215		9032	6130	27	
	0230		7915	6302	38	
	0245		7667	6578	39	
	0300		7647	6592	39	
	0315		7585	6681	39	
	0330		7557	6764	39	
	0345		7529	6847	39	
	0400		7516	6861	38	
	0415		7502	6929	38	
	0430		7495	6957	38	
	0445		7488	7012	38	
	0500		7488	7033	38	
	0515		7488	7060	38	
	0530		7488	7109	38	
	0545		7481	7136	38	
	0600		7481	7164	38	SWI FOR BUILD UP

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138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN 2 UPPER Date: 8.12.89

Lubricator Data:

Operator M MUELLER

Pressure with D.W.T. In ..... Out .....

Time Pressured ..... Time Depressured .....

Time Run in Hole ..... Time off Bottom .....

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE 4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. C	Remarks
8.12.89						
	0615		14335	7302	37	
	0630		15748	7205	34	
	0645		16838	7081	32	
	0700	1	17251	6978	31	
	0715		17624	6874	30	
	0730		17782	6785	31	
	0745		17858	6695	31	
	0800	2	17913	6667	33	
	0815		17961	6578	34	
	0830		17989	6536	35	
	0845		18010	6461	36	
	0900	3	17996	6412	36	
	0915		18017	6343	37	
	0930		18024	6309	38	
	0945		18030	6261	38	
	1000	4	18044	6240	39	START 4" FLOW RATE 28/64
	1015		5502	6095	44	
	1030		5233	6330	46	
	1045		5151	6440	47	
	1100		5171	6516	47	
	1115		5130	6571	47	
	1130		5137	6612	49	
	1145		5123	6674	49	

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WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN # 2 UPPER Date: 8.12.89

Lubricator Data: Operator M MUELLER

Pressure with D.W.T. In Out

Time Pressured Time Depressured

Time Run in Hole Time off Bottom

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE # 4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. C	Remarks
8.12.89						
	1200		5137	6716	49	
	1215		5123	6750	49	
	1230		5144	6798	51	
	1245		5151	6819	51	
	1300		5151	6967	51	
	1315		5144	6874	51	
	1330		5151	6888	51	
	1345		5151	6936	51	
	1400		5151	6923	51	SWI FOR BUILD UP.
	1415		13608	7136	50	
	1430		15383	7054	50	
	1445		16410	6936	50	
	1500	1	16886	6840	49	
	1515		17210	6743	49	
	1530		17355	6674	48	
	1545		17506	6585	49	
	1600	2	17589	6509	48	
	1615		17651	6447	48	
	1630		17693	6405	47	
	1645		17686	6357	45	
	1700	3	17789	6302	45	
	1715		17796	6254	45	
	1730		17851	6219	45	

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138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

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Well: PELICAN "2" WATER Date: 8.12.89

Lubricator Data: Operator M MUELLER

Pressure with D.W.T. In ..... Out .....

Time Pressured ..... Time Depressured .....

Time Run in Hole ..... Time off Bottom .....

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE #4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. C	Remarks
8.12.89						
	1745		17864	6171	44	
	1800	4	17899	6157	44	
	2000	6	18003	5840	37	
	2200	8	18044	5661	32	
9.12.89						
	0200	12	18141	5447	25	
	0600	16	18203	5302	22	
	1000	20	18203	5226	40	
	1400	24	18155	5116	46	
	1800	28	18189	5054	31	
	2200	32	18265	4964	27	
10.12.89						
	0200	36	18279	4909	26	
	0600	40	18341	4861	24	
	1000	44	18265	4840	49	
	1400	48	18244	4778	52	
	1800	52	18292	4764	47	
	2200	56	18320	4702	35	
11.12.89						
	0200	60	18348	4716	32	
	0600	64	18430	4668	28	

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EXPERTEST PTY LTD
WIRELINE & WELL TESTING SERVICE

138 RICHMOND ROAD MARLESTON SA 5033 POSTAL ADDRESS: PO BOX 354 COWANDILLA 5033

Well: PELICAN "2 UPPER Date: 11.12.89

Lubricator Data: Operator M MUELLER

Pressure with D.W.T. In Out

Time Pressured Time Depressured

Time Run in Hole Time off Bottom

	Bomb No. 1 Data		Bomb No. 2 Data	
Element No. and Range				
Recorder No.				
Clock and Lead Screw Data				
Engage Stylus	Date:	Time:	Date:	Time:
Disengage	Date:	Time:	Date:	Time:

Remarks: FOR BOMB DATA SEE PAGE 4

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead KPA	Casing KPA	Wellhead Temp. C	Remarks
11.12.89						
	0700	65	18444	4682	32	PULL OUT OF HOLE.
	0723		18451	4695	33	IN LUB
	0923		18451	4702	36	DEPRESSURE LUB.
	1015					RUN STATIC GRADIENT.
						SEE ATTACHED REPORT
	1230					RIG DOWN END SURVEY.

SANTOS LIMITED

PELICAN #2 LOWER

PATCHAWARRA

PRODUCTION DATA

21.12.89/7.1.90

11/3/91

5/3/91

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER :	SANTOS LIMITED	PERFORATIONS: 8127-8555 'KB	PAGE: 1 OF 1
WELL NAME:	PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 11/12/89
TEST TYPE :	DUMMY RUN		OPR : MUELLER

DATE/TIME	DESCRIPTION OF EVENTS
11/12/89	
14:00	RIG UP WIRELINE TO LOWER STRING
	R.I.H. 1.75 BLIND BOX. PICK UP EVERY 1000' TO 5000', THEN EVERY 500' INTERVALS
	THEREAFTER TO 7650' KB.
	NO OBSTRUCTIONS
15:05	P.O.H.
15:22	RIG DOWN
	SECURE WELL

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EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER :	SANTOS LIMITED	PERFORATIONS:	8127-8555' KB	PAGE: 1	OF 2
WELL NAME:	PELICAN #2 (LOWER)	FORMATION :	PATCHAWARRA	DATE:	23/12/89
TEST TYPE :	MODIFIED ISOCHRONAL			OPR :	D. McALLISTER

DATE/TIME	DESCRIPTION OF EVENTS
23/12/89	
14:30	M.I.R.U.
17:10	R.I.H. CCL TO CORRELATE DEPTH.
18:14	TOOLS AT SURFACE
23:14	R.I.H. E-LINE GAUGE AND AMERADA.
23:42	HANG AT 7650' KB.
24/12/89	
08:25	S.I.W. TO DIVERT FLOW TO SEPARATOR. PRESSURE TEST SURFACE LINES.
08:35	OPEN WELL TO FLARE THROUGH ADJ. CHOKE AND SEPARATOR BYPASS.
09:00	DIVERT THROUGH SEPARATOR.
12:00	SEPARATOR LIQUID LEVELS ESTABLISHED. COMMENCE TESTING. CLEAN UP FLOW.
26/12/89	
08:45	BEGIN H.P. SAMPLING, SET #1. COLLECT 3 x 201 H.P. GAS, 3 x 0.5L H.P. OIL
	AND 2 x 0.5L L.P. WATER SAMPLE. CF. SAMPLING DATA.
11:15	COMPLETE SAMPLING.
18:05	ESTABLISH CHOKE SETTINGS FOR ISOCHRONAL FLOWS.
21:00	S.I.W. AT WING VALVE. END OF CLEAN UP FLOW. MONITOR BUILD UP.
28/12/89	
13:00	P.O.O.H. E-LINE GAUGE & AMERADA.
14:00	IN LUBRICATOR.
15:00	DEPRESSURE LUBRICATOR.
	SERVICE E-LINE GAUGE .
18:50	PRESSURE LUBRICATOR.

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LIMITED	PERFORATIONS: 8127'-8555' KB	PAGE: 2 OF 2
WELL NAME: PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 28/12/89
TEST TYPE : MODIFIED ISOCHRONAL		OPR : D. McALLISTER

DATE/TIME	DESCRIPTION OF EVENTS
28/12/89	
19:50	R.I.H. E-LINE GAUGE AND AMERADA.
20:40	@ HANG DEPTH 7650' KB
29/12/89	
10:00	FLOW WELL THROUGH SEPARATOR COMMENCE MODIFIED ISOCHRONAL 1ST FLOW
14:00	S.I.W. MONITOR BUILD UP END 1ST FLOW
18:00	FLOW WELL THROUGH SEPARATOR 2ND FLOW
22:00	S.I.W. MONITOR BUILD UP END 2ND FLOW
30/12/89	
02:00	FLOW WELL THROUGH SEPARATOR 3RD FLOW
06:00	S.I.W. MONITOR BUILD UP END 3RD FLOW
10:00	FLOW WELL THROUGH SEPARATOR 4TH FLOW
14:00	END 4TH FLOW COMMENCE EXTENDED FLOW REDUCE CHOKE TO 28/64"
31/12/89	
14:00	S.I.W. END TEST COMMENCE 96HR BUILD UP
06/01/90	
06:00	END OF BUILD UP - TOTAL BUILD UP TIME = 136HRS
	PULL OUT OF HOLE CONDUCTING PROGRAMMED STATIC GRADIENT TO SURFACE
	RIG DOWN ALL EXPERTEST EQUIPMENT FROM LOCATION.
	HAND WELL BACK TO PRODUCTION

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127' - 8555'KB	PAGE: 1 OF 2
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 23RD DECEMBER 1989
TEST TYPE : MOD FOUR POINT ISOCHRONAL		OPR : T. CHAPMAN

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.		60322	
ELEMENT RANGE		5000psi	
RECORDING SECTION SERIAL NO.		12952	
DATE OF CALIBRATION:			
CLOCK SERIAL NO.		2884	
CLOCK RANGE		180 HR	
LEAD SCREW TYPE		15	
ENGAGE STYLUS DATE 23.12.89 TIME		21:58	
DISENGAGE STYLUS DATE 28.12.89 TIME		15:28	

RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
DATE : 23.12.89			
PRESSURE LUBRICATOR :	22:19	11780	4523
RUN IN HOLE :	23:14	11797	4523
ON DEPTH AT : 7650 FT/M	23:42	11825	4509
DATE : 28.12.89			
PULL OUT OF HOLE :	13:00	15879	752
AT SURFACE :	14:00	15886	745
DEPRESSURE LUBRICATOR :	15:00	15886	731

MAXIMUM BHT AT 7650 FT/M = 231 °F/C

N.B. ALL DEPTHS ARE MEASURED FROM K.B.

DATE	TIME	REMARKS
23.12.89		MONITOR FLOWING BOTTOM HOLE PRESSURE - WELL FLOWING INTO SANTOS GATHERING SYSTEM.
24.12.89	08:40	DIVERT FLOW THROUGH SEPARATOR - START CLEAN UP FLOW IN PREPARATION FOR PRE ISOCHRONAL SAMPLING (11/64 CHOKE)
	10:30	OPEN CHOKE TO 13/64THS.
26.12.89	12:00	START SAMPLING - 15:00 FINISH SAMPLING, FLOW AT SAME RATE FOR A FURTHER SIX HOURS.
	21:00	SHUT IN THE WELL FOR BUILD UP.
28.12.89	13:00	PULL OUT OF HOLE TO REDRESS S.R.O. GAUGE AND AMERADA IN PREPARATION FOR ISOCHRONAL TEST.
		TOTAL CHART TIME 112 HRS 41 MIN IN HOLE (P.U.L TO D.P.L.)

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EXPERTEST PTY LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127' - 8555'KB	PAGE: 2 OF 2
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 28TH DECEMBER 1989
TEST TYPE : MOD FOUR POINT ISOCHRONAL		OPR : T. CHAPMAN

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.		60322	
ELEMENT RANGE		5000psi	
RECORDING SECTION SERIAL NO.		12952	
DATE OF CALIBRATION:			
CLOCK SERIAL NO.		2866	
CLOCK RANGE		180 HR	
LEAD SCREW TYPE		15	
ENGAGE STYLUS DATE 28.12.89 TIME		18:30HRS	
DISENGAGE STYLUS DATE 07.01.90 TIME		15:30HRS	

RUN DATA	TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE KPa)
DATE : 28.12.89			
PRESSURE LUBRICATOR :	18:50	15900	731
RUN IN HOLE :	19:50	15907	710
ON DEPTH AT : 7650 FT/	20:40	15914	696
DATE : 06.01.90			
PULL OUT OF HOLE :	06:00	16279	221
AT SURFACE : 07.01.90	11.20		
DEPRESSURE LUBRICATOR :	11.20		
MAXIMUM BHT AT 7650 FT/ ' = 236 °F/			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

NOTE:- AMERADA CLOCK RUNS DOWN HOLE

DATE	TIME	REMARKS
28.12.89	20:40+	CONTINUE TO MONITOR BOTTOM HOLE PRESSURE BUILD UP.
29.12.89	10:00	START FIRST ISOCHRONAL RATE 7/64THS. FOUR HOURS FLOW FOLLOWED BY FOUR HOURS BUILD UP.
	18:00	START SECOND ISOCHRONAL RATE 17/64THS FOUR HOURS FLOW FOLLOWED BY FOUR HOURS BUILD UP.
30.12.89	02:00	START THIRD ISOCHRONAL RATE 24/64THS FOUR HOURS FLOW FOLLOWED BY FOUR HOURS BUILD UP.
	10:00	START FOURTH ISOCHRONAL RATE 39/64THS FOUR HOURS FLOW ONLY.
	14:00	START EXTENDED FLOW PERIOD - CUT BACK CHOKE TO 28/64THS.
31.12.89	14:00	SHUT IN WELL FOR THE FINAL BUILD UP
05.01.90	06:30	AMERADA CLOCK RUNS OUT DOWN HOLE.
06.01.90	06:00	END BUILD UP - CONDUCT STATIC GRADIENT SURVEY PULLING OUT OF HOLE.
	10:30	CABLE BIRDS NEST AT 131'KB
07.01.90	10:30	STRIP CABLE OUT OF HOLE - RECOVER ALL TOOLS AND CABLE END OF SURVEY

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS | PERFORATIONS: 8127' - 8555'KB | PAGE: 1 OF 14

WELL NAME: PELICAN #2L | FORMATION : PATCHAWARRA | DATE: 24TH DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : R. MOORE

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/ ;	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP ; /°C)	CHOKE SIZE 64TH	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/ ;	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK #
24.12.89															
0825		S.I.W. TO FLOW SEPARATOR. PRESSURE TEST.													
0835	0	OPEN WELL TO FLARE THROUGH ADJ. CHOKE AND SEPARATOR BYPASS													
0900		DIVERT THROUGH SEPARATOR.													
1000		1973	527	57	11		1.00	300	106	84					
1030		OPEN CHOKE TO 13/64"													
1200		LIQUID LEVELS ESTABLISHED IN SEPARATOR BEGIN FLOW RATE MEASUREMENT													
1200		1875	521	60	13		1.50	310	52	77					
1400		1862	521	61	"		"	315	62	79	14.50			1.50	1
1600		1854	533	59	"		"	315	64	79	51.75			27.25	2
1800		1851	537	59	"		"	300	72	77	19.50			1.50	1
2000		1844	536	57	"		"	300	72	72	54.75			27.50	2
2200		1842	535	56	"		"	300	72	66	20.75			1.50	1
2400		1866	525	55	"		"	300	66	63	57.25			27.50	2
25TH DECEMBER 1989															
0200		1880	514	55	"		"	295	62	61	23.50			1.50	1
0400		1892	500	55	"		"	290	58	50	59.75			27.50	2
0600	21.5	1894	490	55	"		"	290	56	55	26.00			1.50	1
0800		1902	481	55	"		"	290	55	59	62.50			27.50	2
0930		ROCKED CHOKE													
1000		1870	482	57	"		"	300	71	70	29.50			1.50	1
1200		1859	498	58	"		"	300	74	79	64.75			27.50	2

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS
WELL NAME: PELICAN #2L
TEST TYPE : MOD ISOCHRONAL

PERFORATIONS: 8127' - 8555'KB
FORMATION : PATCHAWARRA

DATE: 25TH DECEMBER 1989
OPR : R. MOORE

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (/°C)	CHOKE SIZE 64THS"	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/CM)	OIL (IN/CM)	OIL API GRAVITY @ 60°F	WATER (IN/CM)	TANK#
25TH DECEMBER 1989															
1400	29.5	1859	505	59	13		1.50	300	75	81	31.50			1.50	1
1600		1857	505	58	"		"	300	75	86	67.50			27.50	2
1800		1856	506	56	"		"	300	75	86	33.75			1.75	1
2000		1867	499	55	"		"	295	75	111	45.50			3.50	2
2200		1860	499	55	"		"	290	76	99	35.75			1.75	1
2400		1860	497	56	"		"	290	75	97	47.50			3.50	2
26TH DECEMBER 1989															
0200		1858	497	55	"		"	290	75	95	38.00			1.75	1
0400		1866	494	55	"		"	285	70	95	49.25			3.50	2
0600	45.5	1868	488	54	"		"	285	70	95	39.75			2.00	1
0800		1869	488	54	"		"	290	70	95	51.00			3.50	2
0845		START H.P. SAMPLE SET #1													
0900		1870	487	54	"		"	290	70	95	40.75			2.00	1
0945		START SAMPLE SET #2													
1000		1871	486	56	"		"	290	71	97	52.00			3.50	2
1045		START H.P. SAMPLE SET #3													
1100		1872	487	57	"		"	290	71	97	42.00			2.00	1
1115		COMPLETE SAMPLING													
1200		1873	484	58	"		"	290	71	99	53.00			3.50	2
1400		1871	483	58	"		"	295	71	100	44.00			2.00	1
1600		1870	483	56	"		"	295	71	99	54.75			3.50	2

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 3 OF 14
WELL NAME: PELICAN #2L	FORMATION : PATCHAWARRA	DATE: 26TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : R. MOORE

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/ ;	ANNULUS PRESSURE (PSI/ ;	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK #
26TH DECEMBER 1989															
1800	57.5	1870	481	55	13		1.50	290	71	97	45.75			2.00	1
1805		OPEN CHOKE TO BEGIN DETERMINING ISOCHRONAL CHOKE SETTINGS													
1900		815	612	56	38		2.25	310	92	113					
1930		1218	652	56	27		2.25	310	72	102					
2000		1520	668	56	20		1.75	300	124	97					
2030		1795	635	55	13		1.25	290	158	97					
2100	60.5	2013	563	53	4		0.75	270	53	95	65.50			9.50	2
		S.I.W. AT WING VALVE. END OF CLEAN UP FLOW.													
2115		WING VALVE - CLOSE BLOCK VALVE ON TEST FLANGE.													
2115		2092	516												
2130		2110	484												
2145		2128	450												
2200	1	2141	422												
2230		2159	368												
2300	2	2173	327												
2400		2196	262												
27TH DECEMBER 1989															
0100	4	2210	229												
0200		2220	208												
0600	9	2248	165												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS | PERFORATIONS: 8127' - 8555'KB | PAGE: 4 OF 14

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 27TH DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN	TANK #
27TH DECEMBER 1989															
1000	13	2265	147												
1400	17	2277	136												
1800	21	2283	127												
2200	25	2282	120												
28TH DECEMBER 1989															
0200	29	2289	115												
0600	33	2292	111												
1000	37	2299	113												
1300	40	2303	109	P.O.O.H. E-LINE GAUGE AND AMERADA											
1400	41	2304	108	IN LUBRICATOR											
1500	42	2304	106	DEPRESSURE LUBRICATOR											
1850		2306	106	PRESSURE LUBRICATOR											
1950		2307	103	R.I.H. E-LINE GAUGE AND AMERADA											
2040		2308	101	@ HANG DEPTH 7650'- K.B.											
2200	49	2309	101												
29TH DECEMBER 1989															
0200	53	2310	99												
0600	57	2313	98												
1000	61	2320	97		4 FLOW WELL THROUGH SEPARATOR						10.25	1ST FLOW		1	1
1010		2303			6 INCREASE CHOKE										
1015		2270	97	47	7 "	"									

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 5 OF 14
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 29TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK #
29TH DECEMBER 1989															
1025		DANIELS METER IN SERVICE													
1030	.5	2227	97	47	7		.750	385	138	93					
1045		2182	100	48	"		"	380	136	97					
1100	1	2136	100	49	"		"	380	136	97	10.25	9.25		1	1
1115		2137	108	50	"		"	380	118	102					
1130		2135	109	50	"		"	380	112	106					
1145		2132	112	50	"		"	380	116	113					
1200	2	2126	114	50	"		"	380	110	118	11	10		1	1
1215		2127	116	50	"		"	380	117	118					
1230		2126	117	50	"		"	380	118	120					
1245		2125	120	50	"		"	380	119	120					
1300	3	2125	125	51	"		"	380	120	120	11.5	10.5		1	1
1315		2128	127	51	"		"	380	120	120					
1330		2129	127	51	"		"	380	120	120					
1345		2129	127	51	"		"	375	122	118					
1400	4	2129	130	51	"		"	375	122	118	12	11		1	1
1400		S.I.W.	MONITOR	BUILD UP	END 1ST FLOW										
1415		2204	123												
1430		2216	118												
1445		2221	115												
1500	1	2225	112												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555' KB	PAGE: 6 OF 14
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 29TH DECEMBER1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN.	TANK #
29TH DECEMBER 1989															
1515		2227	109												
1530		2230	107												
1545		2231	105												
1600	2	2233	103												
1615		2235	99												
1630		2236	99												
1645		2237	97												
1700	3	2238	97												
1715		2240	96												
1730		2239	94												
1745		2240	93												
1800	4	2240	93	FLOW WELL THROUGH SEPARATOR 2ND FLOW 13/64" CHOKE											
1814					15	INCREASR CHOKE									
1815		2025													
1823		1994	114		17	INCREASE CHOKE									
1830		1899	120	52	"			455	126	95					
1835				REDUCE SEPARATOR BACK PRESSURE											
1845		1872	138	52				385	148	93					
1900	1	1857	154	52				385	146	97	13	12	49.1	1	
1915		1852	162	52				385	146	107					
1930		1845	175	52				385	146	109					

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 7 OF 14
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 29TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH"	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK #
29TH DECEMBER 1989															
1945		1841	187	53	17/64		1.500	385	146	109					
2000	2	1835	198	53	"		"	385	146	109	15	14		1	1
2015		1831	208	53	"		"	385	144	109	CHANGE TO TK#2 2.5" TOT.			1" H^2O	
2030		1828	217	53	"		"	385	144	109					
2045		1824	229	53	"		"	385	144	109					
2100	3	1821	236	53	"		"	385	144	109	4.5	3.25		1.25	2
2115		1819	247	53	"		"	385	143	109					
2130		1815	254	53	"		"	385	143	109					
2145		1812	260	53	"		"	385	142	109					
2200	4	1810	270	53	17/64		1.500	385	142	109	6	4.75		1.25	2
		SHUT IN WELL END OF 2ND RATE													
2215		2144	235												
2230		2180	204												
2245		2205	173												
2300	1	2217	142												
2315		2227	129												
2330		2234	102												
2345		2241	91												
2400	2	2245	59												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS | PERFORATIONS: 8127' - 8555'KB | PAGE: 8 OF 14

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 30TH DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK#
30TH DECEMBER 1989															
0015		2250	53												
0030		2253	36												
0045		2257	36												
0100	3	2259	29												
0115		2262	33												
0130		2263	21												
0145															
0200	4	2267	20	FLOW WELL THROUGH SEPARATOR 3RD FLOW 22/64" CHOKE											
0214		1707			24	INCREASE CHOKE									
0215		1642	45	51	24		2.0	390	119	108					
0230		1540	80	52	"		"	390	108	111					
0245		1511	114	52	"		"	385	104	115					
0300	1	1493	151	53	"		"	385	102	113	8.5	7		1.5	2
0315		1478	189	53	"		"	385	100	113					
0330		1466	219	53	"		"	385	98	109					
0345		1456	251	54	"		"	385	95	106					
0400	2	1453	273	54	"		"	385	95	111	11	9.5	50.1	1.5	2
0415		1449	295	54	"		"	385	95	115					
0430		1444	324	54	"		"	385	95	117					
0445		1437	346	54	"		"	385	94	117					
0500	3	1434	356	55				385	94	117	13	11.5		1.5	2

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 LOWER
TEST TYPE : MOD ISOCHRONAL

PERFORATIONS: 8127' - 8555'KB
FORMATION : PATCHAWARRA

DATE : 30TH DECEMBER 1989
OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK #
30TH DECEMBER 1989															
0515		1430	375	55	24		2.0	385	94	117					
0530		1425	384	55	"		"	385	93	118					
0545		1421	405	55	"		"	385	92	118					
0600	4	1418	418	55	"		"	385	92	118	14.5	13		1.5	2
		S.I.W.	END 3RD	FLOW MONITOR BUILD UP.											
0615		2039	366												
0630		2106	316												
0645		2136	275												
0700	1	2160	235												
0715		2177	207												
0730		2192	180												
0745		2205	160												
0800	2	2218	134												
0815		2226	117												
0830		2236	96												
0845		2244	84												
0900	3	2252	65												
0915		2258	60												
0930		2263	47												
0945		2271	44												
1000	4	2273	33												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS | PERFORATIONS: 8127' - 8555'KB | PAGE: 10 OF 14

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 30TH DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/)	ANNULUS PRESSURE (PSI/)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/)	OIL (IN/)	OIL API GRAVITY @ 60°F	WATER (IN/)	TANK #
30TH DECEMBER 1989															
1000		2273	33		38		FLOW WELL THROUGH SEPARATOR 4TH FLOW								
1015		985	76	55	39		INCREASE CHOKE								
1020					"		REDUCE SEPARATOR PRESSURE								
1030		931	135	55	"		2.250	380	116	124					
1045		910	183	56	"		"	380	112	124					
1100	1	896	226	56	"		"	380	108	126	16.5	14.75		1.75	2
1115		888	256	56	"		"	380	105	127					
1130		879	300	57	"		"	380	103	127					
1145		872	320	57	"		"	380	102	127					
1200	2	868	344	58	"		"	385	100	127	19.5	16.5		3	2
1215		863	366	58	"		"	380	98	129					
1230		857	381	58	"		"	380	98	129					
1245		857	401	59	"		"	380	96	131					
1300	3	848	412	59	"		"	380	95	131	21.5	18		3.5	2
1315		843	427	59	"		"	380	94	131					
1330		838	444	59	"		"	380	93	131					
1345		833	450	59	"		"	380	92	131					
1400	4	831	461	59				380	92	131	23	19		4	2
		END 4TH FLOW COMMENCE EXTENDED FLOW													
1404		REDUCE CHOKE TO 28/64"													
1500	1	1175	510	59	28		2.0	385	108	120	24.5	19.5		5	2

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08000

EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 LOWER
TEST TYPE : MOD ISOCHRONAL

PERFORATIONS: 8127' - 8555'KB
FORMATION : PATCHAWARRA

DATE :30TH DECEMBER 1989
OPR :D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (/°C)	CHOKE SIZE 64TH"	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN:)	TANK #
30TH DECEMBER 1989								INITIAL DIP			18			1.5	1
1600	2	1167	534	61	28		2.0	375	108	118	19.5	17.5		2	1
1700	3	1162	560	61	"		"	375	107	117	21.5	18.75		2.75	1
1800	4	1154	580	61	"		"	375	104	118	23.25	19.5		3.75	1
1900	5	1147	594	60	"		"	375	103	117	25	20.5		4.5	1
2000	6	1141	607	60	"		"	375	102	116	27	21.75		5.25	1
2100	7	1137	619	60	"		"	375	102	118	28.5	22.75		5.75	1
2200	8	1133	627	60	"		"	375	99	118	29.25	23.00		6.25	1
2300	9	1130	637	60	"		"	375	100	118	31.25	24.25		7	1
2400	10	1125	645	60	"		"	375	100	118	33	25.5		7.5	1
31ST DECEMBER 1989															
0100	11	1123	652	60	"		"	375	100	118	35	26.75		8.25	1
0200	12	1121	656	60	"		"	375	99	118	36.75	28.0		8.75	1
0300	13	1118	662	60	"		"	371	98	118	38.25	28.75		9.5	1
0400	14	1117	667	60	"		"	370	97	118	40.5	30.5		10	1
0500	15	1114	674	60	"		"	370	98	118	43.25	32.25		11	1
0600	16	1113	678	60	"		"	370	97	118	45.75	34		11.75	1
0700	17	1112	684	60	"		"	371	97	118	48	35.5		12.5	1
0800	18	1113	690	62	"		"	373	97	118	50.0	36.75		13.25	1
0900	19	1110	690	62	"		"	373	96	122	51.5	38		13.5	1
1000	20	1112	695	62	"		"	376	96	122	54.25	40		14.25	1
1100	21	1114	700	63	"		"	378	96	122	55	40.5		14.5	1

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS | PERFORATIONS: 8127' - 8555'KB | PAGE: 12 OF 14

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 31ST DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP /°C)	CHOKE SIZE 64TH "	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/	OIL (IN/	OIL API GRAVITY @ 60°F	WATER (IN/	TANK#
31ST DECEMBER 1989															
1200	22	1113	701	64	28		2.0	379	96	126	57	41.75		15.25	1
1300	23	1113	704	65	"		"	379	96	126	59.25	43.25		16	1
1400	24	1112	706	65	"		"	379	96	127	61.5	44.5		17	1
	S.I.W.	END TEST	MONITOR	BUILD UP											
1401		1450	-NA-												
1402		1558	-NA-												
1403		1625	-NA-												
1404		1672	-NA-												
1405		1706	713												
1410		1800	692												
1415		1851	670												
1430	.5	1935	614												
1445		1980	569												
1500	1	2011	526												
1515		2034	491												
1530		2051	458												
1545		2067	426												
1600	2	2077	401												
1700	3	2119	310												
1800	4	2152	236												
1900	5	2174	181												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555' KB	PAGE: 13 OF 14
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 31ST DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/CM)	OIL (IN/CM)	OIL API GRAVITY @ 60°F	WATER (IN/CM)	
31ST DECEMBER 1989															
2000	6	2189	143												
2400	10	2238	READING TAKEN FROM CHART												
1ST JANUARY 1990															
0400	14	2254	40												
0800	18	2258	40												
1200	22	2288	39												
1600	26	2294	37												
2000	30	2299	36												
2400	34	2303	36												
2ND JANUARY 1990															
0400	38	2304	33												
0800	42	2310	33												
1200	46	2317	35												
1600	50	2320	33												
2000	54	2320	31												
2400	58	2321	32												
3RD JANUARY 1990															
0400	62	2323	31												
0800	66	2326	31												
1200	70	2336	35												
1600	74	2337	31												

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EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 LOWER
TEST TYPE : MOD ISOCHRONAL
PERFORATIONS: 8127' - 8555'KB
FORMATION : PATCHAWARRA
PAGE: 14 OF 14
DATE: 3RD JANUARY 1990
OPR : D.J. McALLISTER

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/.	ANNULUS PRESSURE (PSI/	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/CM)	OIL (IN/CM)	OIL API GRAVITY @ 60°F	WATER (IN/CM)	
3RD JANUARY 1990															
2000	78	2339	34												
2400	82	2338	31												
4TH JANUARY 1990															
0400	86	2339	31												
0800	90	2340	31												
1200	94	2348	33												
1600	98	2352	33												
2000	102	2350	34												
5TH JANUARY 1990															
0000	106	2350	32												
0400	110	2352	31												
0800	114	2352	32												
1200	118	2359	34												
1600	122	2363	33												
2000	126	2365	33												
6TH JANUARY 1990															
0000	130	2364	32												
0400	134	2363	33												
0600	136	2361	32	PULL OUT OF HOLE CONDUCTING STATIC GRADIENT TO SURFACE											
				END OF BUILD UP											
				END OF SURVEY											

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00090

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127-8555' KB | PAGE: 1 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 24/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/0^6m^3$	BHP. Kpa
24 DEC															
10:00	1.5	13603	3633	57	11	2068	29	25.27							17446
12:00		COMMENCE RATE MEASUREMENT.													
12:00		12928	3592	60	13	2137	25	41.76							16886
14:00		12838	3592	61	"	2171	26	45.89	3.37	0				73.48	16806
16:00		12783	3675	59	"	2171	26	46.63	1.83	0				39.45	16699
18:00		12762	3702	59	"	2068	25	48.17	6.13	0				127.28	16681
20:00		12714	3695	57	"	2068	22	48.62	3.37	0.30				75.66	16664
22:00		12700	3688	56	"	2068	19	49.19	1.53	0				31.16	16659
24:00		12866	3619	55	"	2068	17	47.37	3.06	0				64.71	16812
25 DEC															
02:00		12962	3544	55	"	2034	16	45.61	3.37	0				73.94	16906
04:00		13045	3447	55	"	1999	10	44.65	3.06	0				68.65	17023
06:00	21.5	13059	3378	55	"	1999	13	43.40	3.06	0	39.11	2.399	0.025	70.63	17057
08:00		13114	3316	55	"	19999	15	42.66	3.37	0				79.05	17103
10:00		12893	3323	57	"	2068	21	48.46	4.29	0				88.55	16886
12:00		12817	3433	58	"	2068	26	48.66	2.75	0				56.70	16773
14:00		12817	3481	59	"	2068	27	48.82	2.45	0				50.24	16749
16:00		12804	3481	58	"	2068	30	48.39	3.37	0				69.68	16759
18:00		12797	3488	56	"	2068	30	48.39	2.45	0.30				57.01	16749
20:00	35.5	12872	3440	55	"	2034	44	46.07	2.45	0				53.23	16840

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 2 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 25/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	LGR $m^3/10^6 m^3$	BHP Kpa
25 DEC															
22:00	37.5	12824	3440	55	13	1999	37	46.76	2.45	0				52.45	16801
24:00		12824	3426	56	"	1999	36	46.59	2.45	0				52.63	16801
26 DEC															
02:00		12810	3426	55	"	1999	35	46.74	2.75	0				59.03	16789
04:00		12866	3406	55	"	1965	35	44.69	2.14	0				48.01	16846
06:00	45.5	12879	3364	54	"	1965	35	44.69	1.83	0.30	85.85	5.127	0.075	48.01	16870
08:00		12886	3364	54	"	1999	35	45.15	2.14	0				47.53	16875
09:00		12893	3357	54	"	1999	35	45.15	2.45	0				54.32	16872
10:00		12900	3350	56	"	1999	36	45.33	2.45	0				54.10	16872
11:00		12907	3357	57	"	1999	36	45.33	3.06	0				67.63	16875
12:00		12914	3337	58	"	1999	37	45.19	2.45	0				54.27	16879
14:00		12900	3330	58	"	2034	38	45.57	2.45	0				53.82	16875
16:00		12893	3330	56	"	2034	37	45.64	2.14	0				47.02	16865
18:00	57.5	12893	3316	55	"	1999	36	45.33	2.14	0				47.34	16864
18:05		BEGIN	SETTING	ISOCHRONAL	RATES.										
19:00		5619	4219	56	38	2137	45	125.11							13112
19:30		8398	4495	56	27	2137	39	112.52							13506
20:00		10480	4605	56	20	2068	36	84.40							14689
20:30		12376	4378	55	13	1999	36	46.61							16204
21:00	60.5	13879	3881	53	4	1861	35	9.22			115.11	6.783	0.688		17667

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 3 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 26/12/89

TEST TYPE : MODIFIED ISOCHRONAL | | OPR : D. McALLISTER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		BHP. Kpa
26 DEC		MONITOR	BUILD	UP											
21:00	0	13879	3881												17667
21:15		14424	3558												18273
21:30		14548	3337												18471
21:45		14673	3103												18611
22:00	1	14762	2910												18719
22:30		14886	2537												18885
23:00		14983	2255												19018
24:00		15141	1806												19217
27 DEC															
01:00		15238	1579												19364
02:00		15307	1434												19475
06:00	9	15500	1138												19741
10:00	13	15617	1014												19892
14:00	17	15700	938												19975
18:00	21	15741	876												20037
22:00	25	15734	827												20085
28 DEC															
02:00	29	15783	793												20120
06:00	33	15803	765												20161
10:00	37	15852	779												20192

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 4 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 28/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	LGR $m^3/10^6 m^3$	BHP Kpa
28/12/89															
13:00	40	15879	752		P.O.O.H. E-LINE GAUGE & AMERADA										20216
14:00	41	15886	745		IN LUBRICATOR										
15:00		15886	731		DEPRESSURE LUBRICATOR										15921
18:10		15900	731		DEPRESSURE LUBRICATOR										
19:50		15907	710		R.I.H. E-LINE GAUGE & AMERADA										15952
20:40		15914	696		@ HANG DEPTH 7650' KB										20281
22:00	49	15921	696												20281
29/12/89															
02:00		15927	683												20310
06:00		15948	676												20338
10:00	61	15996	669		4 FLOW WELL THROUGH SEPARATOR 1ST FLOW										20366
10:10		15879			6 INCREASE CHOKE										
10:15		15652	669	47	7		"	"							20015
10:25					DANIELS METER IN SERVICE										
10:30	.5	15355	669	47	7	2655	34	18.47			.385				19726
10:45		15045	690	48	"	2620	36	18.04			.573				19627
11:00	1	14728	690	49	"	2620	36	18.04	ø	ø	.761	ø	ø		19561
11:15		14735	745	50	"	2620	39	16.64			.934				19609
11:30		14721	752	50	"	2620	41	16.09			1.102				19609
11:45		14700	772	50	"	2620	45	16.17			1.27				19602
12:00	2	14659	786	50	"	2620	48	15.62			1.84	/0	ø	117.8	19581

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED
WELL NAME: PELICAN #2 (LOWER)
TEST TYPE : MODIFIED ISOCHRONAL
PERFORATIONS: 8127'-8555' KB
FORMATION : PATCHAWARRA

DATE: 29/12/89
OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
29/12/89															
12:15		14666	800	50	7	2620	48	16.11			1.601				19566
12:30		14659	807	50	"	2620	49	16.12			1.769				19552
12:45		14652	827	50	"	2620	49	16.19			1.938				19538
13:00	3	14652	862	51	"	2620	49	16.26	1.23	Ø	2.107	.128	Ø	75.65	19524
13:15		14673	876	51	"	2620	49	16.26			2.276				19512
13:30		14679	876	51	"	2620	49	16.26			2.445				19506
13:45		14679	876	51	"	2586	48	16.32			2.615				19495
14:00	4	14679	896	51	"	2586	48	16.32	1.23	Ø	2.785	.179	/0	75.37	19486
				S.I.W. END 1ST FLOW. MONITOR BUILD UP											
14:15		15197	848												20012
14:30		15279	814												20106
14:45		15313	793												20153
15:00	1	15341	772												20180
15:15		15355	752												20201
15:30		15376	738												20220
15:45		15383	724												20242
16:00	2	15397	710												20250
16:15		15410	683												20263
16:30		15417	683												20275
16:45		15424	669												20286
17:00		15431	669												20296

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED	PERFORATIONS: 8127'-8555' KB	PAGE: 6 OF 14
WELL NAME: PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 29/12/89
TEST TYPE : MODIFIED ISOCHRONAL		OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
29/12/89															
17:15		15445	662												20304
17:30		15438	648												20312
17:45		15445	641												20319
18:00	4	15445	641		13/64 FLOW WELL THROUGH SEPARATOR					2ND FLOW					20325
18:14		14314			INCREASE CHOKE TO 15/64										
18:15		13962			PRODUCING FLUID TO TANK #1					METER IN	SERVICE	1.500"	ORIFICE		18909
18:23		13748	786		INCREASE CHOKE TO 17/64										
18:30		13093	827	52	17/64	3137	35	80.55							17985
18:35					DECREASE SEPARATOR PRESSURE										
18:45		12907	951	52		2654	34	78.17							17657
19:00	1	12804	1061	52		2654	36	77.02	2.44	Ø		.281		31.68	17517
19:15		12769	1116	52		2654	42	75.59							17438
19:30		12721	1206	52	17/64	2654	43	75.31							17361
19:45		12693	1289	53	17/64	2654	43	75.31							17296
20:00	2	12652	1365	53	17/64	2654	43	75.31	4.89	Ø		.485		64.93	17234
20:15		12624	1434	53	17/64	2654	43	74.59							17182
20:30		12604	1496	53	17/64	2654	43	74.59							17135
20:45		12576	1578	53	17/64	2654	43	74.59							17088
21:00	3	12555	1627	53	17/64	2654	43	74.59	4.29	.025		.663	.025	57.51	17045
21:15	3	12542	1703	53	17/64	2654	43	74.53							17014
21:30		12514	1751	53	17/64	2654	43	74.53							16968

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 7 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 29/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
29/12/89															
21:45		12493	1792	53		2654	43	74.27							16928
22:00	4	12497	1861	53	17/64	2654	43	74.27	3.69	Ø	15.415	.813	.025	49.68	16915
		SHUT IN WELL	END OF	RATE #2											
22:15		14782	1620												18986
22:30		15031	1406												19340
22:45		15203	1193												19524
23:00	1	15286	979												19648
23:15		15355	890												19738
23:30		15403	703												19813
23:45		15452	627												19872
24:00	2	15479	407												19921
30/12/89															
00:15		15514	365												19962
00:3		15534	248												19921
00:45		15562	248												20033
01:00	3	15576	120												20062
01:15		15597	228												20088
01:30		15603	145												20112
01:45															20134
02:00	4	15631	138		FLOW WELL THROUGH SEPARATOR				22/64" CHOKE		3RD FLOW				20145

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 8 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 30/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
30/12/89															
02:14		11770			24	INCREASE CHOKE									
02:15		11322	310	51	"	2689	42	126.12			1.31				16724
02:30		10618	552	52	"	2689	44	119.48			2.55				15886
02:45		10418	786	52	"	2655	46	115.49			3.75				15590
03:00	1	10294	1041	53	"	2655	45	114.77	5.52	1.5	4.95	.229	.026	61.17	15405
03:15		10191	1303	53	"	2655	45	113.63			6.13				15269
03:30		10108	1510	53	"	2655	43	113.28			7.31				15155
03:45		10039	1731	54	"	2655	41	112.13			8.48				15062
04:00	2	10018	1882	54	"	2655	44	111.13	6.13	ø	9.64	.485	.026	56.16	14996
04:15		9991	2034	54	"	2655	46	110.36			10.79				14935
04:30		9956	2234	54	"	2655	47	109.99			11.94				14875
04:45		9908	2386	54	"	2655	47	109.41			13.08				14817
05:00	3	9887	2455	55	"	2655	47	109.41	4.91	ø	14.22	.689	.026	44.88	14766
05:15		9860	2586	55	"	2655	47	109.41			15.36				14717
05:30		9825	2682	55	"	2655	48	108.64			16.49				14674
05:45		9798	2792	55	"	2655	48	108.05			17.62				14628
06:00	4	9777	2882	55	"	2655	48	108.05	3.68	ø	18.75	.842	.026	34.06	14588
				S.I.W. END 3RD FLOW. MONITOR BUILD UP											
06:15		14059	2524												17901
06:30		14521	2179												18507
06:45		14728	1896												18805

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 9 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 30/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
30/12/89															
07:00	1	14893	1620												18988
07:15		15010	1427												19122
07:30		15114	1241												19232
07:45		15204	1103												19327
08:00	2	15293	924												19410
08:15		15348	807												19483
08:30		15417	662												19547
08:45		15472	579												19605
09:00	3	15528	448												19658
09:15		15569	414												19708
09:30		15603	324												19752
09:45		15659	303												19792
10:00	4	15672	228		38			FLOW WELL THROUGH SEPARATOR 4TH FLOW							19828
10:15		6792	524		39			INCREASE CHOKE							14311
10:20								REDUCE SEPARATOR PRESSURE							
10:30		6419	931	55	39	2620	51	155.05			1.62				13679
10:45		6274	1262	56	"	2620	51	152.34			3.21				13375
11:00		6178	1558	56	"	2620	52	149.11	4.29	.613	4.76	.179	.026	32.86	13179
11:15		6123	1765	56	"	2620	53	146.79			6.29				13035
11:30		6061	2069	57	"	2620	53	145.38			7.8				12913
11:45		6012	2206	57	"	2620	53	144.67			9.31				12810

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED
WELL NAME: PELICAN #2 (LOWER)
TEST TYPE : MODIFIED ISOCHRONAL
PERFORATIONS: 8127'-8555' KB
FORMATION : PATCHAWARRA

DATE: 30/12/89
OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 64th in.	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
30/12/89															
12:00	2	5985	2372	58	39	2655	53	144.38	4.29	3.06	10.81	.358	.154	50.91	12718
12:15		5950	2524	58	"	2620	54	141.36			12.28				12633
12:30		5909	2627	58	"	2620	54	141.36			13.75				12554
12:45		5909	2765	59	"	2620	55	139.47			15.2				12479
13:00	3	5847	2841	59	"	2620	55	138.74	3.68	1.23	16.65	.511	.205	35.39	12408
13:15		5812	2944	59	"	2620	55	138.01			18.09				12341
13:30		5778	3061	59	"	2620	55	137.27			19.52				12277
13:45		5744	3103	59	"	2620	55	136.53			20.94				12217
14:00	4	5730	3179	59	"	2620	55	136.53	2.45	1.23	22.36	.613	.256	26.95	12161
					END 4TH FLOW		COMMENCE EXTENDED FLOW								
					28	REDUCE	CHOKE								
15:00	1	8102	3516	59	"	2654	49	116.71	1.23	2.45	4.86	.051	.102	31.53	13142
16:00	2	8046	3682	61	"	2586	48	115.23	2.45	1.23	9.66	.153	.153	31.94	13069
17:00	3	8012	3861	61	"	2586	47	114.88	3.06	1.84	14.45	.281	.23	42.65	12989
18:00	4	7957	3999	61	"	2586	48	113.07	1.839	2.4528	19.158	.357	.332	37.94	12916
19:00	5	7909	4096	60	"	2586	47	112.71	2.45	1.84	23.86	.459	.409	38.06	12853
20:00	6	7867	4185	60	"	2586	47	112.34	3.066	1.84	28.54	.587	.485	43.62	12796
21:00	7	7839	4268	60	"	2586	48	111.97	2.45	1.226	33.21	.689	.536	33.04	12743
22:00	8	7812	4323	60	"	2586	48	110.31	.613	1.226	37.81	.714	.587	16.68	12704
23:00	9	7791	4392	60	"	2586	48	110.86	3.07	1.84	42.43	.842	.664	44.29	12665
00:00	10	7757	4447	60	"	2586	48	110.86	2.45	1.23	47.05	.944	.715	33.20	12630

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 11 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 31/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	L.G.R. $m^3/10^6 m^3$	B.H.P. Kpa
31/12/89															
01:00	11	7743	4495	60	28	2585	48	110.86	3.68	1.84	51.67	1.097	.791	49.79	12598
02:00	12	7729	4523	60	"	2585	48	110.31	3.066	1.226	56.266	1.225	.842	38.89	12568
03:00	13	7709	4564	60	"	2558	48	109.0	1.84	1.84	60.81	1.302	.919	33.76	12540
04:00	14	7701	4599	60	"	2551	48	108.3	4.29	1.23	65.32	1.48	.97	50.97	12518
05:00	15	7681	4647	60	"	2551	48	108.9	4.29	2.45	69.86	1.66	1.07	61.89	12499
06:00	16	7674	4675	60	"	2551	48	108.3	4.29	1.84	74.37	1.84	1.15	56.50	12479
07:00	17	7667	4716	60	"	2558	48	108.47	3.68	1.84	78.89	1.99	1.23	50.89	12460
08:00	18	7674	4758	62	"	2572	48	108.83	3.07	1.84	83.42	2.12	1.30	42.12	12447
09:00	19	7653	4758	62	"	2572	50	108.13	3.07	.613	87.93	2.25	1.33	34.06	12431
10:00	20	7667	4792	62	"	2593	50	108.09	4.91	1.84	92.43	2.45	1.41	62.45	12419
11:00	21	7681	4827	63	"	2606	50	108.44	1.23	.613	96.95	2.50	1.43	17.0	12419
12:00	22	7674	4833	64	"	2613	52	107.92	3.07	1.84	101.45	2.63	1.51	45.50	12398
13:00	23	7674	4854	65	"	2613	52	107.92	3.68	1.84	105.95	2.78	1.59	51.15	12386
14:00	24	7667	4868	65	"	2613	53	107.75	3.07	2.45	110.44	2.91	1.69	51.23	12375
				S.I.W. END TEST											
		CUMMULATIVE ISOCHRONAL & EXTENDED FLOW RATE PRODUCTION -											GAS	169.75	$10^3 m^3$
													OIL	5.18	m^3
			MONITOR 96HR BUILD UP										H2O	2.0	m^3
14:01		9998	N/A												12926
14:02		10742	N/A												13692
14:03		11204	N/A												14210

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED | PERFORATIONS: 8127'-8555' KB | PAGE: 12 OF 14

WELL NAME: PELICAN #2 (LOWER) | FORMATION : PATCHAWARRA | DATE: 31/12/89

TEST TYPE : MODIFIED ISOCHRONAL | OPR : D. McALLISTER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		B.H.P. Kpa
31/12/89															
14:04		11528													14586
14:05		11763	4916												14865
14:10		12411	4771												15680
14:15		12763	4620												16132
14:30	.5	13342	4234												16863
14:45		13652	3923												17261
15:00	1	13866	3627												17533
15:15		14024	3385												17735
15:30		14142	3158												17891
15:45		14252	2937												18020
16:00	2	14321	2765												18129
17:00	3	14611	2138												18507
18:00	4	14838	1627												18794
19:00	5	14990	1248												19008
20:00	6	15093	986												19170
00:00	10	15431		READING TAKEN FROM CHART											19561
1/1/90															
04:00	14	15541	276												19783
08:00	18	15569	276												19932
12:00	22	15776	269												20026
16:00	26	15817	255												20094

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED
WELL NAME: PELICAN #2 (LOWER)
TEST TYPE : MODIFIED ISOCHRONAL
PERFORATIONS: 8127'-8555' KB
FORMATION : PATCHAWARRA.

DATE: 1/1/90
OPR : D. MCALLISTER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		B.H.P. Kpa
1/1/90															
20:00	30	15852	248												20154
00:00	34	15879	248												20202
2/1/90															
04:00	38	15886	228												20233
08:00	42	15927	228												20267
12:00	46	15976	241												20289
16:00	50	15996	228												20320
20:00	54	15996	214												20345
00:00	58	16003	221												20369
3/1/90															
04:00	62	16017	214												20395
08:00	66	16038	214												20420
12:00	70	16107	241												20443
16:00	74	16114	215												20467
20:00	78	16127	234												20489
00:00	82	16121	214												20510
4/1/90															
04:00	86	16127	214												20532
08:00	90	16134	214												20553
12:00	94	16190	228												20574
16:00	98	16217	228												20589

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LIMITED
WELL NAME: PELICAN #2 (LOWER)
TEST TYPE : MODIFIED ISOCHRONAL
PERFORATIONS: 8127'-8555' KB
FORMATION : PATCHAWARRA
PAGE: 14 OF 14
DATE: 4/1/90
OPR : T. CHAPMAN

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		B.H.P. Kpa
4/1/90															
20:00	102	16203	234												20616
5/1/90															
00:00	106	16203	221												20634
04:00	110	16217	214												20651
08:00	114	16217	221												20666
12:00	118	16265	234												20682
16:00	122	16293	228												20698
20:00	126	16307	228												20708
6/1/90															
00:00	130	16300	221												20720
04:00	134	16293	228												20731
06:00	136	16279	221	PULL OUT OF HOLE CONDUCTING A STATIC GRADIENT TO SURFACE											
					END OF BUILD UP.										
												END OF SURVEY			

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EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 1 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 24TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : R. MOORE

ORIFICE METER TYPE: DANIEL	STATIC PRESSURE RANGE : 0.1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826"	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = 0.9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.2216

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 1/64"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3/D$)
24TH DECEMBER	1989														
		* GAS S.G. USED IS TIRRAWARRA FIELD AVERAGE FOR PATCHAWARRA GAS.													
1000	1.5	11	315	106	84	1.00	182.7293	202.20	0.9776	1.1092	1.0022		4884.12		25.27
1200		13	325	52	77	1.50	130.0000	462.26	0.9840	1.1211	1.0010		11334.76		41.76
1400		"	330	62	79	"	143.0384	"	0.9822	1.1216	1.0012		11330.96		45.89
1600		"	330	64	79	"	145.3272	"	0.9822	1.1216	1.0012		11331.40		46.63
1800		"	315	72	77	"	150.5988	"	0.9840	1.1159	1.0014		11297.00		48.17
2000		"	315	72	72	"	150.5988	"	0.9886	1.1210	1.0014		11402.24		48.62
2200		"	315	72	66	"	150.5988	"	0.9942	1.1277	1.0014		11535.47		49.19
2400		"	315	66	63	"	144.1873	"	0.9971	1.1313	1.0013		11603.79		47.37
25TH DECEMBER	1989														
0200		"	310	62	61	"	138.6362	"	0.9990	1.1306	1.0012		11618.67		45.61
0400		"	305	58	50	"	133.0037	"	1.0097	1.1417	1.0012		11857.59		44.65
0600	21.5	"	305	56	55	"	130.6904	"	1.0048	1.1349	1.0011		11729.66		43.40
0800		"	305	55	59	"	129.5183	"	1.0009	1.1299	1.0011		11632.51		42.66
1000		"	315	71	70	"	149.5493	"	0.9905	1.1232	1.0014		11445.53		48.46
1200		"	315	74	79	"	152.6761	"	0.9822	1.1139	1.0015		11256.71		48.66
1400		"	315	75	81	"	153.7042	"	0.9803	1.1120	1.0015		11216.93		48.82
1600		"	315	75	86	"	153.7042	"	0.9759	1.1075	1.0015		11119.89		48.39
1800	33.5	"	315	75	86	"	153.7042	"	0.9759	1.1075	1.0015		11119.89		48.39

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EXPERTECH PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 2 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 25TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : R. MOORE

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = 0.9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.2216

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 1/64"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C (C = $C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
25TH DECEMBER	1989														
2000	35.5	13	310	75	111	1.50	152.4795	462.26	0.9542	1.0868	1.0015		10671.50		46.07
2200		"	305	76	99	"	152.2497	"	0.9644	1.0930	1.0016		10846.70		46.76
2400		"	305	75	97	"	151.2448	"	0.9662	1.0944	1.0015		10880.10		46.59
26TH DECEMBER	1989														
0200		"	305	75	95	"	151.2448	"	0.9679	1.0958	1.0015		10914.24		46.74
0400		"	300	70	95	"	144.9137	"	0.9679	1.0938	1.0015		10892.98		44.69
0600	45.5	"	300	70	95	"	144.9137	"	0.9679	1.0938	1.0015		10892.98		44.69
0800		"	305	70	95	"	146.1163	"	0.9679	1.0958	1.0014		10913.08		45.15
0900		"	305	70	95	"	146.1163	"	0.9679	1.0958	1.0014		10913.08		45.15
1000		"	305	71	97	"	147.1563	"	0.9662	1.0944	1.0015		10879.18		45.33
1100		"	305	71	97	"	147.1563	"	0.9662	1.0944	1.0015		10879.18		45.33
1200		"	305	71	99	"	147.1563	"	0.9644	1.0930	1.0015		10845.55		45.19
1400		"	310	71	100	"	148.3576	"	0.9636	1.0942	1.0014		10848.15		45.57
1600		"	310	71	99	"	148.3576	"	0.9644	1.0949	1.0014		10865.00		45.64
1800	57.5	"	305	71	97	"	147.1563	"	0.9662	1.0944	1.0015		10879.18		45.33
1900		38	325	92	113	2.25	172.9161	1104.67	0.9526	1.0909	1.0015		25551.99		125.11
1930		27	325	72	102	2.25	152.9705	1104.67	0.9619	1.0987	1.0012		25976.93		112.52
2000		20	315	124	97	1.75	197.6360	637.83	0.9662	1.0985	1.0024		15081.34		84.40
2030		13	305	158	97	1.25	219.5222	318.03	0.9662	1.0944	1.0034		7498.89		46.61

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EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555' KB	PAGE: 3 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 26TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : R. MOORE

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = 0.9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.2216

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 1/64"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3/D$)
26TH DECEMBER	1989														
2100	60.5	4	285	53	95	0.75	122.9024	113.15	0.9679	1.0878	1.0012		2650.99		9.22
	S.I.W. END OF CLEAN UP FLOW														
29TH DECEMBER	1989														
1000		4	FLOW WELL THROUGH SEPARATOR 1ST FLOW												
1010		6	INCREASE CHOKE												
1015		7	"	"											
1025		7	DANIELS METER IN SERVICE												
1030	.5	"	400	138	93	.750	234.9468	113.15	.96970	1.14215	1.00229	125.610	2791.350	.656	18.47
1045		"	395	136	97	"	231.7758	"	.96621	1.13466	1.00229	124.337	2763.052	.640	18.04
1100	1	"	395	136	97	"	231.7758	"	.96621	1.13466	1.00229	124.337	2763.052	.640	18.04
1115		"	395	118	102	"	215.8935	"	.96190	1.12898	1.00199	123.125	2736.127	.591	16.64
1130		"	395	112	106	"	210.3331	"	.95850	1.12472	1.00188	122.214	2715.868	.571	16.09
1145		"	395	116	113	"	214.0561	"	.95263	1.11779	1.00195	120.725	2682.789	.574	16.17
1200	2	"	395	110	118	"	208.4466	"	.94850	1.11322	1.00185	119.698	2659.967	.554	15.62
1215		"	395	117	118	"	214.9767	"	.94850	1.11322	1.00179	119.712	2660.281	.572	16.11
1230		"	395	118	120	"	215.8935	"	.94686	1.11147	1.00199	119.320	2651.564	.572	16.12
1245		"	395	119	120	"	216.8064	"	94686	1.11147	1.00200	119.322	2651.609	.575	16.19
1300	3	"	395	120	120	"	217.7154	"	.94686	1.11147	1.00202	119.324	2651.653	.577	16.26
1315		"	395	120	120	"	217.7154	"	.94686	1.11147	1.00202	119.324	2651.653	.577	16.26

ET 106

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 4 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 29TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

ORIFICE METER TYPE: DANIELS SENIOR	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = .9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.222

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 64TH"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
29TH DECEMBER		1989													
1330		7	395	120	120	.750	217.7154	113.15	.94686	1.11147	1.00202	119.324	2651.653	.577	16.26
1345		7	390	122	118	"	218.1284	"	.94850	1.11128	1.00208	119.517	2655.949	.579	16.32
1400	4	7	390	122	118	"	218.1284	"	.94850	1.11128	1.00208	119.517	2655.949	.579	16.32
								END 1ST FLOW							
1800								START 2ND RATE							
1830		17/64	470	126	95	1.5	243.351	462.26	.9679	1.1795	1.0017	528.717	11749.285	2.859	80.55
1845		"	400	148	93	"	243.310	"	.9697	1.1421	1.0023	513.211	11404.707	2.774	78.17
1900	5	"	400	146	97	"	241.660	"	.9662	1.1371	1.0023	509.115	11313.667	2.734	77.02
1915		"	400	146	107	"	241.660	"	.9576	1.1259	1.0023	499.606	11102.369	2.683	75.59
1930		"	400	146	109	"	241.660	"	.9559	1.1238	1.0023	497.811	11062.473	2.673	75.31
1945		"	400	146	109	"	241.660	"	.9559	1.1238	1.0023	497.811	11062.473	2.673	75.31
2000	6	"	400	146	109	"	241.660	"	.9559	1.1238	1.0023	497.811	11062.473	2.673	75.31
2015		"	400	144	109	"	240.000	"	9559	1.1238	1.0023	497.795	11062.117	2.654	74.59
2030		"	400	144	109	"	240.000	"	.9559	1.1238	1.0023	497.795	11062.117	2.654	74.59
2045		"	400	144	109	"	240.000	"	.9559	1.1238	1.0023	497.795	11062.117	2.654	74.59
2100	7	"	400	144	109	"	240.000	"	.9559	1.1238	1.0023	497.795	11062.117	2.654	74.59
2115		"	400	143	109	"	239.165	"	.9559	1.1238	1.0023	497.787	11061.938	2.645	74.53
2130		"	400	143	109	"	239.165	"	.9559	1.1238	1.0023	497.787	11061.938	2.645	74.53
2145		17/64	400	142	109	1.5	238.327	462.26	.9559	1.1238	1.0023	497.779	11061.760	2.636	74.27

ET 106

0108

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 5 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 29TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

ORIFICE METER TYPE: DANIELS SENIOR	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = .9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.222

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
29TH DECEMBER	1989														
2200	8	17/64	400	142	109	1.5	238.327	462.26	.9559	1.1238	1.0023	497.779	11061.760	2.636	74.27
30TH DECEMBER	1989							END 2ND FLOW							
0200		24						START 3RD FLOW							
0215		"	405	119	108	2.0	219.534	849.40	.9568	1.1270	1.0017	917.605	20391.235	4.477	126.12
0230		"	405	108	111	"	209.1411	"	.9543	1.1240	1.0016	912.513	20278.07	4.241	119.48
0245		"	400	104	115	"	203.961	"	.9510	1.1180	1.0015	904.439	20098.65	4.10	115.49
0300		"	400	102	113	"	201.990	"	.9526	1.1199	1.0015	907.534	20167.48	4.07	114.77
0315		"	400	100	113	"	200.000	"	.9526	1.1199	1.0015	907.509	20166.88	4.03	113.63
0330		"	400	98	109	"	197.990	"	.9560	1.1238	1.0015	913.898	20308.85	4.02	113.28
0345		"	400	95	106	"	194.936	"	.9585	1.1270	1.0014	918.823	20418.31	3.98	112.13
0400		"	400	95	111	"	194.936	"	.9543	1.1218	1.0014	910.621	20236.03	3.94	111.13
0415		"	400	95	115	"	194.936	"	.9510	1.1180	1.0014	904.318	20095.96	3.92	110.36
0430		"	400	95	117	"	194.936	"	.9493	1.1161	1.0014	901.247	20027.72	3.90	109.99
0445		"	400	94	117	"	193.907	"	.9493	1.1161	1.0014	901.233	20027.42	3.88	109.41
0500		"	400	94	117	"	193.907	"	.9493	1.1161	1.0014	901.233	20027.42	3.88	109.41
0515		"	400	94	117	"	193.907	"	.9493	1.1161	1.0014	901.233	20027.42	3.88	109.41
0530		"	400	93	118	"	192.873	"	.9485	1.1152	1.0014	899.704	19993.43	3.86	108.64
0545		"	400	92	118	"	191.833	"	.9485	1.1152	1.0014	899.691	19993.13	3.83	108.05
0600		"	400	92	118	"	191.833	"	.9485	1.1152	1.0014	899.691	19993.13	3.83	108.05

ET 106

END 3RD FLOW

6.03.10

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 6 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 30TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = .9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.222

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 64TH"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C (C = $C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
30TH DECEMBER	1989														
1000								START	4TH FLOW						
1030		39	395	116	124	2.25	214.0561	1104.67	.94361	1.10810	1.0016	1156.948	25709.96	5.50	155.05
1045		"	395	112	124	"	210.333	"	.94361	1.10810	1.0016	1156.883	25708.52	5.41	152.34
1100	1	"	395	108	126	"	206.543	"	.94200	1.10648	1.0015	1153.150	25625.56	5.29	149.11
1115		"	395	105	127	"	203.654	"	.94120	1.10568	1.0015	1151.288	25584.19	5.21	146.79
1130		"	395	103	127	"	201.705	"	.94120	1.10568	1.0014	1151.256	25583.48	5.16	145.38
1145		"	395	102	127	"	200.724	"	.94120	1.10568	1.0014	1151.240	25583.12	5.14	144.67
1200	2	"	400	100	127	"	200.000	"	.94120	1.10746	1.0014	1153.039	25623.11	5.12	144.38
1215		"	395	98	129	"	196.7486	"	.93960	1.10411	1.0014	1147.591	25502.03	5.02	141.36
1230		"	395	98	129	"	196.7486	"	.93960	1.10411	1.0014	1147.591	25502.03	5.02	141.36
1245		"	395	96	131	"	194.7306	"	.93801	1.10258	1.0013	1144.027	25422.84	4.95	139.47
1300		"	395	95	131	"	193.7137	"	.93801	1.10258	1.0013	1144.011	25422.48	4.92	138.74
1315		"	395	94	131	"	192.6915	"	.93801	1.10258	1.0013	1143.995	25422.13	4.90	138.01
1330		"	395	93	131	"	191.6638	"	.93801	1.10258	1.0013	1143.979	25421.77	4.87	137.27
1345		"	395	92	131	"	190.6305	"	.93801	1.10258	1.0013	1143.963	25421.41	4.85	136.53
1400		"	395	92	131	"	190.6305	"	.93801	1.10258	1.0013	1143.963	25421.41	4.85	136.53
								END 4TH FLOW COMMENCE EXTENDED FLOW							
1500		28	400	108	120	2.0	207.846	849.40	.94686	1.11338	1.00160	896.910	19931.341	4.14	116.71
1600		"	390	108	118	"	205.232	"	.94850	1.11128	1.00164	896.802	19928.95	4.09	115.23

ET 106

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 7 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 30TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = .9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 22.222

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 64TH"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C (C = $C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
30TH DECEMBER	1989														
1700	3	28	390	107	117	2.0	204.2792	849.40	.94932	1.11215	1.00163	898.268	19961.53	4.08	114.88
1800	4	"	390	104	118	"	201.39513	"	.94850	1.11128	1.00158	896.748	19927.73	4.013	113.07
1900	5	"	390	103	117	"	200.425	"	.94932	1.11215	1.00157	898.213	19960.31	4.0	112.71
2000	6	"	390	102	116	"	199.492	"	.95014	1.11302	1.00155	899.691	19993.14	3.987	112.34
2100	7	"	390	102	118	"	199.449	"	.94850	1.11128	1.00155	896.72	19927.12	3.974	111.97
2200	8	"	390	99	118	"	196.494	"	.94850	1.11128	1.0051	896.68	19926.21	3.915	110.31
2300	9	"	390	100	118	"	197.484	"	.94850	1.11128	1.00152	896.69	19926.52	3.94	110.86
2400	10														
31/12/89		"	390	100	118	"	197.484	"	.94850	1.11128	1.00152	896.69	19926.52	3.94	110.86
0100	11	"	390	100	118	"	197.484	"	.94850	1.11128	1.00152	896.69	19926.51	3.93	110.86
0200	12	"	390	99	118	"	196.494	"	.94850	1.11128	1.0051	896.68	19926.21	3.91	110.31
0300	13	"	386	98	118	"	194.494	"	.94850	1.10975	1.0051	895.44	19898.6	3.87	109.03
0400	14	"	385	97	118	"	193.2485	"	.94850	1.10937	1.00149	895.12	19891.61	3.84	108.30
0500	15	"	385	98	118	"	194.242	"	.94850	1.10937	1.0051	895.14	19891.92	3.86	108.9
0600	16	"	385	97	118	"	193.2485	"	.94850	1.10937	1.00149	895.122	19891.61	3.84	108.3
0700	17	"	386	97	118	"	193.4994	"	.94850	1.10975	1.00149	895.427	19898.38	3.85	108.47
0800	18	"	388	97	118	"	194.0000	"	.94850	1.11051	1.0048	896.038	19911.96	3.86	108.83
0900	19	"	388	97	122	"	194.0000	"	.94523	1.10717	1.00148	890.266	19783.69	3.84	108.13
1000	20	"	391	96	122	"	193.7421	"	.94523	1.10828	1.00146	891.132	19802.95	3.84	108.09

ET 106

00111

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 8 OF 8
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 31ST DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = 1.1664
METER RUN SIZE : 3.826	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = .9259
SEPARATOR NO : 37	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU x FG) = 22.222

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE 64TH"	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3$/D)
31ST DECEMBER	1989														
1100	21	28	393	96	122	2.0	194.2370	849.40	.94523	1.10902	1.00145	891.722	19816.05	3.85	108.44
1200	22	"	394	96	126	"	194.4840	"	.94200	1.10612	1.00145	886.345	19696.57	3.83	107.92
1300	23	"	394	96	126	"	194.4840	"	.94200	1.10612	1.00145	886.345	19696.57	3.83	107.92
1400	24	"	394	96	127	"	194.4839	"	.94120	1.10533	1.00145	884.954	19665.66	3.82	107.75
								END TEST							

ET 106

hu1112

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 LOWER
TEST TYPE : MOD ISOCHRONAL

PERFORATIONS: 8127' - 8555'KB
FORMATION : PATCHAWARRA

DATE: 24TH DECEMBER 1989
OPR : R. MOORE
OIL API GRAVITY = @ 60°F

TANK NUMBER	#1 = 129/1	TANK CAPACITY	#1 = 8.20 m³	TANK SCALE	#1 = 0.1022m³/in
	#2 = 127/2		#2 = 8.20 m³		#2 = 0.1022m³/in

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/	TANK PRODUCTION m³)	FLOW RATE m³D)	CUMULATIVE PRODUCTION m³)	TANK DIP (IN/	TANK PRODUCTION m³)	FLOW RATE m³D)	CUMULATIVE PRODUCTION m³)
24TH DECEMBER 1989											
1200	3.5	1	11.75	10.25	TARE DIP			1.50			
1400		1	14.50	13.00	0.281	3.37	0.281	1.50	0	0	0
1400		2	50.25	23.00	TARE DIP			27.25			
1600		2	51.75	24.50	0.153	1.83	0.434	27.25	0	0	0
1800		1	19.50	18.00	0.511	6.13	0.945	1.50	0	0	0
2000		2	54.75	27.25	0.281	3.37	1.226	27.50	0.025	0.30	0.025
2200		1	20.75	19.25	0.127	1.53	1.353	1.50	0	0	0.025
2400		2	57.25	29.75	0.255	3.06	1.608	27.50	0	0	0.025
25TH DECEMBER 1989											
0200		1	23.50	22.00	0.281	3.37	1.889	1.50	0	0	0.025
0400		2	59.75	32.25	0.255	3.06	2.144	27.50	0	0	0.025
0600	21.5	1	26.00	24.50	0.255	3.06	2.399	1.50	0	0	0.025
0800		2	62.50	35.00	0.281	3.37	2.680	27.50	0	0	0.025
1000		1	29.50	28.00	0.357	4.29	3.037	1.50	0	0	0.025
1200		2	64.75	37.25	0.229	2.75	3.266	27.50	0	0	0.025
1400		1	31.50	30.00	0.204	2.45	3.470	1.50	0	0	0.025
1600		2	67.50	40.00	0.281	3.37	3.751	27.50	0	0	0.025
1800		1	33.75	32.00	0.204	2.45	3.955	1.75	0.025	0.30	0.05
1800		2	43.50	40.00	TARE DIP			3.50			0.05
2000	35.5	2	45.50	42.00	0.204	2.45	4.159	3.50	0	0	0.05

ET 105

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 2 OF 5
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 25TH DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : R. MOORE

TANK NUMBER	#1 = 129/1	TANK CAPACITY	#1 = 8.20m³ bbls/m³	TANK SCALE	#1 = 0.1022m³/in	OIL API GRAVITY =	@ 60°F
	#2 = 129/2		#2 = 8.20m³ bbls/m³		#2 = 0.1022m³/in		

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/)	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)	TANK DIP (IN/	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)
25TH DECEMBER 1989											
2200	37.5	1	35.75	34.00	0.204	2.45	3.363	1.75	0	0	0.05
2400		2	47.50	44.00	0.204	2.45	4.567	3.50	0	0	0.05
26TH DECEMBER 1989											
0200		1	38.00	36.25	0.229	2.75	4.796	1.75	0	0	0.05
0400		2	49.25	45.75	0.178	2.14	4.974	3.50	0	0	0.05
0600	45.5	1	39.75	37.75	0.153	1.83	5.127	2.00	0.025	0.30	0.075
0800		2	51.00	47.50	0.178	2.14	5.305	3.50	0	0	0.075
0900		1	40.75	38.75	0.102	2.45	5.407	2.00	0	0	0.075
1000		2	52.00	48.50	0.102	2.45	5.509	3.50	0	0	0.075
1100		1	42.00	40.00	0.127	3.06	5.636	2.00	0	0	0.075
1200		2	53.00	49.50	0.102	2.45	5.738	3.50	0	0	0.075
1400		1	44.00	42.00	0.204	2.45	5.942	2.00	0	0	0.075
1600		2	54.75	51.25	0.178	2.14	6.120	3.50	0	0	0.075
1800		1	45.75	43.75	0.178	2.14	6.298	2.00	0	0	0.075
2100	60.5	2	65.50	56.00	0.485	-	6.783	9.50	0.613	-	0.688
	S.I.W. END OF CLEAN UP FLOW										
29TH DECEMBER 1989											
1000			10.25	FLOW WELL THROUGH SEPARATOR				1	INITIAL DIP		
1100	1		10.25	9.25	0	0	0	1	0	0	0
1200	2	1	11	10	.077	1.84	.077	1	0	0	0

ET 105

00114

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS | PERFORATIONS: 8127'- 8555'KB | PAGE: 3 OF 5

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 29TH DECEMBER 1989

TEST TYPE : MOD ISOCHRONAL | OPR : D.J. McALLISTER

TANK NUMBER	TANK CAPACITY	TANK SCALE	OIL API GRAVITY = @ 60°F
#1 = 129/1	#1 = 8.20 /m³	#1 = 0.1022m³/in	
#2 = 129/2	#2 = 8.20 /m³	#2 = 0.1022m³/in	

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/)	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)	TANK DIP (IN/	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)
29TH DECEMBER 1989											
1300	3	1	11.5	10.5	.051	1.23	.128	1	0	0	0
1400	4	1	12	11	.051	1.23	.179	1	0	0	0
					END 1ST FLOW						
1800					START RATE #2						
1900	1	1	13	12	.102	2.44	.281	1	0	0	0
2000	2	1	15	14	.204	4.89	.485	1	0	0	0
		2	2.5	1.5	INITIAL DIP						
2100	3	2	4.5	3.25	.178	4.29	.663	1.25	.025	.613	.025
2200	4	2	6	4.75	.153	3.69	.813	1.25	0	0	.025
					END OF RATE #2						
30TH DECEMBER 1989											
0200					START RATE #3						
0300	1	2	8.5	7	.229	5.52	.229	1.5	.026	.613	.026
0400	2	2	11	9.5	.256	6.13	.485	1.5	0	0	.026
0500	3	2	13	11.5	.204	4.91	.689	1.5	0	0	.026
0600	4	2	14.5	13	.153	3.68	.842	1.5	0	0	.026
					END 3RD FLOW						
1000					START 4TH FLOW						
1100	1	2	16.5	14.75	.179	4.29	.179	1.75	.026	.613	.026
1200	2	2	19.5	16.5	.179	4.29	.358	3	.128	3.06	.154

ET 105

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555'KB	PAGE: 4 OF 5
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 30TH DECEMBER 1989
TEST TYPE : MODISOCHRONAL		OPR : D.J. McALLISTER

TANK NUMBER		TANK CAPACITY		TANK SCALE		OIL API GRAVITY = @ 60°F
	#1 = 129/1		#1 = 8.20 /m³		#1 = .1022m³/in	
	#2 = 129/2		#2 = 8.20 /m³		#2 = .1022m³/in	

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)	TANK DIP (IN/	TANK PRODUCTION (/m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION /m³)
30TH DECEMBER 1989											
1300	3	2	21.5	18	.153	3.68	.511	3.5	.051	1.23	.205
1400	4	2	23	19	.102	2.45	.613	4	.051	1.23	.256
			END 4TH FLOW COMMENCE EXTENDED FLOW								
1500	1	2	24.5	19.5	.051	1.23	.051	5	.102	2.45	.102
			18	16.5 INITIAL DIP TANK #1				1.5			
1600	2	1	19.5	17.5	.102	2.45	.153	2	.051	1.23	.153
1700	3	1	21.5	18.75	.128	3.06	.281	2.75	.077	1.84	.23
1800	4	1	23.25	19.5	.076	1.839	.357	3.75	.1022	2.4528	.332
1900	5	1	25	20.5	.102	2.45	.459	4.5	.077	1.84	.409
2000	6	1	27	21.75	.1277	3.066	.587	5.25	.076	1.84	.485
2100	7	1	28.5	22.75	.102	2.45	.689	5.75	.051	1.226	.536
2200	8	1	29.25	23.00	.0255	.6132	.714	6.25	.051	1.226	.587
2300	9	1	31.25	24.25	.128	3.07	.842	7	.077	1.84	.664
2400	10	1	33	25.25	.102	2.45	.944	7.5	.051	1.23	.715
31ST DECEMBER 1989											
0100	11	1	35	26.75	.1533	3.68	1.097	8.25	.076	1.84	.791
0200	12	1	36.75	28.0	.1277	3.066	1.225	8.75	.0511	1.226	.842
0300	13	1	38.25	28.75	.077	1.84	1.302	9.5	.077	1.84	.919
0400	14	1	40.5	30.5	.179	4.29	1.48	10	.051	1.23	.97

00116

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555' KB	PAGE: 5 OF 5
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 31ST DECEMBER 1989
TEST TYPE : MOD ISOCHRONAL		OPR : D.J. McALLISTER

TANK NUMBER	#1 = 129/1	TANK CAPACITY	#1 = 8.20 /m³	TANK SCALE	#1 = .1022m³/in	OIL API GRAVITY = @ 60°F
	#2 = 129/2		#2 = 8.20 /m³		#2 = .1022m³/in	

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/)	TANK PRODUCTION /m³)	FLOW RATE m³D)	CUMULATIVE PRODUCTION /m³)	TANK DIP (IN/	TANK PRODUCTION /m³)	FLOW RATE /m³D)	CUMULATIVE PRODUCTION m³)
31ST DECEMBER 1989											
0500	15	1	43.25	32.25	.179	4.29	1.659	11	.102	2.45	1.07
0600	16	1	45.75	34	.179	4.29	1.84	11.75	.077	1.84	1.15
0700	17	1	48	35.5	.153	3.68	1.99	12.5	.077	1.84	1.23
0800	18	1	50	36.75	.128	3.07	2.12	13.25	.077	1.84	1.30
0900	19	1	51.5	38	.128	3.07	2.25	13.5	.026	.613	1.33
1000	20	1	54.25	40	.204	4.91	2.45	14.25	.077	1.84	1.41
1100	21	1	55	40.5	.051	1.23	2.50	14.5	.026	.613	1.43
1200	22	1	57	41.75	.128	3.07	2.63	15.25	.077	1.84	1.51
1300	23	1	59.25	43.25	.153	3.68	2.78	16	.077	1.84	1.59
1400	24	1	61.5	44.5	.128	3.07	2.91	17	.102	2.45	1.69
			S.I.W. END TEST								

00117

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[redacted] SAMPLING DATA

CUSTOMER : SANTOS	PERFORATIONS: 8127' - 8555' KB	PAGE: 1 OF 3
WELL NAME: PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 26/12/89
TEST TYPE : MODIFIED ISOCHRONAL		OPR : D. McALLISTER

SAMPLE # 1

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
04:45	EC9448	20,000	GAS	30	EVAC	-	-	SEP GAS LINE	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m^3/10^6 m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12893	54	13/64		1999	35	1.0958	1.1664		45.15	2.45	0	54.32	16872	

REMARKS:

SAMPLE #2

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
08:45	300	500	OIL	30	ACID BRINE	25	25	SEP. SIGHTGL.	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m^3/10^6 m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12893	54	13/64		1999	35	1.0958	1.1664		45.15	2.45	0	54.32	16872	

REMARKS:

SAMPLE # 3

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
09:45	EC9464	20000	GAS	30	EVAN	-	-	GAS LINE	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m^3 10^6 m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12900	56	13/64		1999	36	1.0944	1.1664	-	45.33	2.45	0	54.10	16872	

REMARKS:

ET 107

EXPERTECH PTY. LTD.

SAMPLING DATA

CUSTOMER : SANTOS LIMITED	PERFORATIONS: 8127' - 8555' KB	PAGE: 2 OF 3
WELL NAME: PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 26/12/89
TEST TYPE : MODIFIED ISOCHRONAL		OPR : D. McALLISTER

SAMPLE # 4

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
09:45	A0009	500	OIL	30	ACID BRINE	25	25	SEP. SIGHTG.	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m^3/10^6 m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12900	56	13/64		1999	36	1.0944	1.1664	-	45.33	2.45	0	54.10	16872	

REMARKS:

SAMPLE # 5

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
10:45	EC9455	20000	GAS	30	EVAC	-	-	SEP. GAS LINE	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D		PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12907	57	13/64		1999	36	1.0944	1/1664		45.33	3.06		67.63	16875	

REMARKS:

SAMPLE # 6

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
10:45	A0006	500	OIL	30	ACID BRINE	25	25	SEP. SIGHTGL	1999	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m3106m3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12907	57	13/64		1999	36	1.0944	1.1664		45.33	3.06	0	67.63	16875	

REMARKS:

ET 107

EXPERTEST PTY. LTD.

SAMPLING DATA

CUSTOMER : SANTOS LIMITED	PERFORATIONS: 8127' - 8555' KB	PAGE: 3 OF 3
WELL NAME: PELICAN #2 (LOWER)	FORMATION : PATCHAWARRA	DATE: 26/12/89
TEST TYPE : MODIFIED ISOCHRONAL		OPR : D. McALLISTER

SAMPLE # 7

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
11:00	-	500	H20	5	-	-	-	SEP. SIGHTGL.	0	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	L.G.R. $m^3/10^6 m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12907	57	13/64		1999	36				45.33	3.06	0	67.63	16875	

REMARKS:

SAMPLE # 8

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
11:00	-	500	H20	5	-	-	-	SEP. SIGHTGL.	0	-	-	-

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D		PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
12907	57	13/64		1999	36				45.33	3.06	0	67.63	16875	

REMARKS:

SAMPLE

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (PSI/KPa)	SAMPLE TEMP (°F/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (PSI/KPa)	SEPARATOR TEMP (°F/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D		PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)

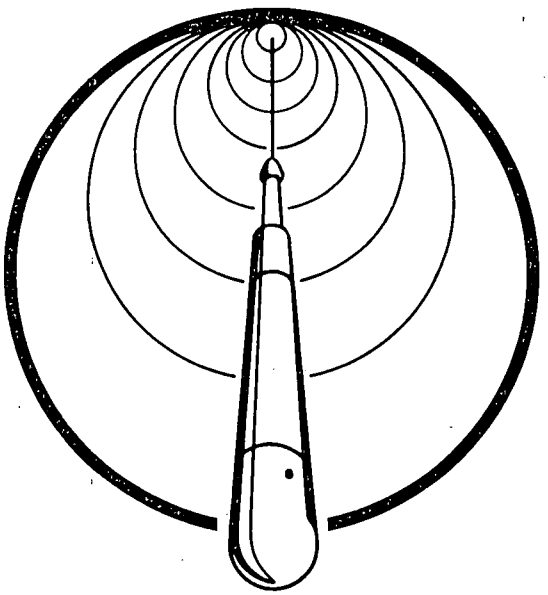
REMARKS:

ET 107

00120

EXPERTEST

ELECTRIC WIRELINE
SERVICE



Electronic BHP/BHT Survey

Customer: SANTOS Ltd

Location: PELICAN #2 LOWER

Formation: PATCHAWARRA

Date: 23/12/89 to 07/01/90

Env 7129/2

CUSTOMER: SANTOS Ltd

LOCATION: PELICAN #2 LOWER

FORMATION: PATCHAWARRA

DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
	23rd DECEMBER 1989
1300	ARRIVE ON THE LOCATION
	RIG UP THE ELECTRIC LINE UNIT AND LUBRICATOR
	RIG UP ALL SURFACE TESTING EQUIPMENT
1710	RUN IN THE HOLE WITH CASING COLLAR LOCATOR
	LOSE STRING WEIGHT AT 7743'KB - SUSPECT CORK SCREWED TUBING
1750	PULL UP TO TOP PACKER AT 7691'KB AND CORRELATE DEPTH
	ALLOW 52' FOR CABLE STRETCH
1755	PULL OUT OF THE HOLE
1814	ARRIVE AT SURFACE - DEPRESSURE THE LUBRICATOR
	FUNCTION TEST THE H.P. - S.R.O. GAUGE ON THE TOOLSTRING
2200	FUNCTION TEST IN THE LUBRICAYOR - ALL OK
2219	PRESSURE UP THE LUBRICATOR
2314	RUN IN THE HOLE
2342	ALLOW FOR STRETCH - HANG OFF AT 7650'KB [survey hang depth]
	MONITOR FLOWING BOTTOM HOLE PRESSURE
	24th DECEMBER 1989
0001	CONTINUE TO MONITOR FLOWING BOTTOM HOLE PRESSURE
0830	START CLEAN UP FLOW PERIOD
	DIVERT FLOW THROUGH THE SEPERATOR ON AN 11/64ths CHOKE AND
	FLOW TO FLARE
1030	OPEN THE CHOKE TO 13/64ths AND CONTINUE FLOW
	25th DECEMBER 1989
0001	CONTINUE TO MONITOR FLOWING BOTTOM HOLE PRESSURE

CUSTOMER: SANTOS Ltd

LOCATION: PELICAN #2 LOWER

FORMATION: PATCHAWARRA

DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
	26th DECEMBER 1989
0001	CONTINUE TO MONITOR FLOWING BOTTOM HOLE PRESSURE
0900	START SAMPLING
1100	FINISH SAMPLING
1900	START FLOW TO ESTABLISH ISOCHRONAL FLOW RATES
2030	ESTABLISH RATES
2100	SHUT IN THE WELL AND MONITOR SURFACE AND BOTTOM HOLE
	PRESSURE BUILD UP
	27th DECEMBER 1989
0001	CONTINUE TO MONITOR THE BUILD UP
	28th DECEMBER 1989
0001	CONTINUE TO MONITOR THE BUILD UP
1300	PULL OUT OF THE HOLE TO REDRESS THE GAUGES AND CABLE HEAD
	IN PREPERATION FOR THE START OF THE ISOCHRONAL FLOWS
1400	ARRIVE AT THE SURFACE
1500	DEPRESSURE THE LUBRICATOR
	RETURN TO MOOMBA TO RELOAD HP GAUGE WITH SILICONE OIL
	REDRESS CABLE HEAD ON LOCATION
	REDRESS AND RELOAD BACK UP AMERADA GAUGE
1840	FUNCTION TEST HP SRO GAUGE IN THE LUBRICATOR
1850	PRESSURE UP THE LUBRICATOR
1950	RUN IN THE HOLE - ALLOW FOR CABLE STRETCH
2040	HANG OFF AT 7650'KB [survey hang depth]
	CONTINUE TO MONITOR THE BUILD UP

CUSTOMER: SANTOS Ltd

LOCATION: PELICAN #2 LOWER

FORMATION: PATCHAWARRA

DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
	29th DECEMBER 1989
0001	CONTINUE TO MONITOR THE BUILD UP
1000	START MODIFIED FOUR POINT ISOCHRONAL SURVEY
	FIRST RATE
	OPEN WELL ON 7/64ths CHOKE AND FLOW THROUGH THE SEPERATOR
	MONITOR SURFACE AND BOTTOM HOLE PRESSURE DRAW DOWN
1400	SHUT IN THE WELL FOR 4 HOUR BUILD UP
1800	SECOND RATE
	OPEN WELL ON 17/64ths CHOKE AND FLOW THROUGH THE SEPERATOR
	MONITOR SURFACE AND BOTTOM HOLE PRESSURE DRAW DOWN
2200	SHUT IN THE WELL FOR 4 HOUR BUILD UP
	30th DECEMBER 1989
0200	THIRD RATE
	OPEN WELL ON 24/64ths CHOKE AND FLOW THROUGH THE SEPERATOR
	MONITOR SURFACE AND BOTTOM HOLE PRESSURE DRAW DOWN
0600	SHUT IN THE WELL FOR 4 HOUR BUILD UP
1000	FOURTH RATE
	OPEN WELL ON 39/64ths CHOKE AND FLOW THROUGH THE SEPERATOR
	MONITOR SURFACE AND BOTTOM HOLE PRESSURE DRAW DOWN
1400	EXTENDED FLOW PERIOD
	CUT THE CHOKE TO 28/64ths AND FLOW FOR 24 HOURS
	31st DECEMBER 1989
0001	CONTINUE TO MONITOR FLOWING BOTTOM HOLE PRESSURE

CUSTOMER: SANTOS Ltd

LOCATION: PELICAN #2 LOWER

FORMATION: PATCHAWARRA

DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
1400	SHUT IN THE WELL FOR THE FINAL EXTENDED BUILD UP
	MONITOR SURFACE AND BOTTOM HOLE PRESSURE BUILD UP
	1st JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
	2nd JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
	3rd JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
	4th JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
	5th JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
	6th JANUARY 1990
0001	CONTINUE TO MONITOR THE BUILD UP
0600	END OF THE BUILD UP
0612	PULL OUT OF HOLE CONDUCTING A STATIC GRADIENT TO SURFACE
1045	BIRDNEST FORMS AT THE GREASE HEAD - CABLE STICKS AT 131'KB
1115	SHUT THE B.O.P.'s AND BLEED DOWN THE LUBRICATOR
	WAIT ON EQUIPMENT FROM MOOMBA

CUSTOMER: SANTOS Ltd

LOCATION: PELICAN #2 LOWER

FORMATION: PATCHAWARRA

DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
	6th JANUARY 1990
1300	EQUIPMENT ARRIVES FROM MOOMBA
	UNSTAB THE LUBRICATOR AND STRIP OUT 25' OF CABLE
	LAY THE LUBRICATOR ON THE GROUND
1430	ATTEMPT TO CLEAR BIRDS NEST OF OUTER STRANDS FROM GREASE HEAD
	CLEAR AND DRESS CABLE SO THAT IT WILL PASS THROUGH HEAD
1530	PICK UP THE LUBRICATOR - STAB INTO THE BOPs
	PRESSURE UP THE LUBRICATOR
	UNABLE TO PULL OUT BY HAND OR WITH THE UNIT
1610	DEPRESSURE THE LUBRICATOR
	UNSTAB THE LUBRICATOR - STRIP OUT 10' OF CABLE
	LAY THE LUBRICATOR ON THE GROUND
1700	CUT THE CABLE AT THE BOTTOM SHIEVE
	BACK FEED AND INSTALL SECOND SET OF BOPs
1730	STRIP CABLE THROUGH THE BOPs WITH HIAB
	LIFT TOOLS TO THE SURFACE - RECOVER APROX. 75' OF CABLE
1800	BACK FEED AND INSTALL 11' OF LUBRICATOR AND
	GREASE HEAD PACK OFF ASSEMBLY
1920	STAB IN THE LUBRICATOR - OPEN BOPs
	UNABLE TO PULL UP BY HAND OR WITH THE UNIT
1945	SECURE THE WELL FOR THE NIGHT
	7th JANUARY 1990
0930	SECOND SHIEVE ARRIVES FROM MOOMBA
	STILL UNABLE TO PULL UP INTO THE LUBRICATOR
1000	DEPRESSURE THE LUBRICATOR - UNSTAB AND BACK STRIP APROX. 10' OF
	CABLE
	LAY THE LUBRICATOR ON THE GROUND
1030	PACK OFF GLAND HAS SWOLEN AND GRABED THE CABLE
	REMOVE AND REPLACE GLAND AND INSTALL FLOW TUBES AND GREASE

CUSTOMER: SANTOS Ltd
LOCATION: PELICAN #2 LOWER
FORMATION: PATCHAWARRA
DATE: 23/12/89 to 07/01/90

TIME	DESCRIPTION OF EVENTS
	INJECTION SYSTEM
1100	STAB IN THE LUBRICATOR AND PRESSURE UP
1120	PULL TOOL STRING UP INTO THE LUBRICATOR AND SHUT IN AT
	THE MASTER VALVE
1130	DEPRESSURE THE LUBRICATOR - ALL TOOLS AND CABLE RECOVERED
	RIG DOWN ELECTRIC LINE UNIT AND ALL REMAINING TEST EQUIPMENT
1630	HAND THE WELL BACK TO PRODUCTION
	END OF SURVEY

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EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 23-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
23-12-89	22:55:00	1.300	1723.11	-556.18	90.10		START SURVEY
23-12-89	22:56	1.317	1723.48	0.37	89.94		
23-12-89	22:57	1.333	1723.46	-0.02	89.77		Hang in lub.
23-12-89	22:58:00	1.350	1723.59	0.13	89.61		Monitor FWHP
23-12-89	22:59:00	1.367	1723.64	0.05	89.46		
23-12-89	23:10:00	1.550	1725.09	1.45	88.13	1710	Csg = 656 psig
23-12-89	23:11:00	1.567	1725.21	0.12	88.00		
23-12-89	23:12:00	1.583	1725.31	0.10	87.89		R.I.H.
23-12-89	23:55:00	2.300	2279.06	553.75	244.75		Hang @ 7650'KB
24-12-89	00:00:00	2.383	2278.97	-0.09	244.80		Allow 52' stretch
24-12-89	00:15:00	2.633	2279.29	0.32	244.85		from previous CCL
24-12-89	00:30:00	2.883	2279.61	0.32	244.87		correlation run.
24-12-89	00:45:00	3.133	2279.48	-0.13	244.90		
24-12-89	01:00:00	3.383	2279.33	-0.15	244.93	1715	Csg = 654
24-12-89	01:15:00	3.633	2279.27	-0.06	244.94		
24-12-89	01:30:00	3.883	2279.47	0.20	244.94		Monitor FBHP
24-12-89	01:45:00	4.133	2279.68	0.21	244.94		
24-12-89	02:00:00	4.383	2279.70	0.02	244.94		Delta P from
24-12-89	02:15:00	4.633	2280.18	0.48	244.87		previous sample.
24-12-89	02:30:00	4.883	2280.48	0.30	244.78		
24-12-89	02:45:00	5.133	2280.89	0.41	244.83		Delta T from
24-12-89	03:00:00	5.383	2280.55	-0.34	244.88		pressure up.
24-12-89	03:15:00	5.633	2280.19	-0.36	244.91		
24-12-89	03:30:00	5.883	2279.81	-0.38	244.91		15 min sample rate.
24-12-89	03:45:00	6.133	2279.95	0.14	244.90		
24-12-89	04:00:00	6.383	2279.42	-0.53	244.91		
24-12-89	04:15:00	6.633	2279.49	0.07	244.95		
24-12-89	04:30:00	6.883	2279.08	-0.41	244.94		
24-12-89	04:45:00	7.133	2278.57	-0.51	244.88		
24-12-89	05:00:00	7.383	2278.52	-0.05	244.88		
24-12-89	05:15:00	7.633	2278.44	-0.08	244.90		
24-12-89	05:30:00	7.883	2278.26	-0.18	244.91		
24-12-89	05:45:00	8.133	2278.06	-0.20	244.93		
24-12-89	06:00:00	8.383	2277.92	-0.14	244.95	1707	Csg = 657 psig.
24-12-89	06:15:00	8.633	2277.47	-0.45	244.97		
24-12-89	06:30:00	8.883	2277.38	-0.09	244.99		
24-12-89	06:45:00	9.133	2277.13	-0.25	244.97		
24-12-89	07:00:00	9.383	2277.02	-0.11	244.92		
24-12-89	07:15:00	9.633	2276.99	-0.03	244.83		
24-12-89	07:30:00	9.883	2276.71	-0.28	244.82		
24-12-89	07:45:00	10.133	2276.34	-0.37	244.88		
24-12-89	08:00:00	10.383	2276.05	-0.30	244.83		5 min sample rate.
24-12-89	08:05:00	10.467	2275.89	-0.16	244.79		
24-12-89	08:10:00	10.550	2275.98	0.10	244.87		
24-12-89	08:15:00	10.633	2276.28	0.29	244.97		
24-12-89	08:20:00	10.717	2276.18	-0.09	244.92		
24-12-89	08:25:00	10.800	2276.58	0.39	244.97		
24-12-89	08:30:00	10.883	2481.57	204.10	245.36		SIW to divert flow.
24-12-89	08:35:00	10.976	2518.22	36.64	243.84	1923	Csg = 520 psig.
24-12-89	08:40:00	11.050	2484.91	-33.30	242.23		Open flow to

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 24-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
24-12-89	08:45:00	0.000	2481.24	-3.68	241.82		seperator. 11/64".
24-12-89	08:50:00	0.083	2481.68	0.45	241.70		bypass to flare
24-12-89	08:55:00	0.167	2496.10	14.42	241.59		
24-12-89	09:00:00	0.250	2507.97	11.87	241.36		Delta T from
24-12-89	09:05:00	0.333	2516.38	8.41	241.08		flow diversion.
24-12-89	09:10:00	0.417	2519.40	3.02	240.80		
24-12-89	09:15:00	0.500	2518.92	-0.48	240.61		
24-12-89	09:20:00	0.583	2515.57	-3.35	240.49		
24-12-89	09:25:00	0.667	2518.27	2.69	240.48		
24-12-89	09:30:00	0.750	2521.52	3.25	240.47		
24-12-89	09:35:00	0.833	2525.74	4.22	240.42		
24-12-89	09:40:00	0.917	2527.23	1.49	240.34		
24-12-89	09:45:00	1.000	2525.52	-1.71	240.28		
24-12-89	09:50:00	1.083	2526.59	1.07	240.28		
24-12-89	09:55:00	1.167	2528.48	1.88	240.28		
24-12-89	10:00:00	1.250	2530.27	1.79	240.28	1973	Csg 527psig.WHT 57'
24-12-89	10:05:00	1.333	2533.38	3.11	240.28		
24-12-89	10:10:00	1.417	2534.03	0.65	240.24		
24-12-89	10:15:00	1.500	2533.38	-0.65	240.22		
24-12-89	10:20:00	1.583	2534.25	0.87	240.25		
24-12-89	10:25:00	1.667	2535.36	1.11	240.26		
24-12-89	10:30:00	1.750	2513.31	-22.05	240.21		13/64" choke.
24-12-89	10:35:00	1.833	2487.92	-25.39	240.60		
24-12-89	10:40:00	1.917	2476.24	-11.68	241.18		
24-12-89	10:45:00	2.000	2468.93	-7.32	241.57		
24-12-89	10:50:00	2.083	2469.96	1.03	241.85		
24-12-89	10:55:00	2.167	2468.37	-1.59	242.02		
24-12-89	11:00:00	2.250	2470.29	1.92	242.13		
24-12-89	11:05:00	2.333	2465.98	-4.31	242.22		
24-12-89	11:10:00	2.417	2464.76	-1.22	242.32		
24-12-89	11:15:00	2.500	2460.15	-4.61	242.40		
24-12-89	11:20:00	2.583	2451.46	-8.69	242.56		
24-12-89	11:25:00	2.667	2451.13	-0.33	242.70		
24-12-89	11:30:00	2.750	2450.53	-0.60	242.79		
24-12-89	11:35:00	2.833	2449.91	-0.63	242.80		
24-12-89	11:40:00	2.917	2446.95	-2.96	242.80		
24-12-89	11:45:00	3.000	2445.23	-1.72	242.85		
24-12-89	11:50:00	3.083	2444.76	-0.47	242.92		
24-12-89	11:55:00	3.167	2446.03	1.27	242.97		
24-12-89	12:00:00	3.250	2448.98	2.95	242.10	1875	Csg 521psig.WHT 60'
24-12-89	12:05:00	3.333	2452.35	3.37	242.98		
24-12-89	12:10:00	3.417	2450.82	-1.53	242.97		
24-12-89	12:15:00	3.500	2449.68	-1.14	242.99		
24-12-89	12:20:00	3.583	2448.87	-0.82	243.02		
24-12-89	12:25:00	3.667	2448.42	-0.45	243.05		
24-12-89	12:30:00	3.750	2448.00	-0.41	243.07		
24-12-89	12:35:00	3.833	2447.74	-0.27	243.09		
24-12-89	12:40:00	3.917	2446.74	-0.99	243.11		
24-12-89	12:45:00	4.000	2445.63	-1.11	243.13		
24-12-89	12:50:00	4.083	2444.44	-1.20	243.15		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 24-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
24-12-89	12:55:00	4.167	2445.23	0.79	243.17		
24-12-89	13:00:00	4.250	2444.49	-0.74	243.16		
24-12-89	13:05:00	4.333	2444.54	0.05	243.17		
24-12-89	13:10:00	4.417	2445.52	0.98	243.18		
24-12-89	13:15:00	4.500	2445.05	-0.46	243.18		
24-12-89	13:20:00	4.583	2446.01	0.96	243.19		
24-12-89	13:25:00	4.667	2447.25	1.24	243.17		
24-12-89	13:30:00	4.750	2448.17	0.91	243.15		
24-12-89	13:35:00	4.833	2445.96	-2.20	243.14		
24-12-89	13:40:00	4.917	2443.53	-2.44	243.17		
24-12-89	13:45:00	5.000	2442.26	-1.27	243.21		
24-12-89	13:50:00	5.083	2438.96	-3.30	243.25		
24-12-89	13:55:00	5.167	2437.69	-1.27	243.29		
24-12-89	14:00:00	5.250	2437.43	-0.26	243.31	1862	Csg 521psig.WHT 61'
24-12-89	14:05:00	5.333	2435.67	-1.76	243.32		
24-12-89	14:10:00	5.417	2433.44	-2.24	243.36		
24-12-89	14:15:00	5.500	2432.48	-0.96	243.39		
24-12-89	14:20:00	5.583	2432.12	-0.36	243.40		
24-12-89	14:25:00	5.667	2428.54	-3.58	243.41		
24-12-89	14:30:00	5.750	2426.76	-1.78	243.46		
24-12-89	14:35:00	5.833	2425.39	-1.37	243.49		
24-12-89	14:40:00	5.917	2425.65	0.26	243.49		
24-12-89	14:45:00	6.000	2424.34	-1.31	243.52		
24-12-89	14:50:00	6.083	2423.81	-0.53	243.54		
24-12-89	14:55:00	6.167	2423.46	-0.36	243.55		
24-12-89	15:00:00	6.250	2423.80	0.34	243.57		
24-12-89	15:05:00	6.333	2423.86	0.06	243.57		
24-12-89	15:10:00	6.417	2423.93	0.08	243.57		
24-12-89	15:15:00	6.500	2424.26	0.33	243.58		
24-12-89	15:20:00	6.583	2424.57	0.31	243.57		
24-12-89	15:25:00	6.667	2424.77	0.20	243.57		
24-12-89	15:30:00	6.750	2425.33	0.56	243.57		
24-12-89	15:35:00	6.833	2425.77	0.43	243.57		
24-12-89	15:40:00	6.917	2426.68	0.92	243.56		
24-12-89	15:45:00	7.000	2427.04	0.35	243.53		
24-12-89	15:50:00	7.083	2423.88	-3.16	243.52		
24-12-89	15:55:00	7.167	2422.63	-1.25	243.55		
24-12-89	16:00:00	7.250	2421.94	-0.68	243.57	1854	Csg 533psig.WHT 59'
24-12-89	16:05:00	7.333	2421.62	-0.33	243.59		
24-12-89	16:10:00	7.417	2421.45	-0.17	243.59		
24-12-89	16:15:00	7.500	2421.15	-0.30	243.60		
24-12-89	16:20:00	7.583	2420.94	-0.21	243.61		
24-12-89	16:25:00	7.667	2420.96	0.02	243.61		
24-12-89	16:30:00	7.750	2420.67	-0.29	243.62		
24-12-89	16:35:00	7.833	2421.17	0.50	243.63		
24-12-89	16:40:00	7.917	2421.14	-0.03	243.63		
24-12-89	16:45:00	8.000	2420.65	-0.49	243.64		
24-12-89	16:50:00	8.083	2420.67	0.02	243.65		
24-12-89	16:55:00	8.167	2420.32	-0.35	243.66		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 24-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
24-12-89	17:00:00	8.250	2420.18	2420.18	243.67		
24-12-89	17:05:00	8.333	2420.12	-0.06	243.67		
24-12-89	17:10:00	8.417	2419.85	-0.27	243.67		
24-12-89	17:15:00	8.500	2419.80	-0.06	243.68		
24-12-89	17:20:00	8.583	2419.75	-0.05	243.68		
24-12-89	17:25:00	8.667	2419.52	-0.22	243.67		
24-12-89	17:30:00	8.750	2419.56	0.04	243.67		
24-12-89	17:35:00	8.833	2419.61	0.05	243.67		
24-12-89	17:40:00	8.917	2419.44	-0.17	243.67		
24-12-89	17:45:00	9.000	2419.48	0.05	243.66		
24-12-89	17:50:00	9.083	2419.35	-0.14	243.66		
24-12-89	17:55:00	9.167	2419.35	-0.00	243.66		
24-12-89	18:00:00	9.250	2419.22	-0.13	243.65	1851	Csg 537psig.WHT 59'C
24-12-89	18:05:00	9.333	2419.33	0.11	243.66		
24-12-89	18:10:00	9.417	2419.20	-0.13	243.66		
24-12-89	18:15:00	9.500	2418.97	-0.23	243.66		
24-12-89	18:20:00	9.583	2418.91	-0.07	243.66		
24-12-89	18:25:00	9.667	2418.64	-0.27	243.68		
24-12-89	18:30:00	9.750	2417.81	-0.83	243.68		
24-12-89	18:35:00	9.833	2417.77	-0.04	243.68		
24-12-89	18:40:00	9.917	2417.60	-0.16	243.69		
24-12-89	18:45:00	10.000	2417.03	-0.57	243.68		
24-12-89	18:50:00	10.083	2416.95	-0.09	243.69		
24-12-89	18:55:00	10.167	2416.31	-0.64	243.70		
24-12-89	19:00:00	10.250	2416.18	-0.13	243.71		
24-12-89	19:05:00	10.333	2415.70	-0.48	243.73		
24-12-89	19:10:00	10.417	2415.58	-0.11	243.74		
24-12-89	19:15:00	10.500	2415.52	-0.07	243.76		
24-12-89	19:20:00	10.583	2415.25	-0.27	243.78		
24-12-89	19:25:00	10.667	2415.12	-0.13	243.79		
24-12-89	19:30:00	10.750	2416.04	0.92	243.80		
24-12-89	19:35:00	10.833	2416.41	0.38	243.80		
24-12-89	19:40:00	10.917	2416.58	0.16	243.80		
24-12-89	19:45:00	11.000	2416.63	0.05	243.81		
24-12-89	19:50:00	11.083	2416.91	0.28	243.81		
24-12-89	19:55:00	11.167	2416.79	-0.12	243.81		
24-12-89	20:00:00	11.250	2416.87	0.08	243.82	1844	Csg 536psig.WHT 57'C
24-12-89	20:05:00	11.333	2416.77	-0.10	243.81		
24-12-89	20:10:00	11.417	2416.61	-0.16	243.84		
24-12-89	20:15:00	11.500	2416.61	0.00	243.86		
24-12-89	20:20:00	11.583	2416.56	-0.06	243.87		
24-12-89	20:25:00	11.667	2416.68	0.13	243.87		
24-12-89	20:30:00	11.750	2416.74	0.06	243.87		
24-12-89	20:35:00	11.833	2416.79	0.05	243.88		
24-12-89	20:40:00	11.917	2416.89	0.10	243.89		
24-12-89	20:45:00	12.000	2416.94	0.05	243.89		
24-12-89	20:50:00	12.083	2416.96	0.03	243.89		
24-12-89	20:55:00	12.167	2416.91	-0.06	243.90		
24-12-89	21:00:00	12.250	2417.17	0.26	243.90		
24-12-89	21:05:00	12.333	2417.60	0.43	243.90		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 24-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
24-12-89	21:10:00	12.417	2417.82	0.22	243.88		
24-12-89	21:15:00	12.500	2417.61	-0.21	243.88		
24-12-89	21:20:00	12.583	2417.56	-0.05	243.88		
24-12-89	21:25:00	12.667	2417.39	-0.17	243.89		
24-12-89	21:30:00	12.750	2417.43	0.04	243.88		
24-12-89	21:35:00	12.833	2416.89	-0.54	243.89		
24-12-89	21:40:00	12.917	2416.87	-0.02	243.89		
24-12-89	21:45:00	13.000	2416.60	-0.27	243.88		
24-12-89	21:50:00	13.083	2416.57	-0.03	243.89		
24-12-89	21:55:00	13.167	2416.18	-0.39	243.89		
24-12-89	22:00:00	13.250	2416.10	-0.08	243.88	1842	Csg 535psig.WHT 56'
24-12-89	22:05:00	13.333	2415.96	-0.15	243.88		
24-12-89	22:10:00	13.417	2415.96	-0.00	243.87		
24-12-89	22:15:00	13.500	2415.72	-0.23	243.86		
24-12-89	22:20:00	13.583	2416.09	0.37	243.85		
24-12-89	22:25:00	13.667	2415.74	-0.35	243.82		
24-12-89	22:35:00	13.833	2425.53	9.79	243.78		
24-12-89	22:40:00	13.917	2437.75	12.22	243.66		
24-12-89	22:45:00	14.000	2442.08	4.33	243.48		
24-12-89	22:50:00	14.083	2429.85	-12.23	243.43		
24-12-89	22:55:00	14.167	2428.03	-1.83	243.49		
24-12-89	23:00:00	14.250	2430.60	2.57	243.51		
24-12-89	23:05:00	14.333	2424.29	-6.31	243.54		
24-12-89	23:10:00	14.417	2423.78	-0.51	243.58		
24-12-89	23:15:00	14.500	2422.10	-1.68	243.61		
24-12-89	23:20:00	14.583	2422.20	0.09	243.64		
24-12-89	23:25:00	14.667	2423.55	1.35	243.64		
24-12-89	23:30:00	14.750	2429.45	5.90	243.63		
24-12-89	23:35:00	14.833	2431.25	1.80	243.61		
24-12-89	23:40:00	14.917	2433.67	2.42	243.51		
24-12-89	23:45:00	15.000	2433.16	-0.52	243.48		
24-12-89	23:50:00	15.083	2438.09	4.93	243.46		
24-12-89	23:55:00	15.167	2438.11	0.02	243.39		
25-12-89	00:00:00	15.250	2438.24	0.13	243.35	1866	Csg 525psig.WHT 55'
25-12-89	00:05:00	15.333	2442.44	4.20	243.33		
25-12-89	00:10:00	15.417	2442.33	-0.11	243.30		
25-12-89	00:15:00	15.500	2444.62	2.29	243.24		
25-12-89	00:20:00	15.583	2444.55	-0.06	243.21		
25-12-89	00:25:00	15.667	2443.14	-1.41	243.19		
25-12-89	00:30:00	15.750	2441.80	-1.34	243.20		
25-12-89	00:35:00	15.833	2443.29	1.49	243.21		
25-12-89	00:40:00	15.917	2442.57	-0.72	243.21		
25-12-89	00:45:00	16.000	2442.83	0.25	243.22		
25-12-89	00:50:00	16.083	2443.66	0.83	243.23		
25-12-89	00:55:00	16.167	2444.70	1.04	243.22		
25-12-89	01:00:00	16.250	2445.59	0.89	243.22		
25-12-89	01:05:00	16.333	2446.43	0.84	243.19		
25-12-89	01:10:00	16.417	2446.15	-0.27	243.18		
25-12-89	01:15:00	16.500	2445.48	-0.68	243.19		
25-12-89	01:20:00	16.583	2445.81	0.33	243.20		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	01:25:00	16.667	2447.31	1.51	243.19		
25-12-89	01:30:00	16.750	2446.11	-1.21	243.19		
25-12-89	01:35:00	16.833	2446.94	0.83	243.21		
25-12-89	01:40:00	16.917	2450.18	3.24	243.17		
25-12-89	01:45:00	17.000	2450.73	0.55	243.16		
25-12-89	01:50:00	17.083	2451.72	0.99	243.14		
25-12-89	01:55:00	17.167	2451.71	-0.01	243.12		
25-12-89	02:00:00	17.250	2451.95	0.24	243.11	1880	Csg 514psig.WHT 55'
25-12-89	02:05:00	17.333	2452.69	0.74	243.11		
25-12-89	02:10:00	17.417	2454.23	1.53	243.09		
25-12-89	02:15:00	17.500	2461.82	7.59	243.09		
25-12-89	02:20:00	17.583	2455.78	-6.04	243.07		
25-12-89	02:25:00	17.667	2456.12	0.34	243.07		
25-12-89	02:30:00	17.750	2456.71	0.59	243.07		
25-12-89	02:35:00	17.833	2456.52	-0.18	243.06		
25-12-89	02:40:00	17.917	2456.90	0.38	243.07		
25-12-89	02:45:00	18.000	2457.30	0.40	243.08		
25-12-89	02:50:00	18.083	2457.90	0.61	243.07		
25-12-89	02:55:00	18.167	2460.49	2.58	243.03		
25-12-89	03:00:00	18.250	2460.30	-0.19	243.01		
25-12-89	03:05:00	18.333	2461.13	0.83	243.00		
25-12-89	03:10:00	18.417	2461.62	0.49	242.10		
25-12-89	03:15:00	18.500	2463.45	1.83	242.97		
25-12-89	03:20:00	18.583	2464.42	0.96	242.94		
25-12-89	03:25:00	18.667	2465.53	1.12	242.93		
25-12-89	03:30:00	18.750	2466.97	1.44	242.92		
25-12-89	03:35:00	18.833	2467.52	0.55	242.91		
25-12-89	03:40:00	18.917	2467.19	-0.33	242.90		
25-12-89	03:45:00	19.000	2466.96	-0.23	242.91		
25-12-89	03:50:00	19.083	2467.05	0.09	242.92		
25-12-89	03:55:00	19.167	2468.37	1.32	242.91		
25-12-89	04:00:00	19.250	2468.83	0.45	242.91	1892	Csg 500psig.WHT 55'
25-12-89	04:05:00	19.333	2470.15	1.32	242.90		
25-12-89	04:10:00	19.417	2471.13	0.98	242.88		
25-12-89	04:15:00	19.500	2471.89	0.76	242.87		
25-12-89	04:20:00	19.583	2472.61	0.71	242.86		
25-12-89	04:25:00	19.667	2471.70	-0.91	242.85		
25-12-89	04:30:00	19.750	2470.31	-1.39	242.86		
25-12-89	04:35:00	19.833	2470.03	-0.28	242.89		
25-12-89	04:40:00	19.917	2471.41	1.38	242.91		
25-12-89	04:45:00	20.000	2470.87	-0.54	242.91		
25-12-89	04:50:00	20.083	2470.34	-0.53	242.92		
25-12-89	04:55:00	20.167	2470.37	0.02	242.94		
25-12-89	05:00:00	20.250	2470.61	0.24	242.94		
25-12-89	05:05:00	20.333	2470.82	0.21	242.95		
25-12-89	05:10:00	20.417	2471.08	0.26	242.95		
25-12-89	05:15:00	20.500	2471.02	-0.06	242.93		
25-12-89	05:20:00	20.583	2471.77	0.75	242.96		
25-12-89	05:25:00	20.667	2471.75	-0.02	242.95		
25-12-89	05:30:00	20.750	2471.64	-0.11	242.95		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	05:35:00	20.833	2471.80	0.15	242.95		
25-12-89	05:40:00	20.917	2472.15	0.35	242.97		
25-12-89	05:45:00	21.000	2472.46	0.31	242.97		
25-12-89	05:50:00	21.083	2472.52	0.07	242.96		
25-12-89	05:55:00	21.167	2473.27	0.74	242.97		
25-12-89	06:00:00	21.250	2473.85	0.59	242.95	1894	Csg 490psig.WHT 55'
25-12-89	06:05:00	21.333	2473.96	0.11	242.95		
25-12-89	06:10:00	21.417	2474.68	0.72	242.95		
25-12-89	06:15:00	21.500	2475.21	0.53	242.88		
25-12-89	06:20:00	21.583	2475.43	0.23	242.84		
25-12-89	06:25:00	21.667	2475.54	0.11	242.83		
25-12-89	06:30:00	21.750	2475.71	0.18	242.85		
25-12-89	06:35:00	21.833	2475.50	-0.21	242.85		
25-12-89	06:40:00	21.917	2476.24	0.74	242.86		
25-12-89	06:45:00	22.000	2475.68	-0.56	242.85		
25-12-89	06:50:00	22.083	2476.09	0.42	242.85		
25-12-89	06:55:00	22.167	2476.14	0.05	242.87		
25-12-89	07:00:00	22.250	2476.22	0.08	242.86		
25-12-89	07:05:00	22.333	2477.31	1.09	242.83		
25-12-89	07:10:00	22.417	2479.64	2.33	242.79		
25-12-89	07:15:00	22.500	2480.01	0.37	242.79		
25-12-89	07:20:00	22.583	2479.91	-0.10	242.79		
25-12-89	07:25:00	22.667	2479.95	0.04	242.78		
25-12-89	07:30:00	22.750	2480.87	0.93	242.79		
25-12-89	07:35:00	22.833	2482.10	1.23	242.80		
25-12-89	07:40:00	22.917	2482.43	0.33	242.79		
25-12-89	07:45:00	23.000	2482.27	-0.16	242.79		
25-12-89	07:50:00	23.083	2482.50	0.23	242.78		
25-12-89	07:55:00	23.167	2482.57	0.08	242.79		
25-12-89	08:00:00	23.250	2480.51	-2.06	242.81	1902	Csg 481psig.WHT 55'
25-12-89	08:05:00	23.333	2479.76	-0.75	242.84		
25-12-89	08:10:00	23.417	2479.36	-0.40	242.87		
25-12-89	08:15:00	23.500	2479.73	0.37	242.89		
25-12-89	08:20:00	23.583	2479.72	-0.01	242.90		
25-12-89	08:25:00	23.667	2479.77	0.05	242.91		
25-12-89	08:30:00	23.750	2479.52	-0.25	242.92		
25-12-89	08:35:00	23.833	2479.70	0.18	242.93		
25-12-89	08:40:00	23.917	2479.76	0.06	242.94		
25-12-89	08:45:00	24.000	2479.80	0.05	242.93		
25-12-89	08:50:00	24.083	2479.17	-0.64	242.94		
25-12-89	08:55:00	24.167	2478.68	-0.49	242.96		
25-12-89	09:00:00	24.250	2477.29	-1.39	242.96		
25-12-89	09:05:00	24.333	2477.84	0.55	242.99		
25-12-89	09:10:00	24.417	2478.06	0.22	242.99		
25-12-89	09:15:00	24.500	2478.14	0.08	242.98		
25-12-89	09:20:00	24.583	2478.28	0.15	242.99		
25-12-89	09:25:00	24.667	2478.80	0.51	242.99		
25-12-89	09:30:00	24.750	2478.53	-0.26	242.98		
25-12-89	09:35:00	24.833	2465.25	-13.29	243.01		
25-12-89	09:40:00	24.917	2459.57	-5.68	243.17		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	09:45:00	25.000	2457.10	-2.47	243.29		
25-12-89	09:50:00	25.083	2456.06	-1.04	243.36		
25-12-89	09:55:00	25.167	2451.73	-4.33	243.39		
25-12-89	10:00:00	25.250	2448.98	-2.74	243.47	1870	Csg 482psig.WHT 57'
25-12-89	10:05:00	25.333	2447.77	-1.21	243.50		
25-12-89	10:10:00	25.417	2447.22	-0.56	243.53		
25-12-89	10:15:00	25.500	2447.42	0.20	243.53		
25-12-89	10:20:00	25.583	2445.25	-2.17	243.54		
25-12-89	10:25:00	25.667	2445.11	-0.14	243.57		
25-12-89	10:30:00	25.750	2441.80	-3.30	243.58		
25-12-89	10:35:00	25.833	2440.18	-1.63	243.62		
25-12-89	10:40:00	25.917	2438.79	-1.39	243.66		
25-12-89	10:45:00	26.000	2437.48	-1.31	243.69		
25-12-89	10:50:00	26.083	2436.73	-0.75	243.70		
25-12-89	10:55:00	26.167	2436.29	-0.44	243.72		
25-12-89	11:00:00	26.250	2435.44	-0.85	243.73		
25-12-89	11:05:00	26.333	2435.26	-0.18	243.74		
25-12-89	11:10:00	26.417	2434.78	-0.47	243.74		
25-12-89	11:15:00	26.500	2434.72	-0.07	243.75		
25-12-89	11:20:00	26.583	2434.52	-0.19	243.75		
25-12-89	11:25:00	26.667	2434.08	-0.44	243.75		
25-12-89	11:30:00	26.750	2434.14	0.06	243.75		
25-12-89	11:35:00	26.833	2434.12	-0.02	243.74		
25-12-89	11:40:00	26.917	2433.78	-0.34	243.74		
25-12-89	11:45:00	27.000	2433.45	-0.33	243.74		
25-12-89	11:50:00	27.083	2433.25	-0.20	243.74		
25-12-89	11:55:00	27.167	2432.94	-0.31	243.75		
25-12-89	12:00:00	27.250	2432.68	-0.26	243.74	1859	Csg 498psig.WHT 58'
25-12-89	12:05:00	27.333	2432.84	0.16	243.74		
25-12-89	12:10:00	27.417	2432.77	-0.08	243.74		
25-12-89	12:15:00	27.500	2432.45	-0.32	243.74		
25-12-89	12:20:00	27.583	2432.06	-0.39	243.73		
25-12-89	12:25:00	27.667	2431.93	-0.13	243.74		
25-12-89	12:30:00	27.750	2431.85	-0.09	243.74		
25-12-89	12:35:00	27.833	2431.62	-0.23	243.74		
25-12-89	12:40:00	27.917	2431.52	-0.10	243.74		
25-12-89	12:45:00	28.000	2431.24	-0.28	243.74		
25-12-89	12:50:00	28.083	2431.23	-0.01	243.73		
25-12-89	12:55:00	28.167	2431.29	0.07	243.72		
25-12-89	13:00:00	28.250	2431.34	0.05	243.71		
25-12-89	13:05:00	28.333	2431.30	-0.04	243.70		
25-12-89	13:10:00	28.417	2431.28	-0.02	243.70		
25-12-89	13:15:00	28.500	2431.13	-0.16	243.70		
25-12-89	13:20:00	28.583	2430.86	-0.27	243.69		
25-12-89	13:25:00	28.667	2430.39	-0.46	243.70		
25-12-89	13:30:00	28.750	2429.88	-0.51	243.70		
25-12-89	13:35:00	28.833	2429.64	-0.24	243.70		
25-12-89	13:40:00	28.917	2429.47	-0.17	243.69		
25-12-89	13:45:00	29.000	2429.52	0.05	243.69		
25-12-89	13:50:00	29.083	2429.30	-0.22	243.68		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	13:55:00	29.167	2429.15	-0.03	243.68		
25-12-89	14:00:00	29.250	2429.17	0.03	243.69	1859	Csg 505psig.WHT 59'
25-12-89	14:05:00	29.333	2430.19	1.01	243.68		
25-12-89	14:10:00	29.417	2431.71	1.52	243.66		
25-12-89	14:15:00	29.500	2433.71	1.10	243.65		
25-12-89	14:20:00	29.583	2434.75	1.04	243.63		
25-12-89	14:25:00	29.667	2435.08	0.34	243.61		
25-12-89	14:30:00	29.750	2435.17	0.08	243.59		
25-12-89	14:35:00	29.833	2435.27	0.11	243.58		
25-12-89	14:40:00	29.917	2434.82	-0.45	243.58		
25-12-89	14:45:00	30.000	2434.41	-0.41	243.57		
25-12-89	14:50:00	30.083	2433.88	-0.53	243.58		
25-12-89	14:55:00	30.167	2433.53	-0.36	243.58		
25-12-89	15:00:00	30.250	2433.35	-0.17	243.59		
25-12-89	15:05:00	30.333	2433.41	0.06	243.59		
25-12-89	15:10:00	30.417	2433.28	-0.14	243.58		
25-12-89	15:15:00	30.500	2433.08	-0.19	243.59		
25-12-89	15:20:00	30.583	2432.90	-0.18	243.58		
25-12-89	15:25:00	30.667	2432.61	-0.29	243.59		
25-12-89	15:30:00	30.750	2432.35	-0.26	243.58		
25-12-89	15:35:00	30.833	2432.21	-0.13	243.59		
25-12-89	15:40:00	30.917	2432.02	-0.19	243.59		
25-12-89	15:45:00	31.000	2431.56	-0.46	243.59		
25-12-89	15:50:00	31.083	2431.34	-0.22	243.59		
25-12-89	15:55:00	31.167	2431.06	-0.28	243.60		
25-12-89	16:00:00	31.250	2430.57	-0.49	243.61	1857	Csg 505psig.WHT 58'
25-12-89	16:05:00	31.333	2430.27	-0.30	243.61		
25-12-89	16:10:00	31.417	2430.13	-0.13	243.62		
25-12-89	16:15:00	31.500	2430.07	-0.06	243.62		
25-12-89	16:20:00	31.583	2429.74	-0.33	243.62		
25-12-89	16:25:00	31.667	2429.48	-0.26	243.62		
25-12-89	16:30:00	31.750	2429.41	-0.08	243.62		
25-12-89	16:35:00	31.833	2429.12	-0.29	243.63		
25-12-89	16:40:00	31.917	2428.83	-0.29	243.62		
25-12-89	16:45:00	32.000	2428.45	-0.38	243.63		
25-12-89	16:50:00	32.083	2428.17	-0.28	243.64		
25-12-89	16:55:00	32.167	2427.91	-0.27	243.66		
25-12-89	17:00:00	32.250	2427.92	0.01	243.66		
25-12-89	17:05:00	32.333	2427.88	-0.04	243.67		
25-12-89	17:10:00	32.417	2427.83	-0.05	243.67		
25-12-89	17:15:00	32.500	2427.53	-0.30	243.66		
25-12-89	17:20:00	32.583	2427.38	-0.15	243.67		
25-12-89	17:25:00	32.667	2427.34	-0.04	243.66		
25-12-89	17:30:00	32.750	2427.21	-0.12	243.67		
25-12-89	17:35:00	32.833	2426.76	-0.45	243.66		
25-12-89	17:40:00	32.917	2426.33	-0.42	243.66		
25-12-89	17:45:00	33.000	2427.04	0.71	243.67		
25-12-89	17:50:00	33.083	2427.83	0.79	243.66		
25-12-89	17:55:00	33.167	2428.50	0.68	243.66		
25-12-89	18:00:00	33.250	2429.21	0.70	243.65	1856	Csg 506psig.WHT 56'

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	18:05:00	33.333	2430.02	-6.60	243.65		
25-12-89	18:10:00	33.417	2430.71	0.69	243.64		
25-12-89	18:15:00	33.500	2431.61	0.90	243.62		
25-12-89	18:20:00	33.583	2432.39	0.78	243.60		
25-12-89	18:25:00	33.667	2432.98	0.59	243.60		
25-12-89	18:30:00	33.750	2433.66	0.68	243.59		
25-12-89	18:35:00	33.833	2434.29	0.63	243.59		
25-12-89	18:40:00	33.917	2434.58	0.29	243.58		
25-12-89	18:45:00	34.000	2435.01	0.43	243.58		
25-12-89	18:50:00	34.083	2435.59	0.58	243.58		
25-12-89	18:55:00	34.167	2436.25	0.66	243.58		
25-12-89	19:00:00	34.250	2436.74	0.49	243.58		
25-12-89	19:05:00	34.333	2437.32	0.58	243.58		
25-12-89	19:10:00	34.417	2437.89	0.57	243.58		
25-12-89	19:15:00	34.500	2438.22	0.33	243.58		
25-12-89	19:20:00	34.583	2438.69	0.47	243.56		
25-12-89	19:25:00	34.667	2439.17	0.48	243.56		
25-12-89	19:30:00	34.750	2439.65	0.47	243.55		
25-12-89	19:35:00	34.833	2439.86	0.21	243.54		
25-12-89	19:40:00	34.917	2440.15	0.29	243.54		
25-12-89	19:45:00	35.000	2440.70	0.55	243.53		
25-12-89	19:50:00	35.083	2440.87	0.17	243.53		
25-12-89	19:55:00	35.167	2441.27	0.41	243.52		
25-12-89	20:00:00	35.250	2442.32	1.04	243.51	1867	Csg 499psig.WHT 55'
25-12-89	20:05:00	35.333	2442.97	0.65	243.49		
25-12-89	20:10:00	35.417	2442.90	-0.07	243.48		
25-12-89	20:15:00	35.500	2443.30	0.40	243.46		
25-12-89	20:20:00	35.583	2442.99	-0.31	243.45		
25-12-89	20:25:00	35.667	2442.43	-0.56	243.46		
25-12-89	20:30:00	35.750	2442.26	-0.17	243.46		
25-12-89	20:35:00	35.833	2441.89	-0.37	243.46		
25-12-89	20:40:00	35.917	2441.68	-0.21	243.47		
25-12-89	20:45:00	36.000	2441.44	-0.24	243.47		
25-12-89	20:50:00	36.083	2441.08	-0.37	243.48		
25-12-89	20:55:00	36.167	2440.85	-0.23	243.49		
25-12-89	21:00:00	36.250	2440.61	-0.23	243.49		
25-12-89	21:05:00	36.333	2440.33	-0.28	243.49		
25-12-89	21:10:00	36.417	2440.13	-0.20	243.49		
25-12-89	21:15:00	36.500	2439.87	-0.26	243.50		
25-12-89	21:20:00	36.583	2439.07	-0.80	243.50		
25-12-89	21:25:00	36.667	2438.46	-0.61	243.52		
25-12-89	21:30:00	36.750	2438.13	-0.34	243.52		
25-12-89	21:35:00	36.833	2437.97	-0.15	243.53		
25-12-89	21:40:00	36.917	2437.68	-0.29	243.54		
25-12-89	21:45:00	37.000	2437.49	-0.19	243.55		
25-12-89	21:50:00	37.083	2437.19	-0.30	243.55		
25-12-89	21:55:00	37.167	2436.97	-0.22	243.56		
25-12-89	22:00:00	37.250	2436.74	-0.23	243.56	1860	Csg 499psig.WHT 55'
25-12-89	22:05:00	37.333	2436.81	0.07	243.56		
25-12-89	22:10:00	37.417	2436.68	-0.13	243.56		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 25-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
25-12-89	22:15:00	37.500	2436.62	-0.06	243.56		
25-12-89	22:20:00	37.583	2436.49	-0.14	243.56		
25-12-89	22:25:00	37.667	2436.49	-0.00	243.56		
25-12-89	22:30:00	37.750	2436.49	0.00	243.56		
25-12-89	22:35:00	37.833	2436.34	-0.14	243.56		
25-12-89	22:40:00	37.917	2436.37	0.03	243.56		
25-12-89	22:45:00	38.000	2436.42	0.05	243.56		
25-12-89	22:50:00	38.083	2436.48	0.06	243.56		
25-12-89	22:55:00	38.167	2436.50	0.02	243.55		
25-12-89	23:00:00	38.250	2436.61	0.12	243.55		
25-12-89	23:05:00	38.333	2436.72	0.11	243.55		
25-12-89	23:10:00	38.417	2436.65	-0.07	243.55		
25-12-89	23:15:00	38.500	2436.61	-0.04	243.55		
25-12-89	23:20:00	38.583	2436.63	0.02	243.55		
25-12-89	23:25:00	38.667	2436.71	0.08	243.54		
25-12-89	23:30:00	38.750	2436.88	0.17	243.55		
25-12-89	23:35:00	38.833	2436.82	-0.06	243.55		
25-12-89	23:40:00	38.917	2436.68	-0.15	243.54		
25-12-89	23:45:00	39.000	2436.71	0.03	243.54		
25-12-89	23:50:00	39.083	2436.63	-0.08	243.54		
25-12-89	23:55:00	39.167	2436.62	-0.01	243.53		
25-12-89	00:00:00	39.250	2436.66	0.04	243.53	1860	Csg 497psig.WHT 56'
25-12-89	00:05:00	39.333	2436.75	0.09	243.53		
25-12-89	00:10:00	39.417	2436.61	-0.13	243.54		
25-12-89	00:15:00	39.500	2436.51	-0.10	243.54		
25-12-89	00:20:00	39.583	2436.50	-0.02	243.54		
25-12-89	00:25:00	39.667	2435.87	-0.63	243.55		
25-12-89	00:30:00	39.750	2435.65	-0.22	243.55		
25-12-89	00:35:00	39.833	2435.60	-0.05	243.56		
25-12-89	00:40:00	39.917	2435.52	-0.08	243.56		
25-12-89	00:45:00	40.000	2435.19	-0.33	243.56		
25-12-89	00:50:00	40.083	2435.54	0.35	243.56		
25-12-89	00:55:00	40.167	2435.54	-0.00	243.56		
25-12-89	01:00:00	40.250	2435.13	-0.42	243.55		
25-12-89	01:05:00	40.333	2434.92	-0.20	243.56		
25-12-89	01:10:00	40.417	2434.71	-0.21	243.56		
25-12-89	01:15:00	40.500	2434.56	-0.15	243.58		
25-12-89	01:20:00	40.583	2434.50	-0.06	243.57		
25-12-89	01:25:00	40.667	2434.45	-0.05	243.58		
25-12-89	01:30:00	40.750	2434.64	0.18	243.58		
25-12-89	01:35:00	40.833	2434.65	0.01	243.57		
25-12-89	01:40:00	40.917	2434.61	-0.04	243.57		
25-12-89	01:45:00	41.000	2434.76	0.15	243.56		
25-12-89	01:50:00	41.083	2434.81	0.05	243.56		
26-12-89	01:55:00	41.167	2434.89	0.08	243.56		
26-12-89	02:00:00	41.250	2435.02	0.14	243.56	1856	Csg 497psig.WHT 55'
26-12-89	02:05:00	41.333	2435.14	0.12	243.56		
26-12-89	02:10:00	41.417	2435.17	0.04	243.55		
26-12-89	02:15:00	41.500	2436.61	1.44	243.56		
26-12-89	02:20:00	41.583	2438.52	1.91	243.53		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	02:25:00	41.667	2439.28	0.76	243.50		
26-12-89	02:30:00	41.750	2439.83	0.55	243.48		
26-12-89	02:35:00	41.833	2440.23	0.40	243.47		
26-12-89	02:40:00	41.917	2440.38	0.14	243.47		
26-12-89	02:45:00	42.000	2440.62	0.24	243.46		
26-12-89	02:50:00	42.083	2440.77	0.15	243.45		
26-12-89	02:55:00	42.167	2440.92	0.14	243.45		
26-12-89	03:00:00	42.250	2441.07	0.16	243.45		
26-12-89	03:05:00	42.333	2441.11	0.04	243.46		
26-12-89	03:10:00	42.417	2441.11	-0.00	243.45		
26-12-89	03:15:00	42.500	2440.56	-0.55	243.45		
26-12-89	03:20:00	42.583	2440.82	0.26	243.47		
26-12-89	03:25:00	42.667	2440.81	-0.01	243.46		
26-12-89	03:30:00	42.750	2440.86	0.05	243.46		
26-12-89	03:35:00	42.833	2440.96	0.10	243.46		
26-12-89	03:40:00	42.917	2440.92	-0.04	243.46		
26-12-89	03:45:00	43.000	2441.03	0.11	243.47		
26-12-89	03:50:00	43.083	2441.10	0.08	243.48		
26-12-89	03:55:00	43.167	2441.07	-0.03	243.47		
26-12-89	04:00:00	43.250	2443.23	2.15	243.47	1866	Csg 494psig.WHT 55'
26-12-89	04:05:00	43.333	2443.96	0.73	243.44		
26-12-89	04:10:00	43.417	2444.46	0.50	243.43		
26-12-89	04:15:00	43.500	2444.82	0.37	243.42		
26-12-89	04:20:00	43.583	2445.12	0.30	243.41		
26-12-89	04:25:00	43.667	2445.31	0.18	243.41		
26-12-89	04:30:00	43.750	2445.33	0.03	243.41		
26-12-89	04:35:00	43.833	2445.47	0.14	243.41		
26-12-89	04:40:00	43.917	2445.61	0.14	243.41		
26-12-89	04:45:00	44.000	2445.63	0.02	243.42		
26-12-89	04:50:00	44.083	2445.69	0.07	243.41		
26-12-89	04:55:00	44.167	2445.97	0.28	243.41		
26-12-89	05:00:00	44.250	2446.00	0.03	243.40		
26-12-89	05:05:00	44.333	2446.11	0.11	243.41		
26-12-89	05:10:00	44.417	2446.14	0.03	243.40		
26-12-89	05:15:00	44.500	2446.27	0.14	243.41		
26-12-89	05:20:00	44.583	2446.40	0.13	243.41		
26-12-89	05:25:00	44.667	2446.18	-0.21	243.40		
26-12-89	05:30:00	44.750	2446.38	0.19	243.40		
26-12-89	05:35:00	44.833	2446.43	0.05	243.40		
26-12-89	05:40:00	44.917	2446.57	0.14	243.39		
26-12-89	05:45:00	45.000	2446.69	0.12	243.40		
26-12-89	05:50:00	45.083	2446.86	0.17	243.40		
26-12-89	05:55:00	45.167	2446.82	-0.04	243.40		
26-12-89	06:00:00	45.250	2446.77	-0.05	243.40	1864	Csg 488psig.WHT 54'
26-12-89	06:05:00	45.333	2446.78	0.01	243.39		
26-12-89	06:10:00	45.417	2446.73	-0.05	243.38		
26-12-89	06:15:00	45.500	2446.88	0.15	243.40		
26-12-89	06:20:00	45.583	2446.81	-0.07	243.39		
26-12-89	06:25:00	45.667	2446.72	-0.09	243.39		
26-12-89	06:30:00	45.750	2446.74	0.02	243.37		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	06:35:00	45.833	2446.93	0.19	243.37		
26-12-89	06:40:00	45.917	2447.00	0.07	243.37		
26-12-89	06:45:00	46.000	2446.93	-0.07	243.37		
26-12-89	06:50:00	46.083	2446.56	-0.38	243.37		
26-12-89	06:55:00	46.167	2446.68	0.13	243.38		
26-12-89	07:00:00	46.250	2446.68	0.00	243.39		
26-12-89	07:05:00	46.333	2446.82	0.14	243.39		
26-12-89	07:10:00	46.417	2446.82	-0.00	243.39		
26-12-89	07:15:00	46.500	2447.24	0.42	243.38		
26-12-89	07:20:00	46.583	2447.25	0.01	243.38		
26-12-89	07:25:00	46.667	2447.25	0.00	243.39		
26-12-89	07:30:00	46.750	2447.43	0.17	243.39		
26-12-89	07:35:00	46.833	2447.43	-0.00	243.38		
26-12-89	07:40:00	46.917	2447.32	-0.11	243.38		
26-12-89	07:45:00	47.000	2447.36	0.04	243.39		
26-12-89	07:50:00	47.083	2447.38	0.02	243.39		
26-12-89	07:55:00	47.167	2447.42	0.04	243.39		
26-12-89	08:00:00	47.250	2447.36	-0.06	243.38	1869	Csg 488psig.WHT 54'
26-12-89	08:05:00	47.333	2447.29	-0.07	243.39		
26-12-89	08:10:00	47.417	2447.34	0.05	243.38		
26-12-89	08:15:00	47.500	2447.45	0.11	243.38		
26-12-89	08:20:00	47.583	2447.31	-0.13	243.39		
26-12-89	08:25:00	47.667	2447.32	0.01	243.39		
26-12-89	08:30:00	47.750	2447.23	-0.10	243.39		
26-12-89	08:35:00	47.833	2447.10	-0.12	243.40		
26-12-89	08:40:00	47.917	2447.07	-0.03	243.40		
26-12-89	08:45:00	48.000	2447.15	0.08	243.40		
26-12-89	08:50:00	48.083	2447.04	-0.11	243.40		
26-12-89	08:55:00	48.167	2446.92	-0.12	243.41		
26-12-89	09:00:00	48.250	2447.02	0.11	243.40	1870	Csg 487psig.WHT 54'
26-12-89	09:05:00	48.333	2447.11	0.09	243.41		Start Sample Set 1.
26-12-89	09:10:00	48.417	2447.18	0.07	243.41		
26-12-89	09:15:00	48.500	2446.94	-0.24	243.41		
26-12-89	09:20:00	48.583	2446.70	-0.24	243.42		
26-12-89	09:25:00	48.667	2446.75	0.05	243.42		
26-12-89	09:30:00	48.750	2446.92	0.18	243.43		
26-12-89	09:35:00	48.833	2446.96	0.04	243.43		
26-12-89	09:40:00	48.917	2446.97	0.01	243.43		
26-12-89	09:45:00	49.000	2446.98	0.01	243.43		
26-12-89	09:50:00	49.083	2446.96	-0.02	243.45		
26-12-89	09:55:00	49.167	2446.87	-0.10	243.45		
26-12-89	10:00:00	49.250	2447.03	0.16	243.45	1871	Csg 486psig.WHT 56'
26-12-89	10:05:00	49.333	2447.12	0.09	243.45		Start Sample Set 2
26-12-89	10:10:00	49.417	2447.29	0.17	243.46		
26-12-89	10:15:00	49.500	2447.38	0.09	243.46		
26-12-89	10:20:00	49.583	2447.29	-0.09	243.47		
26-12-89	10:25:00	49.667	2447.22	-0.08	243.47		
26-12-89	10:30:00	49.750	2447.19	-0.03	243.47		
26-12-89	10:35:00	49.833	2446.86	-0.33	243.47		
26-12-89	10:40:00	49.917	2446.95	0.09	243.48		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	10:45:00	50.000	2447.09	-0.36	243.48		
26-12-89	10:50:00	50.083	2447.17	0.08	243.48		
26-12-89	10:55:00	50.167	2447.31	0.14	243.48		
26-12-89	11:00:00	50.250	2447.45	0.15	243.49	1872	Csg 487psig.WHT 57'
26-12-89	11:05:00	50.333	2447.47	0.02	243.49		Start Sample Set 3.
26-12-89	11:10:00	50.417	2447.49	0.02	243.50		
26-12-89	11:15:00	50.500	2447.48	-0.01	243.50		
26-12-89	11:20:00	50.583	2447.50	0.02	243.50		
26-12-89	11:25:00	50.667	2447.59	0.09	243.51		
26-12-89	11:30:00	50.750	2447.67	0.08	243.51		
26-12-89	11:35:00	50.833	2447.79	0.12	243.50		
26-12-89	11:40:00	50.917	2447.73	-0.06	243.50		
26-12-89	11:45:00	51.000	2447.55	-0.18	243.50		
26-12-89	11:50:00	51.083	2447.89	0.34	243.49		
26-12-89	11:55:00	51.167	2447.91	0.03	243.48		
26-12-89	12:00:00	51.250	2448.00	0.09	243.48	1873	Csg 484psig.WHT 58'
26-12-89	12:05:00	51.333	2447.81	-0.19	243.49		
26-12-89	12:10:00	51.417	2447.94	0.13	243.48		
26-12-89	12:15:00	51.500	2448.11	0.16	243.48		
26-12-89	12:20:00	51.583	2448.17	0.07	243.47		
26-12-89	12:25:00	51.667	2448.23	0.06	243.48		
26-12-89	12:30:00	51.750	2448.37	0.13	243.47		
26-12-89	12:35:00	51.833	2448.48	0.12	243.47		
26-12-89	12:40:00	51.917	2448.25	-0.23	243.47		
26-12-89	12:45:00	52.000	2448.13	-0.13	243.47		
26-12-89	12:50:00	52.083	2448.25	0.12	243.47		
26-12-89	12:55:00	52.167	2448.19	-0.06	243.48		
26-12-89	13:00:00	52.250	2447.99	-0.20	243.48		
26-12-89	13:05:00	52.333	2447.90	-0.09	243.48		
26-12-89	13:10:00	52.417	2447.30	-0.60	243.48		
26-12-89	13:15:00	52.500	2447.53	0.22	243.49		
26-12-89	13:20:00	52.583	2447.56	0.03	243.49		
26-12-89	13:25:00	52.667	2447.72	0.16	243.48		
26-12-89	13:30:00	52.750	2447.74	0.02	243.49		
26-12-89	13:35:00	52.833	2447.52	-0.22	243.49		
26-12-89	13:40:00	52.917	2447.46	-0.06	243.50		
26-12-89	13:45:00	53.000	2447.29	-0.17	243.50		
26-12-89	13:50:00	53.083	2447.53	0.24	243.51		
26-12-89	13:55:00	53.167	2447.27	-0.26	243.51		
26-12-89	14:00:00	53.250	2447.44	0.16	243.51	1871	Csg 483psig.WHT 58'
26-12-89	14:05:00	53.333	2447.32	-0.12	243.52		
26-12-89	14:10:00	53.417	2447.28	-0.04	243.52		
26-12-89	14:15:00	53.500	2447.55	0.27	243.52		
26-12-89	14:20:00	53.583	2447.55	-0.00	243.52		
26-12-89	14:25:00	53.667	2447.58	0.03	243.50		
26-12-89	14:30:00	53.750	2447.24	-0.34	243.50		
26-12-89	14:35:00	53.833	2447.15	-0.09	243.51		
26-12-89	14:40:00	53.917	2447.03	-0.13	243.50		
26-12-89	14:45:00	54.000	2446.97	-0.06	243.52		
26-12-89	14:50:00	54.083	2446.53	-0.44	243.52		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	14:55:00	54.167	2446.78	0.25	243.53		
26-12-89	15:00:00	54.250	2446.66	-0.12	243.54		
26-12-89	15:05:00	54.333	2446.65	-0.01	243.55		
26-12-89	15:10:00	54.417	2446.68	0.03	243.56		
26-12-89	15:15:00	54.500	2446.64	-0.04	243.57		
26-12-89	15:20:00	54.583	2446.43	-0.21	243.58		
26-12-89	15:25:00	54.667	2446.30	-0.13	243.60		
26-12-89	15:30:00	54.750	2446.09	-0.21	243.61		
26-12-89	15:35:00	54.833	2445.97	-0.11	243.62		
26-12-89	15:40:00	54.917	2446.25	0.28	243.63		
26-12-89	15:45:00	55.000	2446.09	-0.16	243.65		
26-12-89	15:50:00	55.083	2446.12	0.02	243.69		
26-12-89	15:55:00	55.167	2446.14	0.02	243.71		
26-12-89	16:00:00	55.250	2445.93	-0.21	243.76	1870	Csg 483psig.WHT 56'
26-12-89	16:05:00	55.333	2445.86	-0.07	243.80		
26-12-89	16:10:00	55.417	2445.94	0.08	243.83		
26-12-89	16:15:00	55.500	2446.03	0.09	243.83		
26-12-89	16:20:00	55.583	2446.25	0.22	243.83		
26-12-89	16:25:00	55.667	2446.23	-0.02	243.84		
26-12-89	16:30:00	55.750	2445.83	-0.40	243.84		
26-12-89	16:35:00	55.833	2446.20	0.37	243.85		
26-12-89	16:40:00	55.917	2446.10	-0.10	243.84		
26-12-89	16:45:00	56.000	2445.76	-0.34	243.85		
26-12-89	16:50:00	56.083	2446.01	0.25	243.85		
26-12-89	16:55:00	56.167	2446.10	0.09	243.85		
26-12-89	17:00:00	56.250	2445.93	-0.17	243.85		
26-12-89	17:05:00	56.333	2445.83	-0.10	243.84		
26-12-89	17:10:00	56.417	2445.93	0.10	243.86		
26-12-89	17:15:00	56.500	2445.94	0.01	243.87		
26-12-89	17:20:00	56.583	2445.86	-0.08	243.89		
26-12-89	17:25:00	56.667	2445.88	0.02	243.89		
26-12-89	17:30:00	56.750	2445.89	0.00	243.91		
26-12-89	17:35:00	56.833	2445.77	-0.12	243.91		
26-12-89	17:40:00	56.917	2445.68	-0.09	243.91		
26-12-89	17:45:00	57.000	2445.75	0.07	243.89		
26-12-89	17:50:00	57.083	2445.82	0.07	243.87		
26-12-89	17:55:00	57.167	2445.83	0.01	243.85		
26-12-89	18:00:00	57.250	2445.80	-0.03	243.81	1870	Csg 481psig.WHT 55'
26-12-89	18:01:00	57.267	2445.76	-0.04	243.80		
26-12-89	18:02:00	57.283	2445.78	0.03	243.79		Set Flow Rates.
26-12-89	18:03:00	57.300	2445.78	-0.00	243.79		
26-12-89	18:04:00	57.317	2445.81	0.03	243.78		1 min sample rate.
26-12-89	18:05:00	57.333	2445.77	-0.04	243.78		
26-12-89	18:06:00	57.350	2424.03	-21.74	243.77		
26-12-89	18:07:00	57.367	2356.11	-67.92	243.64		
26-12-89	18:08:00	57.383	2291.23	-64.88	243.77		
26-12-89	18:09:00	57.400	2241.26	-49.97	244.21		
26-12-89	18:10:00	57.417	2183.13	-58.12	245.02		
26-12-89	18:11:00	57.433	2157.36	-25.77	246.13		
26-12-89	18:12:00	57.450	2133.99	-23.37	247.03		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	18:13:00	57.467	2109.17	196.76	247.77		
26-12-89	18:14:00	57.483	2095.70	-13.47	248.57		
26-12-89	18:15:00	57.500	2088.25	-7.45	249.23		
26-12-89	18:16:00	57.517	2090.10	2.74	249.81		
26-12-89	18:17:00	57.533	2090.89	-0.10	250.30		
26-12-89	18:18:00	57.550	2094.58	3.69	250.40		
26-12-89	18:19:00	57.567	2103.33	8.75	250.42		
26-12-89	18:20:00	57.583	2109.56	6.24	250.50		
26-12-89	18:21:00	57.600	2116.99	7.43	250.48		
26-12-89	18:22:00	57.617	2108.66	-8.33	250.22		
26-12-89	18:23:00	57.633	2091.45	-17.21	249.89		
26-12-89	18:24:00	57.650	2078.52	-12.93	249.61		
26-12-89	18:25:00	57.667	2069.11	-9.41	249.49		
26-12-89	18:26:00	57.683	2055.19	-13.92	249.40		
26-12-89	18:27:00	57.700	2041.59	-13.60	249.37		
26-12-89	18:28:00	57.717	2032.81	-8.78	249.31		
26-12-89	18:29:00	57.733	2023.39	-9.42	249.29		
26-12-89	18:30:00	57.750	2014.02	-9.37	249.25		
26-12-89	18:31:00	57.767	2005.35	-8.68	249.20		
26-12-89	18:32:00	57.783	1998.19	-7.16	249.13		
26-12-89	18:33:00	57.800	1990.50	-7.69	249.07		
26-12-89	18:34:00	57.817	1984.62	-5.88	249.02		
26-12-89	18:35:00	57.833	1977.65	-6.97	248.97		
26-12-89	18:36:00	57.850	1975.66	-1.99	248.97		
26-12-89	18:37:00	57.867	1972.92	-2.74	248.97		
26-12-89	18:38:00	57.883	1970.61	-2.32	248.96		
26-12-89	18:39:00	57.900	1968.92	-1.69	248.95		
26-12-89	18:40:00	57.917	1962.01	-6.90	248.90		Choke 38/64".
26-12-89	18:41:00	57.933	1956.33	-5.68	248.87		
26-12-89	18:42:00	57.950	1949.89	-6.44	248.87		
26-12-89	18:43:00	57.967	1952.34	2.45	248.85		
26-12-89	18:44:00	57.983	1944.90	-7.44	248.84		
26-12-89	18:45:00	58.000	1946.65	1.75	248.81		
26-12-89	18:46:00	58.017	1943.83	-2.82	248.77		
26-12-89	18:47:00	58.033	1939.18	-4.65	248.73		
26-12-89	18:48:00	58.050	1935.79	-3.39	248.70		
26-12-89	18:49:00	58.067	1932.76	-3.03	248.68		
26-12-89	18:50:00	58.083	1929.85	-2.92	248.65		
26-12-89	18:51:00	58.100	1928.42	-1.43	248.63		
26-12-89	18:52:00	58.117	1922.84	-5.58	248.60		
26-12-89	18:53:00	58.133	1919.08	-3.76	248.56		
26-12-89	18:54:00	58.150	1917.33	-1.75	248.53		
26-12-89	18:55:00	58.167	1913.18	-4.15	248.52		
26-12-89	18:56:00	58.183	1912.40	-0.77	248.48		
26-12-89	18:57:00	58.200	1906.02	-6.39	248.46		
26-12-89	18:58:00	58.217	1907.44	1.42	248.45		
26-12-89	18:59:00	58.233	1906.16	-1.27	248.43		
26-12-89	19:00:00	58.250	1901.62	-4.54	248.38	815	Csg 612psig.WHT 56'
26-12-89	19:01:00	58.267	1899.57	-2.06	248.35		
26-12-89	19:02:00	58.283	1909.22	9.66	248.32		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	19:03:00	58.300	1922.52	13.30	248.33		
26-12-89	19:04:00	58.317	1932.75	10.23	248.30		
26-12-89	19:05:00	58.333	1941.25	8.51	248.31		
26-12-89	19:06:00	58.350	1950.74	9.48	248.26		
26-12-89	19:07:00	58.367	1957.72	6.98	248.19		
26-12-89	19:08:00	58.383	1962.52	4.80	248.10		
26-12-89	19:09:00	58.400	1965.28	2.76	248.01		
26-12-89	19:10:00	58.417	1966.57	1.29	247.92		
26-12-89	19:11:00	58.433	1966.78	0.20	247.84		
26-12-89	19:12:00	58.450	1966.53	-0.25	247.77		
26-12-89	19:13:00	58.467	1965.90	-0.62	247.71		Choke 27/64".
26-12-89	19:14:00	58.483	1967.51	1.60	247.65		
26-12-89	19:15:00	58.500	1970.40	2.89	247.61		
26-12-89	19:16:00	58.517	1971.98	1.59	247.57		
26-12-89	19:17:00	58.533	1972.36	0.38	247.52		
26-12-89	19:18:00	58.550	1972.03	-0.33	247.48		
26-12-89	19:19:00	58.567	1971.27	-0.77	247.44		
26-12-89	19:20:00	58.583	1970.27	-0.10	247.39		
26-12-89	19:21:00	58.600	1969.11	-1.16	247.36		
26-12-89	19:22:00	58.617	1967.92	-1.19	247.33		
26-12-89	19:23:00	58.633	1966.71	-1.21	247.31		
26-12-89	19:24:00	58.650	1965.38	-1.33	247.28		
26-12-89	19:25:00	58.667	1964.17	-1.21	247.27		
26-12-89	19:26:00	58.683	1963.08	-1.09	247.26		
26-12-89	19:27:00	58.700	1961.93	-1.15	247.24		
26-12-89	19:28:00	58.717	1960.78	-1.15	247.24		
26-12-89	19:29:00	58.733	1959.81	-0.97	247.23		
26-12-89	19:30:00	58.750	1958.82	-0.99	247.23	1218	Csg 652psig.WHT 56'
26-12-89	19:31:00	58.767	1957.85	-0.97	247.23		
26-12-89	19:32:00	58.783	1957.18	-0.67	247.22		
26-12-89	19:33:00	58.800	1972.36	15.18	247.23		
26-12-89	19:34:00	58.817	1995.30	22.94	247.28		
26-12-89	19:35:00	58.833	2012.12	16.82	247.28		
26-12-89	19:36:00	58.850	2024.35	12.23	247.26		
26-12-89	19:37:00	58.867	2033.24	8.90	247.22		
26-12-89	19:38:00	58.883	2040.23	6.99	247.16		
26-12-89	19:39:00	58.900	2045.71	5.48	247.11		
26-12-89	19:40:00	58.917	2055.10	9.39	247.06		
26-12-89	19:41:00	58.933	2063.51	8.41	247.01		
26-12-89	19:42:00	58.950	2073.46	9.95	246.96		
26-12-89	19:43:00	58.967	2083.79	10.33	246.91		Choke 20/64".
26-12-89	19:44:00	58.983	2091.93	8.15	246.86		
26-12-89	19:45:00	59.000	2098.19	6.25	246.80		
26-12-89	19:46:00	59.017	2103.47	5.28	246.74		
26-12-89	19:47:00	59.033	2107.61	4.14	246.68		
26-12-89	19:48:00	59.050	2111.20	3.59	246.62		
26-12-89	19:49:00	59.067	2114.23	3.03	246.58		
26-12-89	19:50:00	59.083	2116.74	2.50	246.53		
26-12-89	19:51:00	59.100	2118.89	2.16	246.48		
26-12-89	19:52:00	59.117	2120.91	2.02	246.45		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	19:53:00	59.133	2122.79	1.88	246.43		
26-12-89	19:54:00	59.150	2124.30	1.50	246.41		
26-12-89	19:55:00	59.167	2125.64	1.34	246.40		
26-12-89	19:56:00	59.183	2126.85	1.21	246.39		
26-12-89	19:57:00	59.200	2127.90	1.05	246.37		
26-12-89	19:58:00	59.217	2128.79	0.89	246.37		
26-12-89	19:59:00	59.233	2129.65	0.87	246.36		
26-12-89	20:00:00	59.250	2130.41	0.75	246.36	1520	Csg 668psig.WHT 56'
26-12-89	20:01:00	59.267	2131.40	0.99	246.36		
26-12-89	20:02:00	59.283	2166.88	35.48	246.40		
26-12-89	20:03:00	59.300	2198.24	31.36	246.47		
26-12-89	20:04:00	59.317	2219.25	21.00	246.40		
26-12-89	20:05:00	59.333	2234.19	14.94	246.27		
26-12-89	20:06:00	59.350	2245.61	11.42	246.12		
26-12-89	20:07:00	59.367	2254.64	9.03	245.96		
26-12-89	20:08:00	59.383	2264.64	9.99	245.82		
26-12-89	20:09:00	59.400	2272.73	8.09	245.70		
26-12-89	20:10:00	59.417	2285.25	12.52	245.59		
26-12-89	20:11:00	59.433	2309.10	24.75	245.56		
26-12-89	20:12:00	59.450	2305.14	-4.85	245.43		
26-12-89	20:13:00	59.467	2303.99	-1.15	245.20		
26-12-89	20:14:00	59.483	2310.09	6.10	245.08		Choke 13/64".
26-12-89	20:15:00	59.500	2314.14	4.05	245.01		
26-12-89	20:16:00	59.517	2317.73	3.59	244.92		
26-12-89	20:17:00	59.533	2321.01	3.28	244.84		
26-12-89	20:18:00	59.550	2324.25	3.24	244.76		
26-12-89	20:19:00	59.567	2327.11	2.86	244.71		
26-12-89	20:20:00	59.583	2329.77	2.66	244.65		
26-12-89	20:21:00	59.600	2332.17	2.40	244.59		
26-12-89	20:22:00	59.617	2334.17	2.00	244.54		
26-12-89	20:23:00	59.633	2336.29	2.13	244.49		
26-12-89	20:24:00	59.650	2338.44	2.15	244.45		
26-12-89	20:25:00	59.667	2340.60	2.16	244.41		
26-12-89	20:26:00	59.683	2342.70	2.10	244.38		
26-12-89	20:27:00	59.700	2344.70	2.00	244.34		
26-12-89	20:28:00	59.717	2346.70	1.99	244.31		
26-12-89	20:29:00	59.733	2348.45	1.75	244.28		
26-12-89	20:30:00	59.750	2350.13	1.68	244.25	1795	Csg 635psig.WHT 55'
26-12-89	20:31:00	59.767	2351.58	1.45	244.22		
26-12-89	20:32:00	59.783	2381.00	29.42	244.21		
26-12-89	20:33:00	59.800	2412.16	31.15	244.34		
26-12-89	20:34:00	59.817	2436.45	24.29	244.40		
26-12-89	20:35:00	59.833	2453.63	17.18	244.38		Choke 4/64".
26-12-89	20:36:00	59.850	2466.56	12.93	244.29		
26-12-89	20:37:00	59.867	2477.05	10.48	244.18		
26-12-89	20:38:00	59.883	2485.51	8.46	244.03		
26-12-89	20:39:00	59.900	2492.81	7.30	243.87		
26-12-89	20:40:00	59.917	2499.18	6.36	243.71		
26-12-89	20:41:00	59.933	2505.06	5.89	243.54		
26-12-89	20:42:00	59.950	2510.32	5.25	243.38		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Clean-Up Flow & Sampling.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	20:43:00	59.967	2515.20	4.89	243.22		
26-12-89	20:44:00	59.983	2519.70	4.50	243.06		
26-12-89	20:45:00	60.000	2523.96	4.26	242.90		
26-12-89	20:46:00	60.017	2527.94	3.98	242.75		
26-12-89	20:47:00	60.033	2531.64	3.70	242.59		
26-12-89	20:48:00	60.050	2535.09	3.46	242.45		
26-12-89	20:49:00	60.067	2538.27	3.18	242.30		
26-12-89	20:50:00	60.083	2541.32	3.05	242.14		
26-12-89	20:51:00	60.100	2544.11	2.79	241.99		
26-12-89	20:52:00	60.117	2546.57	2.46	241.83		
26-12-89	20:53:00	60.133	2548.95	2.38	241.69		
26-12-89	20:54:00	60.150	2551.24	2.29	241.55		
26-12-89	20:55:00	60.167	2553.57	2.33	241.43		
26-12-89	20:56:00	60.183	2555.80	2.24	241.31		
26-12-89	20:57:00	60.200	2558.03	2.23	241.20		
26-12-89	20:58:00	60.217	2560.15	2.12	241.10		
26-12-89	20:59:00	60.233	2562.25	2.10	240.10	2013	Csg 563psig.WHT 53'
26-12-89	21:00:00	0.000	2564.24	1.99	240.90		S.I.W.
26-12-89	21:00:10	0.003	2564.24	0.00	240.88		End Clean-Up Flow.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	20:59:00	60.233	2562.25	0.00	240.10	2013	Csg 563psig.WHT 53'
26-12-89	21:00:00	0.000	2564.24	1.99	240.90		S.I.W.
26-12-89	21:00:10	0.003	2564.24	1.99	240.88		End Clean-Up Flow.
26-12-89	21:00:20	0.006	2565.67	3.42	240.88		
26-12-89	21:00:30	0.008	2570.38	8.13	240.88		Monitor BUILD-UP.
26-12-89	21:00:40	0.011	2574.06	11.81	240.88		
26-12-89	21:00:50	0.014	2577.16	14.91	240.88		10 sec sample rate.
26-12-89	21:01:00	0.017	2579.62	17.37	240.88		
26-12-89	21:01:10	0.019	2581.66	19.41	240.88		
26-12-89	21:01:20	0.022	2584.16	21.91	240.88		Delta T from
26-12-89	21:01:30	0.025	2586.27	24.02	240.88		Shut-In.
26-12-89	21:01:40	0.028	2588.19	25.94	240.88		
26-12-89	21:01:50	0.031	2590.30	28.05	240.88		Delta P from last
26-12-89	21:02:00	0.033	2592.21	29.96	240.88		flowing pressure
26-12-89	21:02:10	0.036	2593.86	31.61	240.88		(2562.25 psia).
26-12-89	21:02:20	0.039	2595.43	33.18	240.88		
26-12-89	21:02:30	0.042	2596.88	34.63	240.88		
26-12-89	21:02:40	0.044	2598.29	36.04	240.88		
26-12-89	21:02:50	0.047	2599.56	37.31	240.88		
26-12-89	21:03:00	0.050	2600.96	38.71	240.88		
26-12-89	21:03:10	0.053	2602.27	40.02	240.88		
26-12-89	21:03:20	0.056	2603.57	41.32	240.88		
26-12-89	21:03:30	0.058	2604.62	42.37	240.88		
26-12-89	21:03:40	0.061	2605.79	43.54	240.88		
26-12-89	21:03:50	0.064	2606.87	44.62	240.88		
26-12-89	21:04:00	0.067	2607.76	45.51	240.88		
26-12-89	21:04:10	0.069	2608.91	46.66	240.88		
26-12-89	21:04:20	0.072	2609.92	47.67	240.88		
26-12-89	21:04:30	0.075	2610.89	48.64	240.88		
26-12-89	21:04:40	0.078	2611.81	49.56	240.88		
26-12-89	21:04:50	0.081	2612.76	50.51	240.88		
26-12-89	21:05:00	0.083	2613.72	51.47	240.88		
26-12-89	21:05:30	0.092	2616.97	54.72	241.72		30 sec sample rate.
26-12-89	21:06:00	0.100	2620.06	57.81	241.78		
26-12-89	21:06:30	0.108	2622.98	60.73	241.81		
26-12-89	21:07:00	0.117	2625.55	63.30	241.84		
26-12-89	21:07:30	0.125	2627.73	65.48	241.86		
26-12-89	21:08:00	0.133	2629.87	67.62	241.88		
26-12-89	21:08:30	0.142	2631.86	69.61	241.89		
26-12-89	21:09:00	0.150	2633.52	71.27	241.90		
26-12-89	21:09:30	0.158	2635.18	72.93	241.90		
26-12-89	21:10:00	0.167	2636.76	74.51	241.89		
26-12-89	21:10:30	0.175	2638.33	76.08	241.88		
26-12-89	21:11:00	0.183	2639.83	77.58	241.88		
26-12-89	21:11:30	0.192	2641.22	78.97	241.87		
26-12-89	21:12:00	0.200	2642.63	80.38	241.86		
26-12-89	21:12:30	0.208	2643.99	81.74	241.84		
26-12-89	21:13:00	0.217	2645.33	83.08	241.83		
26-12-89	21:13:30	0.225	2646.72	84.47	241.82		
26-12-89	21:14:00	0.233	2647.80	85.55	241.80		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	21:14:30	0.242	2649.03	86.78	241.78		
26-12-89	21:15:00	0.250	2650.29	88.04	241.76	2092	Csg 516 psig.
26-12-89	21:15:30	0.258	2651.39	89.14	241.74		
26-12-89	21:16:00	0.267	2652.32	90.07	241.72		
26-12-89	21:16:30	0.275	2653.25	90.10	241.70		
26-12-89	21:17:00	0.283	2654.27	92.02	241.68		
26-12-89	21:17:30	0.292	2655.36	93.11	241.65		
26-12-89	21:18:00	0.300	2656.51	94.26	241.61		
26-12-89	21:18:30	0.308	2657.55	95.30	241.59		
26-12-89	21:19:00	0.317	2658.54	96.29	241.57		
26-12-89	21:19:30	0.325	2659.57	97.32	241.53		
26-12-89	21:20:00	0.333	2660.60	98.35	241.50		
26-12-89	21:20:30	0.342	2661.63	99.38	241.48		
26-12-89	21:21:00	0.350	2662.53	100.28	241.44		
26-12-89	21:21:30	0.358	2663.52	101.27	241.41		
26-12-89	21:22:00	0.367	2664.51	102.26	241.39		
26-12-89	21:22:30	0.375	2665.41	103.16	241.35		
26-12-89	21:23:00	0.383	2666.29	104.04	241.32		
26-12-89	21:23:30	0.392	2667.20	104.95	241.29		
26-12-89	21:24:00	0.400	2668.09	105.84	241.26		
26-12-89	21:24:30	0.408	2668.92	106.67	241.23		
26-12-89	21:25:00	0.417	2669.82	107.57	241.20		
26-12-89	21:25:30	0.425	2670.71	108.46	241.16		
26-12-89	21:26:00	0.433	2671.55	109.30	241.13		
26-12-89	21:26:30	0.442	2672.49	110.24	241.09		
26-12-89	21:27:00	0.450	2673.43	111.18	241.06		
26-12-89	21:27:30	0.458	2674.40	112.15	241.03		
26-12-89	21:28:00	0.467	2675.40	113.15	241.00		
26-12-89	21:28:30	0.475	2676.28	114.03	240.97		
26-12-89	21:29:00	0.483	2677.16	114.91	240.93		
26-12-89	21:29:30	0.492	2678.02	115.77	240.90		
26-12-89	21:30:00	0.500	2678.88	116.63	240.86	2110	Csg 484 psig.
26-12-89	21:30:30	0.508	2679.78	117.53	240.83		
26-12-89	21:31:00	0.517	2680.64	118.39	240.79		
26-12-89	21:31:30	0.525	2681.36	119.11	240.76		
26-12-89	21:32:00	0.533	2682.13	119.88	240.73		
26-12-89	21:32:30	0.542	2682.89	120.64	240.69		
26-12-89	21:33:00	0.550	2683.73	121.48	240.66		
26-12-89	21:33:30	0.558	2684.37	122.12	240.63		
26-12-89	21:34:00	0.567	2684.97	122.72	240.60		
26-12-89	21:34:30	0.575	2685.64	123.39	240.56		
26-12-89	21:35:00	0.583	2686.37	124.12	240.53		
26-12-89	21:35:30	0.592	2687.07	124.82	240.50		
26-12-89	21:36:00	0.600	2687.73	125.48	240.47		
26-12-89	21:36:30	0.608	2688.45	126.20	240.43		
26-12-89	21:37:00	0.617	2689.13	126.88	240.39		
26-12-89	21:37:30	0.625	2689.84	127.59	240.36		
26-12-89	21:38:00	0.633	2690.47	128.22	240.33		
26-12-89	21:38:30	0.642	2691.16	128.91	240.29		
26-12-89	21:39:00	0.650	2691.84	129.59	240.25		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	21:39:30	0.658	2692.48	130.23	240.22		
26-12-89	21:40:00	0.667	2693.11	130.86	240.19		
26-12-89	21:40:30	0.675	2693.73	131.48	240.16		
26-12-89	21:41:00	0.683	2694.41	132.15	240.12		
26-12-89	21:41:30	0.692	2695.02	132.77	240.10		
26-12-89	21:42:00	0.700	2695.63	133.38	240.07		
26-12-89	21:42:30	0.708	2696.22	133.97	240.03		
26-12-89	21:43:00	0.717	2696.78	134.53	239.10		
26-12-89	21:43:30	0.725	2697.37	135.12	239.97		
26-12-89	21:44:00	0.733	2697.95	135.70	239.94		
26-12-89	21:44:30	0.742	2698.62	136.37	239.91		
26-12-89	21:45:00	0.750	2699.20	136.95	239.88	2128	Csg 450 psig.
26-12-89	21:45:30	0.758	2699.75	137.50	239.84		
26-12-89	21:46:00	0.767	2700.37	138.12	239.82		
26-12-89	21:46:30	0.775	2700.94	138.69	239.78		
26-12-89	21:47:00	0.783	2701.57	139.32	239.75		
26-12-89	21:47:30	0.792	2702.22	139.97	239.71		
26-12-89	21:48:00	0.800	2702.87	140.62	239.69		
26-12-89	21:48:30	0.808	2703.42	141.17	239.65		
26-12-89	21:49:00	0.817	2704.04	141.79	239.63		
26-12-89	21:49:30	0.825	2704.59	142.34	239.59		
26-12-89	21:50:00	0.833	2705.04	142.79	239.56		
26-12-89	21:50:30	0.842	2705.67	143.42	239.54		
26-12-89	21:51:00	0.850	2706.26	144.01	239.51		
26-12-89	21:51:30	0.858	2706.82	144.57	239.49		
26-12-89	21:52:00	0.867	2707.21	144.96	239.45		
26-12-89	21:52:30	0.875	2707.72	145.47	239.43		
26-12-89	21:53:00	0.883	2708.28	146.03	239.40		
26-12-89	21:53:30	0.892	2708.85	146.60	239.37		
26-12-89	21:54:00	0.900	2709.19	146.94	239.34		
26-12-89	21:54:30	0.908	2709.72	147.47	239.31		
26-12-89	21:55:00	0.917	2710.27	148.02	239.29		
26-12-89	21:55:30	0.925	2710.82	148.57	239.25		
26-12-89	21:56:00	0.933	2711.18	148.93	239.23		
26-12-89	21:56:30	0.942	2711.65	149.40	239.20		
26-12-89	21:57:00	0.950	2712.25	149.10	239.16		
26-12-89	21:57:30	0.958	2712.79	150.54	239.15		
26-12-89	21:58:00	0.967	2713.10	150.85	239.11		
26-12-89	21:58:30	0.975	2713.56	151.31	239.09		
26-12-89	21:59:00	0.983	2714.06	151.81	239.05		
26-12-89	21:59:30	0.992	2714.64	152.39	239.03		
26-12-89	22:00:00	1.000	2714.93	152.68	239.01	2141	Csg 422 psig.
26-12-89	22:00:30	1.008	2715.42	153.17	238.98		
26-12-89	22:01:00	1.017	2715.89	153.64	238.95		
26-12-89	22:01:30	1.025	2716.48	154.23	238.92		
26-12-89	22:02:00	1.033	2716.97	154.72	238.90		
26-12-89	22:02:30	1.042	2717.36	155.11	238.87		
26-12-89	22:03:00	1.050	2717.66	155.41	238.85		
26-12-89	22:03:30	1.058	2718.10	155.85	238.83		
26-12-89	22:04:00	1.067	2718.65	156.40	238.80		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	22:04:30	1.075	2719.12	156.87	238.78		
26-12-89	22:05:00	1.083	2719.48	157.23	238.75		
26-12-89	22:05:30	1.092	2719.83	157.58	238.73		
26-12-89	22:06:00	1.100	2720.38	158.13	238.70		
26-12-89	22:06:30	1.108	2720.88	158.63	238.68		
26-12-89	22:07:00	1.117	2721.08	158.83	238.65		
26-12-89	22:07:30	1.125	2721.49	159.24	238.62		
26-12-89	22:08:00	1.133	2721.98	159.73	238.60		
26-12-89	22:08:30	1.142	2722.50	160.25	238.57		
26-12-89	22:09:00	1.150	2722.84	160.59	238.55		
26-12-89	22:09:30	1.158	2723.12	160.87	238.53		
26-12-89	22:10:00	1.167	2723.65	161.40	238.51		
26-12-89	22:10:30	1.175	2724.13	161.88	238.48		
26-12-89	22:11:00	1.183	2724.58	162.33	238.46		
26-12-89	22:11:30	1.192	2725.03	162.78	238.44		
26-12-89	22:12:00	1.200	2725.40	163.15	238.42		
26-12-89	22:12:30	1.208	2725.74	163.49	238.39		
26-12-89	22:13:00	1.217	2725.99	163.74	238.37		
26-12-89	22:13:30	1.225	2726.55	164.30	238.34		
26-12-89	22:14:00	1.233	2727.00	164.75	238.32		
26-12-89	22:14:30	1.242	2727.32	165.07	238.30		
26-12-89	22:15:00	1.250	2727.53	165.28	238.28	2150	Csg 392 psig.
26-12-89	22:15:30	1.258	2727.96	165.71	238.25		
26-12-89	22:16:00	1.267	2728.38	166.13	238.23		
26-12-89	22:16:30	1.275	2728.77	166.52	238.21		
26-12-89	22:17:00	1.283	2729.14	166.89	238.19		
26-12-89	22:17:30	1.292	2729.59	167.34	238.17		
26-12-89	22:18:00	1.300	2730.05	167.80	238.14		
26-12-89	22:18:30	1.308	2730.22	167.97	238.13		
26-12-89	22:19:00	1.317	2730.72	168.47	238.11		
26-12-89	22:19:30	1.325	2731.18	168.93	238.08		
26-12-89	22:20:00	1.333	2731.46	169.21	238.06		
26-12-89	22:20:30	1.342	2731.10	169.75	238.04		
26-12-89	22:21:00	1.350	2732.39	170.14	238.02		
26-12-89	22:21:30	1.358	2732.82	170.57	238.00		
26-12-89	22:22:00	1.367	2733.06	170.81	237.98		
26-12-89	22:22:30	1.375	2733.53	171.28	237.96		
26-12-89	22:23:00	1.383	2733.90	171.65	237.95		
26-12-89	22:23:30	1.392	2734.29	172.04	237.93		
26-12-89	22:24:00	1.400	2734.69	172.44	237.90		
26-12-89	22:24:30	1.408	2734.93	172.68	237.89		
26-12-89	22:25:00	1.417	2735.06	172.81	237.87		
26-12-89	22:25:30	1.425	2735.50	173.25	237.85		
26-12-89	22:26:00	1.433	2736.01	173.76	237.83		
26-12-89	22:26:30	1.442	2736.38	174.13	237.81		
26-12-89	22:27:00	1.450	2736.82	174.57	237.79		
26-12-89	22:27:30	1.458	2737.08	174.83	237.77		
26-12-89	22:28:00	1.467	2737.24	174.99	237.75		
26-12-89	22:28:30	1.475	2737.78	175.53	237.73		
26-12-89	22:29:00	1.483	2738.20	175.95	237.71		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	22:29:30	1.492	2738.55	176.30	237.69		
26-12-89	22:30:00	1.500	2738.91	176.66	237.68	2159	Csg 368 psig.
26-12-89	22:30:30	1.508	2739.20	176.95	237.66		
26-12-89	22:31:00	1.517	2739.46	177.21	237.64		
26-12-89	22:31:30	1.525	2739.90	177.65	237.62		
26-12-89	22:32:00	1.533	2740.26	178.01	237.60		
26-12-89	22:32:30	1.542	2740.68	178.43	237.59		
26-12-89	22:33:00	1.550	2740.97	178.72	237.57		
26-12-89	22:33:30	1.558	2741.35	179.10	237.55		
26-12-89	22:34:00	1.567	2741.77	179.52	237.53		
26-12-89	22:34:30	1.575	2742.10	179.85	237.52		
26-12-89	22:35:00	1.583	2742.49	180.24	237.50		
26-12-89	22:35:30	1.592	2742.77	180.52	237.48		
26-12-89	22:36:00	1.600	2743.10	180.85	237.47		
26-12-89	22:36:30	1.608	2743.42	181.17	237.45		
26-12-89	22:37:00	1.617	2743.79	181.54	237.43		
26-12-89	22:37:30	1.625	2744.08	181.83	237.42		
26-12-89	22:38:00	1.633	2744.46	182.21	237.40		
26-12-89	22:38:30	1.642	2744.74	182.49	237.38		
26-12-89	22:39:00	1.650	2745.10	182.85	237.36		
26-12-89	22:39:30	1.658	2745.43	183.18	237.34		
26-12-89	22:40:00	1.667	2745.78	183.53	237.33		
26-12-89	22:40:30	1.675	2746.12	183.87	237.31		
26-12-89	22:41:00	1.683	2746.18	183.93	237.29		
26-12-89	22:41:30	1.692	2746.62	184.37	237.28		
26-12-89	22:42:00	1.700	2746.98	184.73	237.26		
26-12-89	22:42:30	1.708	2747.35	185.10	237.24		
26-12-89	22:43:00	1.717	2747.69	185.44	237.23		
26-12-89	22:43:30	1.725	2747.99	185.74	237.21		
26-12-89	22:44:00	1.733	2748.32	186.07	237.20		
26-12-89	22:44:30	1.742	2748.66	186.41	237.18		
26-12-89	22:45:00	1.750	2748.94	186.69	237.16	2166	Csg 348 psig.
26-12-89	22:45:30	1.758	2749.29	187.04	237.15		
26-12-89	22:46:00	1.767	2749.58	187.33	237.13		
26-12-89	22:46:30	1.775	2749.91	187.66	237.12		
26-12-89	22:47:00	1.783	2750.22	187.97	237.10		
26-12-89	22:47:30	1.792	2750.55	188.30	237.09		
26-12-89	22:48:00	1.800	2750.90	188.65	237.07		
26-12-89	22:48:30	1.808	2751.21	188.96	237.05		
26-12-89	22:49:00	1.817	2751.52	189.27	237.04		
26-12-89	22:49:30	1.825	2751.82	189.57	237.02		
26-12-89	22:50:00	1.833	2752.14	189.89	237.01		
26-12-89	22:50:30	1.842	2752.46	190.21	236.10		
26-12-89	22:51:00	1.850	2752.78	190.53	236.98		
26-12-89	22:51:30	1.858	2753.08	190.83	236.97		
26-12-89	22:52:00	1.867	2753.34	191.09	236.95		
26-12-89	22:52:30	1.875	2753.69	191.44	236.94		
26-12-89	22:53:00	1.883	2753.98	191.73	236.92		
26-12-89	22:53:30	1.892	2754.29	192.04	236.90		
26-12-89	22:54:00	1.900	2754.62	192.37	236.89		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 26-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
26-12-89	22:54:30	1.908	2754.88	192.63	236.88		
26-12-89	22:55:00	1.917	2755.19	192.94	236.86		
26-12-89	22:55:30	1.925	2755.50	193.25	236.85		
26-12-89	22:56:00	1.933	2755.77	193.52	236.83		
26-12-89	22:56:30	1.942	2756.02	193.77	236.83		
26-12-89	22:57:00	1.950	2756.39	194.14	236.81		
26-12-89	22:57:30	1.958	2756.65	194.40	236.80		
26-12-89	22:58:00	1.967	2756.99	194.74	236.79		
26-12-89	22:58:30	1.975	2757.26	195.01	236.76		
26-12-89	22:59:00	1.983	2757.59	195.34	236.75		
26-12-89	22:59:30	1.992	2757.82	195.57	236.74		
26-12-89	23:00:00	2.000	2758.16	195.91	236.73	2173	Csg 327 psig.
26-12-89	23:05:00	2.083	2760.72	198.47	236.61		5 min sample rate.
26-12-89	23:10:00	2.167	2763.64	201.39	236.49		
26-12-89	23:15:00	2.250	2766.24	203.99	236.37		
26-12-89	23:20:00	2.333	2768.73	206.48	236.26		
26-12-89	23:25:00	2.417	2771.30	209.05	236.16		
26-12-89	23:30:00	2.500	2773.75	211.50	236.06	2185	Csg 290 psig.
26-12-89	23:35:00	2.583	2776.18	213.93	235.96		
26-12-89	23:40:00	2.667	2778.51	216.26	235.86		
26-12-89	23:45:00	2.750	2780.70	218.45	235.79		
26-12-89	23:50:00	2.833	2782.90	220.65	235.71		
26-12-89	23:55:00	2.917	2785.08	222.83	235.63		
26-12-89	00:00:00	3.000	2787.14	224.89	235.55	2196	Csg 262 psig.
26-12-89	00:05:00	3.083	2789.14	226.89	235.48		
27-12-89	00:10:00	3.167	2791.20	228.95	235.42		
27-12-89	00:15:00	3.250	2793.10	230.85	235.35		
27-12-89	00:20:00	3.333	2794.94	232.69	235.29		
27-12-89	00:25:00	3.417	2796.80	234.55	235.23		
27-12-89	00:30:00	3.500	2798.54	236.29	235.18	2201	Csg 242 psig.
27-12-89	00:35:00	3.583	2800.30	238.05	235.13		
27-12-89	00:40:00	3.667	2801.98	239.73	235.08		
27-12-89	00:45:00	3.750	2803.65	241.40	235.03		
27-12-89	00:50:00	3.833	2805.31	243.06	235.00		
27-12-89	00:55:00	3.917	2806.87	244.62	234.96		
27-12-89	01:00:00	4.000	2808.38	246.13	234.93	2210	Csg 229 psig.
27-12-89	01:05:00	4.083	2809.90	247.65	234.88		
27-12-89	01:10:00	4.167	2811.34	249.09	234.85		
27-12-89	01:15:00	4.250	2812.82	250.57	234.80		
27-12-89	01:20:00	4.333	2814.26	252.01	234.77		
27-12-89	01:25:00	4.417	2815.62	253.37	234.74		
27-12-89	01:30:00	4.500	2816.93	254.68	234.71		
27-12-89	01:35:00	4.583	2818.23	255.98	234.69		
27-12-89	01:40:00	4.667	2819.60	257.35	234.65		
27-12-89	01:45:00	4.750	2820.82	258.57	234.62		
27-12-89	01:50:00	4.833	2822.08	259.83	234.59		
27-12-89	01:55:00	4.917	2823.24	260.99	234.55		
27-12-89	02:00:00	5.000	2824.45	262.20	234.52	2220	Csg 208 psig.
27-12-89	02:05:00	5.083	2825.63	263.38	234.48		
27-12-89	02:10:00	5.167	2826.72	264.47	234.46		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 27-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
27-12-89	02:15:00	5.250	2827.85	265.60	234.42		
27-12-89	02:20:00	5.333	2829.01	266.76	234.39		
27-12-89	02:25:00	5.417	2830.05	267.80	234.36		
27-12-89	02:30:00	5.500	2831.12	268.87	234.33		
27-12-89	02:35:00	5.583	2832.12	269.87	234.30		
27-12-89	02:40:00	5.667	2833.17	270.92	234.27		
27-12-89	02:45:00	5.750	2834.18	271.93	234.24		
27-12-89	02:50:00	5.833	2835.12	272.87	234.16		
27-12-89	02:55:00	5.917	2836.10	273.85	234.18		
27-12-89	03:00:00	6.000	2837.02	274.77	234.16		
27-12-89	03:10:00	6.167	2838.90	276.65	234.12		10 min sample rate.
27-12-89	03:20:00	6.333	2840.71	278.46	234.06		
27-12-89	03:30:00	6.500	2842.43	280.18	234.01		
27-12-89	03:40:00	6.667	2844.06	281.81	233.95		
27-12-89	03:50:00	6.833	2845.66	283.41	233.91		
27-12-89	04:00:00	7.000	2847.27	285.02	233.85		
27-12-89	04:10:00	7.167	2848.77	286.52	233.68		
27-12-89	04:20:00	7.333	2850.24	287.99	233.75		
27-12-89	04:30:00	7.500	2851.69	289.44	233.71		
27-12-89	04:40:00	7.667	2853.16	290.91	233.65		
27-12-89	04:50:00	7.833	2854.58	292.33	233.61		
27-12-89	05:00:00	8.000	2855.91	293.66	233.56		
27-12-89	05:10:00	8.167	2857.17	294.92	233.47		
27-12-89	05:20:00	8.333	2858.38	296.13	233.50		
27-12-89	05:30:00	8.500	2859.60	297.35	233.47		
27-12-89	05:40:00	8.667	2860.80	298.55	233.44		
27-12-89	05:50:00	8.833	2861.97	299.72	233.40		
27-12-89	06:00:00	9.000	2863.12	300.87	233.31	2248	Csg 165 psig.
27-12-89	06:10:00	9.167	2864.23	301.98	233.33		
27-12-89	06:20:00	9.333	2865.33	303.08	233.31		
27-12-89	06:30:00	9.500	2866.35	304.10	233.28		
27-12-89	06:40:00	9.667	2866.37	304.12	233.27		
27-12-89	06:40:00	9.667	2867.36	305.11	233.26		
27-12-89	06:50:00	9.833	2868.33	306.08	233.25		
27-12-89	07:00:00	10.000	2869.30	307.05	233.20		
27-12-89	07:10:00	10.167	2870.30	308.05	233.17		
27-12-89	07:20:00	10.333	2871.21	308.96	233.14		
27-12-89	07:30:00	10.500	2872.13	309.87	233.12		
27-12-89	07:40:00	10.667	2873.15	310.90	233.07		
27-12-89	07:50:00	10.833	2874.08	311.83	233.05		
27-12-89	08:00:00	11.000	2875.05	312.80	233.01		
27-12-89	08:10:00	11.167	2875.91	313.66	232.99		
27-12-89	08:20:00	11.333	2876.80	314.55	232.98		
27-12-89	08:30:00	11.500	2877.68	315.43	232.96		
27-12-89	08:40:00	11.667	2878.51	316.26	232.94		
27-12-89	08:50:00	11.833	2879.31	317.06	232.91		
27-12-89	09:00:00	12.000	2880.18	317.93	232.89		
27-12-89	09:10:00	12.167	2880.99	318.74	232.86		
27-12-89	09:20:00	12.333	2881.71	319.46	232.85		
27-12-89	09:30:00	12.500	2882.49	320.24	232.83		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 27-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
27-12-89	09:40:00	12.667	2883.36	321.11	232.79		
27-12-89	09:50:00	12.833	2884.13	321.88	232.76		
27-12-89	10:00:00	13.000	2884.95	322.70	232.73	2265	Csg = 147 psig
27-12-89	10:10:00	13.167	2885.70	323.45	232.70		
27-12-89	10:20:00	13.333	2886.45	324.20	232.68		
27-12-89	10:30:00	13.500	2887.18	324.93	232.65		
27-12-89	10:40:00	13.667	2887.94	325.69	232.62		
27-12-89	10:50:00	13.833	2888.62	326.37	232.61		
27-12-89	11:00:00	14.000	2889.32	327.07	232.57		
27-12-89	11:10:00	14.167	2890.06	327.81	232.54		
27-12-89	11:20:00	14.333	2890.80	328.55	232.52		
27-12-89	11:30:00	14.500	2891.50	329.25	232.49		
27-12-89	11:40:00	14.667	2892.13	329.88	232.47		
27-12-89	11:50:00	14.833	2892.63	330.38	232.46		
27-12-89	12:00:00	15.000	2893.07	330.82	232.43		
27-12-89	12:10:00	15.167	2893.50	331.25	232.43		
27-12-89	12:20:00	15.333	2893.77	331.52	232.41		
27-12-89	12:30:00	15.500	2894.25	332.00	232.38		
27-12-89	12:40:00	15.667	2894.65	332.40	232.37		
27-12-89	12:50:00	15.833	2894.94	332.69	232.37		
27-12-89	13:00:00	16.000	2895.24	332.99	232.36		
27-12-89	13:10:00	16.167	2895.70	333.45	232.35		
27-12-89	13:20:00	16.333	2896.06	333.81	232.36		
27-12-89	13:30:00	16.500	2896.39	334.14	232.35		
27-12-89	13:40:00	16.667	2896.80	334.55	232.35		
27-12-89	13:50:00	16.833	2897.15	334.90	232.35		
27-12-89	14:00:00	17.000	2897.48	335.23	232.35	2277	Csg = 136 psig
27-12-89	14:10:00	17.167	2897.87	335.62	232.34		
27-12-89	14:20:00	17.333	2898.23	335.98	232.33		
27-12-89	14:30:00	17.500	2898.57	336.32	232.34		
27-12-89	14:40:00	17.667	2898.99	336.74	232.32		
27-12-89	14:50:00	17.833	2899.32	337.07	232.31		
27-12-89	15:00:00	18.000	2899.67	337.42	232.31		
27-12-89	15:10:00	18.167	2899.98	337.73	232.32		
27-12-89	15:20:00	18.333	2900.41	338.16	232.30		
27-12-89	15:30:00	18.500	2900.64	338.39	232.29		
27-12-89	15:40:00	18.667	2901.06	338.81	232.29		
27-12-89	15:50:00	18.833	2901.47	339.22	232.27		
27-12-89	16:00:00	19.000	2901.76	339.51	232.26		
27-12-89	16:10:00	19.167	2902.06	339.81	232.25		
27-12-89	16:20:00	19.333	2902.45	340.20	232.24		
27-12-89	16:30:00	19.500	2902.71	340.46	232.23		
27-12-89	16:40:00	19.667	2902.96	340.71	232.23		
27-12-89	16:50:00	19.833	2903.43	341.18	232.21		
27-12-89	17:00:00	20.000	2903.79	341.54	232.20		
27-12-89	17:10:00	20.167	2904.08	341.83	232.20		
27-12-89	17:20:00	20.333	2904.47	342.22	232.19		
27-12-89	17:30:00	20.500	2904.73	342.48	232.19		
27-12-89	17:40:00	20.667	2905.05	342.80	232.18		
27-12-89	17:50:00	20.833	2905.44	343.19	232.16		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 27-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
27-12-89	18:00:00	21.000	2905.68	343.43	232.15	2283	Csg = 127 psig
27-12-89	18:10:00	21.167	2905.98	343.73	232.14		
27-12-89	18:20:00	21.333	2906.30	344.05	232.15		
27-12-89	18:30:00	21.500	2906.64	344.39	232.14		
27-12-89	18:40:00	21.667	2906.86	344.61	232.14		
27-12-89	18:50:00	21.833	2907.22	344.97	232.13		
27-12-89	19:00:00	22.000	2907.49	345.24	232.14		
27-12-89	19:10:00	22.167	2907.80	345.55	232.13		
27-12-89	19:20:00	22.333	2908.17	345.92	232.13		
27-12-89	19:30:00	22.500	2908.45	346.20	232.12		
27-12-89	19:40:00	22.667	2908.69	346.44	232.11		
27-12-89	19:50:00	22.833	2909.00	346.75	232.09		
27-12-89	20:00:00	23.000	2909.29	347.04	232.09		
27-12-89	20:10:00	23.167	2909.55	347.30	232.08		
27-12-89	20:20:00	23.333	2909.86	347.61	232.07		
27-12-89	20:30:00	23.500	2910.13	347.88	232.05		
27-12-89	20:40:00	23.667	2910.45	348.20	232.05		
27-12-89	20:50:00	23.833	2910.58	348.33	232.04		
27-12-89	21:00:00	24.000	2910.94	348.69	232.03		
27-12-89	21:10:00	24.167	2911.03	348.78	232.01		
27-12-89	21:20:00	24.333	2911.46	349.21	232.01		
27-12-89	21:30:00	24.500	2911.79	349.54	231.99		
27-12-89	21:40:00	24.667	2912.01	349.76	231.99		
27-12-89	21:50:00	24.833	2912.25	349.10	231.10		
27-12-89	22:00:00	25.000	2912.56	350.31	231.99	2282	Csg = 120 psig
27-12-89	22:10:00	25.167	2912.81	350.56	231.98		
27-12-89	22:20:00	25.333	2913.11	350.86	231.98		
27-12-89	22:30:00	25.500	2913.31	351.06	231.95		
27-12-89	22:40:00	25.667	2913.60	351.35	231.95		
27-12-89	22:50:00	25.833	2913.75	351.50	231.95		
27-12-89	23:00:00	26.000	2913.80	351.55	231.94		
27-12-89	23:10:00	26.167	2914.36	352.11	231.92		
27-12-89	23:20:00	26.333	2914.51	352.26	231.92		
27-12-89	23:30:00	26.500	2914.84	352.59	231.91		
27-12-89	23:40:00	26.667	2915.07	352.82	231.91		
27-12-89	23:50:00	26.833	2915.35	353.10	231.90		
28-12-89	00:00:00	27.000	2915.41	353.16	231.89		
28-12-89	00:10:00	27.167	2915.77	353.52	231.89		
28-12-89	00:20:00	27.333	2915.95	353.70	231.88		
28-12-89	00:30:00	27.500	2916.16	353.91	231.88		
28-12-89	00:40:00	27.667	2916.46	354.21	231.87		
28-12-89	00:50:00	27.833	2916.70	354.45	231.88		
28-12-89	01:00:00	28.000	2916.94	354.69	231.88		
28-12-89	01:10:00	28.167	2917.17	354.92	231.87		
28-12-89	01:20:00	28.333	2917.41	355.16	231.87		
28-12-89	01:30:00	28.500	2917.70	355.45	231.87		
28-12-89	01:40:00	28.667	2917.88	355.63	231.86		
28-12-89	01:50:00	28.833	2918.08	355.83	231.85		
28-12-89	02:00:00	29.000	2918.21	355.96	231.86	2289	Csg = 115 psig
28-12-89	02:10:00	29.167	2918.40	356.15	231.84		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 28-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: J.Metcalfe
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
28-12-89	02:20:00	29.333	2918.84	356.59	231.84		
28-12-89	02:30:00	29.500	2919.00	356.75	231.85		
28-12-89	02:40:00	29.667	2919.29	357.04	231.84		
28-12-89	02:50:00	29.833	2919.50	357.25	231.80		
28-12-89	03:00:00	30.000	2919.72	357.47	231.84		
28-12-89	03:10:00	30.167	2919.90	357.65	231.83		
28-12-89	03:20:00	30.333	2920.10	357.85	231.82		
28-12-89	03:30:00	30.500	2920.19	357.94	231.82		
28-12-89	03:40:00	30.667	2920.42	358.17	231.82		
28-12-89	03:50:00	30.833	2920.91	358.66	231.82		
28-12-89	04:00:00	31.000	2921.09	358.84	231.83		
28-12-89	04:10:00	31.167	2921.34	359.09	231.75		
28-12-89	04:20:00	31.333	2921.35	359.10	231.80		
28-12-89	04:30:00	31.500	2921.72	359.47	231.74		
28-12-89	04:40:00	31.667	2922.02	359.77	231.81		
28-12-89	04:50:00	31.833	2921.89	359.64	231.79		
28-12-89	05:00:00	32.000	2922.42	360.17	231.79		
28-12-89	05:10:00	32.167	2922.35	360.10	231.68		
28-12-89	05:20:00	32.333	2922.76	360.51	231.73		
28-12-89	05:30:00	32.500	2922.91	360.66	231.78		
28-12-89	05:40:00	32.667	2923.12	360.87	231.77		
28-12-89	05:50:00	32.833	2923.41	361.16	231.59		
28-12-89	06:00:00	33.000	2923.62	361.37	231.75	2292	Csg = 111 psig
28-12-89	06:10:00	33.167	2923.86	361.61	231.75		
28-12-89	06:20:00	33.333	2924.08	361.83	231.75		
28-12-89	06:30:00	33.500	2923.88	361.63	231.76		
28-12-89	06:40:00	33.667	2924.50	362.25	231.74		
28-12-89	06:50:00	33.833	2924.67	362.42	231.73		
28-12-89	07:00:00	34.000	2924.87	362.62	231.73		
28-12-89	07:10:00	34.167	2925.11	362.86	231.72		
28-12-89	07:20:00	34.333	2925.35	363.10	231.72		
28-12-89	07:30:00	34.500	2925.48	363.23	231.73		
28-12-89	07:40:00	34.667	2925.78	363.53	231.73		
28-12-89	07:50:00	34.833	2925.88	363.63	231.75		
28-12-89	08:00:00	35.000	2926.16	363.91	231.75		
28-12-89	08:10:00	35.167	2926.34	364.09	231.76		
28-12-89	08:20:00	35.333	2926.39	364.14	231.75		
28-12-89	08:30:00	35.500	2926.74	364.49	231.73		
28-12-89	08:40:00	35.667	2926.98	364.73	231.71		
28-12-89	08:50:00	35.833	2927.13	364.88	231.68		
28-12-89	09:00:00	36.000	2927.38	365.13	231.65		
28-12-89	09:10:00	36.167	2927.61	365.36	231.61		
28-12-89	09:20:00	36.333	2927.84	365.59	231.59		
28-12-89	09:30:00	36.500	2927.95	365.70	231.57		
28-12-89	09:40:00	36.667	2928.20	365.95	231.57		
28-12-89	09:50:00	36.833	2928.40	366.15	231.58		
28-12-89	10:00:00	37.000	2928.50	366.25	231.59	2299	Csg = 113 psig
28-12-89	10:10:00	37.167	2928.77	366.52	231.60		
28-12-89	10:20:00	37.333	2928.96	366.71	231.62		
28-12-89	10:30:00	37.500	2929.19	366.94	231.61		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 28-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
28-12-89	10:40:00	37.667	2929.42	367.17	231.61		
28-12-89	10:50:00	37.833	2929.58	367.33	231.61		
28-12-89	11:00:00	38.000	2929.76	367.51	231.59		
28-12-89	11:10:00	38.167	2929.92	367.66	231.59		
28-12-89	11:20:00	38.333	2930.12	367.87	231.58		
28-12-89	11:30:00	38.500	2930.33	368.08	231.57		
28-12-89	11:40:00	38.667	2930.51	368.26	231.55		
28-12-89	11:50:00	38.833	2930.69	368.44	231.55		
28-12-89	12:00:00	39.000	2930.91	368.66	231.54		
28-12-89	12:10:00	39.167	2931.13	368.88	231.53		
28-12-89	12:20:00	39.333	2931.31	369.06	231.53	2303	Csg = 109 psig
28-12-89	12:30:00	39.500	2931.48	369.23	231.52		
28-12-89	12:40:00	39.667	2931.65	369.40	231.51		Pull out of hole to
28-12-89	12:50:00	39.833	2931.83	369.58	231.49		redress gauges
28-12-89	13:00:00	40.000	2932.03	369.78	231.48		
28-12-89	14:10:00	41.167	2307.86	-254.39	97.52		Arrive at surface
28-12-89	14:20:00	41.333	2305.98	-256.27	95.53		
28-12-89	14:30:00	41.500	2308.86	-253.39	94.39		
28-12-89	14:40:00	41.667	2308.70	-253.55	93.97	2304	Csg = 106 psig
28-12-89	14:50:00	41.833	2308.95	-253.30	93.80		
28-12-89	15:00:00	42.000	2309.10	-253.15	93.94		Depressure the lub.
28-12-89	18:50:00	45.833	2313.50	-248.75	106.79		Pressure up the Lub
28-12-89	19:00:00	46.000	2312.91	-249.34	100.50		
28-12-89	19:10:00	46.167	2312.88	-249.37	97.33	2306	Csg = 106 psig
28-12-89	19:20:00	46.333	2313.16	-249.09	95.45		
28-12-89	19:30:00	46.500	2313.39	-248.86	93.72	2307	Csg = 103 psig
28-12-89	19:40:00	46.667	2313.22	-249.03	92.04		
28-12-89	19:50:00	46.833	2313.57	-248.68	90.41		Run in the hole
28-12-89	20:40:00	47.667	2941.39	379.14	231.30		Hang off at 7650'KB
28-12-89	20:50:00	47.833	2940.76	378.51	231.08		Survey hang depth.
28-12-89	21:00:00	48.000	2940.59	378.34	231.02		
28-12-89	21:10:00	48.167	2940.61	378.36	230.98		Continue to monitor
28-12-89	21:20:00	48.333	2940.83	378.58	230.96		bottom hole pressur
28-12-89	21:30:00	48.500	2940.94	378.69	230.96		Build up
28-12-89	21:40:00	48.667	2941.10	378.85	230.94		
28-12-89	21:50:00	48.833	2941.30	379.05	230.93		
28-12-89	22:00:00	49.000	2941.41	379.16	230.92	2309	Csg = 101 psig
28-12-89	22:10:00	49.167	2941.57	379.32	230.92		
28-12-89	22:20:00	49.333	2941.81	379.56	230.90		
28-12-89	22:30:00	49.500	2942.07	379.82	230.88		Delta T from
28-12-89	22:40:00	49.667	2942.12	379.87	230.87		Shut in
28-12-89	22:50:00	49.833	2942.36	380.11	230.85		
28-12-89	23:00:00	50.000	2942.53	380.28	230.85		Delta P from
28-12-89	23:10:00	50.167	2942.67	380.42	230.82		Shut in
28-12-89	23:20:00	50.333	2942.86	380.61	230.81		
28-12-89	23:30:00	50.500	2942.96	380.71	230.79		10 min sample rate
28-12-89	23:40:00	50.667	2943.17	380.92	230.72		
28-12-89	23:50:00	50.833	2943.36	381.11	230.77		
29-12-89	00:00:00	51.000	2943.57	381.32	230.76		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	00:10:00	51.167	2943.69	381.44	230.76		
29-12-89	00:20:00	51.333	2943.89	381.64	230.73		
29-12-89	00:30:00	51.500	2944.06	381.81	230.73		
29-12-89	00:40:00	51.667	2944.21	381.96	230.72		
29-12-89	00:50:00	51.833	2944.37	382.12	230.72		
29-12-89	01:00:00	52.000	2944.53	382.28	230.70		
29-12-89	01:10:00	52.167	2944.71	382.46	230.69		
29-12-89	01:20:00	52.333	2944.85	382.60	230.69		
29-12-89	01:30:00	52.500	2945.06	382.81	230.62		
29-12-89	01:40:00	52.667	2945.26	383.01	230.66		
29-12-89	01:50:00	52.833	2945.43	383.18	230.66		
29-12-89	02:00:00	53.000	2945.59	383.34	230.66	2310	Csg = 99 psig
29-12-89	02:10:00	53.167	2945.73	383.48	230.65		
29-12-89	02:20:00	53.333	2945.89	383.64	230.60		
29-12-89	02:30:00	53.500	2946.12	383.87	230.63		
29-12-89	02:40:00	53.667	2946.31	384.06	230.64		
29-12-89	02:50:00	53.833	2946.47	384.22	230.62		
29-12-89	03:00:00	54.000	2946.63	384.38	230.57		
29-12-89	03:10:00	54.167	2946.78	384.53	230.57		
29-12-89	03:20:00	54.333	2946.90	384.65	230.58		
29-12-89	03:30:00	54.500	2947.11	384.86	230.64		
29-12-89	03:40:00	54.667	2947.29	385.04	230.52		
29-12-89	03:50:00	54.833	2947.49	385.24	230.59		
29-12-89	04:00:00	55.000	2947.64	385.39	230.65		
29-12-89	04:10:00	55.167	2947.83	385.58	230.48		
29-12-89	04:20:00	55.333	2948.02	385.77	230.53		
29-12-89	04:30:00	55.500	2948.18	385.93	230.66		
29-12-89	04:40:00	55.667	2948.30	386.05	230.66		
29-12-89	04:50:00	55.833	2948.51	386.26	230.60		
29-12-89	05:00:00	56.000	2948.67	386.42	230.62		
29-12-89	05:10:00	56.167	2948.83	386.58	230.67		
29-12-89	05:20:00	56.333	2949.01	386.76	230.62		
29-12-89	05:30:00	56.500	2949.17	386.92	230.57		
29-12-89	05:40:00	56.667	2949.34	387.09	230.63		
29-12-89	05:50:00	56.833	2949.52	387.27	230.69		
29-12-89	06:00:00	57.000	2949.66	387.41	230.58	2313	Csg = 98 psig
29-12-89	06:10:00	57.167	2949.87	387.62	230.53		
29-12-89	06:20:00	57.333	2950.00	387.75	230.60		
29-12-89	06:30:00	57.500	2950.22	387.97	230.59		
29-12-89	06:40:00	57.667	2950.37	388.12	230.72		
29-12-89	06:50:00	57.833	2950.54	388.29	230.67		
29-12-89	07:00:00	58.000	2950.77	388.52	230.74		
29-12-89	07:10:00	58.167	2950.93	388.68	230.68		
29-12-89	07:20:00	58.333	2951.12	388.87	230.75		
29-12-89	07:30:00	58.500	2951.30	389.05	230.74		
29-12-89	07:40:00	58.667	2951.48	389.23	230.75		
29-12-89	07:50:00	58.833	2951.64	389.39	230.75		
29-12-89	08:00:00	59.000	2951.78	389.53	230.75		
29-12-89	08:10:00	59.167	2951.98	389.73	230.75		
29-12-89	08:20:00	59.333	2952.15	389.90	230.75		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : SIW 21:00hrs 26/12/89. Initial Build-Up.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	08:30:00	59.500	2952.27	390.02	230.76		
29-12-89	08:40:00	59.667	2952.40	390.15	230.74		
29-12-89	08:50:00	59.833	2952.61	390.36	230.76		
29-12-89	09:00:00	60.000	2952.75	390.50	230.78		Prepare to start
29-12-89	09:10:00	60.167	2952.90	390.65	230.79		Isochronal
29-12-89	09:20:00	60.333	2953.06	390.81	230.80		flow test
29-12-89	09:30:00	60.500	2953.32	391.07	230.79		
29-12-89	09:40:00	60.667	2953.45	391.20	230.80	2320	Csg = 97 psig
29-12-89	09:50:00	60.833	2953.55	391.30	230.81		
29-12-89	10:00:00	61.000	2953.73	391.48	230.82		END OF BUILD UP

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : First rate - 7/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	10:00:00	0.000	2953.73	6.02	230.82		START FIRST RATE
29-12-89	10:01:00	0.017	2953.80	0.08	230.82		2200 psi wellhead
29-12-89	10:02:00	0.033	2953.79	-0.02	230.83		
29-12-89	10:03:00	0.050	2908.50	-45.28	230.79		Open on 4/64 choke
29-12-89	10:04:00	0.067	2917.31	8.80	230.52		
29-12-89	10:05:00	0.083	2922.43	5.12	230.28		1 min sample rate
29-12-89	10:06:00	0.100	2925.87	3.45	230.16		
29-12-89	10:07:00	0.117	2928.34	2.47	230.10		Deita T from
29-12-89	10:08:00	0.133	2929.91	1.57	230.10		Start of flow
29-12-89	10:09:00	0.150	2929.14	-0.76	230.10		
29-12-89	10:10:00	0.167	2929.74	0.60	230.10		Delta P from
29-12-89	10:11:00	0.183	2922.96	-6.79	230.10		Previous value
29-12-89	10:12:00	0.200	2917.61	-5.34	230.05		
29-12-89	10:13:00	0.217	2914.02	-3.60	229.98		Open to 7/64 choke
29-12-89	10:14:00	0.233	2908.77	-5.25	229.92		
29-12-89	10:15:00	0.250	2902.77	-6.00	229.88	2270	Csg = 97 psig
29-12-89	10:18:00	0.300	2885.08	-17.69	229.77		
29-12-89	10:21:00	0.350	2875.48	-9.60	230.01		3 min sample rate
29-12-89	10:24:00	0.400	2868.80	-6.68	230.54		
29-12-89	10:27:00	0.450	2864.23	-4.57	231.16		
29-12-89	10:30:00	0.500	2860.94	-3.29	231.77	2227	Csg = 97 psig
29-12-89	10:33:00	0.550	2858.32	-2.62	232.29		
29-12-89	10:36:00	0.600	2854.91	-3.41	232.79		
29-12-89	10:39:00	0.650	2851.75	-3.16	233.23		
29-12-89	10:42:00	0.700	2849.08	-2.67	233.63		
29-12-89	10:45:00	0.750	2846.61	-2.46	233.99	2182	Csg = 100 psig
29-12-89	10:48:00	0.800	2844.46	-2.15	234.31		
29-12-89	10:51:00	0.850	2842.54	-1.92	234.58		
29-12-89	10:54:00	0.900	2840.67	-1.87	234.83		
29-12-89	10:57:00	0.950	2838.70	-1.97	235.06		
29-12-89	11:00:00	1.000	2837.06	-1.64	235.25	2136	Csg = 100 psig
29-12-89	11:03:00	1.050	2840.07	3.00	235.44		
29-12-89	11:06:00	1.100	2841.83	1.77	235.56		
29-12-89	11:09:00	1.150	2843.67	1.84	235.65		
29-12-89	11:12:00	1.200	2843.90	0.23	235.68		
29-12-89	11:15:00	1.250	2843.98	0.08	235.71	2137	Csg = 108 psig
29-12-89	11:18:00	1.300	2843.10	0.01	235.72		
29-12-89	11:21:00	1.350	2843.88	-0.12	235.73		
29-12-89	11:24:00	1.400	2843.77	-0.10	235.74		
29-12-89	11:27:00	1.450	2843.83	0.05	235.76		
29-12-89	11:30:00	1.500	2843.90	0.07	235.77	2135	Csg = 109 psig
29-12-89	11:33:00	1.550	2843.78	-0.11	235.78		
29-12-89	11:36:00	1.600	2843.82	0.04	235.79		
29-12-89	11:39:00	1.650	2843.76	-0.06	235.80		
29-12-89	11:42:00	1.700	2843.37	-0.40	235.81		
29-12-89	11:45:00	1.750	2842.92	-0.45	235.81	2132	Csg = 112 psig
29-12-89	11:48:00	1.800	2842.10	-0.81	235.82		
29-12-89	11:51:00	1.850	2841.49	-0.62	235.83		
29-12-89	11:54:00	1.900	2840.81	-0.68	235.84		
29-12-89	11:57:00	1.950	2840.44	-0.37	235.86		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : First rate - 7/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	12:00:00	2.000	2839.92	-0.52	235.89	2126	Csg = 114 psig
29-12-89	12:03:00	2.050	2839.37	-0.55	235.92		
29-12-89	12:06:00	2.100	2838.10	-0.38	235.93		
29-12-89	12:09:00	2.150	2838.53	-0.46	235.94		
29-12-89	12:12:00	2.200	2838.14	-0.39	235.97		
29-12-89	12:15:00	2.250	2837.75	-0.39	235.99	2127	Csg = 116 psig
29-12-89	12:18:00	2.300	2837.36	-0.38	236.01		
29-12-89	12:21:00	2.350	2837.06	-0.31	236.03		
29-12-89	12:24:00	2.400	2836.64	-0.42	236.05		
29-12-89	12:27:00	2.450	2836.12	-0.51	236.06		
29-12-89	12:30:00	2.500	2835.67	-0.45	236.08	2126	Csg = 117 psig
29-12-89	12:33:00	2.550	2835.27	-0.40	236.10		
29-12-89	12:36:00	2.600	2834.79	-0.48	236.12		
29-12-89	12:39:00	2.650	2834.47	-0.32	236.13		
29-12-89	12:42:00	2.700	2834.14	-0.34	236.16		
29-12-89	12:45:00	2.750	2833.64	-0.49	236.17	2125	Csg = 120 psig
29-12-89	12:48:00	2.800	2833.31	-0.34	236.18		
29-12-89	12:51:00	2.850	2832.92	-0.38	236.21		
29-12-89	12:54:00	2.900	2832.55	-0.38	236.21		
29-12-89	12:57:00	2.950	2831.98	-0.57	236.23		
29-12-89	13:00:00	3.000	2831.58	-0.40	236.25	2125	Csg = 125 psig
29-12-89	13:03:00	3.050	2831.18	-0.39	236.27		
29-12-89	13:06:00	3.100	2830.76	-0.42	236.28		
29-12-89	13:09:00	3.150	2830.48	-0.28	236.29		
29-12-89	13:12:00	3.200	2830.18	-0.30	236.31		
29-12-89	13:15:00	3.250	2829.87	-0.32	236.33	2128	Csg = 127 psig
29-12-89	13:18:00	3.300	2829.89	0.02	236.35		
29-12-89	13:21:00	3.350	2829.71	-0.18	236.37		
29-12-89	13:24:00	3.400	2829.47	-0.24	236.37		
29-12-89	13:27:00	3.450	2829.20	-0.27	236.37		
29-12-89	13:30:00	3.500	2828.96	-0.24	236.39	2129	Csg = 127 psig
29-12-89	13:33:00	3.550	2828.63	-0.33	236.39		
29-12-89	13:36:00	3.600	2828.34	-0.29	236.41		
29-12-89	13:39:00	3.650	2827.98	-0.36	236.41		
29-12-89	13:42:00	3.700	2827.74	-0.24	236.41		
29-12-89	13:45:00	3.750	2827.46	-0.28	236.42	2129	Csg = 127 psig
29-12-89	13:48:00	3.800	2827.18	-0.28	236.42		
29-12-89	13:51:00	3.850	2826.93	-0.25	236.43		
29-12-89	13:54:00	3.900	2826.80	-0.13	236.45	2129	Csg = 130 psig
29-12-89	13:57:00	3.950	2826.42	-0.38	236.45		
29-12-89	14:00:00	4.000	2826.15	-0.27	236.46		Shut in for
29-12-89	14:01:00	4.017	2828.12	1.96	236.47		1st rate Build up
29-12-89	14:02:00	4.033	2843.69	15.57	236.50		
29-12-89	14:03:00	4.050	2857.96	14.27	236.58		1 min sample rate
29-12-89	14:04:00	4.067	2866.63	8.67	236.68		
29-12-89	14:05:00	4.083	2872.96	6.34	236.75		
29-12-89	14:06:00	4.100	2878.54	5.58	236.79		
29-12-89	14:07:00	4.117	2882.56	4.02	236.83		
29-12-89	14:08:00	4.133	2885.25	2.69	236.85		
29-12-89	14:09:00	4.150	2888.49	3.24	236.87		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : First rate - 7/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	14:10:00	4.167	2891.50	3.00	236.89		
29-12-89	14:11:00	4.183	2894.42	2.92	236.91		
29-12-89	14:12:00	4.200	2896.96	2.54	236.93		
29-12-89	14:13:00	4.217	2898.56	1.61	236.94		
29-12-89	14:14:00	4.233	2900.65	2.09	236.94		
29-12-89	14:15:00	4.250	2902.45	1.80	236.94	2204	Csg = 123 psig
29-12-89	14:18:00	4.300	2907.06	4.61	236.92		
29-12-89	14:21:00	4.350	2910.04	2.98	236.84		3 min sample rate
29-12-89	14:24:00	4.400	2912.33	2.29	236.74		
29-12-89	14:27:00	4.450	2914.51	2.18	236.60		
29-12-89	14:30:00	4.500	2915.96	1.45	236.45	2216	Csg = 118 psig
29-12-89	14:33:00	4.550	2917.63	1.67	236.28		
29-12-89	14:36:00	4.600	2919.28	1.65	236.09		
29-12-89	14:39:00	4.650	2920.43	1.14	235.91		
29-12-89	14:42:00	4.700	2921.86	1.43	235.73		
29-12-89	14:45:00	4.750	2922.91	1.05	235.53	2221	Csg = 115 psig
29-12-89	14:48:00	4.800	2923.80	0.89	235.34		
29-12-89	14:51:00	4.850	2924.06	0.26	235.18		
29-12-89	14:54:00	4.900	2925.05	0.99	235.00		
29-12-89	14:57:00	4.950	2926.04	0.99	234.82		
29-12-89	15:00:00	5.000	2926.75	0.71	234.67	2225	Csg = 112 psig
29-12-89	15:03:00	5.050	2927.28	0.53	234.51		
29-12-89	15:06:00	5.100	2927.98	0.69	234.37		
29-12-89	15:09:00	5.150	2928.65	0.68	234.23		
29-12-89	15:12:00	5.200	2929.23	0.58	234.10		
29-12-89	15:15:00	5.250	2929.84	0.61	233.97	2227	Csg = 109 psig
29-12-89	15:18:00	5.300	2930.48	0.64	233.85		
29-12-89	15:21:00	5.350	2930.99	0.51	233.74		
29-12-89	15:24:00	5.400	2931.40	0.41	233.63		
29-12-89	15:27:00	5.450	2932.02	0.62	233.53		
29-12-89	15:30:00	5.500	2932.49	0.47	233.43	2230	Csg = 107 psig
29-12-89	15:33:00	5.550	2933.11	0.62	233.35		
29-12-89	15:36:00	5.600	2933.53	0.42	233.26		
29-12-89	15:42:00	5.700	2934.50	0.97	233.05		
29-12-89	15:45:00	5.750	2934.97	0.47	233.01	2231	Csg = 105 psig
29-12-89	15:48:00	5.800	2935.28	0.31	232.96		
29-12-89	15:51:00	5.850	2935.80	0.52	232.89		
29-12-89	15:54:00	5.900	2936.18	0.38	232.83		
29-12-89	15:57:00	5.950	2936.59	0.41	232.77		
29-12-89	16:00:00	6.000	2936.89	0.30	232.71	2233	Csg = 103 psig
29-12-89	16:06:00	6.100	2937.69	0.80	232.61		
29-12-89	16:09:00	6.150	2938.01	0.32	232.55		
29-12-89	16:12:00	6.200	2938.40	0.39	232.51		
29-12-89	16:15:00	6.250	2938.83	0.43	232.47	2235	Csg = 99 psig
29-12-89	16:18:00	6.300	2939.19	0.36	232.43		
29-12-89	16:24:00	6.400	2939.91	0.72	232.28		
29-12-89	16:27:00	6.450	2940.28	0.37	232.29		
29-12-89	16:30:00	6.500	2940.59	0.31	232.24	2236	Csg = 99 psig
29-12-89	16:33:00	6.550	2940.89	0.30	232.23		
29-12-89	16:36:00	6.600	2941.12	0.23	232.20		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : First rate - 7/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	16:39:00	6.650	2941.52	0.40	232.17		
29-12-89	16:42:00	6.700	2941.79	0.27	232.15		
29-12-89	16:45:00	6.750	2942.11	0.32	232.12	2237	Csg = 97 psig
29-12-89	16:48:00	6.800	2942.35	0.25	232.09		
29-12-89	16:51:00	6.850	2942.73	0.37	232.06		
29-12-89	16:54:00	6.900	2942.98	0.25	232.05		
29-12-89	16:57:00	6.950	2943.23	0.26	232.02		
29-12-89	17:00:00	7.000	2943.54	0.30	231.99	2238	Csg = 97 psig
29-12-89	17:03:00	7.050	2943.82	0.29	231.96		
29-12-89	17:06:00	7.100	2944.04	0.22	231.93		
29-12-89	17:09:00	7.150	2944.37	0.33	231.93		
29-12-89	17:12:00	7.200	2944.53	0.16	231.90		
29-12-89	17:15:00	7.250	2944.81	0.28	231.89	2240	Csg = 96 psig
29-12-89	17:18:00	7.300	2945.04	0.23	231.87		
29-12-89	17:21:00	7.350	2945.26	0.22	231.85		
29-12-89	17:24:00	7.400	2945.56	0.30	231.83		
29-12-89	17:27:00	7.450	2945.70	0.14	231.81		
29-12-89	17:30:00	7.500	2945.88	0.18	231.80	2239	Csg = 94 psig
29-12-89	17:33:00	7.550	2946.15	0.27	231.78		
29-12-89	17:36:00	7.600	2946.33	0.18	231.77		
29-12-89	17:39:00	7.650	2946.59	0.26	231.75		
29-12-89	17:42:00	7.700	2946.72	0.13	231.74		
29-12-89	17:45:00	7.750	2946.90	0.17	231.72	2240	Csg = 93 psig
29-12-89	17:48:00	7.800	2947.10	0.20	231.71		
29-12-89	17:51:00	7.850	2947.29	0.19	231.70	2240	Csg = 93 psig
29-12-89	17:54:00	7.900	2947.45	0.16	231.68		
29-12-89	17:57:00	7.950	2947.71	0.26	231.66		End first rate

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Second rate - 17/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	18:00:00	0.000	2947.84	0.13	231.65		START SECOND RATE
29-12-89	18:01:00	0.017	2901.50	-46.35	231.54		1800 psi wellhead
29-12-89	18:02:00	0.033	2868.54	-32.96	230.90		
29-12-89	18:03:00	0.050	2844.33	-24.21	230.28		Open on 13/64 choke
29-12-89	18:04:00	0.067	2828.24	-16.10	230.12		
29-12-89	18:05:00	0.083	2816.48	-11.75	230.27		Delta T from
29-12-89	18:06:00	0.100	2807.83	-8.66	230.61		Start 2nd rate
29-12-89	18:07:00	0.117	2799.58	-8.25	231.01		
29-12-89	18:08:00	0.133	2791.73	-7.84	231.44		Delta P from
29-12-89	18:09:00	0.150	2787.10	-4.63	231.94		Previous value
29-12-89	18:10:00	0.167	2782.80	-4.30	232.47		
29-12-89	18:11:00	0.183	2779.08	-3.72	232.96		1 min sample rate
29-12-89	18:12:00	0.200	2775.54	-3.53	233.42		
29-12-89	18:13:00	0.217	2772.37	-3.17	233.86		Open choke to 17/64
29-12-89	18:14:00	0.233	2762.03	-10.34	234.28		
29-12-89	18:15:00	0.250	2742.42	-19.61	234.71	2025	Csg = 105 psig
29-12-89	18:18:00	0.300	2711.83	-30.58	236.28		
29-12-89	18:21:00	0.350	2694.05	-17.79	237.60		3 min sample rate
29-12-89	18:24:00	0.400	2665.11	-28.93	238.66		
29-12-89	18:27:00	0.450	2627.95	-37.16	239.82		
29-12-89	18:30:00	0.500	2608.43	-19.52	240.82	1899	Csg = 120 psig
29-12-89	18:33:00	0.550	2594.85	-13.58	241.58		
29-12-89	18:36:00	0.600	2583.87	-10.98	242.18		
29-12-89	18:39:00	0.650	2574.81	-9.06	242.63		
29-12-89	18:42:00	0.700	2567.47	-7.34	242.10		
29-12-89	18:45:00	0.750	2560.88	-6.59	243.30	1872	Csg = 138 psig
29-12-89	18:48:00	0.800	2555.14	-5.74	243.55		
29-12-89	18:51:00	0.850	2550.27	-4.87	243.75		
29-12-89	18:54:00	0.900	2546.51	-3.76	243.90		
29-12-89	18:57:00	0.950	2543.28	-3.23	244.03		
29-12-89	19:00:00	1.000	2540.49	-2.79	244.13	1857	Csg = 154 psig
29-12-89	19:03:00	1.050	2538.12	-2.38	244.21		
29-12-89	19:06:00	1.100	2535.80	-2.32	244.27		
29-12-89	19:09:00	1.150	2533.36	-2.44	244.32		
29-12-89	19:12:00	1.200	2531.18	-2.18	244.36		
29-12-89	19:15:00	1.250	2529.05	-2.13	244.39	1852	Csg = 162 psig
29-12-89	19:18:00	1.300	2526.57	-2.48	244.43		
29-12-89	19:21:00	1.350	2524.10	-2.47	244.46		
29-12-89	19:24:00	1.400	2521.78	-2.33	244.48		
29-12-89	19:27:00	1.450	2519.61	-2.17	244.50		
29-12-89	19:30:00	1.500	2517.91	-1.70	244.52	1845	Csg = 175 psig
29-12-89	19:33:00	1.550	2516.14	-1.77	244.53		
29-12-89	19:36:00	1.600	2514.14	-1.10	244.55		
29-12-89	19:39:00	1.650	2512.08	-2.06	244.57		
29-12-89	19:42:00	1.700	2510.15	-1.93	244.58		
29-12-89	19:45:00	1.750	2508.55	-1.60	244.59	1841	Csg = 187 psig
29-12-89	19:48:00	1.800	2506.66	-1.88	244.59		
29-12-89	19:51:00	1.850	2504.63	-2.03	244.60		
29-12-89	19:54:00	1.900	2502.83	-1.81	244.61		
29-12-89	19:57:00	1.950	2501.19	-1.64	244.61		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Second rate - 17/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	20:00:00	2.000	2499.53	-1.66	244.62	1835	Csg = 198 psig
29-12-89	20:03:00	2.050	2497.89	-1.63	244.61		
29-12-89	20:06:00	2.100	2496.19	-1.70	244.62		
29-12-89	20:09:00	2.150	2494.72	-1.47	244.62		
29-12-89	20:12:00	2.200	2493.46	-1.27	244.61		
29-12-89	20:15:00	2.250	2492.02	-1.44	244.62	1831	Csg = 208 psig
29-12-89	20:18:00	2.300	2490.58	-1.44	244.61		
29-12-89	20:21:00	2.350	2489.18	-1.40	244.61		
29-12-89	20:24:00	2.400	2487.84	-1.33	244.61		
29-12-89	20:27:00	2.450	2486.54	-1.30	244.61		
29-12-89	20:30:00	2.500	2485.18	-1.36	244.61	1828	Csg = 217 psig
29-12-89	20:33:00	2.550	2483.82	-1.36	244.61		
29-12-89	20:36:00	2.600	2482.35	-1.47	244.61		
29-12-89	20:39:00	2.650	2480.98	-1.37	244.62		
29-12-89	20:42:00	2.700	2479.72	-1.26	244.62		
29-12-89	20:45:00	2.750	2478.38	-1.34	244.62	1824	Csg = 229 psig
29-12-89	20:48:00	2.800	2477.13	-1.25	244.62		
29-12-89	20:51:00	2.850	2475.83	-1.30	244.63		
29-12-89	20:54:00	2.900	2474.57	-1.26	244.63		
29-12-89	20:57:00	2.950	2473.34	-1.23	244.63		
29-12-89	21:00:00	3.000	2472.14	-1.21	244.63	1821	Csg = 236 psig
29-12-89	21:03:00	3.050	2470.89	-1.25	244.63		
29-12-89	21:06:00	3.100	2469.67	-1.22	244.58		
29-12-89	21:09:00	3.150	2468.54	-1.13	244.64		
29-12-89	21:12:00	3.200	2470.02	1.49	244.64		
29-12-89	21:15:00	3.250	2467.60	-2.43	244.63	1819	Csg = 247 psig
29-12-89	21:18:00	3.300	2465.74	-1.85	244.63		
29-12-89	21:21:00	3.350	2464.36	-1.38	244.63		
29-12-89	21:24:00	3.400	2463.15	-1.21	244.64		
29-12-89	21:27:00	3.450	2461.10	-1.16	244.59		
29-12-89	21:30:00	3.500	2460.92	-1.07	244.65	1815	Csg = 254 psig
29-12-89	21:33:00	3.550	2459.84	-1.08	244.66		
29-12-89	21:36:00	3.600	2458.73	-1.11	244.66		
29-12-89	21:39:00	3.650	2457.65	-1.08	244.68		
29-12-89	21:42:00	3.700	2456.65	-1.00	244.69		
29-12-89	21:45:00	3.750	2455.58	-1.07	244.70	1812	Csg = 260 psig
29-12-89	21:48:00	3.800	2454.55	-1.03	244.70		
29-12-89	21:51:00	3.850	2453.52	-1.02	244.71		
29-12-89	21:54:00	3.900	2452.56	-0.96	244.66	1810	Csg = 270 psig
29-12-89	21:57:00	3.950	2451.56	-0.10	244.72		
29-12-89	22:00:00	4.000	2453.16	1.60	244.73		Shut in for
29-12-89	22:01:00	4.017	2535.93	82.77	244.78		
29-12-89	22:02:00	4.033	2587.64	51.71	245.01		
29-12-89	22:03:00	4.050	2621.47	33.83	244.99		1 min sample rate
29-12-89	22:04:00	4.067	2645.87	24.39	244.76		
29-12-89	22:05:00	4.083	2664.73	18.87	244.78		
29-12-89	22:06:00	4.100	2679.78	15.05	244.78		
29-12-89	22:07:00	4.117	2692.25	12.47	244.70		
29-12-89	22:08:00	4.133	2703.08	10.84	244.62		
29-12-89	22:09:00	4.150	2712.70	9.62	244.54		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Second rate - 17/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	22:10:00	4.167	2721.28	8.57	244.39		
29-12-89	22:11:00	4.183	2728.89	7.62	244.37		
29-12-89	22:12:00	4.200	2735.86	6.97	244.22		
29-12-89	22:13:00	4.217	2742.21	6.35	244.19		
29-12-89	22:14:00	4.233	2748.12	5.91	244.08		
29-12-89	22:15:00	4.250	2753.63	5.51	243.99	2144	Csg = 235 psig
29-12-89	22:18:00	4.300	2767.71	14.08	243.66		
29-12-89	22:21:00	4.350	2779.20	11.49	243.29		3 min sample rate
29-12-89	22:24:00	4.400	2788.91	9.71	242.90		
29-12-89	22:27:00	4.450	2797.34	8.43	242.48		
29-12-89	22:30:00	4.500	2804.89	7.56	242.06	2180	Csg = 204 psig
29-12-89	22:33:00	4.550	2811.47	6.58	241.62		
29-12-89	22:36:00	4.600	2817.34	5.87	241.21		
29-12-89	22:39:00	4.650	2822.54	5.20	240.73		
29-12-89	22:42:00	4.700	2827.25	4.71	240.39		
29-12-89	22:45:00	4.750	2831.64	4.39	240.01	2205	Csg = 173 psig
29-12-89	22:48:00	4.800	2835.61	3.98	239.64		
29-12-89	22:51:00	4.850	2839.47	3.85	238.59		
29-12-89	22:54:00	4.900	2843.11	3.65	238.65		
29-12-89	22:57:00	4.950	2846.37	3.26	237.46		
29-12-89	23:00:00	5.000	2849.60	3.24	237.96	2217	Csg = 142 psig
29-12-89	23:03:00	5.050	2852.57	2.97	237.78		
29-12-89	23:06:00	5.100	2855.27	2.70	237.38		
29-12-89	23:09:00	5.150	2857.90	2.63	236.98		
29-12-89	23:12:00	5.200	2860.37	2.47	236.92		
29-12-89	23:15:00	5.250	2862.68	2.32	236.56	2227	Csg = 129 psig
29-12-89	23:18:00	5.300	2864.94	2.26	236.44		
29-12-89	23:21:00	5.350	2867.06	2.12	236.52		
29-12-89	23:24:00	5.400	2869.16	2.10	235.38		
29-12-89	23:27:00	5.450	2871.49	2.34	236.10		
29-12-89	23:30:00	5.500	2873.52	2.03	235.74	2234	Csg = 102 psig
29-12-89	23:33:00	5.550	2875.43	1.91	235.44		
29-12-89	23:36:00	5.600	2877.27	1.84	235.57		
29-12-89	23:39:00	5.650	2879.01	1.75	235.42		
29-12-89	23:42:00	5.700	2880.64	1.62	234.98		
29-12-89	23:45:00	5.750	2882.16	1.53	234.96	2241	Csg = 91 psig
29-12-89	23:48:00	5.800	2883.70	1.53	235.01		
29-12-89	23:51:00	5.850	2885.13	1.43	234.82		
29-12-89	23:54:00	5.900	2886.50	1.38	234.76		
29-12-89	23:57:00	5.950	2887.84	1.34	234.54		
29-12-89	00:00:00	6.000	2889.19	1.34	234.54	2245	Csg = 59 psig
29-12-89	00:03:00	6.050	2890.40	1.21	234.44		
29-12-89	00:06:00	6.100	2891.65	1.25	234.33		
29-12-89	00:09:00	6.150	2892.86	1.21	234.25		
29-12-89	00:12:00	6.200	2893.99	1.13	234.05		
29-12-89	00:15:00	6.250	2895.18	1.19	233.96	2250	Csg = 53 psig
29-12-89	00:18:00	6.300	2896.45	1.27	233.10		
29-12-89	00:21:00	6.350	2897.58	1.13	233.92		
29-12-89	00:24:00	6.400	2898.67	1.08	233.86		
29-12-89	00:27:00	6.450	2899.78	1.11	233.79		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 29-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Second rate - 17/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
29-12-89	00:30:00	6.500	2900.75	0.97	233.67	2253	Csg = 36 psig
29-12-89	00:33:00	6.550	2901.70	0.96	233.65		
29-12-89	00:36:00	6.600	2902.72	1.02	233.59		
29-12-89	00:39:00	6.650	2903.69	0.97	233.55		
30-12-89	00:42:00	6.700	2904.54	0.85	233.50		
30-12-89	00:45:00	6.750	2905.48	0.93	233.33	2257	Csg = 36 psig
30-12-89	00:48:00	6.800	2906.36	0.88	233.39		
30-12-89	00:51:00	6.850	2907.15	0.80	233.35		
30-12-89	00:54:00	6.900	2907.10	0.85	233.25		
30-12-89	00:57:00	6.950	2908.79	0.80	233.26		
30-12-89	01:00:00	7.000	2909.58	0.79	233.22	2259	Csg = 29 psig
30-12-89	01:03:00	7.050	2910.39	0.81	233.17		
30-12-89	01:06:00	7.100	2911.19	0.80	233.08		
30-12-89	01:09:00	7.150	2911.91	0.73	233.10		
30-12-89	01:12:00	7.200	2912.70	0.79	233.06		
30-12-89	01:15:00	7.250	2913.39	0.68	232.97	2262	Csg = 33 psig
30-12-89	01:18:00	7.300	2914.11	0.72	232.94		
30-12-89	01:21:00	7.350	2914.82	0.71	232.97		
30-12-89	01:24:00	7.400	2915.54	0.72	232.93		
30-12-89	01:27:00	7.450	2916.20	0.66	232.90		
30-12-89	01:30:00	7.500	2916.87	0.67	232.87	2263	Csg = 21 psig
30-12-89	01:33:00	7.550	2917.55	0.67	232.84		
30-12-89	01:36:00	7.600	2918.19	0.64	232.81		
30-12-89	01:39:00	7.650	2918.85	0.66	232.79		
30-12-89	01:42:00	7.700	2919.49	0.64	232.77		
30-12-89	01:45:00	7.750	2920.05	0.56	232.69	2266	Csg = 28 psig
30-12-89	01:48:00	7.800	2920.62	0.57	232.71		
30-12-89	01:51:00	7.850	2921.29	0.66	232.69		
30-12-89	01:54:00	7.900	2921.85	0.57	232.67		
30-12-89	01:57:00	7.950	2922.43	0.58	232.65		End second rate

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Third rate - 24/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	02:00:00	0.000	2921.62	2921.62	232.57		START THIRD RATE
30-12-89	02:01:00	0.017	2871.39	-50.23	232.59		1500 psi wellhead
30-12-89	02:02:00	0.033	2796.11	-75.28	231.88		
30-12-89	02:03:00	0.050	2704.09	-92.02	230.68		Open on 22/64 choke
30-12-89	02:04:00	0.067	2647.17	-56.92	230.86		
30-12-89	02:05:00	0.083	2605.68	-41.49	231.91		Delta T from
30-12-89	02:06:00	0.100	2578.09	-27.59	233.49		start 3rd rate
30-12-89	02:07:00	0.117	2554.58	-23.52	234.86		
30-12-89	02:08:00	0.133	2533.79	-20.79	235.96		Delta P from
30-12-89	02:09:00	0.150	2516.48	-17.30	236.99		previous value
30-12-89	02:10:00	0.167	2500.97	-15.51	237.67		
30-12-89	02:11:00	0.183	2483.93	-17.04	238.59		Open to 24/64 choke
30-12-89	02:12:00	0.200	2466.70	-17.24	239.43		
30-12-89	02:13:00	0.217	2456.45	-10.25	240.18		1 min sample rate
30-12-89	02:14:00	0.233	2446.52	-9.93	240.73		
30-12-89	02:15:00	0.250	2425.48	-21.04	241.20	1642	Csg = 45 psig
30-12-89	02:18:00	0.300	2381.90	-43.58	242.41		
30-12-89	02:21:00	0.350	2354.21	-27.69	243.25		3 min sample rate
30-12-89	02:24:00	0.400	2333.31	-20.90	243.82		
30-12-89	02:27:00	0.450	2317.20	-16.11	244.24		
30-12-89	02:30:00	0.500	2304.05	-13.15	244.55	1540	Csg = 80 psig
30-12-89	02:33:00	0.550	2293.44	-10.62	244.78		
30-12-89	02:36:00	0.600	2284.12	-9.31	244.96		
30-12-89	02:39:00	0.650	2276.10	-8.03	245.08		
30-12-89	02:42:00	0.700	2268.12	-7.98	245.19		
30-12-89	02:45:00	0.750	2261.07	-7.04	245.28	1511	Csg = 114 psig
30-12-89	02:48:00	0.800	2254.78	-6.29	245.29		
30-12-89	02:51:00	0.850	2248.90	-5.88	245.35		
30-12-89	02:54:00	0.900	2243.53	-5.37	245.45		
30-12-89	02:57:00	0.950	2238.56	-4.97	245.50		
30-12-89	03:00:00	1.000	2234.19	-4.37	245.53	1493	Csg = 151 psig
30-12-89	03:03:00	1.050	2229.91	-4.28	245.55		
30-12-89	03:06:00	1.100	2225.95	-3.95	245.57		
30-12-89	03:09:00	1.150	2222.17	-3.78	245.59		
30-12-89	03:12:00	1.200	2218.24	-3.94	245.61		
30-12-89	03:15:00	1.250	2214.52	-3.72	245.61	1478	Csg = 189 psig
30-12-89	03:18:00	1.300	2210.89	-3.64	245.63		
30-12-89	03:21:00	1.350	2207.62	-3.27	245.64		
30-12-89	03:24:00	1.400	2204.15	-3.46	245.65		
30-12-89	03:27:00	1.450	2200.99	-3.16	245.65		
30-12-89	03:30:00	1.500	2197.98	-3.01	245.66	1466	Csg = 219 psig
30-12-89	03:33:00	1.550	2195.02	-2.96	245.60		
30-12-89	03:36:00	1.600	2192.28	-2.73	245.66		
30-12-89	03:39:00	1.650	2189.55	-2.73	245.67		
30-12-89	03:42:00	1.700	2187.08	-2.47	245.67		
30-12-89	03:45:00	1.750	2184.41	-2.67	245.67	1456	Csg = 251 psig
30-12-89	03:48:00	1.800	2181.87	-2.54	245.56		
30-12-89	03:51:00	1.850	2179.72	-2.15	245.67		
30-12-89	03:54:00	1.900	2177.86	-1.86	245.62		
30-12-89	03:57:00	1.950	2176.40	-1.46	245.61		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Third rate - 24/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	04:00:00	2.000	2174.86	-1.54	245.66	1453	Csg = 273 psig
30-12-89	04:03:00	2.050	2173.26	-1.61	245.60		
30-12-89	04:06:00	2.100	2171.94	-1.32	245.66		
30-12-89	04:09:00	2.150	2170.33	-1.61	245.65		
30-12-89	04:12:00	2.200	2168.30	-2.03	245.65		
30-12-89	04:15:00	2.250	2166.12	-2.18	245.64	1449	Csg = 295 psig
30-12-89	04:18:00	2.300	2164.25	-1.87	245.65		
30-12-89	04:21:00	2.350	2162.64	-1.61	245.64		
30-12-89	04:24:00	2.400	2161.13	-1.51	245.64		
30-12-89	04:27:00	2.450	2159.23	-1.90	245.63		
30-12-89	04:30:00	2.500	2157.39	-1.83	245.63	1444	Csg = 324 psig
30-12-89	04:33:00	2.550	2155.67	-1.73	245.63		
30-12-89	04:36:00	2.600	2154.07	-1.59	245.63		
30-12-89	04:39:00	2.650	2152.54	-1.53	245.63		
30-12-89	04:42:00	2.700	2150.80	-1.74	245.57		
30-12-89	04:45:00	2.750	2149.01	-1.79	245.62	1437	Csg = 346 psig
30-12-89	04:48:00	2.800	2147.43	-1.58	245.56		
30-12-89	04:51:00	2.850	2146.04	-1.39	245.61		
30-12-89	04:54:00	2.900	2144.58	-1.45	245.50		
30-12-89	04:57:00	2.950	2143.02	-1.57	245.61		
30-12-89	05:00:00	3.000	2141.53	-1.49	245.61	1434	Csg = 356 psig
30-12-89	05:03:00	3.050	2140.18	-1.35	245.55		
30-12-89	05:06:00	3.100	2138.78	-1.40	245.60		
30-12-89	05:09:00	3.150	2137.42	-1.36	245.60		
30-12-89	05:12:00	3.200	2135.97	-1.45	245.59		
30-12-89	05:15:00	3.250	2134.50	-1.47	245.59	1430	Csg = 375 psig
30-12-89	05:18:00	3.300	2133.18	-1.32	245.59		
30-12-89	05:21:00	3.350	2131.91	-1.27	245.59		
30-12-89	05:24:00	3.400	2130.59	-1.31	245.58		
30-12-89	05:27:00	3.450	2129.30	-1.29	245.59		
30-12-89	05:30:00	3.500	2128.16	-1.14	245.58	1425	Csg = 389 psig
30-12-89	05:33:00	3.550	2126.70	-1.47	245.58		
30-12-89	05:36:00	3.600	2125.47	-1.23	245.47		
30-12-89	05:39:00	3.650	2124.23	-1.24	245.26		
30-12-89	05:42:00	3.700	2122.88	-1.35	245.52		
30-12-89	05:45:00	3.750	2121.54	-1.33	245.57	1421	Csg = 405 psig
30-12-89	05:48:00	3.800	2120.46	-1.09	245.51		
30-12-89	05:51:00	3.850	2119.22	-1.24	245.50		
30-12-89	05:54:00	3.900	2118.19	-1.03	245.56	1418	Csg = 418 psig
30-12-89	05:57:00	3.950	2116.92	-1.28	245.10		
30-12-89	06:00:00	4.000	2115.75	-1.17	245.45		Shut in for
30-12-89	06:01:00	4.017	2159.07	43.32	245.11		third rate build up
30-12-89	06:02:00	4.033	2272.54	113.47	245.65		
30-12-89	06:03:00	4.050	2345.47	72.93	245.99		1 min sample rate
30-12-89	06:04:00	4.067	2396.26	50.79	245.95		
30-12-89	06:05:00	4.083	2433.16	36.90	245.84		
30-12-89	06:06:00	4.100	2462.44	29.28	245.70		
30-12-89	06:07:00	4.117	2486.28	23.83	245.55		
30-12-89	06:08:00	4.133	2506.34	20.07	245.39		
30-12-89	06:09:00	4.150	2523.39	17.04	245.24		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Third rate - 24/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	06:10:00	4.167	2539.01	15.63	245.11		
30-12-89	06:11:00	4.183	2552.67	13.66	245.01		
30-12-89	06:12:00	4.200	2565.24	12.57	244.90		
30-12-89	06:13:00	4.217	2576.37	11.13	244.80		
30-12-89	06:14:00	4.233	2586.66	10.30	244.69		
30-12-89	06:15:00	4.250	2596.18	9.51	244.57	2039	Csg = 366 psig
30-12-89	06:18:00	4.300	2620.65	24.47	244.24		
30-12-89	06:21:00	4.350	2640.70	20.05	243.88		3 min sample rate
30-12-89	06:24:00	4.400	2657.37	16.66	243.47		
30-12-89	06:27:00	4.450	2671.76	14.39	243.06		
30-12-89	06:30:00	4.500	2684.18	12.43	242.63	2106	Csg = 316 psig
30-12-89	06:33:00	4.550	2695.10	10.92	242.20		
30-12-89	06:36:00	4.600	2704.37	9.27	241.76		
30-12-89	06:39:00	4.650	2712.79	8.41	241.33		
30-12-89	06:42:00	4.700	2720.30	7.51	240.92		
30-12-89	06:45:00	4.750	2727.26	6.97	240.50	2136	Csg = 275 psig
30-12-89	06:48:00	4.800	2733.37	6.11	240.11		
30-12-89	06:51:00	4.850	2738.92	5.55	239.72		
30-12-89	06:54:00	4.900	2744.37	5.45	239.35		
30-12-89	06:57:00	4.950	2749.35	4.98	239.01		
30-12-89	07:00:00	5.000	2753.94	4.59	238.67	2160	Csg = 235 psig
30-12-89	07:03:00	5.050	2758.38	4.44	238.36		
30-12-89	07:06:00	5.100	2762.47	4.09	238.06		
30-12-89	07:09:00	5.150	2766.25	3.78	237.79		
30-12-89	07:12:00	5.200	2769.79	3.54	237.51		
30-12-89	07:15:00	5.250	2773.24	3.44	237.26	2177	Csg = 207 psig
30-12-89	07:18:00	5.300	2776.59	3.35	237.02		
30-12-89	07:21:00	5.350	2779.87	3.28	236.80		
30-12-89	07:24:00	5.400	2783.11	3.24	236.60		
30-12-89	07:27:00	5.450	2786.20	3.10	236.40		
30-12-89	07:30:00	5.500	2789.21	3.00	236.22	2192	Csg = 180 psig
30-12-89	07:33:00	5.550	2792.19	2.98	236.05		
30-12-89	07:36:00	5.600	2794.98	2.79	235.89		
30-12-89	07:39:00	5.650	2797.73	2.75	235.74		
30-12-89	07:42:00	5.700	2800.39	2.66	235.60		
30-12-89	07:45:00	5.750	2803.00	2.61	235.48	2205	Csg = 160 psig
30-12-89	07:48:00	5.800	2805.43	2.43	235.36		
30-12-89	07:51:00	5.850	2807.91	2.48	235.24		
30-12-89	07:54:00	5.900	2810.36	2.45	235.14		
30-12-89	07:57:00	5.950	2812.73	2.37	235.03		
30-12-89	08:00:00	6.000	2815.06	2.33	234.93	2218	Csg = 134 psig
30-12-89	08:03:00	6.050	2817.27	2.21	234.84		
30-12-89	08:06:00	6.100	2819.48	2.21	234.75		
30-12-89	08:09:00	6.150	2821.63	2.14	234.66		
30-12-89	08:12:00	6.200	2823.67	2.04	234.58		
30-12-89	08:15:00	6.250	2825.68	2.02	234.50	2226	Csg = 117 psig
30-12-89	08:18:00	6.300	2827.62	1.93	234.42		
30-12-89	08:21:00	6.350	2829.51	1.90	234.36		
30-12-89	08:24:00	6.400	2831.30	1.79	234.28		
30-12-89	08:27:00	6.450	2833.21	1.91	234.22		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Third rate - 24/64ths . Flow / Build up

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	08:30:00	6.500	2834.99	1.78	234.16	2236	Csg = 96 psig
30-12-89	08:33:00	6.550	2836.67	1.68	234.10		
30-12-89	08:42:00	6.700	2841.79	5.12	233.92		
30-12-89	08:45:00	6.750	2843.43	1.64	233.88	2244	Csg = 84 psig
30-12-89	08:48:00	6.800	2845.05	1.63	233.83		
30-12-89	08:51:00	6.850	2846.54	1.48	233.78		
30-12-89	08:54:00	6.900	2848.20	1.67	233.74		
30-12-89	08:57:00	6.950	2849.65	1.44	233.69		
30-12-89	09:00:00	7.000	2851.04	1.40	233.65	2252	Csg = 65 psig
30-12-89	09:03:00	7.050	2852.67	1.63	233.61		
30-12-89	09:06:00	7.100	2854.06	1.39	233.58		
30-12-89	09:09:00	7.150	2855.48	1.42	233.55		
30-12-89	09:12:00	7.200	2856.87	1.40	233.50		
30-12-89	09:15:00	7.250	2858.28	1.41	233.47	2258	Csg = 60 psig
30-12-89	09:18:00	7.300	2859.59	1.31	233.45		
30-12-89	09:21:00	7.350	2860.92	1.33	233.41		
30-12-89	09:24:00	7.400	2862.18	1.26	233.40		
30-12-89	09:27:00	7.450	2863.39	1.20	233.36		
30-12-89	09:30:00	7.500	2864.61	1.23	233.35	2263	Csg = 47 psig
30-12-89	09:33:00	7.550	2865.89	1.27	233.32		
30-12-89	09:36:00	7.600	2866.99	1.10	233.30		
30-12-89	09:39:00	7.650	2868.17	1.19	233.28		
30-12-89	09:42:00	7.700	2869.32	1.15	233.27		
30-12-89	09:45:00	7.750	2870.47	1.15	233.26	2271	Csg = 44 psig
30-12-89	09:48:00	7.800	2871.56	1.09	233.24		
30-12-89	09:51:00	7.850	2872.62	1.06	233.22	2273	Csg = 33 psig
30-12-89	09:54:00	7.900	2873.67	1.05	233.21		
30-12-89	09:57:00	7.950	2874.73	1.05	233.19		End of third rate

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Fourth rate - 39/64ths . Flow

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	10:00:00	0.000	2875.77	2875.77	233.18		START FOURTH RATE
30-12-89	10:01:00	0.017	2754.45	-121.32	232.97		800 psi wellhead
30-12-89	10:02:00	0.033	2595.80	-158.65	231.65		
30-12-89	10:03:00	0.050	2444.45	-151.35	232.37		Open on 38/64 choke
30-12-89	10:04:00	0.067	2352.08	-92.37	234.49		
30-12-89	10:05:00	0.083	2286.55	-65.53	236.40		Delta T from
30-12-89	10:06:00	0.100	2237.92	-48.63	237.80		start 4th rate
30-12-89	10:07:00	0.117	2199.74	-38.19	238.90		
30-12-89	10:08:00	0.133	2173.05	-26.69	239.81		Delta P from
30-12-89	10:09:00	0.150	2152.11	-20.94	240.53		previous value
30-12-89	10:10:00	0.167	2133.32	-18.78	241.12		
30-12-89	10:11:00	0.183	2117.29	-16.03	241.64		Open to 39/64 choke
30-12-89	10:12:00	0.200	2105.31	-11.98	242.06		
30-12-89	10:13:00	0.217	2094.08	-11.23	242.40		
30-12-89	10:14:00	0.233	2084.22	-9.86	242.71		
30-12-89	10:15:00	0.250	2075.54	-8.68	242.96	985	Csg = 76 psig
30-12-89	10:18:00	0.300	2047.64	-27.90	243.53		
30-12-89	10:21:00	0.350	2025.84	-21.80	243.92		3 min sample rate
30-12-89	10:24:00	0.400	2008.95	-16.89	244.20		
30-12-89	10:27:00	0.450	1994.96	-13.99	244.39		
30-12-89	10:30:00	0.500	1983.86	-11.10	244.55	931	Csg = 135 psig
30-12-89	10:33:00	0.550	1972.59	-11.27	244.65		
30-12-89	10:36:00	0.600	1963.04	-9.55	244.73		
30-12-89	10:39:00	0.650	1954.46	-8.58	244.77		
30-12-89	10:42:00	0.700	1946.89	-7.57	244.82		
30-12-89	10:45:00	0.750	1939.83	-7.06	244.86	910	Csg = 183 psig
30-12-89	10:48:00	0.800	1933.30	-6.53	244.88		
30-12-89	10:51:00	0.850	1927.24	-6.05	244.90		
30-12-89	10:54:00	0.900	1921.91	-5.33	244.90		
30-12-89	10:57:00	0.950	1916.66	-5.25	244.90		
30-12-89	11:00:00	1.000	1911.45	-5.22	244.89	896	Csg = 226 psig
30-12-89	11:03:00	1.050	1906.66	-4.78	244.89		
30-12-89	11:06:00	1.100	1902.34	-4.32	244.89		
30-12-89	11:09:00	1.150	1898.01	-4.34	244.88		
30-12-89	11:12:00	1.200	1893.92	-4.09	244.88		
30-12-89	11:15:00	1.250	1890.45	-3.47	244.87	888	Csg = 256 psig
30-12-89	11:18:00	1.300	1886.47	-3.98	244.86		
30-12-89	11:21:00	1.350	1882.87	-3.60	244.86		
30-12-89	11:24:00	1.400	1879.69	-3.18	244.84		
30-12-89	11:27:00	1.450	1876.11	-3.58	244.83		
30-12-89	11:30:00	1.500	1872.80	-3.32	244.83	879	Csg = 300 psig
30-12-89	11:33:00	1.550	1869.92	-2.88	244.82		
30-12-89	11:36:00	1.600	1866.65	-3.27	244.81		
30-12-89	11:39:00	1.650	1863.64	-3.01	244.81		
30-12-89	11:42:00	1.700	1860.73	-2.91	244.79		
30-12-89	11:45:00	1.750	1857.91	-2.82	244.79	872	Csg = 320 psig
30-12-89	11:48:00	1.800	1855.07	-2.83	244.78		
30-12-89	11:51:00	1.850	1852.65	-2.42	244.77		
30-12-89	11:54:00	1.900	1849.84	-2.82	244.76		
30-12-89	11:57:00	1.950	1847.16	-2.68	244.75		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Fourth rate - 39/64ths . Flow

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	12:00:00	2.000	1844.51	-2.65	244.73	868	Csg = 344 psig
30-12-89	12:03:00	2.050	1841.96	-2.54	244.72		
30-12-89	12:06:00	2.100	1839.50	-2.46	244.71		
30-12-89	12:09:00	2.150	1837.01	-2.50	244.70		
30-12-89	12:12:00	2.200	1834.55	-2.46	244.68		
30-12-89	12:15:00	2.250	1832.23	-2.31	244.67	863	Csg = 366 psig
30-12-89	12:18:00	2.300	1829.99	-2.25	244.65		
30-12-89	12:21:00	2.350	1828.00	-1.99	244.65		
30-12-89	12:24:00	2.400	1825.42	-2.58	244.63		
30-12-89	12:27:00	2.450	1823.04	-2.38	244.62		
30-12-89	12:30:00	2.500	1820.78	-2.26	244.60	857	Csg = 381 psig
30-12-89	12:33:00	2.550	1818.56	-2.22	244.58		
30-12-89	12:36:00	2.600	1816.42	-2.14	244.57		
30-12-89	12:39:00	2.650	1814.52	-1.90	244.56		
30-12-89	12:42:00	2.700	1812.15	-2.37	244.54		
30-12-89	12:45:00	2.750	1809.91	-2.24	244.52	857	Csg = 401 psig
30-12-89	12:48:00	2.800	1807.78	-2.13	244.51		
30-12-89	12:51:00	2.850	1805.75	-2.03	244.49		
30-12-89	12:54:00	2.900	1803.69	-2.06	244.48		
30-12-89	12:57:00	2.950	1801.72	-1.97	244.47		
30-12-89	13:00:00	3.000	1799.62	-2.10	244.45	848	Csg = 412 psig
30-12-89	13:03:00	3.050	1797.59	-2.02	244.43		
30-12-89	13:06:00	3.100	1795.58	-2.01	244.41		
30-12-89	13:09:00	3.150	1793.79	-1.78	244.40		
30-12-89	13:12:00	3.200	1791.78	-2.01	244.38		
30-12-89	13:15:00	3.250	1789.78	-1.10	244.37	843	Csg = 427 psig
30-12-89	13:18:00	3.300	1787.85	-1.94	244.36		
30-12-89	13:21:00	3.350	1786.08	-1.76	244.34		
30-12-89	13:24:00	3.400	1784.12	-1.96	244.32		
30-12-89	13:27:00	3.450	1782.29	-1.83	244.30		
30-12-89	13:30:00	3.500	1780.50	-1.79	244.28	838	Csg = 444 psig
30-12-89	13:33:00	3.550	1778.72	-1.77	244.27		
30-12-89	13:36:00	3.600	1777.02	-1.71	244.26		
30-12-89	13:39:00	3.650	1775.24	-1.77	244.24		
30-12-89	13:42:00	3.700	1773.51	-1.74	244.23		
30-12-89	13:45:00	3.750	1771.84	-1.67	244.21	833	Csg = 450 psig
30-12-89	13:48:00	3.800	1770.17	-1.67	244.19		
30-12-89	13:51:00	3.850	1768.75	-1.43	244.19	831	Csg = 461 psig
30-12-89	13:54:00	3.900	1767.04	-1.71	244.17		
30-12-89	13:57:00	3.950	1765.44	-1.60	244.14		End fourth rate

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Extended flow period . 28/64ths Choke

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	14:00:00	0.000	1763.79	-1.65	244.13		Cut choke to 28/64
30-12-89	14:01:00	0.017	1763.29	-0.50	244.14		
30-12-89	14:02:00	0.033	1779.43	16.14	244.13		START EXTENDED
30-12-89	14:03:00	0.050	1806.84	27.41	244.20		FLOW PERIOD
30-12-89	14:04:00	0.067	1828.00	21.16	244.27		1200 psi wellhead
30-12-89	14:05:00	0.083	1843.01	15.01	244.30		
30-12-89	14:06:00	0.100	1853.95	10.94	244.31		
30-12-89	14:07:00	0.117	1862.31	8.36	244.30		1 min sample rate
30-12-89	14:08:00	0.133	1868.85	6.54	244.30		
30-12-89	14:09:00	0.150	1873.98	5.13	244.29		Delta T from
30-12-89	14:10:00	0.167	1878.06	4.08	244.27		start of 4th rate
30-12-89	14:11:00	0.183	1881.55	3.50	244.28		
30-12-89	14:12:00	0.200	1884.62	3.06	244.27		Delta P from
30-12-89	14:13:00	0.217	1887.27	2.65	244.28		previous value
30-12-89	14:14:00	0.233	1889.63	2.36	244.28		
30-12-89	14:15:00	0.250	1891.67	2.03	244.29		
30-12-89	14:18:00	0.300	1896.41	4.74	244.31		
30-12-89	14:21:00	0.350	1899.79	3.38	244.31		3 min sample rate
30-12-89	14:24:00	0.400	1902.14	2.35	244.32		
30-12-89	14:27:00	0.450	1903.96	1.81	244.33		
30-12-89	14:30:00	0.500	1905.14	1.19	244.34		
30-12-89	14:35:00	0.583	1906.28	1.14	244.36		
30-12-89	14:40:00	0.667	1906.90	0.62	244.37		
30-12-89	14:45:00	0.750	1907.08	0.18	244.37		5 min sample rate
30-12-89	14:50:00	0.833	1907.00	-0.08	244.39		
30-12-89	14:55:00	0.917	1906.62	-0.38	244.39		
30-12-89	15:00:00	1.000	1906.07	-0.56	244.40	1175	Csg = 510 psig
30-12-89	15:05:00	1.083	1905.32	-0.75	244.41		
30-12-89	15:10:00	1.167	1904.77	-0.55	244.42		
30-12-89	15:15:00	1.250	1903.84	-0.93	244.42		
30-12-89	15:20:00	1.333	1902.90	-0.94	244.44		
30-12-89	15:25:00	1.417	1902.14	-0.76	244.44		
30-12-89	15:30:00	1.500	1901.21	-0.92	244.44		
30-12-89	15:35:00	1.583	1900.25	-0.96	244.45		
30-12-89	15:40:00	1.667	1899.35	-0.90	244.45		
30-12-89	15:45:00	1.750	1898.42	-0.93	244.46		
30-12-89	15:50:00	1.833	1897.42	-1.00	244.46		
30-12-89	15:55:00	1.917	1896.41	-1.00	244.46		
30-12-89	16:00:00	2.000	1895.47	-0.94	244.46	1167	Csg = 534 psig
30-12-89	16:05:00	2.083	1894.55	-0.92	244.46		
30-12-89	16:10:00	2.167	1893.53	-1.02	244.45		
30-12-89	16:15:00	2.250	1892.54	-0.99	244.46		
30-12-89	16:20:00	2.333	1891.56	-0.98	244.46		
30-12-89	16:25:00	2.417	1890.55	-1.00	244.46		
30-12-89	16:30:00	2.500	1889.51	-1.04	244.45		
30-12-89	16:35:00	2.583	1888.61	-0.91	244.45		
30-12-89	16:40:00	2.667	1887.57	-1.04	244.45		
30-12-89	16:45:00	2.750	1886.46	-1.11	244.44		
30-12-89	16:50:00	2.833	1885.59	-0.87	244.44		
30-12-89	16:55:00	2.917	1884.72	-0.87	244.45		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 30-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Extended flow period . 28/64ths Choke

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
30-12-89	17:00:00	3.000	1883.79	-0.93	244.45	1162	Csg = 560 psig
30-12-89	17:05:00	3.083	1882.87	-0.92	244.45		
30-12-89	17:10:00	3.167	1882.09	-0.78	244.46		
30-12-89	17:15:00	3.250	1881.12	-0.97	244.46		
30-12-89	17:20:00	3.333	1880.22	-0.90	244.46		
30-12-89	17:25:00	3.417	1879.76	-0.46	244.46		
30-12-89	17:30:00	3.500	1878.62	-1.14	244.45		
30-12-89	17:35:00	3.583	1877.69	-0.93	244.45		
30-12-89	17:40:00	3.667	1876.76	-0.93	244.45		
30-12-89	17:45:00	3.750	1875.81	-0.96	244.44		
30-12-89	17:50:00	3.833	1875.04	-0.77	244.44		
30-12-89	17:55:00	3.917	1874.21	-0.83	244.43		
30-12-89	18:00:00	4.000	1873.20	-1.00	244.42	1154	Csg = 580 psig
30-12-89	18:10:00	4.167	1871.45	-1.75	244.43		
30-12-89	18:20:00	4.333	1870.09	-1.36	244.43		10 min sample rate
30-12-89	18:30:00	4.500	1868.51	-1.58	244.41		
30-12-89	18:40:00	4.667	1866.97	-1.54	244.40		
30-12-89	19:00:00	5.000	1864.13	-2.83	244.38	1147	Csg = 594 psig
30-12-89	19:10:00	5.167	1862.48	-1.66	244.20		
30-12-89	19:20:00	5.333	1861.09	-1.38	244.26		
30-12-89	19:30:00	5.500	1859.65	-1.45	244.24		
30-12-89	19:40:00	5.667	1858.32	-1.33	244.06		
30-12-89	19:50:00	5.833	1857.09	-1.23	244.34		
30-12-89	20:00:00	6.000	1855.80	-1.29	244.10	1141	Csg = 607 psig
30-12-89	20:10:00	6.167	1854.55	-1.25	244.28		
30-12-89	20:20:00	6.333	1853.40	-1.15	244.33		
30-12-89	20:30:00	6.500	1852.28	-1.12	244.22		
30-12-89	20:40:00	6.667	1851.15	-1.13	244.16		
30-12-89	20:50:00	6.833	1850.05	-1.10	244.33		
30-12-89	21:00:00	7.000	1848.10	-1.05	244.33	1137	Csg = 619 psig
30-12-89	21:10:00	7.167	1847.89	-1.11	244.33		
30-12-89	21:20:00	7.333	1846.80	-1.09	244.26		
30-12-89	21:30:00	7.500	1845.74	-1.06	244.32		
30-12-89	21:40:00	7.667	1844.74	-1.00	244.31		
30-12-89	21:50:00	7.833	1843.64	-1.10	244.30		
30-12-89	22:00:00	8.000	1842.55	-1.08	244.24	1133	Csg = 627 psig
30-12-89	22:10:00	8.167	1841.56	-0.99	244.29		
30-12-89	22:20:00	8.333	1840.64	-0.93	244.28		
30-12-89	22:30:00	8.500	1839.59	-1.05	244.28		
30-12-89	22:40:00	8.667	1838.66	-0.93	244.22		
30-12-89	22:50:00	8.833	1837.78	-0.87	244.27		
30-12-89	23:00:00	9.000	1836.90	-0.89	244.26	1130	Csg = 637 psig
30-12-89	23:10:00	9.167	1836.14	-0.76	244.26		
30-12-89	23:20:00	9.333	1835.14	-0.10	244.20		
30-12-89	23:30:00	9.500	1834.25	-0.89	244.19		
30-12-89	23:40:00	9.667	1833.37	-0.88	244.24		
30-12-89	23:50:00	9.833	1832.58	-0.79	244.13		
31-12-89	00:00:00	10.000	1831.76	-0.82	244.24	1125	Csg = 645 psig
31-12-89	00:10:00	10.167	1831.44	-0.32	244.17		
31-12-89	00:20:00	10.333	1830.26	-1.17	244.23		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Extended flow period . 28/64ths Choke

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	00:30:00	10.500	1829.36	-0.91	244.22		
31-12-89	00:40:00	10.667	1828.62	-0.73	244.20		
31-12-89	00:50:00	10.833	1827.91	-0.71	244.20		
31-12-89	01:00:00	11.000	1827.11	-0.80	244.20	1123	Csg = 652 psig
31-12-89	01:10:00	11.167	1826.33	-0.78	244.19		
31-12-89	01:20:00	11.333	1825.69	-0.64	244.19		
31-12-89	01:30:00	11.500	1824.83	-0.86	244.17		
31-12-89	01:40:00	11.667	1824.14	-0.69	244.17		
31-12-89	01:50:00	11.833	1823.49	-0.65	244.16		
31-12-89	02:00:00	12.000	1822.76	-0.74	244.09	1121	Csg = 656 psig
31-12-89	02:10:00	12.167	1822.03	-0.72	244.08		
31-12-89	02:20:00	12.333	1821.29	-0.74	244.08		
31-12-89	02:30:00	12.500	1820.54	-0.75	244.13		
31-12-89	02:40:00	12.667	1819.89	-0.66	244.11		
31-12-89	02:50:00	12.833	1819.19	-0.70	244.14		
31-12-89	03:00:00	13.000	1818.76	-0.43	244.02	1118	Csg = 662 psig
31-12-89	03:10:00	13.167	1818.24	-0.52	244.12		
31-12-89	03:20:00	13.333	1817.95	-0.29	243.96		
31-12-89	03:30:00	13.500	1817.14	-0.80	243.81		
31-12-89	03:40:00	13.667	1816.53	-0.61	243.99		
31-12-89	03:50:00	13.833	1815.84	-0.70	243.75		
31-12-89	04:00:00	14.000	1815.53	-0.31	244.09	1117	Csg = 667 psig
31-12-89	04:10:00	14.167	1815.09	-0.44	244.09		
31-12-89	04:20:00	14.333	1814.82	-0.27	244.10		
31-12-89	04:30:00	14.500	1814.32	-0.50	244.03		
31-12-89	04:40:00	14.667	1813.83	-0.49	244.07		
31-12-89	04:50:00	14.833	1813.08	-0.75	244.03		
31-12-89	05:00:00	15.000	1812.78	-0.30	244.05	1114	Csg = 674 psig
31-12-89	05:10:00	15.167	1812.08	-0.70	244.03		
31-12-89	05:20:00	15.333	1811.48	-0.60	243.99		
31-12-89	05:30:00	15.500	1811.15	-0.34	244.01		
31-12-89	05:40:00	15.667	1810.83	-0.32	244.01		
31-12-89	05:50:00	15.833	1810.51	-0.32	243.99		
31-12-89	06:00:00	16.000	1809.85	-0.66	243.98	1113	Csg = 678 psig
31-12-89	06:10:00	16.167	1809.85	-0.01	243.99		
31-12-89	06:20:00	16.333	1809.20	-0.65	243.86		
31-12-89	06:30:00	16.500	1808.72	-0.48	243.97		
31-12-89	06:40:00	16.667	1808.29	-0.42	243.97		
31-12-89	06:50:00	16.833	1807.72	-0.58	243.97		
31-12-89	07:00:00	17.000	1807.14	-0.58	243.96	1112	Csg = 684 psig
31-12-89	07:10:00	17.167	1807.08	-0.06	243.97		
31-12-89	07:20:00	17.333	1806.57	-0.51	243.85		
31-12-89	07:30:00	17.500	1806.43	-0.14	243.92		
31-12-89	07:40:00	17.667	1805.83	-0.60	243.80		
31-12-89	07:50:00	17.833	1805.30	-0.53	243.96		
31-12-89	08:00:00	18.000	1805.16	-0.14	243.92	1113	Csg = 690 psig
31-12-89	08:10:00	18.167	1804.68	-0.48	243.86		
31-12-89	08:20:00	18.333	1804.11	-0.57	243.81		
31-12-89	08:30:00	18.500	1803.70	-0.40	243.92		
31-12-89	08:40:00	18.667	1803.47	-0.23	243.19		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Extended flow period . 28/64ths Choke

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	08:50:00	18.833	1803.34	-0.14	243.94		
31-12-89	09:00:00	19.000	1802.90	-0.44	243.92	1110	Csg = 690 psig
31-12-89	09:10:00	19.167	1802.56	-0.34	243.86		
31-12-89	09:20:00	19.333	1802.24	-0.32	243.82		
31-12-89	09:30:00	19.500	1801.88	-0.36	243.93		
31-12-89	09:40:00	19.667	1801.72	-0.16	243.94		
31-12-89	09:50:00	19.833	1801.33	-0.39	243.91		
31-12-89	10:00:00	20.000	1801.14	-0.19	243.91	1112	Csg = 695 psig
31-12-89	10:10:00	20.167	1800.80	-0.34	243.92		
31-12-89	10:20:00	20.333	1800.66	-0.14	243.91		
31-12-89	10:30:00	20.500	1800.37	-0.29	243.91		
31-12-89	10:40:00	20.667	1800.32	-0.04	243.85		
31-12-89	10:50:00	20.833	1799.90	-0.43	243.89		
31-12-89	11:00:00	21.000	1799.61	-0.29	243.89	1114	Csg = 700 psig
31-12-89	11:10:00	21.167	1799.33	-0.28	243.90		
31-12-89	11:20:00	21.333	1798.99	-0.34	241.09		
31-12-89	11:30:00	21.500	1798.90	-0.09	243.86		
31-12-89	11:40:00	21.667	1798.56	-0.34	243.87		
31-12-89	11:50:00	21.833	1798.40	-0.16	243.88		
31-12-89	12:00:00	22.000	1798.08	-0.32	243.88	1113	Csg = 701 psig
31-12-89	12:10:00	22.167	1797.73	-0.36	243.87		
31-12-89	12:20:00	22.333	1797.55	-0.17	243.86		
31-12-89	12:30:00	22.500	1797.38	-0.17	243.87		
31-12-89	12:40:00	22.667	1796.81	-0.57	243.84		
31-12-89	12:50:00	22.833	1796.64	-0.17	243.86		
31-12-89	13:00:00	23.000	1796.42	-0.21	243.84	1113	Csg = 704 psig
31-12-89	13:10:00	23.167	1796.40	-0.02	243.86		
31-12-89	13:20:00	23.333	1795.93	-0.47	243.84	1112	Csg = 706 psig
31-12-89	13:30:00	23.500	1795.50	-0.43	243.84		
31-12-89	13:40:00	23.667	1795.37	-0.13	243.83		End of Extended
31-12-89	13:50:00	23.833	1794.92	-0.45	243.84		flow period

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	14:00:00	0.000	1794.78	0.00	243.83		SHUT IN THE WELL
31-12-89	14:00:20	0.006	1794.78	0.00	243.83		FOR FINAL
31-12-89	14:00:30	0.008	1815.58	20.80	243.83		BUILD UP
31-12-89	14:00:40	0.011	1834.94	40.16	243.83		
31-12-89	14:00:50	0.014	1853.69	58.91	243.83		10 sec sample rate
31-12-89	14:01:00	0.017	1874.64	79.86	243.83	1450	
31-12-89	14:01:10	0.019	1897.16	102.38	243.83		
31-12-89	14:01:20	0.022	1916.83	122.05	243.83		Delta T from
31-12-89	14:01:30	0.025	1935.68	140.90	243.83		shut in
31-12-89	14:01:40	0.028	1951.69	156.91	243.83		
31-12-89	14:01:50	0.031	1970.16	175.38	243.83		Delta P from
31-12-89	14:02:00	0.033	1985.85	191.07	243.83	1558	shut in
31-12-89	14:02:10	0.036	2000.62	205.84	243.83		
31-12-89	14:02:20	0.039	2013.13	218.35	243.83		
31-12-89	14:02:30	0.042	2026.25	231.47	243.83		
31-12-89	14:02:40	0.044	2039.74	244.96	243.83		
31-12-89	14:02:50	0.047	2051.25	256.47	243.83		
31-12-89	14:03:00	0.050	2060.97	266.19	243.83	1625	
31-12-89	14:03:10	0.053	2072.13	277.35	243.83		
31-12-89	14:03:20	0.056	2081.69	286.91	243.83		
31-12-89	14:03:30	0.058	2090.82	296.04	243.83		
31-12-89	14:03:40	0.061	2098.65	303.87	243.83		
31-12-89	14:03:50	0.064	2107.62	312.84	243.83		
31-12-89	14:04:00	0.067	2115.50	320.72	243.83	1672	
31-12-89	14:04:10	0.069	2122.27	327.49	243.83		
31-12-89	14:04:20	0.072	2130.13	335.35	243.83		
31-12-89	14:04:30	0.075	2136.31	341.53	243.83		
31-12-89	14:04:40	0.078	2143.52	348.74	243.83		
31-12-89	14:04:50	0.081	2149.82	355.04	243.83		
31-12-89	14:05:00	0.083	2155.89	361.11	243.83	1706	Csg = 713 psig
31-12-89	14:05:10	0.086	2161.68	366.90	243.83		
31-12-89	14:05:20	0.089	2161.68	366.90	244.28		
31-12-89	14:05:30	0.092	2173.04	378.26	244.28		
31-12-89	14:05:40	0.094	2177.73	382.95	244.28		
31-12-89	14:05:50	0.097	2182.84	388.06	244.28		
31-12-89	14:06:00	0.100	2187.84	393.06	244.28		
31-12-89	14:06:10	0.103	2192.94	398.16	244.28		
31-12-89	14:06:20	0.106	2197.19	402.41	244.28		
31-12-89	14:06:30	0.108	2201.63	406.85	244.28		
31-12-89	14:06:40	0.111	2206.02	411.24	244.28		
31-12-89	14:06:50	0.114	2210.22	415.44	244.28		
31-12-89	14:07:00	0.117	2214.82	420.04	244.28		
31-12-89	14:07:10	0.119	2218.32	423.54	244.28		
31-12-89	14:07:20	0.122	2222.27	427.49	244.28		
31-12-89	14:07:30	0.125	2226.06	431.28	244.28		
31-12-89	14:07:40	0.128	2229.74	434.96	244.28		
31-12-89	14:07:50	0.131	2233.76	438.98	244.28		
31-12-89	14:08:00	0.133	2236.93	442.15	244.28		
31-12-89	14:08:10	0.136	2240.37	445.59	244.28		
31-12-89	14:08:20	0.139	2243.81	449.03	244.28		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	14:08:30	0.142	2247.44	452.66	244.28		
31-12-89	14:08:40	0.144	2250.28	455.50	244.28		
31-12-89	14:08:50	0.147	2253.49	458.71	244.28		
31-12-89	14:09:00	0.150	2256.62	461.84	244.28		
31-12-89	14:09:10	0.153	2259.68	464.90	244.28		
31-12-89	14:09:20	0.156	2262.61	467.83	244.28		
31-12-89	14:09:30	0.158	2265.56	470.78	244.28		
31-12-89	14:09:40	0.161	2268.45	473.67	244.28		
31-12-89	14:09:50	0.164	2271.28	476.50	244.28		
31-12-89	14:10:00	0.167	2274.04	479.26	244.28	1800	Csg = 692 psig
31-12-89	14:10:10	0.169	2276.74	481.96	244.28		
31-12-89	14:10:20	0.172	2276.74	481.96	243.75		
31-12-89	14:10:30	0.175	2282.00	487.22	243.75		
31-12-89	14:10:40	0.178	2284.87	490.09	243.75		
31-12-89	14:10:50	0.181	2287.16	492.38	243.75		
31-12-89	14:11:00	0.183	2289.63	494.85	243.75		
31-12-89	14:11:10	0.186	2292.01	497.23	243.75		
31-12-89	14:11:20	0.189	2294.46	499.68	243.75		
31-12-89	14:11:30	0.192	2296.93	502.15	243.75		
31-12-89	14:11:40	0.194	2299.23	504.45	243.75		
31-12-89	14:11:50	0.197	2301.52	506.74	243.75		
31-12-89	14:12:00	0.200	2303.77	508.99	243.75		
31-12-89	14:12:10	0.203	2306.02	511.24	243.75		
31-12-89	14:12:20	0.206	2308.18	513.40	243.75		
31-12-89	14:12:30	0.208	2310.44	515.66	243.75		
31-12-89	14:12:40	0.211	2312.57	517.79	243.75		
31-12-89	14:12:50	0.214	2314.59	519.81	243.75		
31-12-89	14:13:00	0.217	2316.74	521.96	243.75		
31-12-89	14:13:10	0.219	2318.68	523.90	243.75		
31-12-89	14:13:20	0.222	2320.76	525.98	243.75		
31-12-89	14:13:30	0.225	2322.77	527.99	243.75		
31-12-89	14:13:40	0.228	2324.76	529.98	243.75		
31-12-89	14:13:50	0.231	2326.68	531.90	243.75		
31-12-89	14:14:00	0.233	2328.53	533.75	243.75		
31-12-89	14:14:10	0.236	2330.53	535.75	243.75		
31-12-89	14:14:20	0.239	2332.31	537.53	243.75		
31-12-89	14:14:30	0.242	2334.26	539.48	243.75		
31-12-89	14:14:40	0.244	2336.02	541.24	243.75		
31-12-89	14:14:50	0.247	2337.85	543.07	243.75		
31-12-89	14:15:00	0.250	2339.61	544.83	243.75	1851	Csg = 670 psig
31-12-89	14:15:30	0.258	2344.78	550.00	243.75		
31-12-89	14:16:00	0.267	2350.76	555.98	243.41		30 sec sample rate
31-12-89	14:16:30	0.275	2355.40	560.62	243.38		
31-12-89	14:17:00	0.283	2360.25	565.47	243.35		
31-12-89	14:17:30	0.292	2364.63	569.85	243.32		
31-12-89	14:18:00	0.300	2369.10	574.32	243.29		
31-12-89	14:18:30	0.308	2373.21	578.43	243.26		
31-12-89	14:19:00	0.317	2377.47	582.69	243.22		
31-12-89	14:19:30	0.325	2381.29	586.51	243.19		
31-12-89	14:20:00	0.333	2385.22	590.44	243.15		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	14:20:30	0.342	2389.00	594.22	243.12		
31-12-89	14:21:00	0.350	2392.71	597.93	243.08		
31-12-89	14:21:30	0.358	2396.18	601.40	243.04		
31-12-89	14:22:00	0.367	2399.84	605.06	242.99		
31-12-89	14:22:30	0.375	2403.05	608.27	242.96		
31-12-89	14:23:00	0.383	2406.40	611.62	242.91		
31-12-89	14:23:30	0.392	2409.79	615.01	242.87		
31-12-89	14:24:00	0.400	2412.87	618.09	242.83		
31-12-89	14:24:30	0.408	2415.84	621.06	242.78		
31-12-89	14:25:00	0.417	2418.87	624.09	242.74		
31-12-89	14:25:30	0.425	2421.87	627.09	242.71		
31-12-89	14:26:00	0.433	2424.73	629.95	242.66		
31-12-89	14:26:30	0.442	2427.60	632.82	242.62		
31-12-89	14:27:00	0.450	2430.39	635.61	242.58		
31-12-89	14:27:30	0.458	2433.07	638.29	242.53		
31-12-89	14:28:00	0.467	2435.75	640.97	242.48		
31-12-89	14:28:30	0.475	2438.29	643.51	242.44		
31-12-89	14:29:00	0.483	2440.79	646.01	242.39		
31-12-89	14:29:30	0.492	2443.34	648.56	242.35		
31-12-89	14:30:00	0.500	2445.75	650.97	242.30	1935	Csg = 614 psig
31-12-89	14:31:00	0.517	2450.45	655.67	242.22		
31-12-89	14:32:00	0.533	2455.01	660.23	242.12		1 min sample rate
31-12-89	14:33:00	0.550	2459.40	664.62	242.03		
31-12-89	14:34:00	0.567	2463.69	668.91	241.94		
31-12-89	14:35:00	0.583	2467.81	673.03	241.85		
31-12-89	14:36:00	0.600	2471.93	677.14	241.75		
31-12-89	14:37:00	0.617	2475.87	681.09	241.67		
31-12-89	14:38:00	0.633	2479.62	684.84	241.58		
31-12-89	14:39:00	0.650	2483.30	688.52	241.48		
31-12-89	14:40:00	0.667	2486.80	692.02	241.39		
31-12-89	14:41:00	0.683	2490.24	695.46	241.31		
31-12-89	14:42:00	0.700	2493.65	698.87	241.21		
31-12-89	14:43:00	0.717	2497.02	702.24	241.12		
31-12-89	14:44:00	0.733	2500.28	705.50	241.04		
31-12-89	14:45:00	0.750	2503.42	708.64	240.95	1980	Csg = 569 psig
31-12-89	14:46:00	0.767	2506.56	711.78	240.86		
31-12-89	14:47:00	0.783	2509.57	714.79	240.78		
31-12-89	14:48:00	0.800	2512.50	717.72	240.68		
31-12-89	14:49:00	0.817	2515.34	720.56	240.61		
31-12-89	14:50:00	0.833	2518.14	723.36	240.52		
31-12-89	14:51:00	0.850	2520.87	726.09	240.45		
31-12-89	14:52:00	0.867	2523.53	728.75	240.36		
31-12-89	14:53:00	0.883	2526.19	731.41	240.29		
31-12-89	14:54:00	0.900	2528.71	733.93	240.21		
31-12-89	14:55:00	0.917	2531.20	736.42	240.13		
31-12-89	14:56:00	0.933	2533.58	738.80	240.05		
31-12-89	14:57:00	0.950	2535.99	741.21	239.99		
31-12-89	14:58:00	0.967	2538.26	743.48	239.91		
31-12-89	14:59:00	0.983	2540.53	745.75	239.84		
31-12-89	15:00:00	1.000	2542.82	748.04	239.78	2011	Csg = 526 psig

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	15:01:00	1.017	2545.10	750.32	239.70		
31-12-89	15:02:00	1.033	2547.33	752.55	239.63		
31-12-89	15:03:00	1.050	2549.37	754.59	239.55		
31-12-89	15:04:00	1.067	2551.56	756.78	239.49		
31-12-89	15:05:00	1.083	2553.56	758.78	239.42		
31-12-89	15:06:00	1.100	2555.66	760.88	239.35		
31-12-89	15:07:00	1.117	2557.62	762.84	239.29		
31-12-89	15:08:00	1.133	2559.53	764.75	239.23		
31-12-89	15:09:00	1.150	2561.36	766.58	239.17		
31-12-89	15:10:00	1.167	2563.21	768.43	239.10		
31-12-89	15:11:00	1.183	2565.20	770.42	239.04		
31-12-89	15:12:00	1.200	2567.02	772.24	238.97		
31-12-89	15:13:00	1.217	2568.74	773.96	238.91		
31-12-89	15:14:00	1.233	2570.46	775.68	238.86		
31-12-89	15:15:00	1.250	2572.15	777.37	238.80	2034	Csg = 491 psig
31-12-89	15:16:00	1.267	2573.90	779.12	238.75		
31-12-89	15:17:00	1.283	2575.49	780.71	238.69		
31-12-89	15:18:00	1.300	2577.09	782.31	238.63		
31-12-89	15:19:00	1.317	2578.66	783.88	238.58		
31-12-89	15:20:00	1.333	2580.17	785.39	238.53		
31-12-89	15:21:00	1.350	2581.78	786.10	238.48		
31-12-89	15:22:00	1.367	2583.33	788.55	238.43		
31-12-89	15:23:00	1.383	2584.77	789.99	238.37		
31-12-89	15:24:00	1.400	2586.30	791.52	238.32		
31-12-89	15:25:00	1.417	2587.75	792.97	238.27		
31-12-89	15:26:00	1.433	2589.18	794.40	238.22		
31-12-89	15:27:00	1.450	2590.64	795.86	238.17		
31-12-89	15:28:00	1.467	2592.06	797.28	238.12		5 min sample rate
31-12-89	15:29:00	1.483	2593.42	798.64	238.07		
31-12-89	15:30:00	1.500	2594.80	800.02	238.02	2051	Csg = 458 psig
31-12-89	15:35:00	1.583	2601.41	806.63	237.81		
31-12-89	15:40:00	1.667	2607.58	812.80	237.59		
31-12-89	15:45:00	1.750	2613.44	818.66	237.38	2067	Csg = 426 psig
31-12-89	15:50:00	1.833	2619.02	824.24	237.18		
31-12-89	16:00:00	2.000	2629.29	834.51	234.48	2077	Csg = 401 psig
31-12-89	16:05:00	2.083	2634.65	839.87	236.66		
31-12-89	16:10:00	2.167	2639.70	844.92	236.51		
31-12-89	16:15:00	2.250	2644.64	849.86	236.37		
31-12-89	16:20:00	2.333	2649.51	854.73	236.24		
31-12-89	16:25:00	2.417	2654.20	859.42	236.12		
31-12-89	16:35:00	2.583	2662.96	868.18	233.86		
31-12-89	16:40:00	2.667	2667.33	872.55	233.61		
31-12-89	16:45:00	2.750	2671.78	877.00	234.72		
31-12-89	16:50:00	2.833	2675.91	881.13	233.49		
31-12-89	16:55:00	2.917	2680.24	885.46	235.18		
31-12-89	17:00:00	3.000	2684.18	889.40	234.53	2119	Csg = 310 psig
31-12-89	17:05:00	3.083	2688.22	893.44	235.38		
31-12-89	17:10:00	3.167	2692.08	897.30	235.31		
31-12-89	17:15:00	3.250	2695.86	901.08	235.25		
31-12-89	17:20:00	3.333	2699.56	904.78	235.18		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	17:25:00	3.417	2703.10	908.32	235.12		
31-12-89	17:30:00	3.500	2706.60	911.82	235.06		
31-12-89	17:35:00	3.583	2709.93	915.15	235.01		
31-12-89	17:40:00	3.667	2713.28	918.50	234.95		
31-12-89	17:45:00	3.750	2716.53	921.75	234.90		
31-12-89	17:50:00	3.833	2719.71	924.93	234.86		
31-12-89	17:55:00	3.917	2722.76	927.98	234.80		
31-12-89	18:00:00	4.000	2725.76	930.98	234.76	2152	Csg = 236 psig
31-12-89	18:05:00	4.083	2728.69	933.91	234.71		
31-12-89	18:10:00	4.167	2731.61	936.83	234.66		
31-12-89	18:15:00	4.250	2734.39	939.61	234.62		
31-12-89	18:20:00	4.333	2737.14	942.36	234.57		
31-12-89	18:25:00	4.417	2739.75	944.97	234.54		
31-12-89	18:30:00	4.500	2742.36	947.58	234.51		
31-12-89	18:35:00	4.583	2744.92	950.14	234.46		
31-12-89	18:40:00	4.667	2747.37	952.59	234.43		
31-12-89	18:45:00	4.750	2749.85	955.07	234.39		
31-12-89	18:50:00	4.833	2752.23	957.45	234.36		
31-12-89	18:55:00	4.917	2754.56	959.78	234.32		
31-12-89	19:00:00	5.000	2756.84	962.06	234.28	2174	Csg = 181 psig
31-12-89	19:05:00	5.083	2759.02	964.24	234.26		
31-12-89	19:10:00	5.167	2761.18	966.40	234.23		
31-12-89	19:15:00	5.250	2763.28	968.50	234.21		
31-12-89	19:20:00	5.333	2765.39	970.61	234.19		
31-12-89	19:25:00	5.417	2767.39	972.61	234.15		
31-12-89	19:30:00	5.500	2769.40	974.62	234.12		
31-12-89	19:35:00	5.583	2771.28	976.50	234.08		
31-12-89	19:40:00	5.667	2773.19	978.41	234.06		
31-12-89	19:45:00	5.750	2775.00	980.22	234.04		
31-12-89	19:50:00	5.833	2776.81	982.03	234.02		
31-12-89	19:55:00	5.917	2778.59	983.81	233.99		
31-12-89	20:00:00	6.000	2780.33	985.55	233.97	2189	Csg = 143 psig
31-12-89	20:05:00	6.083	2781.96	987.18	233.95		
31-12-89	20:10:00	6.167	2783.66	988.88	233.93		
31-12-89	20:15:00	6.250	2785.24	990.46	233.92		
31-12-89	20:20:00	6.333	2786.79	992.01	233.90		
31-12-89	20:25:00	6.417	2788.41	993.63	233.87		
31-12-89	20:30:00	6.500	2789.81	995.03	233.86		
31-12-89	20:35:00	6.583	2791.37	996.59	233.85		
31-12-89	20:40:00	6.667	2792.53	997.75	231.20		
31-12-89	20:45:00	6.750	2794.22	999.44	233.71		
31-12-89	20:50:00	6.833	2795.36	1000.58	231.66		
31-12-89	20:55:00	6.917	2797.04	1002.26	233.80		
31-12-89	21:00:00	7.000	2798.43	1003.65	233.79		
31-12-89	21:05:00	7.083	2799.80	1005.02	233.77		
31-12-89	21:10:00	7.167	2801.12	1006.34	233.76		
31-12-89	21:15:00	7.250	2802.46	1007.68	233.75		
31-12-89	21:20:00	7.333	2803.77	1008.99	233.73		
31-12-89	21:25:00	7.417	2804.96	1010.18	233.72		
31-12-89	21:30:00	7.500	2806.22	1011.44	233.72		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 31-12-89 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
31-12-89	21:35:00	7.583	2807.49	1012.71	233.70		
31-12-89	21:40:00	7.667	2808.69	1013.91	233.69		
31-12-89	21:45:00	7.750	2810.01	1015.23	233.68		
31-12-89	21:50:00	7.833	2811.11	1016.33	233.66		
31-12-89	21:55:00	7.917	2812.28	1017.50	233.65		
31-12-89	22:00:00	8.000	2813.43	1018.65	233.64		
31-12-89	22:05:00	8.083	2814.53	1019.75	233.00		
31-12-89	22:10:00	8.167	2815.68	1020.90	233.28		
31-12-89	22:15:00	8.250	2816.74	1021.96	232.86		
31-12-89	22:20:00	8.333	2817.87	1023.09	233.48		
31-12-89	22:25:00	8.417	2818.90	1024.12	233.42		
31-12-89	22:30:00	8.500	2819.95	1025.17	233.34		
31-12-89	22:35:00	8.583	2821.01	1026.23	233.45		
31-12-89	22:40:00	8.667	2822.04	1027.26	233.43		
31-12-89	22:45:00	8.750	2823.11	1028.33	233.54		
31-12-89	22:50:00	8.833	2824.16	1029.38	233.52		
31-12-89	22:55:00	8.917	2825.10	1030.32	233.35		
31-12-89	23:00:00	9.000	2826.10	1031.32	233.50		
31-12-89	23:05:00	9.083	2827.08	1032.30	233.48		
31-12-89	23:10:00	9.167	2828.00	1033.22	233.37		
31-12-89	23:15:00	9.250	2828.96	1034.18	233.47		
31-12-89	23:20:00	9.333	2829.87	1035.09	233.46		
31-12-89	23:25:00	9.417	2830.84	1036.06	233.45		
31-12-89	23:30:00	9.500	2831.78	1037.00	233.43		
31-12-89	23:35:00	9.583	2832.59	1037.81	233.43		
31-12-89	23:40:00	9.667	2833.45	1038.67	233.42		
31-12-89	23:45:00	9.750	2834.37	1039.59	233.40		
31-12-89	23:50:00	9.833	2835.29	1040.51	233.34		
31-12-89	23:55:00	9.917	2836.16	1041.38	233.39		
01-01-90	00:00:00	10.000	2837.02	1042.24	233.37	2238	End of Decade
01-01-90	00:05:00	10.083	2837.85	1043.07	233.36		
01-01-90	00:10:00	10.167	2838.66	1043.88	233.35		
01-01-90	00:15:00	10.250	2839.48	1044.70	233.34		
01-01-90	00:20:00	10.333	2840.27	1045.49	233.32		
01-01-90	00:25:00	10.417	2841.06	1046.28	233.31		
01-01-90	00:30:00	10.500	2841.78	1047.00	233.31		
01-01-90	00:35:00	10.583	2842.62	1047.84	233.30		
01-01-90	00:40:00	10.667	2843.45	1048.67	233.30		
01-01-90	00:45:00	10.750	2844.15	1049.37	233.28		
01-01-90	00:50:00	10.833	2844.88	1050.10	233.21		
01-01-90	00:55:00	10.917	2845.67	1050.89	233.26		
01-01-90	01:00:00	11.000	2846.41	1051.63	233.26		
01-01-90	01:05:00	11.083	2847.11	1052.33	233.07		
01-01-90	01:10:00	11.167	2847.93	1053.15	233.23		
01-01-90	01:15:00	11.250	2848.65	1053.87	233.17		
01-01-90	01:20:00	11.333	2849.32	1054.54	232.84		
01-01-90	01:25:00	11.417	2850.03	1055.25	233.20		
01-01-90	01:30:00	11.500	2850.75	1055.97	233.20		
01-01-90	01:35:00	11.583	2851.41	1056.63	233.19		
01-01-90	01:40:00	11.667	2852.19	1057.41	233.18		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 01-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T.Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
01-01-90	01:45:00	11.750	2852.83	1058.05	233.11		
01-01-90	01:50:00	11.833	2853.57	1058.79	233.16		
01-01-90	01:55:00	11.917	2854.31	1059.53	233.14		
01-01-90	02:00:00	12.000	2854.91	1060.13	233.13		
01-01-90	02:05:00	12.083	2855.61	1060.83	233.13		
01-01-90	02:10:00	12.167	2856.25	1061.47	233.12		
01-01-90	02:15:00	12.250	2856.93	1062.15	233.11		
01-01-90	02:20:00	12.333	2857.56	1062.78	232.97		
01-01-90	02:25:00	12.417	2858.11	1063.33	233.03		
01-01-90	02:30:00	12.500	2858.77	1063.99	232.96		
01-01-90	02:35:00	12.583	2859.37	1064.59	232.95		
01-01-90	02:40:00	12.667	2859.99	1065.21	232.94		
01-01-90	02:45:00	12.750	2860.51	1065.73	232.81		
01-01-90	02:50:00	12.833	2861.07	1066.29	232.52		
01-01-90	02:55:00	12.917	2861.81	1067.03	233.03		
01-01-90	03:00:00	13.000	2862.34	1067.56	232.73		
01-01-90	03:05:00	13.083	2862.95	1068.17	232.83		
01-01-90	03:10:00	13.167	2863.54	1068.76	233.00		
01-01-90	03:15:00	13.250	2864.09	1069.31	232.93		
01-01-90	03:20:00	13.333	2864.67	1069.89	232.81		
01-01-90	03:25:00	13.417	2865.19	1070.41	232.91		
01-01-90	03:30:00	13.500	2865.81	1071.03	232.96		
01-01-90	03:35:00	13.583	2866.42	1071.64	232.95		
01-01-90	03:40:00	13.667	2866.89	1072.11	232.48		
01-01-90	03:45:00	13.750	2867.45	1072.67	232.12		
01-01-90	03:50:00	13.833	2868.08	1073.30	232.93		
01-01-90	03:55:00	13.917	2868.64	1073.86	232.46		
01-01-90	04:00:00	14.000	2869.20	1074.42	232.39	2254	Csg = 40 psig
01-01-90	04:05:00	14.083	2869.80	1075.02	232.90		
01-01-90	04:10:00	14.167	2870.29	1075.51	232.44		
01-01-90	04:15:00	14.250	2870.89	1076.11	232.89		
01-01-90	04:20:00	14.333	2871.35	1076.57	232.59		
01-01-90	04:25:00	14.417	2871.83	1077.05	231.88		
01-01-90	04:30:00	14.500	2872.19	1077.41	230.61		
01-01-90	04:35:00	14.583	2872.78	1078.00	231.47		
01-01-90	04:40:00	14.667	2873.17	1078.39	230.78		
01-01-90	04:45:00	14.750	2873.85	1079.07	231.79		
01-01-90	04:50:00	14.833	2874.47	1079.69	232.83		
01-01-90	04:55:00	14.917	2874.81	1080.03	231.37		
01-01-90	05:00:00	15.000	2875.19	1080.41	230.97		
01-01-90	05:05:00	15.083	2875.66	1080.88	230.57		
01-01-90	05:10:00	15.167	2876.44	1081.66	232.79		
01-01-90	05:15:00	15.250	2876.74	1081.96	231.63		
01-01-90	05:20:00	15.333	2877.13	1082.35	231.19		
01-01-90	05:25:00	15.417	2877.65	1082.87	231.39		
01-01-90	05:30:00	15.500	2878.09	1083.31	231.38		
01-01-90	05:35:00	15.583	2878.66	1083.88	231.96		
01-01-90	05:40:00	15.667	2878.91	1084.13	230.50		
01-01-90	05:45:00	15.750	2879.69	1084.91	232.73		
01-01-90	05:50:00	15.833	2879.97	1085.19	231.86		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd DATE: 01-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
01-01-90	05:55:00	15.917	2880.30	1085.52	231.15		
01-01-90	06:00:00	16.000	2880.78	1085.10	231.46		
01-01-90	06:05:00	16.083	2881.05	1086.27	230.09		
01-01-90	06:10:00	16.167	2881.54	1086.76	230.80		
01-01-90	06:15:00	16.250	2882.06	1087.28	231.00		
01-01-90	06:20:00	16.333	2882.46	1087.68	231.06		
01-01-90	06:25:00	16.417	2883.01	1088.23	231.51		
01-01-90	06:30:00	16.500	2883.27	1088.49	230.66		
01-01-90	06:35:00	16.583	2883.77	1088.99	231.33		
01-01-90	06:40:00	16.667	2884.07	1089.29	230.56		
01-01-90	06:45:00	16.750	2884.55	1089.77	230.71		
01-01-90	06:50:00	16.833	2885.03	1090.25	231.35		
01-01-90	06:55:00	16.917	2885.43	1090.65	231.41		
01-01-90	07:00:00	17.000	2885.95	1091.17	231.95		
01-01-90	07:05:00	17.083	2886.45	1091.67	232.57		
01-01-90	07:10:00	17.167	2886.84	1092.06	231.97		
01-01-90	07:15:00	17.250	2887.19	1092.41	232.25		
01-01-90	07:20:00	17.333	2887.54	1092.76	232.52		
01-01-90	07:25:00	17.417	2887.93	1093.15	232.46		
01-01-90	07:30:00	17.500	2888.32	1093.54	232.50		
01-01-90	07:35:00	17.583	2888.80	1094.02	232.48		
01-01-90	07:40:00	17.667	2889.17	1094.39	232.47		
01-01-90	07:45:00	17.750	2889.52	1094.74	232.45		
01-01-90	07:50:00	17.833	2890.01	1095.23	232.44		
01-01-90	07:55:00	17.917	2890.38	1095.60	232.30		
01-01-90	08:00:00	18.000	2890.79	1096.01	232.40	2258	Csg = 40 psig
01-01-90	08:05:00	18.083	2891.12	1096.34	232.39		
01-01-90	08:10:00	18.167	2891.43	1096.65	232.36		
01-01-90	08:15:00	18.250	2891.10	1097.22	232.34		
01-01-90	08:20:00	18.333	2892.26	1097.48	232.33		
01-01-90	08:25:00	18.417	2892.67	1097.89	232.32		
01-01-90	08:30:00	18.500	2893.03	1098.25	232.31		
01-01-90	08:35:00	18.583	2893.34	1098.56	232.29		
01-01-90	08:40:00	18.667	2893.70	1098.92	232.28		
01-01-90	08:45:00	18.750	2894.14	1099.36	232.26		
01-01-90	08:50:00	18.833	2894.47	1099.69	232.25		
01-01-90	08:55:00	18.917	2894.81	1100.03	232.24		
01-01-90	09:00:00	19.000	2895.19	1100.41	232.23		
01-01-90	09:10:00	19.167	2895.81	1101.03	232.22		
01-01-90	09:20:00	19.333	2896.59	1101.81	232.21		
01-01-90	09:30:00	19.500	2897.23	1102.45	232.19		
01-01-90	09:40:00	19.667	2897.93	1103.15	232.20		
01-01-90	09:50:00	19.833	2898.61	1103.83	232.19		
01-01-90	10:00:00	20.000	2899.25	1104.47	232.18		
01-01-90	10:10:00	20.167	2899.88	1105.10	232.18		
01-01-90	10:20:00	20.333	2900.44	1105.66	232.18		
01-01-90	10:30:00	20.500	2901.15	1106.37	232.18		
01-01-90	10:40:00	20.667	2901.82	1107.04	232.16		
01-01-90	10:50:00	20.833	2902.43	1107.65	232.16		
01-01-90	11:00:00	21.000	2903.15	1108.37	232.15		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd DATE: 01-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
01-01-90	11:10:00	21.167	2903.86	1109.08	232.14		
01-01-90	11:20:00	21.333	2904.38	1109.60	232.13		
01-01-90	11:30:00	21.500	2905.05	1110.27	232.12		
01-01-90	11:40:00	21.667	2902.28	1107.50	232.00		Grease pump fails
01-01-90	11:50:00	21.833	2901.81	1107.03	231.98		
01-01-90	12:00:00	22.000	2904.44	1109.66	232.01	2288	Csg = 39 psig
01-01-90	12:10:00	22.167	2905.97	1111.19	232.09		
01-01-90	12:20:00	22.333	2906.94	1112.16	232.14		
01-01-90	12:30:00	22.500	2907.60	1112.82	232.19		
01-01-90	12:40:00	22.667	2908.35	1113.57	232.23		
01-01-90	12:50:00	22.833	2908.95	1114.17	232.27		
01-01-90	13:00:00	23.000	2909.62	1114.84	232.30		
01-01-90	13:10:00	23.167	2910.21	1115.43	232.30		
01-01-90	13:20:00	23.333	2910.73	1115.95	232.31		
01-01-90	13:30:00	23.500	2911.34	1116.56	232.31		
01-01-90	13:40:00	23.667	2911.89	1117.11	232.30		
01-01-90	13:50:00	23.833	2912.41	1117.63	232.29		
01-01-90	14:00:00	24.000	2912.93	1118.15	232.30		
01-01-90	14:10:00	24.167	2913.27	1118.49	232.29		
01-01-90	14:20:00	24.333	2913.75	1118.97	232.29		
01-01-90	14:30:00	24.500	2914.15	1119.37	232.29		
01-01-90	14:40:00	24.667	2914.54	1119.76	232.29		
01-01-90	14:50:00	24.833	2914.99	1120.21	232.27		
01-01-90	15:00:00	25.000	2915.37	1120.59	232.25		
01-01-90	15:10:00	25.167	2913.98	1119.20	232.20		Grease pump fails
01-01-90	15:20:00	25.333	2912.35	1117.57	232.05		
01-01-90	15:30:00	25.500	2914.07	1119.29	232.03		
01-01-90	15:40:00	25.667	2914.14	1119.36	232.01		
01-01-90	15:50:00	25.833	2914.32	1119.54	231.98		
01-01-90	16:00:00	26.000	2914.35	1119.57	231.97	2294	Csg = 37 psig
01-01-90	16:10:00	26.167	2914.64	1119.86	231.97		
01-01-90	16:20:00	26.333	2914.81	1120.03	231.10		
01-01-90	16:30:00	26.500	2914.98	1120.20	232.01		
01-01-90	16:40:00	26.667	2915.12	1120.34	232.04		
01-01-90	16:50:00	26.833	2915.36	1120.58	232.07		
01-01-90	17:00:00	27.000	2915.86	1121.08	232.09		
01-01-90	17:10:00	27.167	2917.31	1122.53	232.09		
01-01-90	17:20:00	27.333	2917.98	1123.20	232.19		
01-01-90	17:30:00	27.500	2918.43	1123.65	232.20		
01-01-90	17:40:00	27.667	2918.87	1124.09	232.21		
01-01-90	17:50:00	27.833	2919.33	1124.55	232.21		
01-01-90	18:00:00	28.000	2919.69	1124.91	232.17		
01-01-90	18:10:00	28.167	2920.02	1125.24	232.14		
01-01-90	18:20:00	28.333	2920.32	1125.54	232.09		
01-01-90	18:30:00	28.500	2920.67	1125.89	232.04		
01-01-90	18:40:00	28.667	2920.96	1126.18	231.99		
01-01-90	18:50:00	28.833	2920.04	1125.26	231.87		Grease pump fails
01-01-90	19:00:00	29.000	2919.87	1125.09	231.81		
01-01-90	19:10:00	29.167	2920.13	1125.35	231.77		
01-01-90	19:20:00	29.333	2921.31	1126.53	231.80		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd DATE: 01-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
01-01-90	19:30:00	29.500	2921.83	1127.05	231.81		
01-01-90	19:40:00	29.667	2922.24	1127.46	231.80		
01-01-90	19:50:00	29.833	2922.62	1127.84	231.78		
01-01-90	20:00:00	30.000	2922.95	1128.17	231.75	2299	Csg = 36 psig
01-01-90	20:10:00	30.167	2923.23	1128.45	231.73		
01-01-90	20:20:00	30.333	2923.62	1128.84	231.70		
01-01-90	20:30:00	30.500	2923.82	1129.04	231.68		
01-01-90	20:40:00	30.667	2924.08	1129.30	231.66		
01-01-90	20:50:00	30.833	2924.36	1129.58	231.65		
01-01-90	21:00:00	31.000	2924.60	1129.82	231.63		
01-01-90	21:10:00	31.167	2924.80	1130.02	231.62		
01-01-90	21:20:00	31.333	2924.95	1130.17	231.59		
01-01-90	21:30:00	31.500	2925.20	1130.42	231.58		
01-01-90	21:40:00	31.667	2925.53	1130.75	231.58		
01-01-90	21:50:00	31.833	2925.95	1131.17	231.57		
01-01-90	22:00:00	32.000	2926.19	1131.41	231.56		
01-01-90	22:10:00	32.167	2926.46	1131.68	231.55		
01-01-90	22:20:00	32.333	2926.69	1131.91	231.54		
01-01-90	22:30:00	32.500	2926.98	1132.20	231.53		
01-01-90	22:40:00	32.667	2927.21	1132.43	231.50		
01-01-90	22:50:00	32.833	2927.40	1132.62	231.51		
01-01-90	23:00:00	33.000	2927.62	1132.84	231.51		
01-01-90	23:10:00	33.167	2927.96	1133.18	231.50		
01-01-90	23:20:00	33.333	2928.11	1133.33	231.50		
01-01-90	23:30:00	33.500	2928.34	1133.56	231.48	2304	Csg = 33 psig
01-01-90	23:40:00	33.667	2928.41	1133.63	229.84		
01-01-90	23:50:00	33.833	2928.81	1134.03	231.44		
02-01-90	00:00:00	34.000	2928.89	1134.11	229.79	2303	Csg = 36 psig
02-01-90	00:10:00	34.167	2929.38	1134.60	231.39		
02-01-90	00:20:00	34.333	2929.63	1134.85	231.37		
02-01-90	00:30:00	34.500	2929.83	1135.05	231.36		
02-01-90	00:40:00	34.667	2930.08	1135.30	231.35		
02-01-90	00:50:00	34.833	2930.30	1135.52	231.35		
02-01-90	01:00:00	35.000	2930.29	1135.51	229.79		
02-01-90	01:10:00	35.167	2930.72	1135.94	231.34		
02-01-90	01:20:00	35.333	2930.99	1136.21	231.34		
02-01-90	01:30:00	35.500	2931.18	1136.40	231.34		
02-01-90	01:40:00	35.667	2931.49	1136.71	231.33		
02-01-90	01:50:00	35.833	2931.59	1136.81	231.27		
02-01-90	02:00:00	36.000	2931.86	1137.08	231.32		
02-01-90	02:10:00	36.167	2932.11	1137.33	231.32		
02-01-90	02:20:00	36.333	2932.33	1137.55	231.21		
02-01-90	02:30:00	36.500	2932.56	1137.78	231.31		
02-01-90	02:40:00	36.667	2932.79	1138.01	231.31		
02-01-90	02:50:00	36.833	2932.98	1138.20	231.24		
02-01-90	03:00:00	37.000	2933.22	1138.44	231.30		
02-01-90	03:10:00	37.167	2933.33	1138.55	230.96		
02-01-90	03:20:00	37.333	2933.58	1138.80	231.31		
02-01-90	03:30:00	37.500	2933.78	1139.00	231.31		
02-01-90	03:40:00	37.667	2934.05	1139.27	231.31		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd DATE: 02-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
02-01-90	03:50:00	37.833	2934.26	1139.48	231.31		
02-01-90	04:00:00	38.000	2934.52	1139.74	231.30		
02-01-90	04:10:00	38.167	2934.63	1139.85	231.31		
02-01-90	04:20:00	38.333	2934.94	1140.16	231.30		
02-01-90	04:30:00	38.500	2935.06	1140.28	231.24		
02-01-90	04:40:00	38.667	2935.38	1140.60	231.31		
02-01-90	04:50:00	38.833	2935.47	1140.69	231.31		
02-01-90	05:00:00	39.000	2935.75	1140.97	231.32		
02-01-90	05:10:00	39.167	2935.96	1141.18	231.31		
02-01-90	05:20:00	39.333	2936.13	1141.35	231.31		
02-01-90	05:30:00	39.500	2936.35	1141.57	231.26		
02-01-90	05:40:00	39.667	2936.53	1141.75	231.32		
02-01-90	05:50:00	39.833	2936.78	1142.00	231.32		
02-01-90	06:00:00	40.000	2936.94	1142.16	231.32		
02-01-90	06:10:00	40.167	2937.17	1142.39	231.33		
02-01-90	06:20:00	40.333	2937.35	1142.57	231.32		
02-01-90	06:30:00	40.500	2937.58	1142.80	231.32		
02-01-90	06:40:00	40.667	2937.71	1142.93	231.33		
02-01-90	06:50:00	40.833	2937.99	1143.21	231.33		
02-01-90	07:00:00	41.000	2938.09	1143.31	231.33		
02-01-90	07:10:00	41.167	2938.35	1143.57	231.33		
02-01-90	07:20:00	41.333	2938.65	1143.87	231.33		
02-01-90	07:30:00	41.500	2938.75	1143.97	231.33		
02-01-90	07:40:00	41.667	2938.92	1144.14	231.33		
02-01-90	07:50:00	41.833	2939.15	1144.37	231.32		
02-01-90	08:00:00	42.000	2939.39	1144.61	231.33	2310	Csg = 33 psig
02-01-90	08:10:00	42.167	2939.49	1144.71	231.32		
02-01-90	08:20:00	42.333	2939.71	1144.93	231.32		
02-01-90	08:30:00	42.500	2939.91	1145.13	231.32		
02-01-90	08:40:00	42.667	2940.01	1145.23	231.32		
02-01-90	08:50:00	42.833	2940.17	1145.39	231.31		
02-01-90	09:00:00	43.000	2940.46	1145.68	231.31		
02-01-90	09:10:00	43.167	2940.60	1145.82	231.31		
02-01-90	09:20:00	43.333	2940.85	1146.07	231.30		
02-01-90	09:30:00	43.500	2940.93	1146.15	231.30		
02-01-90	09:40:00	43.667	2941.18	1146.40	231.28		
02-01-90	09:50:00	43.833	2941.31	1146.53	231.27		
02-01-90	10:00:00	44.000	2941.51	1146.73	231.27		
02-01-90	10:10:00	44.167	2941.71	1146.93	231.29		
02-01-90	10:20:00	44.333	2941.86	1147.08	231.30		
02-01-90	10:30:00	44.500	2942.04	1147.26	231.30		
02-01-90	10:40:00	44.667	2942.23	1147.45	231.29		
02-01-90	10:50:00	44.833	2942.42	1147.64	231.28		
02-01-90	11:00:00	45.000	2940.66	1145.88	231.23		Change out pump
02-01-90	11:10:00	45.167	2939.56	1144.78	231.17		
02-01-90	11:20:00	45.333	2940.31	1145.53	231.18		
02-01-90	11:30:00	45.500	2941.41	1146.63	231.23		
02-01-90	11:40:00	45.667	2941.90	1147.12	231.24		
02-01-90	11:50:00	45.833	2942.06	1147.28	231.24		
02-01-90	12:00:00	46.000	2942.63	1147.85	231.26	2317	Csg = 35 psig

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 02-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
02-01-90	12:10:00	46.167	2942.99	1148.21	231.25		
02-01-90	12:20:00	46.333	2943.14	1148.36	231.25		
02-01-90	12:30:00	46.500	2943.44	1148.66	231.24		
02-01-90	12:40:00	46.667	2943.60	1148.82	231.23		
02-01-90	12:50:00	46.833	2943.81	1149.03	231.22		
02-01-90	13:00:00	47.000	2944.02	1149.24	231.21		
02-01-90	13:10:00	47.167	2944.18	1149.40	231.19		
02-01-90	13:20:00	47.333	2944.28	1149.50	231.17		
02-01-90	13:30:00	47.500	2944.54	1149.76	231.16		
02-01-90	13:40:00	47.667	2944.73	1149.95	231.16		
02-01-90	13:50:00	47.833	2944.87	1150.09	231.15		
02-01-90	14:00:00	48.000	2945.09	1150.31	231.12		
02-01-90	14:10:00	48.167	2945.29	1150.51	231.11		
02-01-90	14:20:00	48.333	2945.39	1150.61	231.11		
02-01-90	14:30:00	48.500	2945.57	1150.79	231.11		
02-01-90	14:40:00	48.667	2945.65	1150.87	231.10		
02-01-90	14:50:00	48.833	2945.93	1151.15	231.09		
02-01-90	15:00:00	49.000	2946.06	1151.28	231.09		
02-01-90	15:10:00	49.167	2946.22	1151.44	231.07		
02-01-90	15:20:00	49.333	2946.43	1151.65	231.06		
02-01-90	15:30:00	49.500	2946.55	1151.77	231.06		
02-01-90	15:40:00	49.667	2946.70	1151.92	231.05		
02-01-90	15:50:00	49.833	2946.84	1152.06	231.05		
02-01-90	16:00:00	50.000	2947.01	1152.23	231.05	2320	Csg = 36 psig
02-01-90	16:10:00	50.167	2947.23	1152.45	231.05		
02-01-90	16:20:00	50.333	2947.40	1152.62	231.04		
02-01-90	16:30:00	50.500	2947.53	1152.75	231.04		
02-01-90	16:40:00	50.667	2947.74	1152.96	231.03		
02-01-90	16:50:00	50.833	2947.90	1153.12	231.02		
02-01-90	17:00:00	51.000	2948.06	1153.28	231.02		
02-01-90	17:20:00	51.333	2948.38	1153.60	231.00		
02-01-90	17:30:00	51.500	2948.54	1153.76	231.01		
02-01-90	17:40:00	51.667	2948.73	1153.95	230.99		
02-01-90	17:50:00	51.833	2948.82	1154.04	230.99		
02-01-90	18:00:00	52.000	2948.93	1154.15	230.97		
02-01-90	18:10:00	52.167	2949.05	1154.27	230.98		
02-01-90	18:20:00	52.333	2949.25	1154.47	230.97		
02-01-90	18:30:00	52.500	2949.47	1154.69	230.97		
02-01-90	18:40:00	52.667	2949.60	1154.82	230.97		
02-01-90	18:50:00	52.833	2949.70	1154.92	230.95		
02-01-90	19:00:00	53.000	2949.90	1155.12	230.94		
02-01-90	19:10:00	53.167	2950.06	1155.28	230.93		
02-01-90	19:20:00	53.333	2950.15	1155.37	230.92		
02-01-90	19:30:00	53.500	2950.29	1155.51	230.91		
02-01-90	19:40:00	53.667	2950.51	1155.73	230.89		
02-01-90	19:50:00	53.833	2950.63	1155.85	230.88		
02-01-90	20:00:00	54.000	2950.75	1155.97	230.88	2320	Csg = 31 psig
02-01-90	20:10:00	54.167	2950.89	1156.11	230.86		
02-01-90	20:20:00	54.333	2950.98	1156.20	230.85		
02-01-90	20:30:00	54.500	2951.26	1156.48	230.85		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 02-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
02-01-90	20:40:00	54.667	2951.40	1156.62	230.86		
02-01-90	21:20:00	55.333	2951.92	1157.14	230.79		
02-01-90	21:30:00	55.500	2952.09	1157.31	230.79		
02-01-90	21:40:00	55.667	2952.25	1157.47	230.77		
02-01-90	21:50:00	55.833	2952.33	1157.55	230.76		
02-01-90	22:00:00	56.000	2952.53	1157.75	230.75		
02-01-90	22:10:00	56.167	2952.64	1157.86	230.74		
02-01-90	22:20:00	56.333	2952.82	1158.04	230.74		
02-01-90	22:30:00	56.500	2953.02	1158.24	230.74		
02-01-90	22:40:00	56.667	2953.10	1158.32	230.74		
02-01-90	22:50:00	56.833	2953.33	1158.55	230.73		
02-01-90	23:00:00	57.000	2953.45	1158.67	230.73		
02-01-90	23:10:00	57.167	2953.47	1158.69	230.74		
02-01-90	23:20:00	57.333	2953.69	1158.91	230.74		
02-01-90	23:30:00	57.500	2953.84	1159.06	230.74		
02-01-90	23:40:00	57.667	2954.01	1159.23	230.74		
02-01-90	23:50:00	57.833	2954.11	1159.33	230.74		
02-01-90	00:00:00	58.000	2954.17	1159.39	230.75	2321	Csg = 32 psig
02-01-90	00:10:00	58.167	2954.40	1159.62	230.76		
02-01-90	00:20:00	58.333	2954.57	1159.79	230.76		
02-01-90	00:30:00	58.500	2954.71	1159.93	230.78		
02-01-90	00:40:00	58.667	2954.85	1160.07	230.79		
02-01-90	00:50:00	58.833	2955.02	1160.24	230.81		
02-01-90	01:00:00	59.000	2955.21	1160.43	230.80		
02-01-90	01:10:00	59.167	2955.37	1160.59	230.80		
02-01-90	01:20:00	59.333	2955.51	1160.73	230.82		
02-01-90	01:30:00	59.500	2955.63	1160.85	230.82		
02-01-90	01:40:00	59.667	2955.81	1161.03	230.83		
02-01-90	01:50:00	59.833	2955.10	1161.22	230.82		
02-01-90	02:00:00	60.000	2956.13	1161.35	230.84		
02-01-90	02:10:00	60.167	2956.30	1161.52	230.83		
02-01-90	02:20:00	60.333	2956.42	1161.64	230.72		
02-01-90	02:30:00	60.500	2956.55	1161.77	230.84		
02-01-90	02:40:00	60.667	2956.77	1161.99	230.85		
02-01-90	02:50:00	60.833	2956.84	1162.06	230.85		
02-01-90	03:00:00	61.000	2956.97	1162.19	230.39		
02-01-90	03:10:00	61.167	2957.16	1162.38	230.83		
02-01-90	03:20:00	61.333	2957.29	1162.51	230.84		
02-01-90	03:30:00	61.500	2957.44	1162.66	230.84		
02-01-90	03:40:00	61.667	2957.60	1162.82	230.72		
02-01-90	03:50:00	61.833	2957.82	1163.04	230.83		
02-01-90	04:00:00	62.000	2957.96	1163.18	230.84	2323	Csg = 31 psig
02-01-90	04:10:00	62.167	2958.08	1163.30	230.73		
02-01-90	04:20:00	62.333	2958.24	1163.46	230.83		
02-01-90	04:30:00	62.500	2958.45	1163.67	230.83		
02-01-90	04:40:00	62.667	2958.56	1163.78	230.83		
02-01-90	04:50:00	62.833	2958.54	1163.76	229.58		
02-01-90	05:00:00	63.000	2958.86	1164.08	230.83		
02-01-90	05:10:00	63.167	2958.97	1164.19	230.83		
02-01-90	05:20:00	63.333	2959.12	1164.34	230.26		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 02-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
02-01-90	05:30:00	63.500	2959.30	1164.52	230.83		
02-01-90	05:40:00	63.667	2959.47	1164.69	230.82		
02-01-90	05:50:00	63.833	2959.58	1164.80	230.83		
02-01-90	06:00:00	64.000	2959.77	1164.99	230.53		
03-01-90	06:10:00	64.167	2959.88	1165.10	230.82		
03-01-90	06:20:00	64.333	2960.04	1165.26	230.82		
03-01-90	06:30:00	64.500	2960.15	1165.37	230.82		
03-01-90	06:40:00	64.667	2960.40	1165.62	230.81		
03-01-90	06:50:00	64.833	2960.55	1165.77	230.81		
03-01-90	07:00:00	65.000	2960.68	1165.90	230.82		
03-01-90	07:10:00	65.167	2960.81	1166.03	230.81		
03-01-90	07:20:00	65.333	2960.96	1166.18	230.80		
03-01-90	07:30:00	65.500	2961.19	1166.41	230.80		
03-01-90	07:40:00	65.667	2961.31	1166.53	230.79		
03-01-90	07:50:00	65.833	2961.37	1166.59	230.78		
03-01-90	08:00:00	66.000	2961.60	1166.82	230.77	2326	Csg = 31 psig
03-01-90	08:10:00	66.167	2961.71	1166.93	230.74		
03-01-90	08:20:00	66.333	2961.95	1167.17	230.74		
03-01-90	08:30:00	66.500	2962.05	1167.27	230.72		
03-01-90	08:40:00	66.667	2962.20	1167.42	230.71		
03-01-90	08:50:00	66.833	2962.38	1167.60	230.70		
03-01-90	09:00:00	67.000	2962.57	1167.79	230.69		
03-01-90	09:10:00	67.167	2962.65	1167.87	230.67		
03-01-90	09:20:00	67.333	2962.81	1168.03	230.68		
03-01-90	09:30:00	67.500	2962.91	1168.13	230.68		
03-01-90	09:40:00	67.667	2963.15	1168.37	230.67		
03-01-90	09:50:00	67.833	2963.23	1168.45	230.67		
03-01-90	10:00:00	68.000	2963.37	1168.59	230.67		
03-01-90	10:10:00	68.167	2963.51	1168.73	230.66		
03-01-90	10:20:00	68.333	2963.63	1168.85	230.66		
03-01-90	10:30:00	68.500	2963.73	1168.95	230.65		
03-01-90	10:40:00	68.667	2963.91	1169.13	230.67		
03-01-90	10:50:00	68.833	2963.94	1169.16	230.68		
03-01-90	11:00:00	69.000	2964.11	1169.33	230.69		
03-01-90	11:10:00	69.167	2964.30	1169.52	230.70		
03-01-90	11:20:00	69.333	2964.43	1169.65	230.71		
03-01-90	11:30:00	69.500	2964.49	1169.71	230.71		
03-01-90	11:40:00	69.667	2964.70	1169.92	230.71		
03-01-90	11:50:00	69.833	2964.82	1170.04	230.72		
03-01-90	12:00:00	70.000	2964.90	1170.12	230.74	2336	Csg = 35 psig
03-01-90	12:10:00	70.167	2965.11	1170.33	230.76		
03-01-90	12:20:00	70.333	2965.28	1170.50	230.77		
03-01-90	12:30:00	70.500	2965.21	1170.43	230.78		
03-01-90	12:40:00	70.667	2965.52	1170.74	230.79		
03-01-90	12:50:00	70.833	2965.76	1170.98	230.81		
03-01-90	13:00:00	71.000	2965.86	1171.08	230.82		
03-01-90	13:10:00	71.167	2966.06	1171.28	230.81		
03-01-90	13:20:00	71.333	2966.16	1171.38	230.81		
03-01-90	13:30:00	71.500	2966.26	1171.48	230.82		
03-01-90	13:40:00	71.667	2966.38	1171.60	230.83		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 03-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
03-01-90	13:50:00	71.833	2966.51	1171.73	230.84		
03-01-90	14:00:00	72.000	2966.72	1171.94	230.84		
03-01-90	14:10:00	72.167	2966.91	1172.13	230.84		
03-01-90	14:20:00	72.333	2967.03	1172.25	230.84		
03-01-90	14:30:00	72.500	2967.23	1172.45	230.84		
03-01-90	14:40:00	72.667	2967.35	1172.57	230.83		
03-01-90	14:50:00	72.833	2967.42	1172.64	230.84		
03-01-90	15:00:00	73.000	2967.59	1172.81	230.83		
03-01-90	15:10:00	73.167	2967.71	1172.93	230.84		
03-01-90	15:20:00	73.333	2967.91	1173.13	230.84		
03-01-90	15:30:00	73.500	2967.98	1173.20	230.84		
03-01-90	15:40:00	73.667	2968.18	1173.40	230.83		
03-01-90	15:50:00	73.833	2968.37	1173.59	230.81		
03-01-90	16:00:00	74.000	2968.43	1173.65	230.81	2337	Csg = 31 psig
03-01-90	16:10:00	74.167	2968.64	1173.86	230.80		
03-01-90	16:20:00	74.333	2968.68	1173.90	230.80		
03-01-90	16:30:00	74.500	2968.77	1173.99	230.80		
03-01-90	16:40:00	74.667	2968.98	1174.20	230.80		
03-01-90	16:50:00	74.833	2969.06	1174.28	230.80		
03-01-90	17:00:00	75.000	2969.22	1174.44	230.78		
03-01-90	17:10:00	75.167	2969.37	1174.59	230.78		
03-01-90	17:20:00	75.333	2969.49	1174.71	230.78		
03-01-90	17:30:00	75.500	2969.63	1174.85	230.78		
03-01-90	17:40:00	75.667	2969.78	1174.10	230.78		
03-01-90	17:50:00	75.833	2969.87	1175.09	230.77		
03-01-90	18:00:00	76.000	2970.01	1175.23	230.75		
03-01-90	18:10:00	76.167	2970.18	1175.40	230.73		
03-01-90	18:20:00	76.333	2970.35	1175.57	230.73		
03-01-90	18:30:00	76.500	2970.50	1175.72	230.70		
03-01-90	18:40:00	76.667	2970.64	1175.86	230.69		
03-01-90	18:50:00	76.833	2970.76	1175.98	230.68		
03-01-90	19:00:00	77.000	2970.89	1176.11	230.66		
03-01-90	19:10:00	77.167	2971.01	1176.23	230.64		
03-01-90	19:20:00	77.333	2971.13	1176.35	230.63		
03-01-90	19:30:00	77.500	2971.31	1176.53	230.60		
03-01-90	19:40:00	77.667	2971.32	1176.54	230.59		
03-01-90	19:50:00	77.833	2971.54	1176.76	230.57		
03-01-90	20:00:00	78.000	2971.62	1176.84	230.55	2339	Csg = 34 psig
03-01-90	20:10:00	78.167	2971.84	1177.06	230.51		
03-01-90	20:20:00	78.333	2971.87	1177.09	230.49		
03-01-90	20:30:00	78.500	2972.02	1177.24	230.47		
03-01-90	20:40:00	78.667	2972.14	1177.36	230.46		
03-01-90	20:50:00	78.833	2972.26	1177.48	230.45		
03-01-90	21:00:00	79.000	2972.43	1177.65	230.42		
03-01-90	21:10:00	79.167	2972.42	1177.64	230.44		
03-01-90	21:20:00	79.333	2972.65	1177.87	230.45		
03-01-90	21:30:00	79.500	2972.74	1177.96	230.45		
03-01-90	21:40:00	79.667	2972.89	1178.11	230.45		
03-01-90	21:50:00	79.833	2973.04	1178.26	230.45		
03-01-90	22:00:00	80.000	2973.11	1178.33	230.45		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 03-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
03-01-90	22:10:00	80.167	2973.33	1178.55	230.43		
03-01-90	22:20:00	80.333	2973.45	1178.67	230.43		
03-01-90	22:30:00	80.500	2973.55	1178.77	230.42		
03-01-90	22:50:00	80.833	2973.80	1179.02	230.42		
03-01-90	23:00:00	81.000	2973.95	1179.17	230.42		
03-01-90	23:10:00	81.167	2974.05	1179.27	230.42		
03-01-90	23:30:00	81.500	2974.34	1179.56	230.42		
03-01-90	23:40:00	81.667	2974.44	1179.66	230.42		
03-01-90	23:50:00	81.833	2974.56	1179.78	230.36		
04-01-90	00:00:00	82.000	2974.66	1179.88	230.42	2338	Csg = 31 psig
04-01-90	00:10:00	82.167	2974.77	1179.99	229.79		
04-01-90	00:20:00	82.333	2974.98	1180.20	230.40		
04-01-90	00:30:00	82.500	2975.07	1180.29	230.41		
04-01-90	00:40:00	82.667	2975.21	1180.43	230.41		
04-01-90	00:50:00	82.833	2975.34	1180.56	230.42		
04-01-90	01:00:00	83.000	2975.51	1180.73	230.42		
04-01-90	01:10:00	83.167	2975.60	1180.82	230.43		
04-01-90	01:20:00	83.333	2975.74	1180.96	230.44		
04-01-90	01:30:00	83.500	2975.84	1181.06	230.45		
04-01-90	01:40:00	83.667	2976.01	1181.23	230.45		
04-01-90	01:50:00	83.833	2976.11	1181.33	230.46		
04-01-90	02:00:00	84.000	2975.78	1181.00	227.97		
04-01-90	02:10:00	84.167	2976.33	1181.55	230.47		
04-01-90	02:20:00	84.333	2976.02	1181.24	228.05		
04-01-90	02:30:00	84.500	2976.55	1181.77	230.48		
04-01-90	02:40:00	84.667	2976.72	1181.94	230.48		
04-01-90	02:50:00	84.833	2976.80	1182.02	230.49		
04-01-90	03:00:00	85.000	2976.66	1181.88	227.58		
04-01-90	03:10:00	85.167	2977.18	1182.40	230.49		
04-01-90	03:20:00	85.333	2976.10	1182.22	228.15		
04-01-90	03:30:00	85.500	2977.43	1182.65	230.47		
04-01-90	03:40:00	85.667	2977.60	1182.82	230.46		
04-01-90	03:50:00	85.833	2977.66	1182.88	230.45		
04-01-90	04:00:00	86.000	2977.77	1182.99	230.43		
04-01-90	04:10:00	86.167	2977.96	1183.18	230.40		
04-01-90	04:20:00	86.333	2978.07	1183.29	230.39		
04-01-90	04:30:00	86.500	2978.16	1183.38	230.37		
04-01-90	04:40:00	86.667	2978.33	1183.55	230.35		
04-01-90	04:50:00	86.833	2978.47	1183.69	230.34		
04-01-90	05:00:00	87.000	2978.59	1183.81	230.33		
04-01-90	05:10:00	87.167	2978.64	1183.86	230.31		
04-01-90	05:20:00	87.333	2978.79	1184.01	230.30		
04-01-90	05:30:00	87.500	2978.90	1184.12	230.29		
04-01-90	05:40:00	87.667	2978.98	1184.20	230.30		
04-01-90	05:50:00	87.833	2979.09	1184.31	230.32		
04-01-90	06:00:00	88.000	2979.28	1184.50	230.33		
04-01-90	06:10:00	88.167	2979.39	1184.61	230.33		
04-01-90	06:20:00	88.333	2979.58	1184.80	230.30		
04-01-90	06:30:00	88.500	2979.68	1184.90	230.27		
04-01-90	06:40:00	88.667	2979.73	1184.95	230.24		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 04-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-90	06:50:00	88.833	2979.93	1185.15	230.23		
04-01-90	07:00:00	89.000	2980.03	1185.25	230.22		
04-01-90	07:10:00	89.167	2980.17	1185.39	230.22		
04-01-90	07:20:00	89.333	2980.29	1185.51	230.22		
04-01-90	07:30:00	89.500	2980.47	1185.69	230.23		
04-01-90	07:40:00	89.667	2980.53	1185.75	230.24		
04-01-90	07:50:00	89.833	2980.75	1185.97	230.25		
04-01-90	08:00:00	90.000	2980.81	1186.03	230.25	2340	Csg = 31 psig
04-01-90	08:10:00	90.167	2980.98	1186.20	230.26		
04-01-90	08:20:00	90.333	2981.10	1186.32	230.26		
04-01-90	08:30:00	90.500	2981.24	1186.46	230.27		
04-01-90	08:40:00	90.667	2981.26	1186.48	230.28		
04-01-90	08:50:00	90.833	2981.39	1186.61	230.30		
04-01-90	09:00:00	91.000	2981.60	1186.82	230.31		
04-01-90	09:10:00	91.167	2981.66	1186.88	230.32		
04-01-90	09:20:00	91.333	2981.84	1187.06	230.34		
04-01-90	09:30:00	91.500	2981.93	1187.15	230.35		
04-01-90	09:40:00	91.667	2982.17	1187.39	230.37		
04-01-90	09:50:00	91.833	2982.21	1187.43	230.38		
04-01-90	10:00:00	92.000	2982.39	1187.61	230.40		
04-01-90	10:10:00	92.167	2982.50	1187.72	230.43		
04-01-90	10:20:00	92.333	2982.64	1187.86	230.44		
04-01-90	10:30:00	92.500	2982.79	1188.01	230.46		
04-01-90	10:40:00	92.667	2982.93	1188.15	230.48		
04-01-90	10:50:00	92.833	2983.05	1188.27	230.49		
04-01-90	11:00:00	93.000	2983.18	1188.40	230.51		
04-01-90	11:10:00	93.167	2983.29	1188.51	230.51		
04-01-90	11:20:00	93.333	2983.44	1188.66	230.53		
04-01-90	11:30:00	93.500	2983.55	1188.77	230.55		
04-01-90	11:40:00	93.667	2983.72	1188.94	230.56		
04-01-90	11:50:00	93.833	2983.83	1189.05	230.57		
04-01-90	12:00:00	94.000	2983.96	1189.18	230.58	2348	Csg = 33 psig
04-01-90	12:10:00	94.167	2984.09	1189.31	230.60		
04-01-90	12:20:00	94.333	2984.13	1189.35	230.61		
04-01-90	12:30:00	94.500	2984.35	1189.57	230.62		
04-01-90	12:40:00	94.667	2984.47	1189.69	230.62		
04-01-90	12:50:00	94.833	2984.59	1189.81	230.63		
04-01-90	13:00:00	95.000	2984.78	1189.10	230.64		
04-01-90	13:10:00	95.167	2984.86	1190.08	230.63		
04-01-90	13:20:00	95.333	2985.03	1190.25	230.63		
04-01-90	13:30:00	95.500	2985.14	1190.36	230.64		
04-01-90	13:40:00	95.667	2985.34	1190.56	230.65		
04-01-90	13:50:00	95.833	2985.34	1190.56	230.66		
04-01-90	14:00:00	96.000	2985.58	1190.80	230.67		
04-01-90	14:10:00	96.167	2985.66	1190.88	230.68		
04-01-90	14:20:00	96.333	2985.79	1191.01	230.68		
04-01-90	14:30:00	96.500	2985.92	1191.14	230.67		
04-01-90	14:40:00	96.667	2986.06	1191.28	230.66		
04-01-90	14:50:00	96.833	2986.17	1191.39	230.66		
04-01-90	15:00:00	97.000	2986.30	1191.52	230.66		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 04-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-90	15:10:00	97.167	2986.46	1191.68	230.66		
04-01-90	15:20:00	97.333	2986.54	1191.76	230.66		
04-01-90	15:30:00	97.500	2986.68	1191.90	230.65		
04-01-90	15:40:00	97.667	2986.88	1192.09	230.63		
04-01-90	15:50:00	97.833	2987.06	1192.28	230.63		
04-01-90	16:00:00	98.000	2986.10	1192.22	230.63	2352	Csg = 33 psig
04-01-90	16:10:00	98.167	2987.23	1192.45	230.61		
04-01-90	16:20:00	98.333	2987.32	1192.54	230.60		
04-01-90	16:30:00	98.500	2987.49	1192.71	230.59		
04-01-90	16:40:00	98.667	2987.49	1192.71	230.60		
04-01-90	16:50:00	98.833	2987.69	1192.91	230.59		
04-01-90	17:00:00	99.000	2987.78	1192.10	230.58		
04-01-90	17:10:00	99.167	2987.91	1193.13	230.59		
04-01-90	17:20:00	99.333	2988.08	1193.30	230.59		
04-01-90	17:30:00	99.500	2988.19	1193.41	230.59		
04-01-90	17:40:00	99.667	2988.30	1193.52	230.59		
04-01-90	17:50:00	99.833	2988.49	1193.71	230.59		
04-01-90	18:00:00	100.000	2988.62	1193.84	230.60		
04-01-90	18:10:00	100.167	2988.67	1193.89	230.60		
04-01-90	18:20:00	100.333	2988.76	1193.98	230.60		
04-01-90	18:30:00	100.500	2988.87	1194.09	230.60		
04-01-90	18:40:00	100.667	2989.05	1194.27	230.59		
04-01-90	18:50:00	100.833	2989.22	1194.44	230.59		
04-01-90	19:00:00	101.000	2989.29	1194.51	230.60		
04-01-90	19:10:00	101.167	2989.40	1194.61	230.60		
04-01-90	19:20:00	101.333	2989.53	1194.75	230.60		
04-01-90	19:30:00	101.500	2989.68	1194.90	230.60		
04-01-90	19:40:00	101.667	2989.77	1194.99	230.61		
04-01-90	19:50:00	101.833	2989.90	1195.12	230.62		
04-01-90	20:00:00	102.000	2989.98	1195.20	230.63	2350	Csg = 34 psig
04-01-90	20:10:00	102.167	2990.08	1195.30	230.65		
04-01-90	20:20:00	102.333	2990.20	1195.42	230.66		
04-01-90	20:30:00	102.500	2990.34	1195.56	230.67		
04-01-90	20:40:00	102.667	2990.40	1195.62	230.69		
04-01-90	20:50:00	102.833	2990.58	1195.80	230.70		
04-01-90	21:00:00	103.000	2990.73	1195.95	230.72		
04-01-90	21:10:00	103.167	2990.85	1196.08	230.74		
04-01-90	21:20:00	103.333	2990.92	1196.14	230.75		
04-01-90	21:30:00	103.500	2991.14	1196.36	230.76		
04-01-90	21:40:00	103.667	2991.15	1196.37	230.78		
04-01-90	21:50:00	103.833	2991.30	1196.52	230.78		
04-01-90	22:00:00	104.000	2991.40	1196.62	230.79		
04-01-90	22:10:00	104.167	2991.55	1196.77	230.80		
04-01-90	22:20:00	104.333	2991.67	1196.89	230.81		
04-01-90	22:30:00	104.500	2991.81	1197.03	230.82		
04-01-90	22:40:00	104.667	2991.81	1197.03	230.82		
04-01-90	22:50:00	104.833	2992.01	1197.23	230.82		
04-01-90	23:00:00	105.000	2992.08	1197.30	230.83		
04-01-90	23:10:00	105.167	2992.14	1197.36	230.85		
04-01-90	23:20:00	105.333	2992.18	1197.40	230.84		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 04-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-90	23:30:00	105.500	2992.35	1197.57	230.82		
04-01-90	23:40:00	105.667	2992.44	1197.66	230.80		
04-01-90	23:50:00	105.833	2992.56	1197.78	230.80		
04-01-90	00:00:00	106.000	2992.60	1197.82	230.79	2350	Csg = 32 psig
04-01-90	00:10:00	106.167	2992.69	1197.91	230.78		
04-01-90	00:20:00	106.333	2992.83	1198.05	230.78		
04-01-90	00:30:00	106.500	2992.91	1198.13	230.77		
04-01-90	00:40:00	106.667	2993.05	1198.27	230.77		
04-01-90	00:50:00	106.833	2993.15	1198.37	230.76		
04-01-90	01:00:00	107.000	2993.24	1198.46	230.75		
04-01-90	01:10:00	107.167	2993.29	1198.51	230.75		
04-01-90	01:20:00	107.333	2993.40	1198.62	230.75		
04-01-90	01:30:00	107.500	2993.57	1198.79	230.74		
04-01-90	01:40:00	107.667	2993.62	1198.84	230.74		
04-01-90	01:50:00	107.833	2993.67	1198.89	230.73		
04-01-90	02:00:00	108.000	2993.77	1198.99	230.72		
04-01-90	02:10:00	108.167	2993.95	1199.17	230.71		
04-01-90	02:20:00	108.333	2993.94	1199.16	230.71		
04-01-90	02:30:00	108.500	2994.07	1199.29	230.70		
04-01-90	02:40:00	108.667	2994.16	1199.38	230.69		
04-01-90	02:50:00	108.833	2994.31	1199.53	230.67		
04-01-90	03:00:00	109.000	2994.42	1199.64	230.67		
04-01-90	03:10:00	109.167	2994.43	1199.65	230.65		
04-01-90	03:20:00	109.333	2994.58	1199.81	230.64		
04-01-90	03:30:00	109.500	2994.69	1199.91	230.64		
04-01-90	03:40:00	109.667	2994.73	1199.95	230.64		
04-01-90	03:50:00	109.833	2994.84	1200.06	230.62		
04-01-90	04:00:00	110.000	2995.02	1200.24	230.60	2352	Csg = 31 psig
04-01-90	04:10:00	110.167	2995.06	1200.28	230.60		
04-01-90	04:20:00	110.333	2994.98	1200.20	229.43		
04-01-90	04:30:00	110.500	2995.00	1200.22	228.51		
04-01-90	04:40:00	110.667	2995.37	1200.59	230.57		
04-01-90	04:50:00	110.833	2995.14	1200.36	227.76		
04-01-90	05:00:00	111.000	2995.54	1200.76	230.56		
04-01-90	05:10:00	111.167	2995.68	1200.90	230.54		
04-01-90	05:20:00	111.333	2995.81	1201.03	230.55		
04-01-90	05:30:00	111.500	2995.86	1201.08	230.54		
04-01-90	05:40:00	111.667	2995.92	1201.14	230.54		
04-01-90	05:50:00	111.833	2996.03	1201.25	230.53		
04-01-90	06:00:00	112.000	2995.82	1201.04	228.05		
05-01-90	06:10:00	112.167	2996.22	1201.44	230.51		
05-01-90	06:20:00	112.333	2996.31	1201.53	230.51		
05-01-90	06:30:00	112.500	2996.48	1201.70	230.47		
05-01-90	06:40:00	112.667	2996.59	1201.81	230.42		
05-01-90	06:50:00	112.833	2996.58	1201.80	230.40		
05-01-90	07:00:00	113.000	2996.78	1202.00	230.38		
05-01-90	07:10:00	113.167	2996.81	1202.03	230.35		
05-01-90	07:20:00	113.333	2996.96	1202.18	230.34		
05-01-90	07:30:00	113.500	2997.06	1202.28	230.32		
05-01-90	07:40:00	113.667	2997.17	1202.39	230.30		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 05-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-90	07:50:00	113.833	2997.28	1202.50	230.29		
05-01-90	08:00:00	114.000	2997.27	1202.49	230.28	2352	Csg = 32 psig
05-01-90	08:10:00	114.167	2997.41	1202.63	230.29		
05-01-90	08:20:00	114.333	2997.41	1202.63	230.29		
05-01-90	08:30:00	114.500	2997.58	1202.80	230.31		
05-01-90	08:40:00	114.667	2997.64	1202.86	230.33		
05-01-90	08:50:00	114.833	2997.81	1203.03	230.35		
05-01-90	09:00:00	115.000	2997.89	1203.11	230.37		
05-01-90	09:10:00	115.167	2997.99	1203.21	230.40		
05-01-90	09:20:00	115.333	2998.03	1203.25	230.41		
05-01-90	09:30:00	115.500	2998.15	1203.37	230.44		
05-01-90	09:40:00	115.667	2998.24	1203.46	230.47		
05-01-90	09:50:00	115.833	2998.26	1203.48	230.51		
05-01-90	10:00:00	116.000	2998.38	1203.60	230.54		
05-01-90	10:10:00	116.167	2998.48	1203.70	230.58		
05-01-90	10:20:00	116.333	2998.58	1203.80	230.60		
05-01-90	10:30:00	116.500	2998.68	1203.90	230.61		
05-01-90	10:40:00	116.667	2998.80	1204.02	230.63		
05-01-90	10:50:00	116.833	2998.87	1204.09	230.64		
05-01-90	11:00:00	117.000	2998.98	1204.20	230.65		
05-01-90	11:10:00	117.167	2999.10	1204.32	230.64		
05-01-90	11:20:00	117.333	2999.22	1204.44	230.65		
05-01-90	11:30:00	117.500	2999.31	1204.53	230.65		
05-01-90	11:40:00	117.667	2999.33	1204.55	230.66		
05-01-90	11:50:00	117.833	2999.54	1204.76	230.66		
05-01-90	12:00:00	118.000	2999.49	1204.71	230.67	2359	Csg = 34 psig
05-01-90	12:10:00	118.167	2999.66	1204.88	230.67		
05-01-90	12:20:00	118.333	2999.85	1205.07	230.67		
05-01-90	12:30:00	118.500	2999.88	1205.10	230.66		
05-01-90	12:40:00	118.667	2999.95	1205.17	230.66		
05-01-90	12:50:00	118.833	3000.06	1205.28	230.65		
05-01-90	13:00:00	119.000	3000.17	1205.39	230.65		
05-01-90	13:10:00	119.167	3000.24	1205.46	230.63		
05-01-90	13:20:00	119.333	3000.36	1205.58	230.62		
05-01-90	13:30:00	119.500	3000.47	1205.69	230.62		
05-01-90	13:40:00	119.667	3000.48	1205.70	230.62		
05-01-90	13:50:00	119.833	3000.62	1205.84	230.62		
05-01-90	14:00:00	120.000	3000.70	1205.92	230.63		
05-01-90	14:10:00	120.167	3000.82	1206.04	230.63		
05-01-90	14:20:00	120.333	3000.93	1206.15	230.63		
05-01-90	14:30:00	120.500	3000.99	1206.21	230.63		
05-01-90	14:40:00	120.667	3001.04	1206.27	230.63		
05-01-90	14:50:00	120.833	3001.13	1206.35	230.63		
05-01-90	15:00:00	121.000	3001.26	1206.48	230.61		
05-01-90	15:10:00	121.167	3001.33	1206.55	230.61		
05-01-90	15:20:00	121.333	3001.44	1206.66	230.61		
05-01-90	15:30:00	121.500	3001.56	1206.78	230.61		
05-01-90	15:40:00	121.667	3001.62	1206.84	230.59		
05-01-90	15:50:00	121.833	3001.76	1206.98	230.59		
05-01-90	16:00:00	122.000	3001.84	1207.06	230.58	2363	Csg = 33 psig

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 05-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-90	16:10:00	122.167	3001.91	1207.13	230.57		
05-01-90	16:20:00	122.333	3002.00	1207.22	230.56		
05-01-90	16:30:00	122.500	3002.05	1207.27	230.57		
05-01-90	16:40:00	122.667	3002.07	1207.29	230.57		
05-01-90	16:50:00	122.833	3002.22	1207.44	230.56		
05-01-90	17:00:00	123.000	3002.32	1207.54	230.56		
05-01-90	17:10:00	123.167	3002.42	1207.64	230.56		
05-01-90	17:20:00	123.333	3002.48	1207.70	230.56		
05-01-90	17:30:00	123.500	3002.59	1207.81	230.56		
05-01-90	17:40:00	123.667	3002.60	1207.82	230.55		
05-01-90	17:50:00	123.833	3002.72	1207.94	230.54		
05-01-90	18:00:00	124.000	3002.83	1208.05	230.54		
05-01-90	18:10:00	124.167	3002.77	1207.99	230.54		
05-01-90	18:20:00	124.333	3002.83	1208.05	230.49		
05-01-90	18:30:00	124.500	3002.81	1208.03	230.46		
05-01-90	18:40:00	124.667	3002.83	1208.05	230.46		
05-01-90	18:50:00	124.833	3002.91	1208.13	230.45		
05-01-90	19:00:00	125.000	3002.92	1208.14	230.46		
05-01-90	19:10:00	125.167	3002.98	1208.20	230.46		
05-01-90	19:20:00	125.333	3003.05	1208.27	230.45		
05-01-90	19:30:00	125.500	3003.15	1208.37	230.46		
05-01-90	19:40:00	125.667	3003.24	1208.46	230.44		
05-01-90	19:50:00	125.833	3003.25	1208.47	230.44		
05-01-90	20:00:00	126.000	3003.37	1208.59	230.43	2365	Csg = 33 psig
05-01-90	20:10:00	126.167	3003.36	1208.58	230.44		
05-01-90	20:20:00	126.333	3003.43	1208.65	230.42		
05-01-90	20:30:00	126.500	3003.42	1208.64	230.42		
05-01-90	20:40:00	126.667	3003.46	1208.68	230.43		
05-01-90	20:50:00	126.833	3003.48	1208.70	230.44		
05-01-90	21:00:00	127.000	3003.48	1208.70	230.44		
05-01-90	21:10:00	127.167	3003.55	1208.77	230.44		
05-01-90	21:20:00	127.333	3003.57	1208.79	230.43		
05-01-90	21:30:00	127.500	3003.57	1208.79	230.45		
05-01-90	21:40:00	127.667	3003.62	1208.84	230.45		
05-01-90	21:50:00	127.833	3003.87	1209.09	230.49		
05-01-90	22:00:00	128.000	3003.91	1209.13	230.53		
05-01-90	22:10:00	128.167	3004.06	1209.28	230.54		
05-01-90	22:20:00	128.333	3004.05	1209.27	230.55		
05-01-90	22:30:00	128.500	3004.19	1209.41	230.57		
05-01-90	22:40:00	128.667	3004.24	1209.46	230.59		
05-01-90	22:50:00	128.833	3004.39	1209.61	230.59		
05-01-90	23:00:00	129.000	3004.55	1209.77	230.60		
05-01-90	23:10:00	129.167	3004.53	1209.75	230.61		
05-01-90	23:20:00	129.333	3004.64	1209.86	230.62		
05-01-90	23:30:00	129.500	3004.75	1209.97	230.62		
05-01-90	23:40:00	129.667	3004.91	1210.13	230.62		
05-01-90	23:50:00	129.833	3004.99	1210.21	230.63		
05-01-90	00:00:00	130.000	3005.06	1210.28	230.63	2364	Csg = 32 psig
05-01-90	00:10:00	130.167	3005.17	1210.39	230.63		
05-01-90	00:20:00	130.333	3005.25	1210.47	230.64		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 06-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: 7650'KB
COMMENTS : Final build up . Shut in @ 14:00 hrs 31/12/89

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-90	00:30:00	130.500	3005.19	1210.41	230.63		
06-01-90	00:40:00	130.667	3005.29	1210.51	230.63		
06-01-90	00:50:00	130.833	3005.41	1210.63	230.63		
06-01-90	01:00:00	131.000	3005.38	1210.60	230.64		
06-01-90	01:10:00	131.167	3005.31	1210.53	230.63		
06-01-90	01:20:00	131.333	3005.52	1210.74	230.64		
06-01-90	01:30:00	131.500	3005.56	1210.78	230.64		
06-01-90	01:40:00	131.667	3005.72	1210.94	230.63		
06-01-90	01:50:00	131.833	3005.51	1210.73	229.64		
06-01-90	02:00:00	132.000	3005.80	1211.02	230.61		
06-01-90	02:10:00	132.167	3005.73	1210.95	230.03		
06-01-90	02:20:00	132.333	3005.91	1211.13	230.58		
06-01-90	02:30:00	132.500	3005.78	1210.10	229.22		
06-01-90	02:40:00	132.667	3006.06	1211.28	230.56		
06-01-90	02:50:00	132.833	3005.62	1210.84	227.64		
06-01-90	03:00:00	133.000	3006.10	1211.32	230.55		
06-01-90	03:10:00	133.167	3006.24	1211.46	230.55		
06-01-90	03:20:00	133.333	3006.24	1211.46	230.53		
06-01-90	03:30:00	133.500	3006.39	1211.61	230.52		
06-01-90	03:40:00	133.667	3006.49	1211.71	230.52		
06-01-90	03:50:00	133.833	3006.54	1211.76	230.51		
06-01-90	04:00:00	134.000	3006.61	1211.83	230.50	2363	Csg = 33 psig
06-01-90	04:10:00	134.167	3006.39	1211.61	228.74		
06-01-90	04:20:00	134.333	3006.67	1211.89	230.49		
06-01-90	04:30:00	134.500	3006.53	1211.75	228.47		
06-01-90	04:40:00	134.667	3006.83	1212.05	230.48		
06-01-90	04:50:00	134.833	3006.92	1212.14	230.47		
06-01-90	05:00:00	135.000	3006.61	1211.83	227.31		
06-01-90	05:10:00	135.167	3007.02	1212.24	230.46		
06-01-90	05:20:00	135.333	3006.79	1212.01	227.77		
06-01-90	05:30:00	135.500	3006.79	1212.01	227.36		
06-01-90	05:40:00	135.667	3007.25	1212.47	230.46	2361	Csg = 32 psig
06-01-90	05:50:00	135.833	3007.37	1212.59	230.48		END BUILD UP
06-01-90	06:00:00	0.000	3007.39	0.02	230.51		START STATIC GRAD.
06-01-90	06:01:00	0.017	3007.39	-0.00	230.51		
06-01-90	06:02:00	0.033	3007.36	-0.03	230.28		
06-01-90	06:03:00	0.050	3007.43	0.07	230.51		1st Stop 7650'KB
06-01-90	06:04:00	0.067	3007.40	-0.03	230.51		[survey depth]
06-01-90	06:05:00	0.083	3007.36	-0.04	230.51		
06-01-90	06:06:00	0.100	3007.39	0.03	230.51		1 min sample rate
06-01-90	06:07:00	0.117	3007.43	0.04	230.46		
06-01-90	06:08:00	0.133	3007.42	-0.01	230.51		Delta T from
06-01-90	06:09:00	0.150	3007.41	-0.02	230.40		start gradient
06-01-90	06:10:00	0.167	3007.45	0.05	230.52		
06-01-90	06:11:00	0.183	3007.44	-0.01	230.52		
06-01-90	06:12:00	0.200	3007.54	0.10	230.52		Pull out of hole
06-01-90	06:18:00	0.300	2995.76	-11.78	231.53		2nd stop 7500'KB
06-01-90	06:23:00	0.383	2994.60	-1.17	232.17		
06-01-90	06:24:00	0.400	2994.65	0.06	232.22		
06-01-90	06:25:00	0.417	2994.73	0.08	232.25		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 06-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: Grad'nt
COMMENTS : Static Gradient pulling out of the hole

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-90	06:26:00	0.433	2994.85	0.11	232.29		
06-01-90	06:27:00	0.450	2995.03	0.19	232.32		
06-01-90	06:28:00	0.467	2995.14	0.11	232.34		
06-01-90	06:29:00	0.483	2995.15	0.00	232.36		
06-01-90	06:30:00	0.500	2995.26	0.12	232.38		
06-01-90	06:31:00	0.517	2995.35	0.09	232.39		
06-01-90	06:32:00	0.533	2995.43	0.08	232.40		
06-01-90	06:33:00	0.550	2995.51	0.08	232.42		
06-01-90	06:34:00	0.567	2995.64	0.13	232.43		Gradient = .079
06-01-90	06:35:00	0.583	2995.64	0.00	232.43		Pull out of hole
06-01-90	06:40:00	0.667	2957.73	-37.91	234.41		3rd stop 7000'KB
06-01-90	07:05:00	1.083	2956.67	-1.06	235.18		
06-01-90	07:06:00	1.100	2956.66	-0.01	235.18		
06-01-90	07:07:00	1.117	2956.68	0.02	235.19		
06-01-90	07:08:00	1.133	2956.74	0.06	235.18		
06-01-90	07:09:00	1.150	2956.72	-0.02	235.19		
06-01-90	07:10:00	1.167	2956.73	0.01	235.19		
06-01-90	07:11:00	1.183	2956.72	-0.01	235.19		Gradient = .079
06-01-90	07:12:00	1.200	2956.74	0.02	235.20		Pull out of hole
06-01-90	07:20:00	1.333	2876.68	-80.06	232.28		4th stop 6000'KB
06-01-90	07:49:00	1.817	2879.58	2.90	230.57		
06-01-90	07:50:00	1.833	2879.58	-0.00	230.56		
06-01-90	07:51:00	1.850	2879.52	-0.06	230.56		
06-01-90	07:52:00	1.867	2879.55	0.03	230.56		
06-01-90	07:53:00	1.883	2879.52	-0.03	230.56		
06-01-90	07:54:00	1.900	2879.60	0.09	230.56		
06-01-90	07:55:00	1.917	2879.54	-0.07	230.56		
06-01-90	07:56:00	1.933	2879.54	0.01	230.55		Gradient = .077
06-01-90	07:57:00	1.950	2879.59	0.05	230.55		Pull out of hole
06-01-90	08:06:00	2.100	2798.29	-81.31	223.62		5th stop 5000'KB
06-01-90	08:26:00	2.433	2802.45	4.16	221.27		
06-01-90	08:27:00	2.450	2802.46	0.01	221.25	2361	Csg = 33 psig
06-01-90	08:28:00	2.467	2802.37	-0.09	221.23		
06-01-90	08:29:00	2.483	2802.43	0.07	221.22		
06-01-90	08:30:00	2.500	2802.42	-0.01	221.20		Gradient = .077
06-01-90	08:31:00	2.517	2802.38	-0.04	221.19		Pull out of hole
06-01-90	08:42:00	2.700	2718.76	-83.62	209.53		6th stop 4000'KB
06-01-90	08:58:00	2.967	2723.77	5.00	206.39		
06-01-90	08:59:00	2.983	2723.75	-0.02	206.35		
06-01-90	09:00:00	3.000	2723.70	-0.05	206.32		
06-01-90	09:01:00	3.017	2723.75	0.06	206.29		
06-01-90	09:02:00	3.033	2723.74	-0.01	206.26		
06-01-90	09:03:00	3.050	2723.66	-0.08	206.24		Gradient = .079
06-01-90	09:04:00	3.067	2723.68	0.02	206.22		Pull out of hole
06-01-90	09:14:00	3.233	2635.09	-88.59	189.90		7th stop 3000'KB
06-01-90	09:15:00	3.250	2636.41	1.32	189.08		
06-01-90	09:27:00	3.450	2639.11	2.70	186.55		
06-01-90	09:28:00	3.467	2639.09	-0.02	186.48		
06-01-90	09:29:00	3.483	2639.11	0.02	186.44		
06-01-90	09:30:00	3.500	2639.16	0.05	186.38		

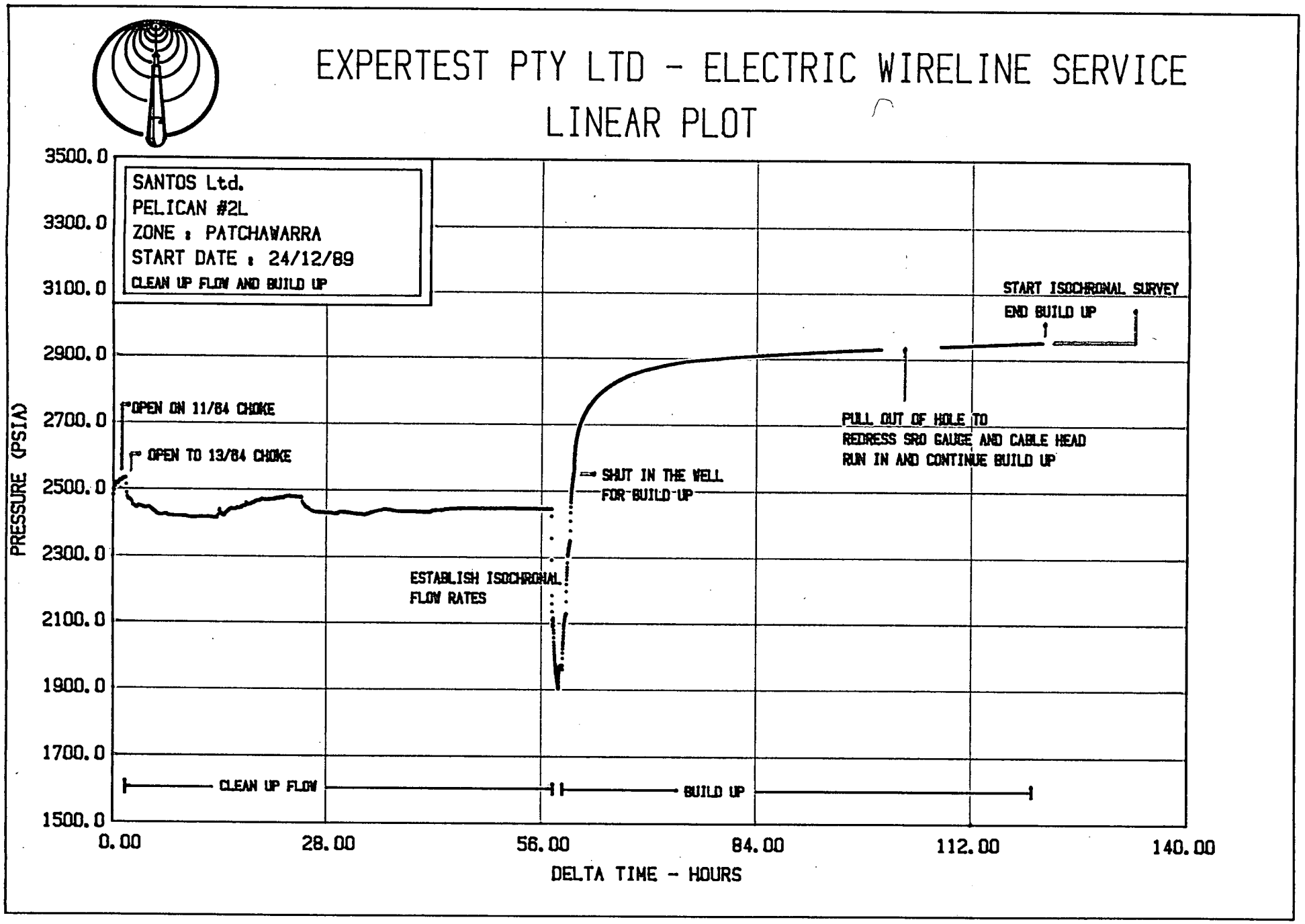
EXPERTEST PTY. LTD.

CUSTOMER : SANTOS Ltd. DATE: 06-01-90 HP GAUGE S/N: 725
LOCATION : PELICAN #2L TEST: Mod. Isochronal OPERATOR: T Chapman
FORMATION: PATCHAWARRA PERFORATIONS: 8127'-8555'KB GAUGE DEPTH: Grad'nt
COMMENTS : Static Gradient pulling out of the hole

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-90	09:31:00	3.517	2639.15	178.60	186.34		
06-01-90	09:32:00	3.533	2639.11	-0.04	186.30		
06-01-90	09:33:00	3.550	2639.15	0.04	186.27		
06-01-90	09:34:00	3.567	2639.10	-0.05	186.24		Gradient = .085
06-01-90	09:35:00	3.583	2639.17	0.07	186.21		Pull out of hole
06-01-90	09:44:00	3.733	2550.29	-88.88	169.84		8th stop 2000'KB
06-01-90	09:57:00	3.950	2551.52	1.23	164.74		
06-01-90	09:58:00	3.967	2551.56	0.04	164.68		
06-01-90	09:59:00	3.983	2551.51	-0.05	164.61		
06-01-90	10:00:00	4.000	2551.54	0.02	164.55		
06-01-90	10:01:00	4.017	2551.55	0.01	164.50		Gradient = .088
06-01-90	10:02:00	4.033	2551.56	0.01	164.45		Pull out of hole
06-01-90	10:12:00	4.200	2460.10	-90.56	145.70		9th stop 1000'KB
06-01-90	10:13:00	4.217	2460.63	-0.37	144.64		
06-01-90	10:14:00	4.233	2460.52	-0.11	143.95		
06-01-90	10:15:00	4.250	2460.54	0.03	143.45		
06-01-90	10:23:00	4.383	2460.51	-0.03	141.66		Birdnest in cable
06-01-90	10:24:00	4.400	2460.57	0.06	141.55		causes line to
06-01-90	10:25:00	4.417	2460.58	0.02	141.47		hang up at 131'
06-01-90	10:26:00	4.433	2460.56	-0.02	141.40		
06-01-90	10:27:00	4.450	2460.58	0.02	141.33		
06-01-90	10:28:00	4.467	2460.62	0.04	141.27		
06-01-90	10:29:00	4.483	2460.55	-0.07	141.22		
06-01-90	10:30:00	4.500	2460.61	0.06	141.18		
06-01-90	10:31:00	4.517	2460.59	-0.03	141.14		
06-01-90	10:32:00	4.533	2460.58	-0.01	141.11		Gradient = .091
06-01-90	10:33:00	4.550	2460.58	0.00	141.11		Shut the BOPs
06-01-90	10:34:00	4.567	2460.58	0.00	141.11	2361	Depress. Lub
06-01-90	10:35:00	4.583	2460.55	-0.03	141.11		END OF SURVEY

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

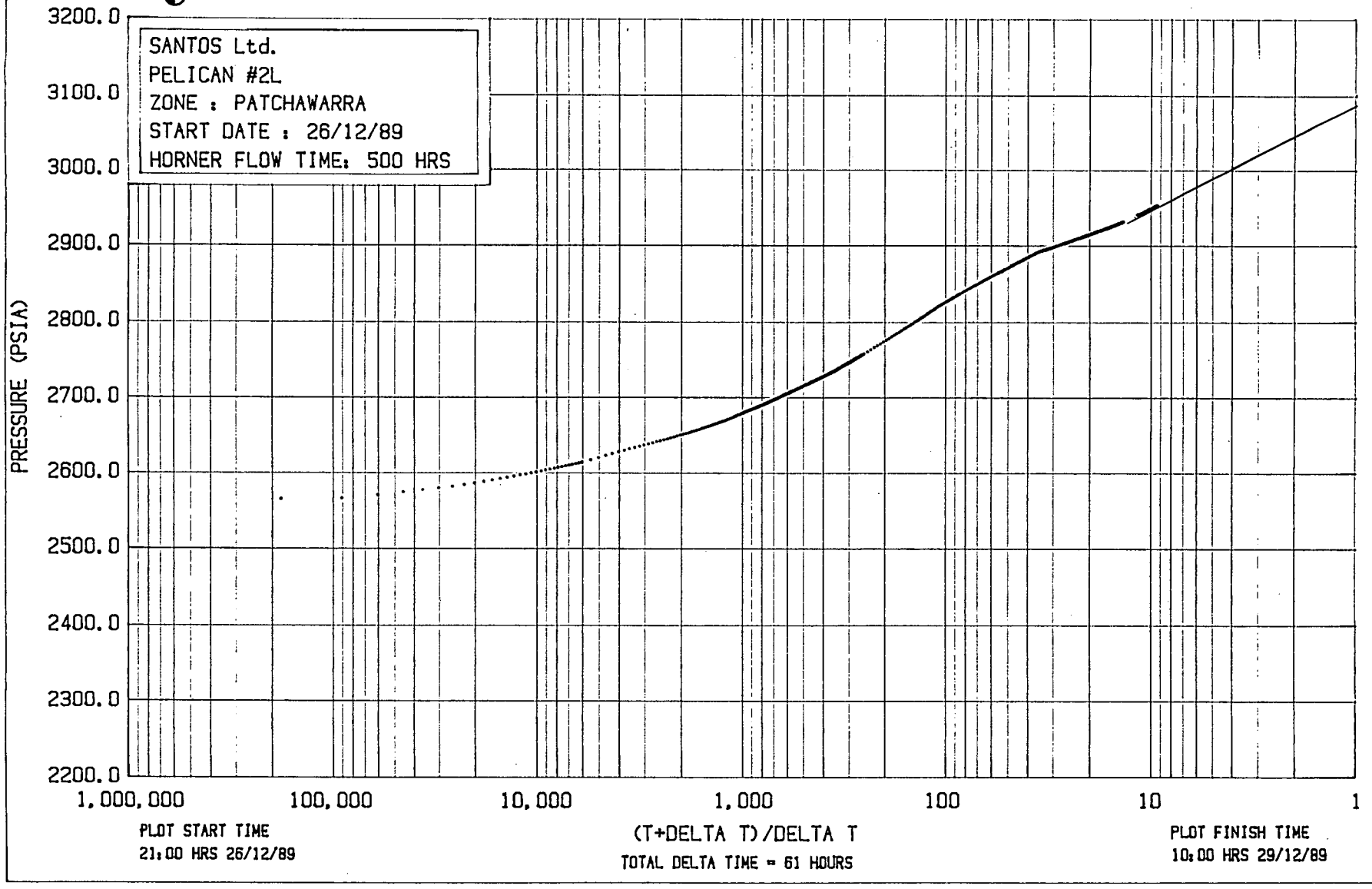
LINEAR PLOT



00202

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

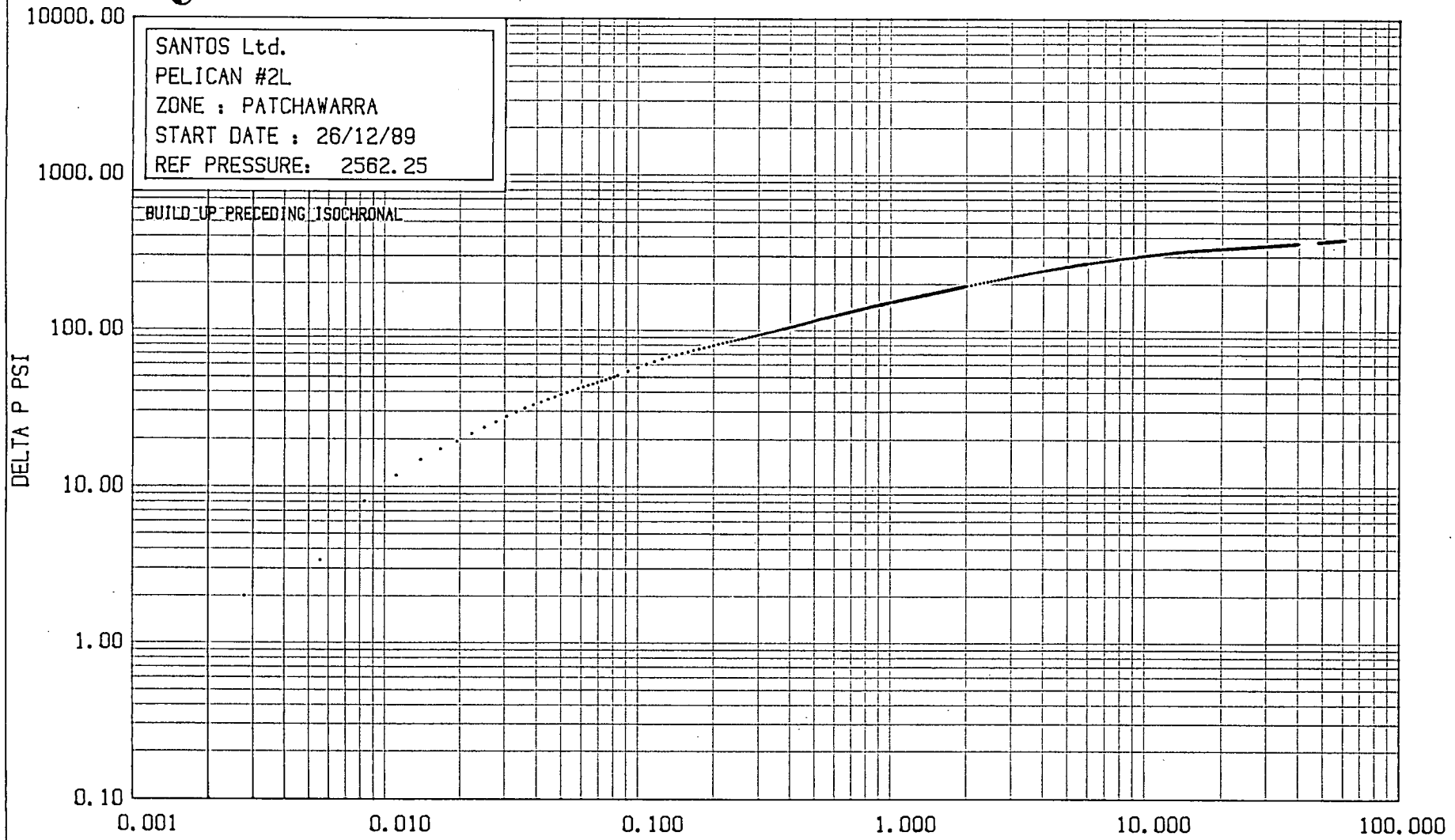
HORNER PLOT



00203

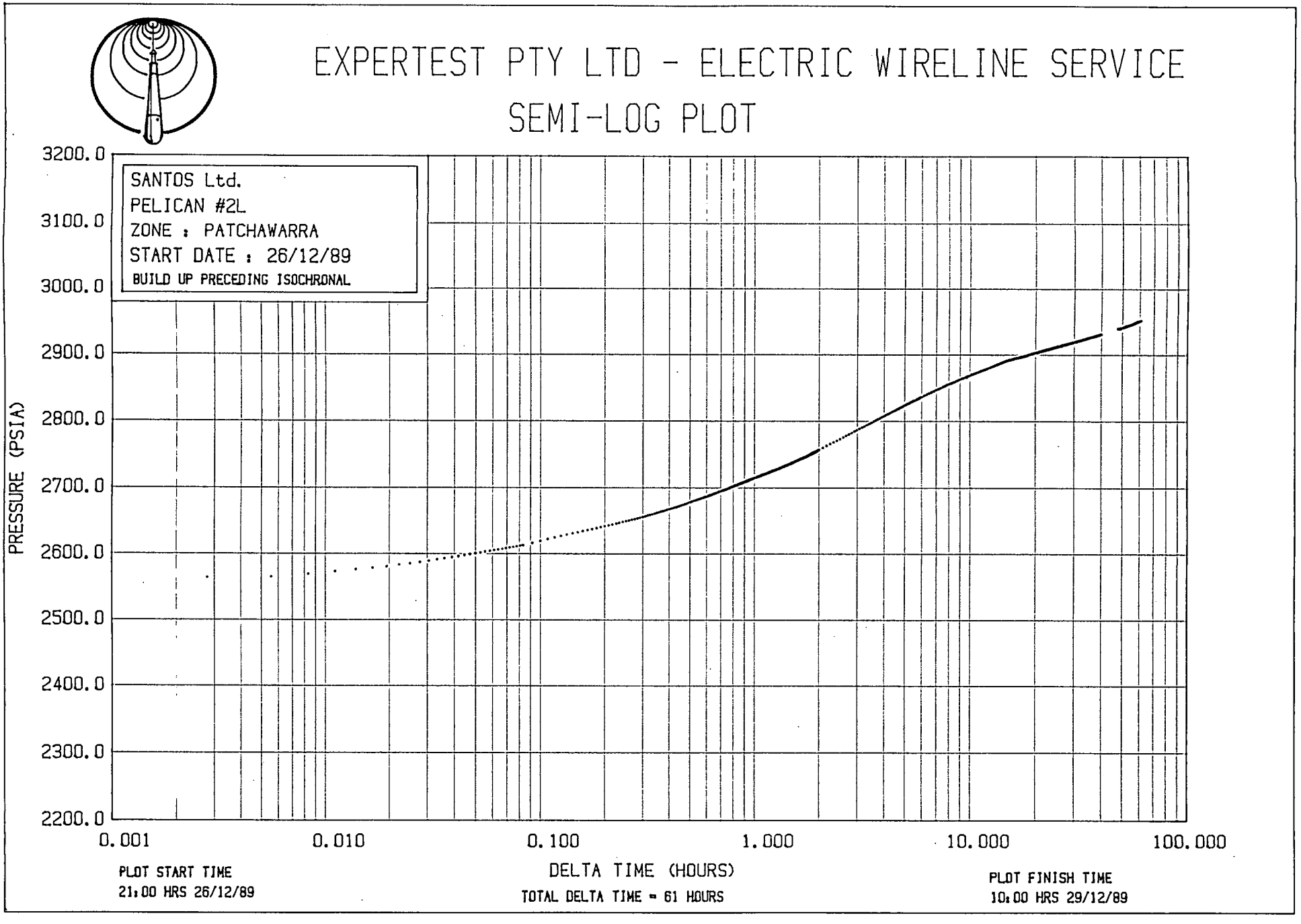
EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LOG-LOG PLOT



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

SEMI-LOG PLOT



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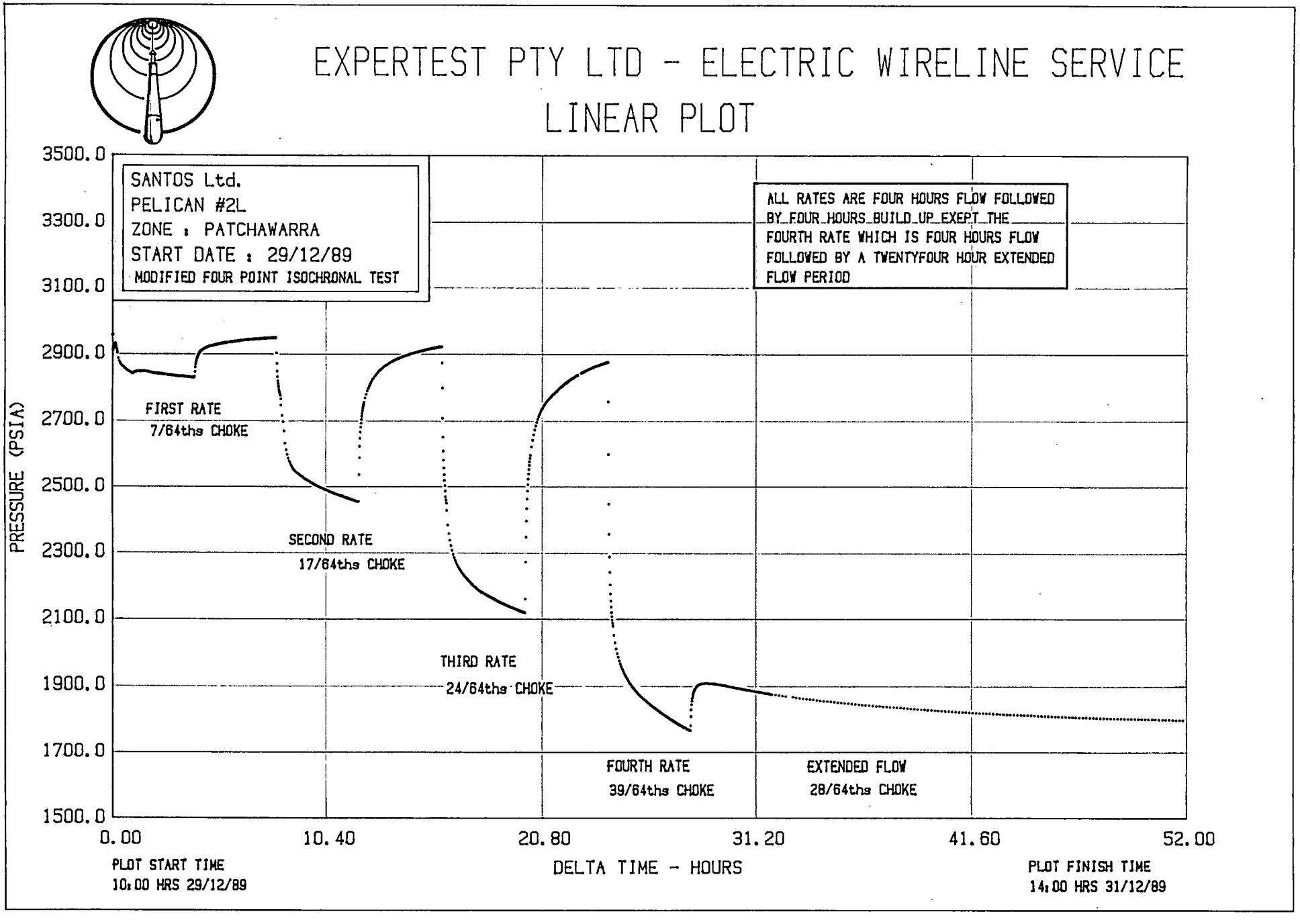
EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT



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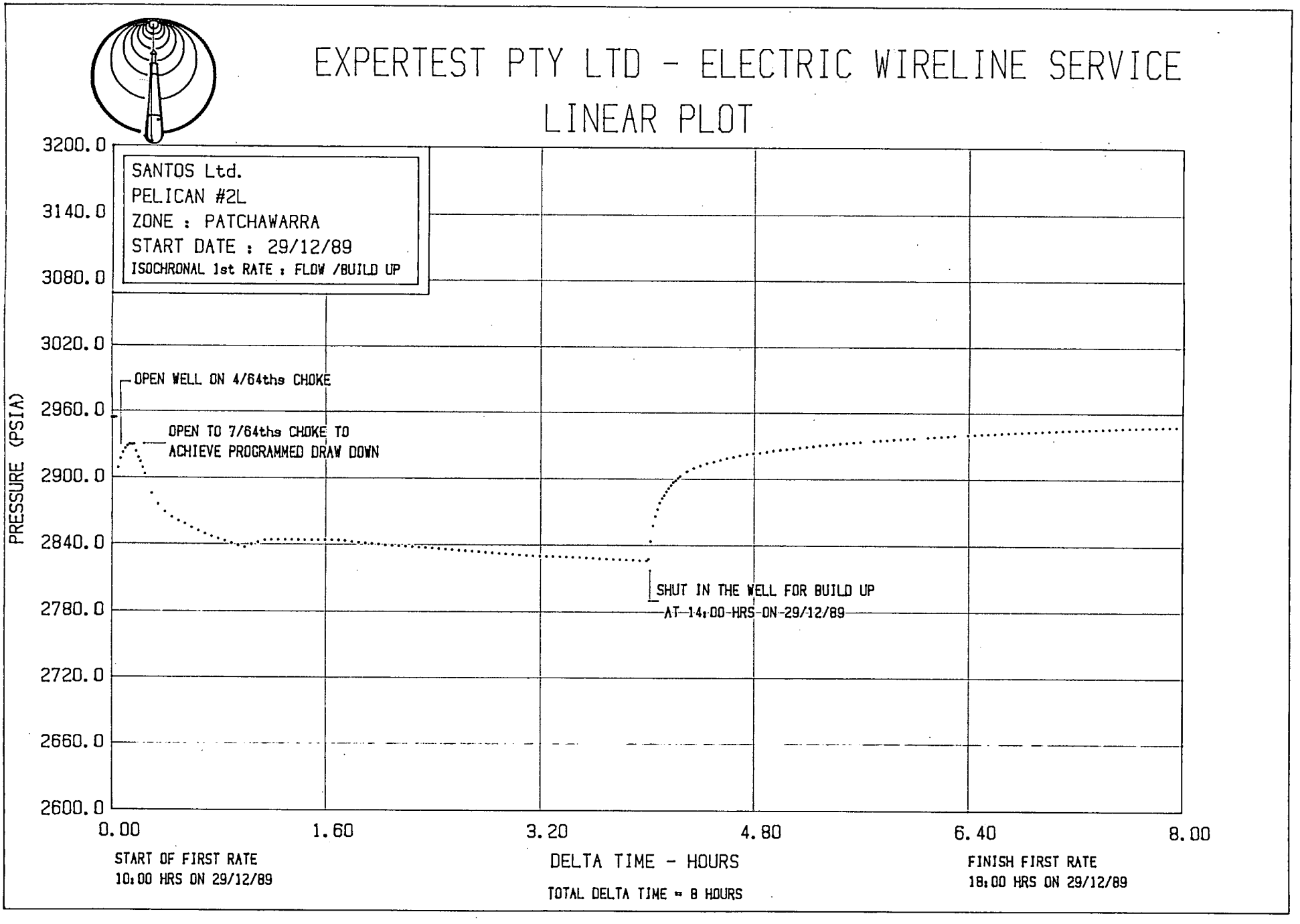
EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT



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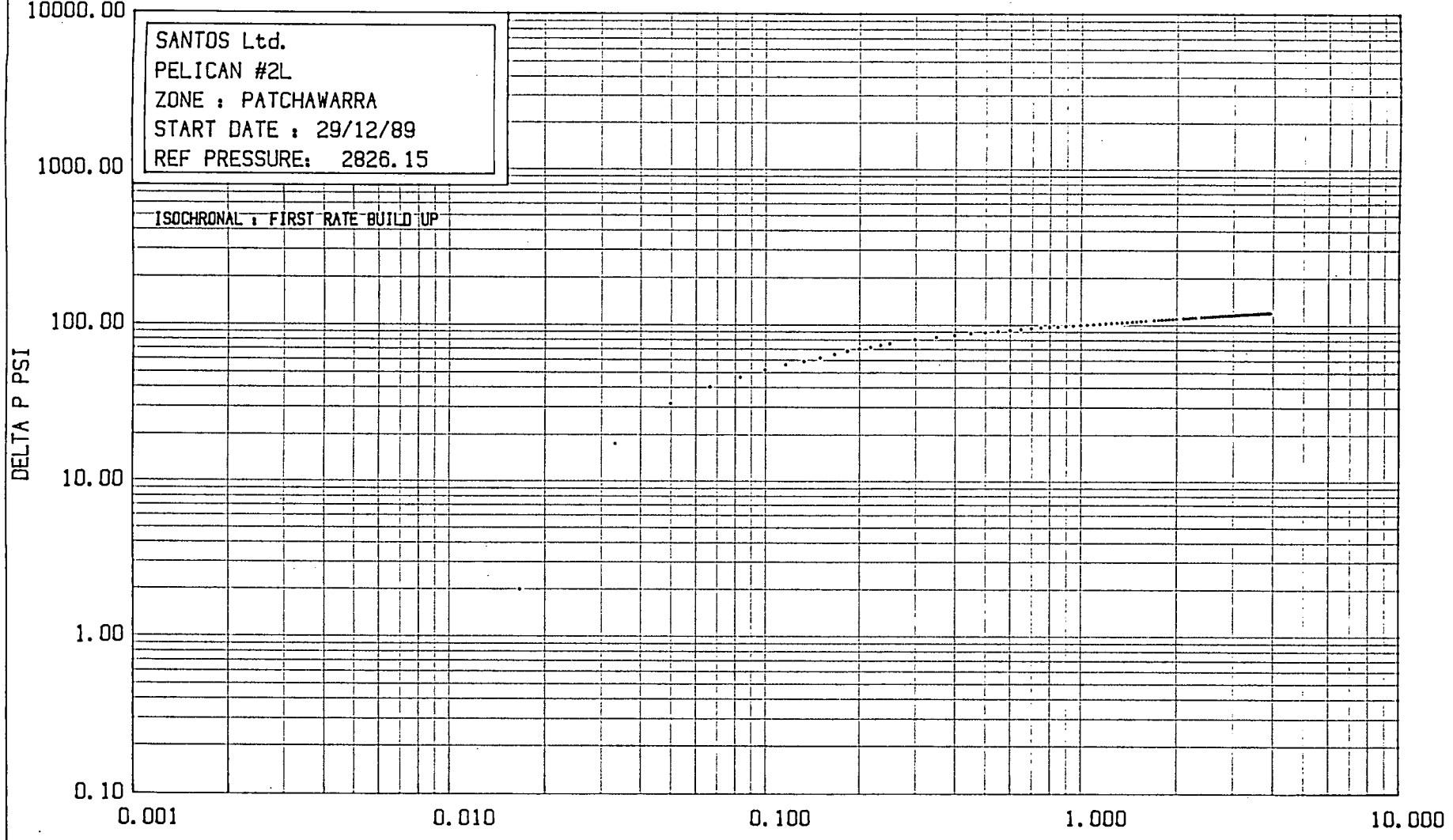
EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

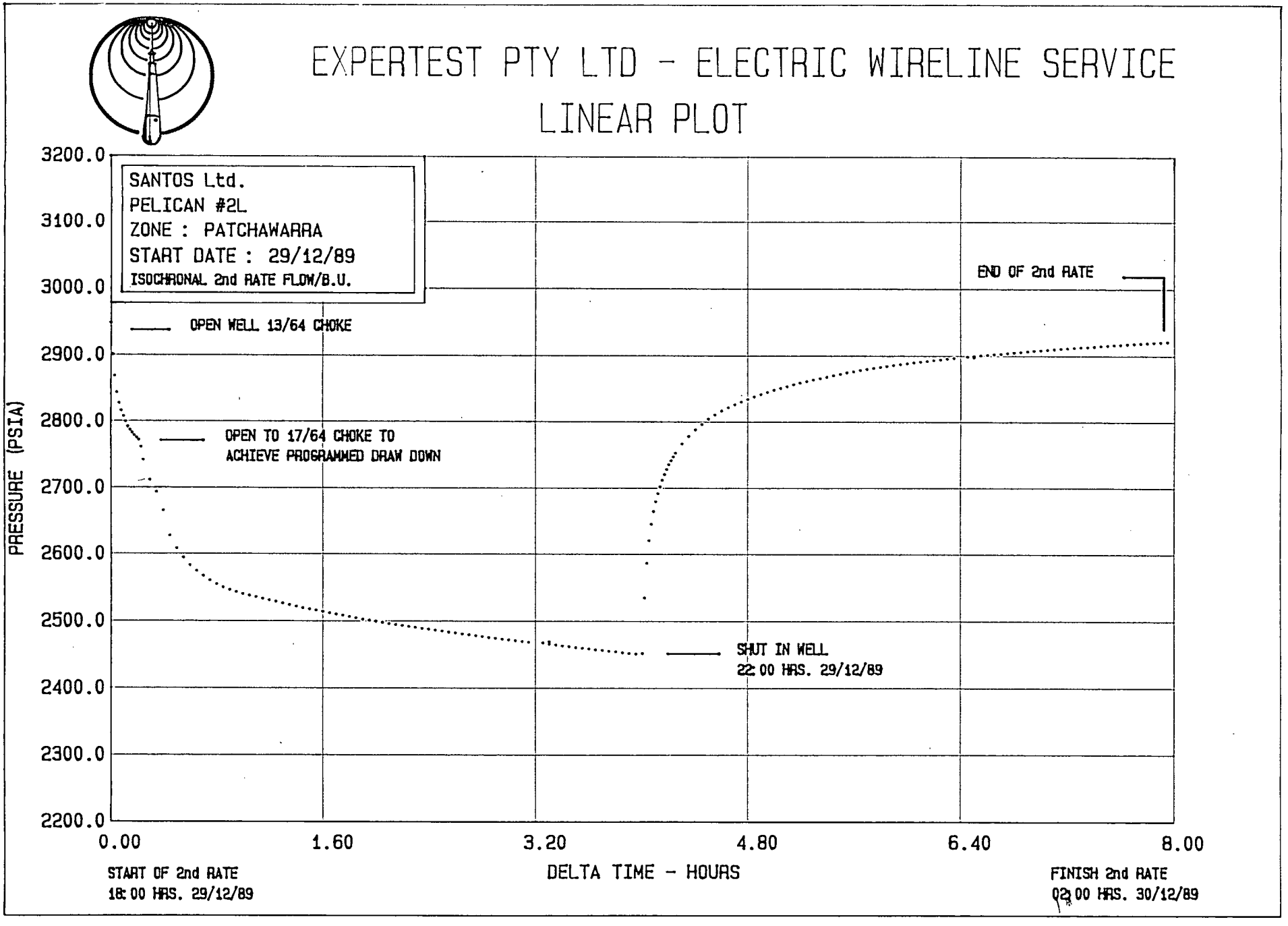
LOG-LOG PLOT



80200

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

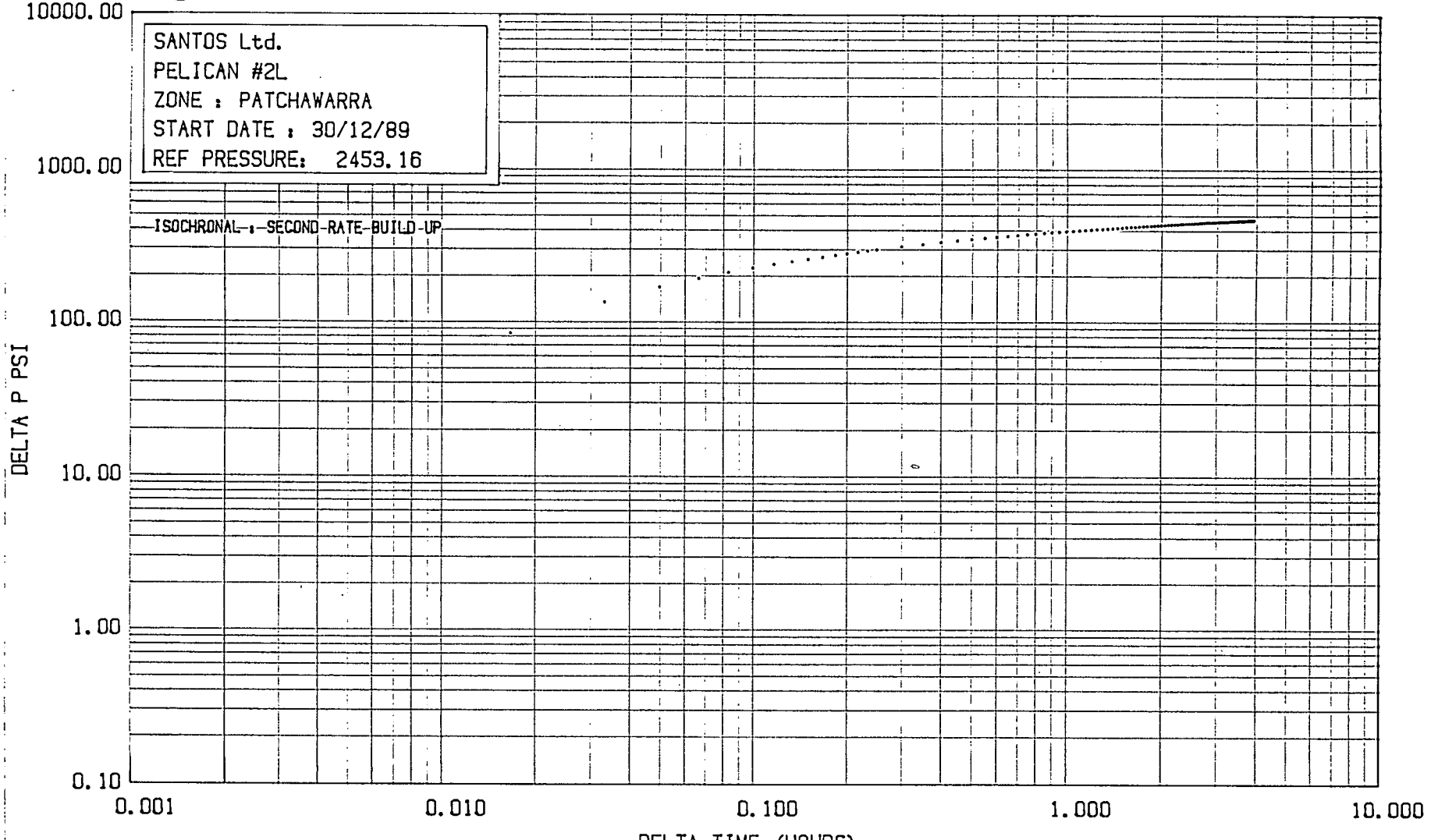
LINEAR PLOT



00209

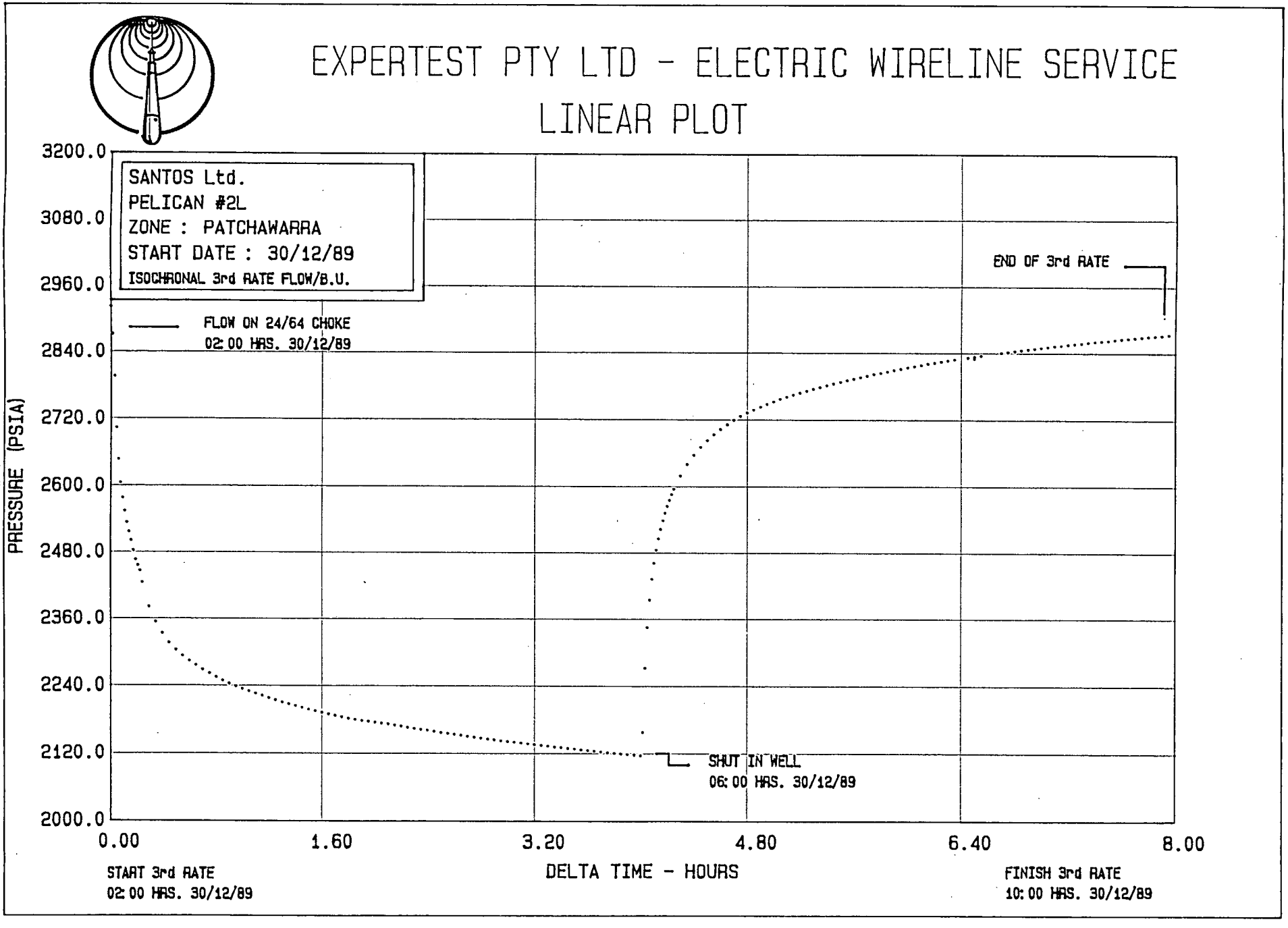
EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LOG-LOG PLOT



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT



00211

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

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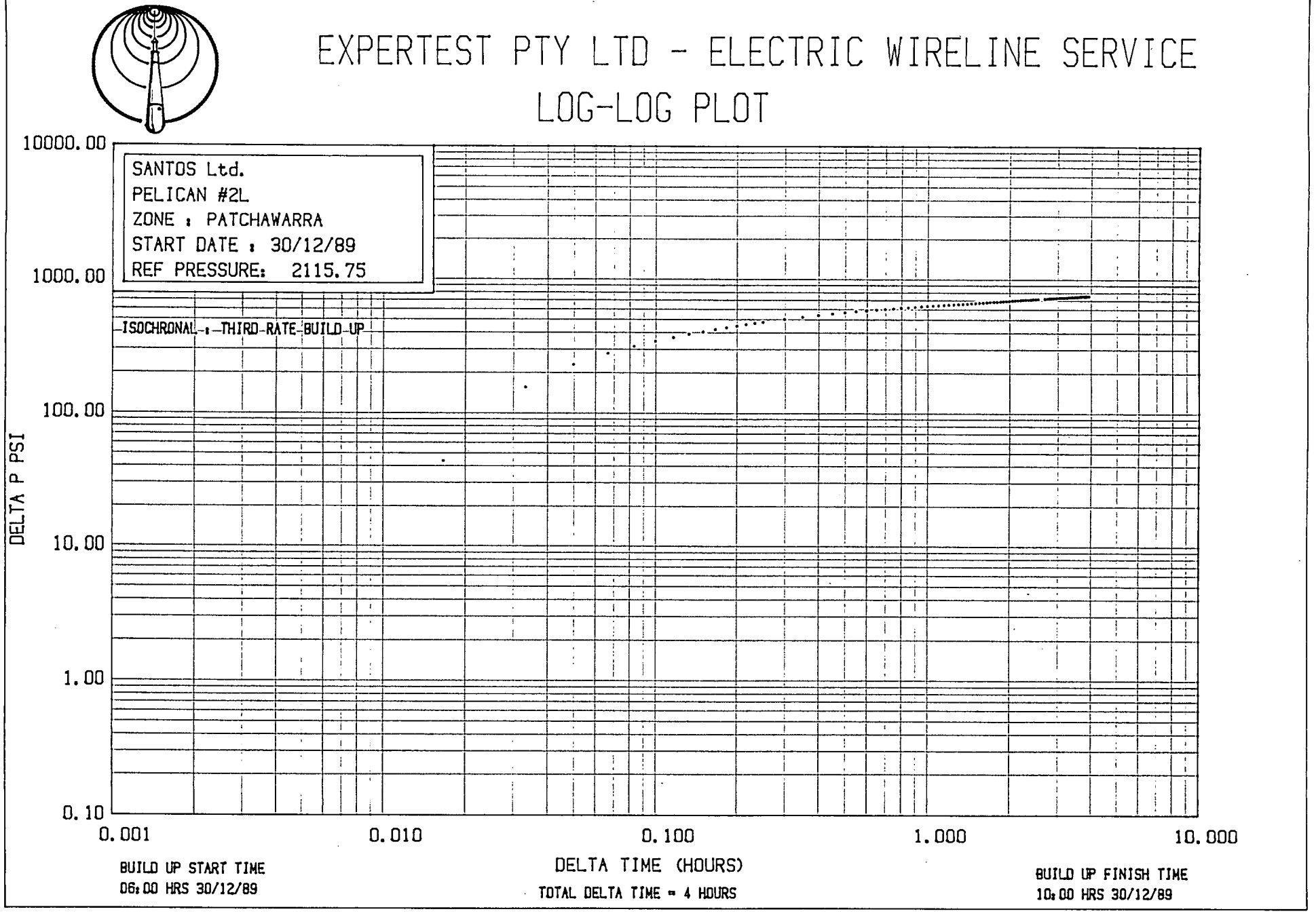

00212

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

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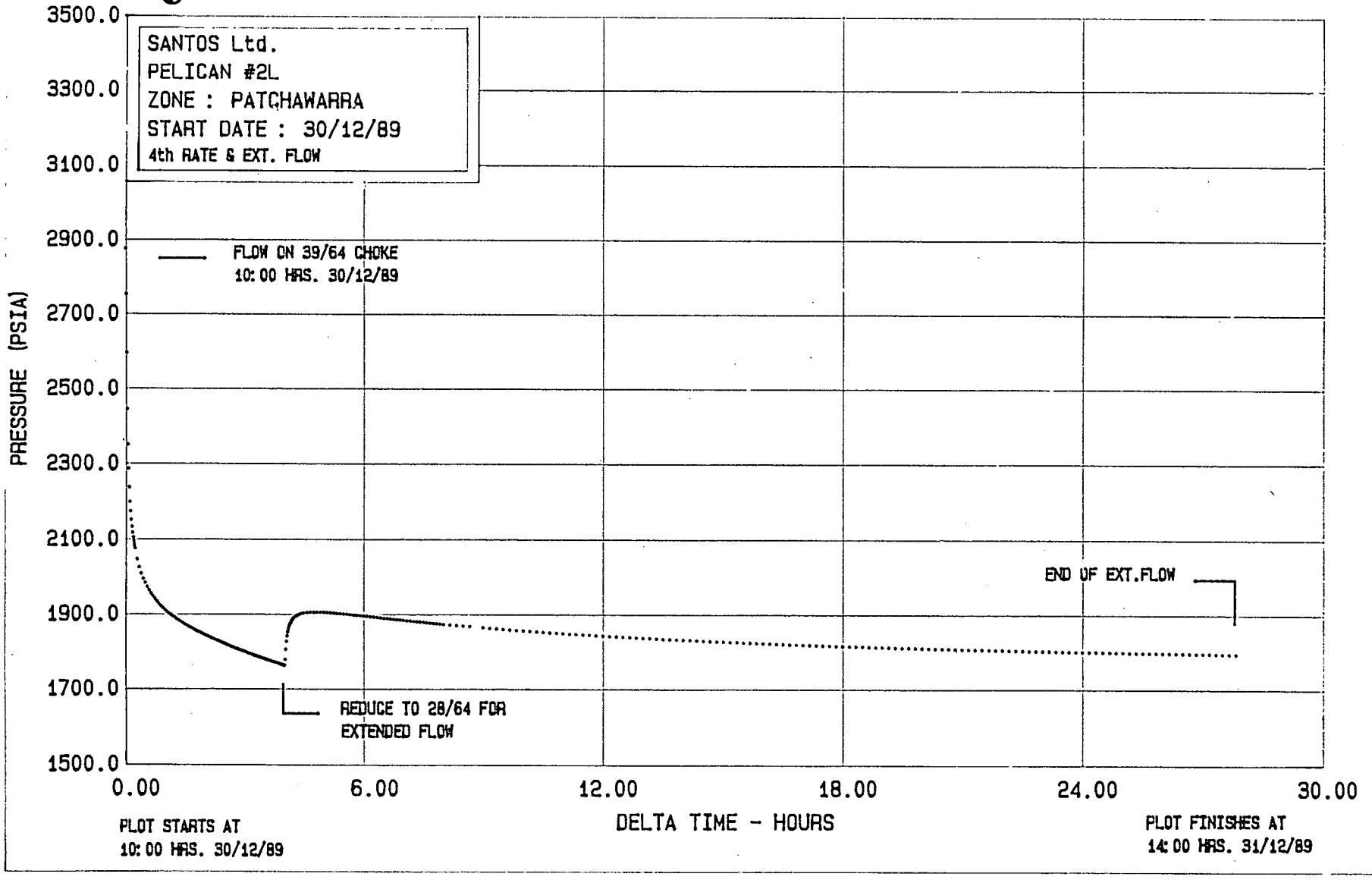

00213

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

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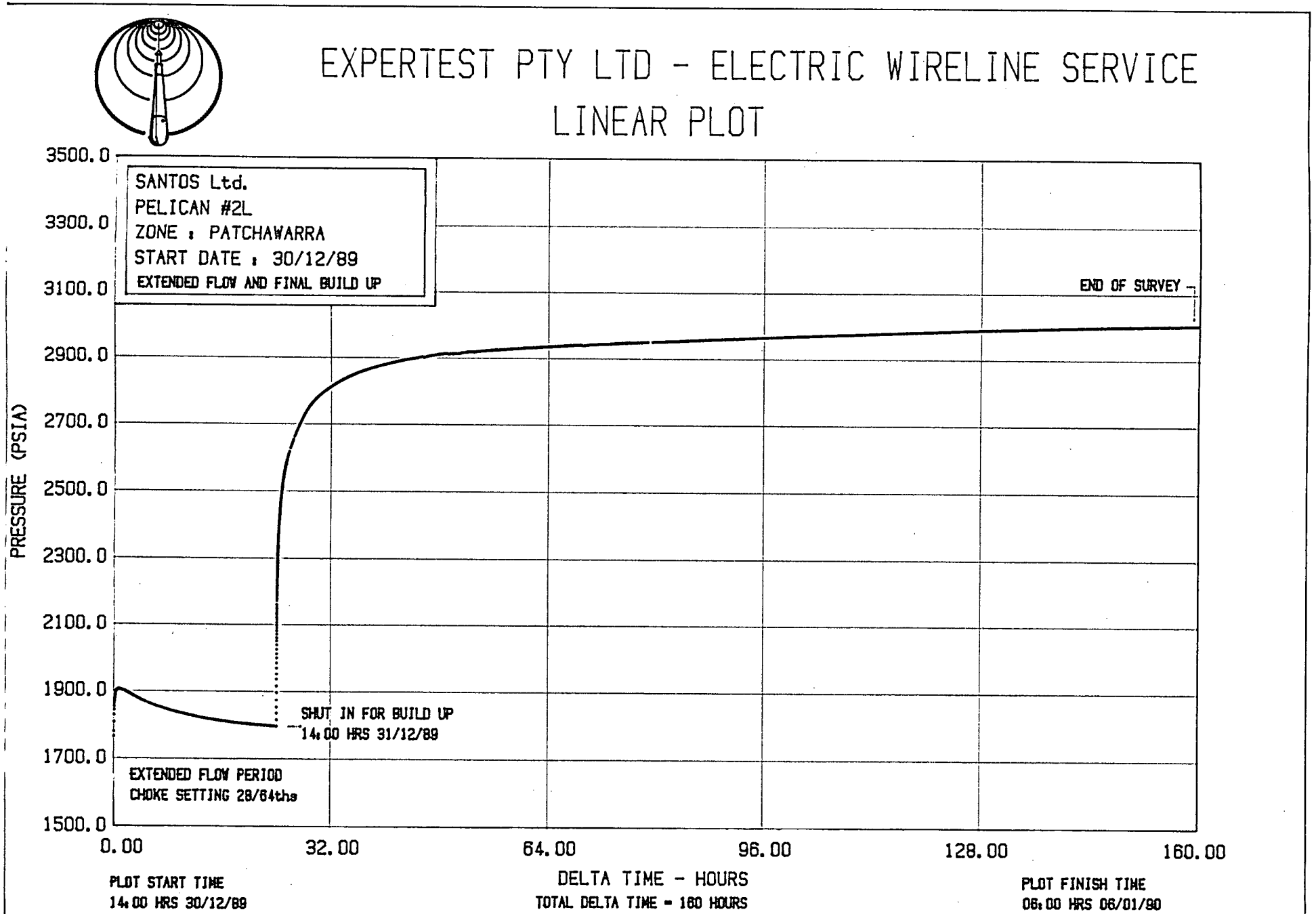
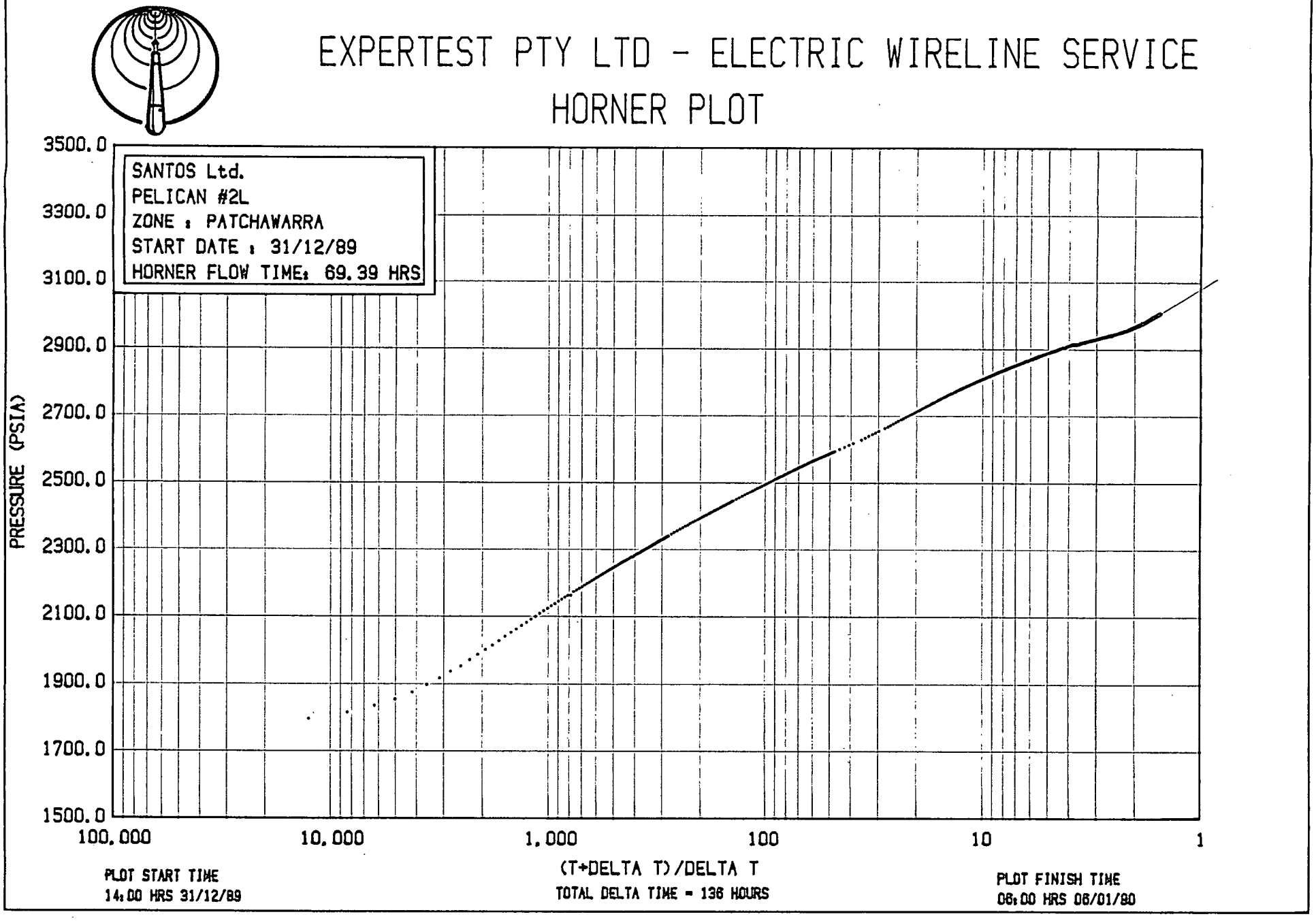


00214

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

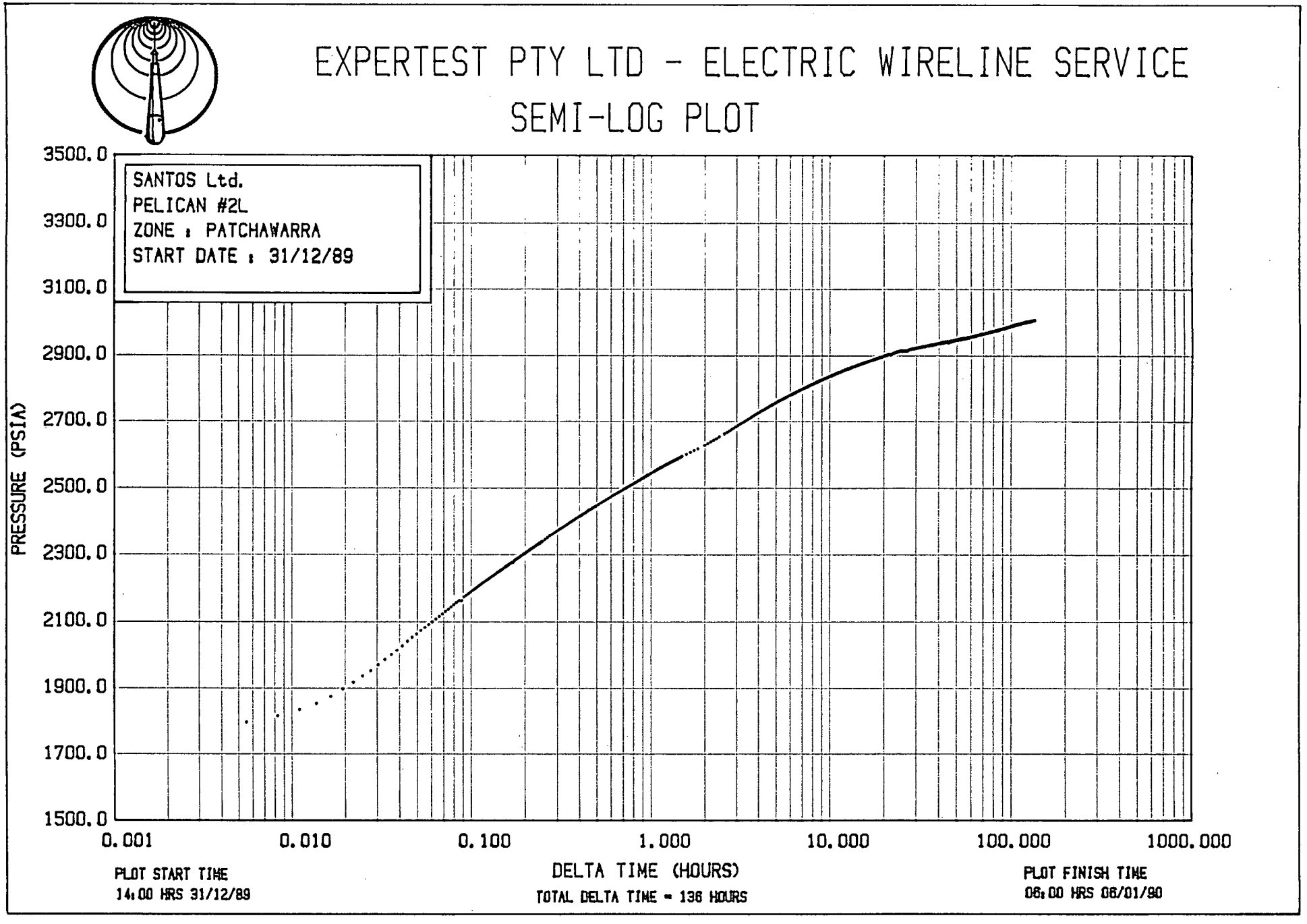
HORNER PLOT



57200

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

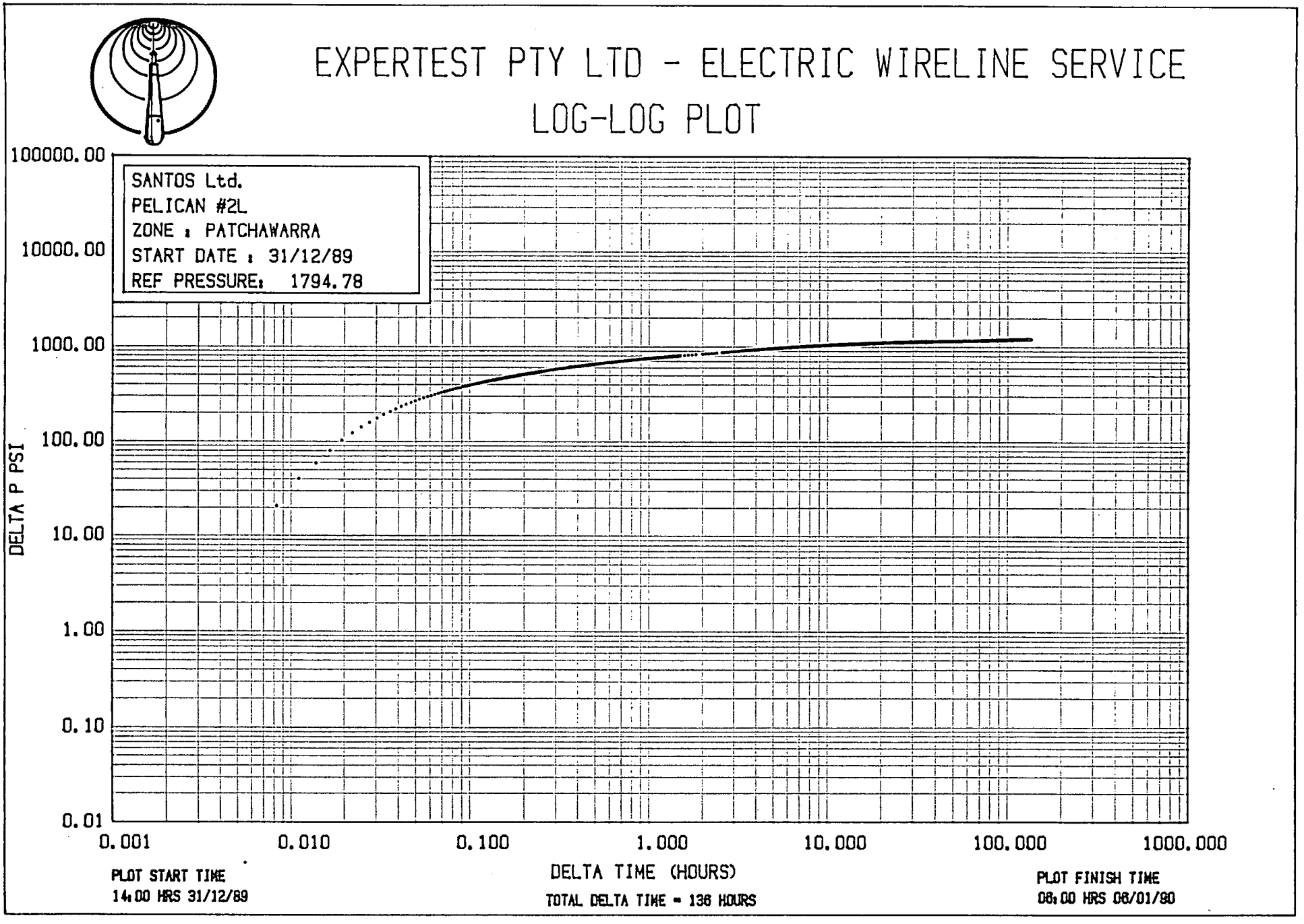
SEMI-LOG PLOT



00216

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

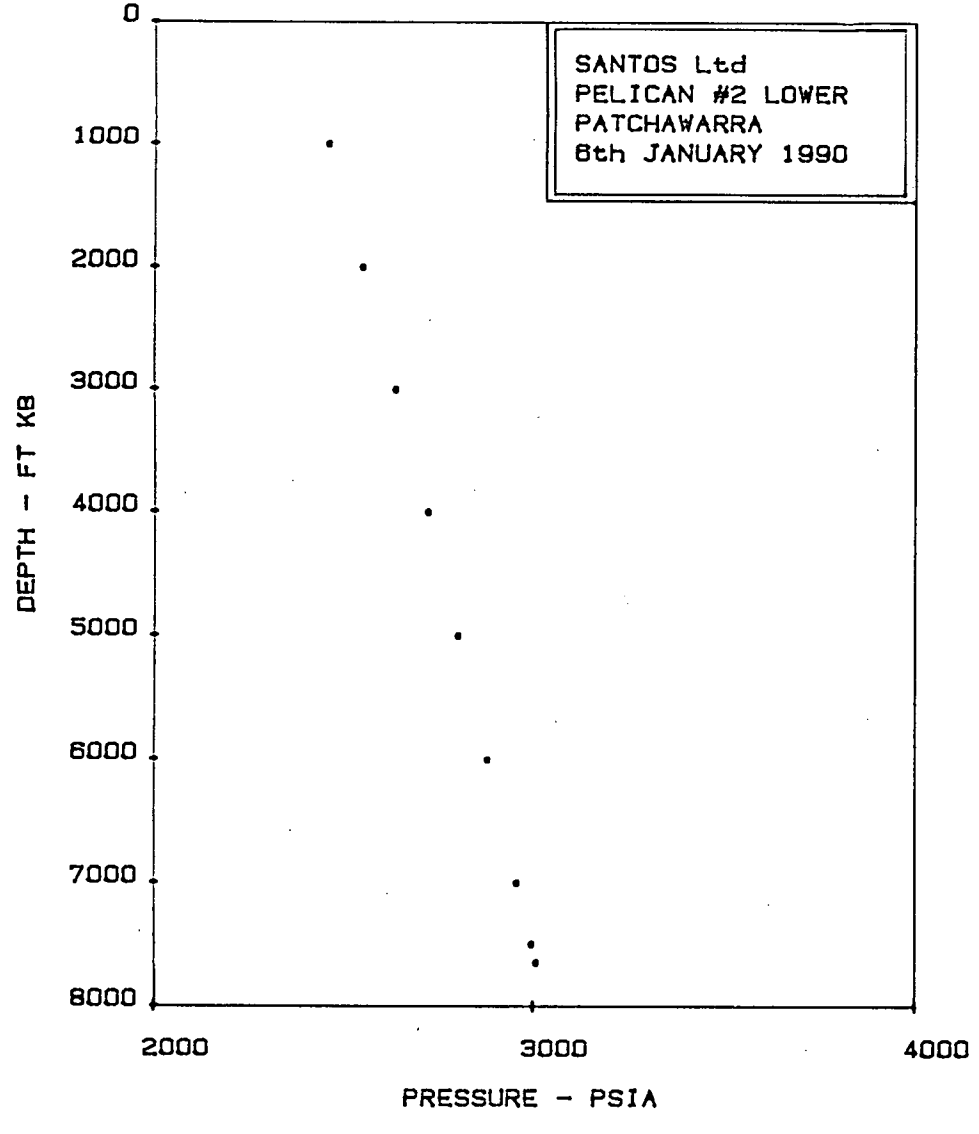
LOG-LOG PLOT



00217

EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

STATIC GRADIENT SURVEY



STOP	TIME	DEPTH ('KB)	PRESSURE (PSIA)	GRADIENT (PSI/FT)
1	600	7650	3007.54	----
2	618	7500	2995.64	0.0793
3	640	7000	2956.74	0.0778
4	720	6000	2879.59	0.0771
5	806	5000	2802.38	0.0772
6	845	4000	2723.68	0.0787
7	914	3000	2639.17	0.0845
8	944	2000	2551.56	0.0876
9	1012	1000	2460.58	0.0910

GRADIENT CONDUCTED WHILE PULLING OUT OF HOLE

CABLE BECAME HUNG UP AT 131'KB
UNABLE TO RECORD FINAL SURFACE PRESSURE

00218

SANTOS [redacted] Pa[redacted]l.

WELL TEST SUMMARY

WELL: Pelican # 2 Lower
TESTED BY: Expertest
CASING SIZE: 7 ins
TUBING SIZE: 2-3/8" ins

Lat.: 27°48'12.96" S
LOCATION: Long: 140°04'53.10" E
PERFORATIONS: 8127-8555 ft
WEIGHT: 26 lb/ft
WEIGHT: 4.7 lb/ft

DATE: 24/12/89 - 6/1/90
PRODUCING THROUGH: Tubing
GRADE: J55 & N80
GRADE: J55

FORMATION: Patchawarra

DESCRIPTION OF TEST

INITIAL SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
24/12/89	0835					Well B.O.L. on cleanup.
26/12/89	1000		1871	486	56	Samples taken
	2100	0	2013	563	53	Shut well in
29/12/89	1000	61	2320	97		Opened well on rate # 1

Flow Period

Run No.: 1 Duration of Run: 4 Hours.
Flow Well On: 7/64" Choke.

Orifice Size: 0.750 ins
Meter Run: 3.826 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~ psig	Hw ~~kPa~~ "w.g.	Temp. ~~°C~~ °F	m3/d	m3/d
4/64" 7/64" 29/12/89	1000	0	2320	97						
	1015	0.25	2270	97	47					
	1030	0.5	2227	97	47	385	138	93		
	1100	1	2136	100	49	380	136	97	NIL	NIL
	1130	1.5	2135	109	50	380	112	106		
	1200	2	2126	114	50	380	110	118	1.840	NIL
	1230	2.5	2126	117	50	380	118	120		
	1300	3	2125	125	51	380	120	120	1.226	NIL
	1330	3.5	2129	127	51	380	120	120		
	1400	4	2129	130	51	375	122	118	1.226	NIL

WP 2548G

RMEO 5/3/94

CC 8/3/91

00220

WELL TEST SUMMARY

2nd SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
29/12/89	1400	0	2129	130	51	Shut well in
	1430	0.5	2216	118		
	1500	1	2225	112		
	1530	1.5	2230	107		
	1600	2	2233	103		
	1630	2.5	2236	99		
	1700	3	2238	97		
	1730	3.5	2239	94		
	1800	4	2240	93		Opened well on rate # 2

Flow Period

Run No.: 2 Duration of Run: 4 Hours. Orifice Size: 1.500 ins
Flow Well On: 17/64" Choke. Meter Run: 3.826 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	~~kPa~~ psig	~~kPa~~ "w.g.	~~°C~~ °F	m^3/d	m^3/d
15/64" 17/64" ↓ 29/12/89	1800	0	2240	93						
	1830	0.5	1899	120	52	455	126	95		
	1900	1	1857	154	52	385	146	97	2.453	NIL
	1930	1.5	1845	175	52	385	146	109		
	2000	2	1835	198	53	385	146	109	4.906	NIL
	2030	2.5	1828	217	53	385	144	109		
	2100	3	1821	236	53	385	144	109	4.292	0.613
	2130	3.5	1815	254	53	385	143	109		
	2200	4	1810	270	53	385	142	109	3.679	NIL

00221

3RD SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
29/12/89	2200	0	1810	270	53	Shut well in
	2230	0.5	2180	204		
	2300	1	2217	142		
	2330	1.5	2234	102		
	2400	2	2245	59		
30/12/89	0030	2.5	2253	36		
	0100	3	2259	29		
	0130	3.5	2263	21		
	0200	4	2267	20		Opened well on rate #3

Flow Period

Run No.: 3 Duration of Run: 4 Hours.
Flow Well On: 24/64" Choke.

Orifice Size: 2.000 ins
Meter Run: 3.826 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing kPa	Casing kPa	Temp. °C	Pf ~~kPa~~ psig	Hw ~~kPa~~ "w.g	Temp. ~~°C~~ °F	m^3/d	m^3/d
22/64"	30/12/89 0200	0	2267	20						
24/64" ↓	0230	0.5	1540	80	52	390	108	111		
	0300	1	1493	151	53	385	102	113	5.519	0.613
	0330	1.5	1466	219	53	385	98	109		
	0400	2	1453	273	54	385	95	111	6.132	NIL
	0430	2.5	1444	324	54	385	95	117		
	0500	3	1434	356	55	385	94	117	4.906	NIL
	0530	3.5	1425	384	55	385	93	118		
	0600	4	1418	418	55	385	92	118	3.679	NIL

00222

4TH SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing kPa	Casing kPa	Temp. °C	
30/12/89	0600	0	1418	418	55	Shut well in
	0630	0.5	2106	316		
	0700	1	2160	235		
	0730	1.5	2192	180		
	0800	2	2218	134		
	0830	2.5	2236	96		
	0900	3	2252	65		
	0930	3.5	2263	47		
	1000	4	2273	33		Opened well on rate # 4

Flow Period

Run No.: 4 Duration of Run: 4 Hours.
Flow Well On: 39/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.826 ins

	Date	Time	Flow Time (Hours)	Wellhead Readings Tubing kPa	Casing kPa	Temp. °C	Meter or Prover Data Pf ~~kPa~~ psig	Hw ~~kPa~~ "w.g.	Temp. ~~°C~~ °F	Condensate Production m³/d	Water Production m³/d
38/64"	30/12/89	1000	0	2273	33						
39/64"		1030	0.5	931	135	55	380	116	124		
		1100	1	896	226	56	380	108	126	4.292	0.613
		1130	1.5	879	300	57	380	103	127		
		1200	2	868	344	58	385	100	127	4.292	3.066
		1230	2.5	857	381	58	380	98	129		
		1300	3	848	412	59	380	95	131	3.679	1.226
		1330	3.5	838	444	59	380	93	131		
		1400	4	831	461	59	380	92	131	2.453	1.226

WP 2548G

✓ ✓

00223

FINAL STABILIZATION FLOW PERIOD

Flow Period

Run No.: 5 Duration of Run: 24 Hours.
Flow Well On: 28/64" Choke.

Orifice Size: 2·000 ins
Meter Run: 3·826 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production	Water Production
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	~~kPa~~ psig	~~kPa~~ "w.g.	~~°C~~ °F	m^3/d	m^3/d
30/12/89	1400	0	831	461	59					
	1500	1	1175	510	59	385	108	120	1·226	2·453
	1600	2	1167	534	61	375	108	118	2·456	1·226
	1700	3	1162	560	61	375	107	117	3·066	1·840
	1800	4	1154	580	61	375	104	118	1·840	2·453
	1900	5	1147	594	60	375	103	117	2·453	1·840
	2000	6	1141	607	60	375	102	116	3·066	1·840
	2100	7	1137	619	60	375	102	118	2·453	1·226
	2200	8	1133	627	60	375	99	118	0·613	1·226
	2300	9	1130	637	60	375	100	118	3·066	1·840
	2400	10	1125	645	60	375	100	118	2·453	1·226
31/12/89	0100	11	1123	652	60	375	100	118	3·679	1·840
	0200	12	1121	656	60	375	99	118	3·066	1·226
	0300	13	1118	662	60	371	98	118	1·840	1·840
	0400	14	1117	667	60	370	97	118	4·292	1·226
	0500	15	1114	674	60	370	98	118	4·292	2·453
	0600	16	1113	678	60	370	97	118	4·292	1·840
	0700	17	1112	684	60	371	97	118	3·679	1·840
	0800	18	1113	690	62	373	97	118	3·066	1·840
	0900	19	1110	690	62	373	96	122	3·066	0·613
	1000	20	1112	695	62	376	96	122	4·906	1·840
	1100	21	1114	700	63	378	96	122	1·226	0·613
	1200	22	1113	701	64	379	96	126	3·066	1·840
	1300	23	1113	704	65	379	96	126	3·679	1·840
	1400	24	1112	706	65	379	96	127	3·066	2·453

00224

SANTOS LTD.

WE[redacted]EST[redacted]MAR[redacted]

FINAL BUILD-UP PERIOD

Date	Time	Shut in Period (Hours)	Tubing Pressure kPa	Casing Pressure kPa	Wellhead Temp. °C	REMARKS
31/12/89	1400	0	1112	706	65	Shut well in
	1401	0.017	1450	N/A		
	1402	0.033	1558	N/A		
	1403	0.05	1625	N/A		
	1404	0.067	1672	N/A		
	1405	0.083	1706	713		
	1410	0.167	1800	692		
	1415	0.25	1851	670		
	1430	0.5	1935	614		
	1445	0.75	1980	569		
	1500	1	2011	526		
	1515	1.25	2034	491		
	1530	1.5	2051	458		
	1545	1.75	2067	426		
	1600	2	2077	401		
	1700	3	2119	310		
	1800	4	2152	236		
	1900	5	2174	181		
	2000	6	2189	143		
	2400	10	2238	N/A		
1/1/90	0400	14	2254	40		
	0800	18	2258	40		
	1200	22	2288	39		
	1600	26	2294	37		
	2000	30	2299	36		
	2400	34	2303	36		
2/1/90	0400	38	2304	33		
	0800	42	2310	33		
	1200	46	2317	35		
	1600	50	2320	33		
	2000	54	2320	31		
	2400	58	2321	32		
3/1/90	0400	62	2323	31		
	0800	66	2326	31		
	1200	70	2336	35		
	1600	74	2337	31		
	2000	78	2339	34		
	2400	82	2338	31		

SANTOS LTD:

[redacted]ELL[redacted]ST [redacted]ARY[redacted]

FINAL BUILD-UP PERIOD

Date	Time	Shut in Period (Hours)	Tubing Pressure psig	Casing Pressure psig	Wellhead Temp. °F	REMARKS
4/1/90	0400	86	2339	31		
	0800	90	2340	31		
	1200	94	2348	33		
	1600	98	2352	33		
	2000	102	2350	34		
	2400	106	2350	32		
5/1/90	0400	110	2352	31		
	0800	114	2352	32		
	1200	118	2359	34		
	1600	122	2363	33		
	2000	126	2365	33		
	2400	130	2364	32		
6/1/90	0400	134	2363	33		
	0600	136	2361	32		P.O.O.H.

WP 2548G

00226

SANTOS LTD.

WELL TEST SUMMARY

FINAL BUILD-UP, SUBSURFACE PRESSURES

ELEMENT NO. BOMB DEPTH 'KB DWT
LUB.

Date	Time	Shut In Time (Hours)	PRESSURE psig	PRESSURE psia^2 X 10^3	$\frac{T + \theta}{\theta}$	REMARKS

SANTOS LTD.
WELL TEST SUMMARY
CALCULATION SHEET

GAS RATES THROUGH SEPARATOR

Run No.	Hw		Pf		Size Orifice Plate		Ft	
	(kPa)	("w.g.)	(kPa)	(psig)	(mm)	(inches)	(°C)	(°F)
1	30·4	122	2586	375	19·050	0·750	47·8	118
2	35·3	142	2655	385	38·100	1·500	42·8	109
3	22·9	92	2655	385	50·800	2·000	47·8	118
4	22·9	92	2620	380	57·150	2·250	55·0	131
5	23·9	96	2613	379	50·800	2·000	52·8	127
	✓	✓	✓	✓	✓	✓	✓	✓

Separator Gas Properties

Specific Gravity = 0·9185
TC = 428·8 °R
PC = 771·4 psia
CO2 CONTENT = 26·79 mole %

Meter Run = 3·826

GAS RATES THROUGH SEPARATOR

Run No.	Q	
	E3m³/d	mmscf/d
1	17·074	0·606
2	76·666	2·721
3	112·343	3·988
4	143·169	5·082
5	112·759	4·002

WP 2548G

00228

GAS WELL DELIVERABILITY TEST CALCULATIONS
(Base Conditions = 14.65 psia and 60°F)

WELL NAME: Pelican # 2 Lower DATE: 24/12/89 - 6/1/90 ELEMENT NO: Electric Line DEPTH TESTED: 7650'KB
DWT IN: OUT:
LUB IN: OUT:

SIMPLIFIED ANALYSIS

	Duration (hours)	Sandface Pressure (psia)	Bottom-Hole Temp (°F)	Meas.	Δp^2 ($\times 10^6$ psia^2)	Flow Rate E3m^3/d	H/Carbon Prod. m^3/d	Water Prod. m^3/d	REMARKS
Initial Shut In	61	2953.73	230.8	✓	—	—	—	—	$q = C(\bar{p}_R^2 - p_{wf}^2)^n$
Flow 1	4	2826.15	236.5	✓	0.737		1.073	NIL	slope n =
Shut In	4	2947.71	231.7	✓	—	—	—	—	$\bar{p}_R$ = psia
Flow 2	4	2453.16	244.7	✓	2.671		3.833	0.153	$C = \frac{q}{(\bar{p}_R^2 - p_{wf}^2)^n}$
Shut In	4	2922.43	232.7	✓	—	—	—	—	
Flow 3	4	2115.75	245.5	✓	4.064		5.059	0.153	=
Shut In	4	2874.73	233.2	✓	—	—	—	—	AOF (MMscfd)
Flow 4	4	1765.44	244.1	✓	5.147		3.679	1.533	=
Extended Flow	24	1794.92	243.8	✓	5.823		2.913	1.686	
Final Shut In	136	3007.39	230.5	✓	—	—	—	—	

WP 2548G ✓ ✓ ✓ ✓

00229

GAS WELL DELIVERABILITY TEST CALCULATIONS
(Base Conditions = 14.65 psia and 60°F)

LIT (Ψ) ANALYSIS

	Duration (hours)	Sandface Pressure (psia)	Ψ ($\times 10^6$ psia^2/cp)	$\Delta\Psi$ ($\times 10^6$ psia^2/cp)	Flow Rate (q) (MMscfd)	$\Delta\Psi/q$	q^2	$\Delta\Psi - bq^2$
Initial Shut In								
Flow 1								
Shut In								
Flow 2								
Shut In								
Flow 3								
Shut In								
Flow 4								
Total=								
Extended Flow								
Final Shut In								

WP 2548G

GAS WELL DELIVERABILITY TEST CALCULATIONS

L.I.T. (Ψ) ANALYSIS

DISCARDED POINT _____

N = _____ $\bar{\Psi}_R$ = _____ MMpsia²/cp

$$a, a_t = \frac{\Sigma\frac{\Delta\Psi}{q}\ \Sigma q^2 - \Sigma q\ \Sigma\Delta\Psi}{N\ \Sigma q^2 - \Sigma q\ \Sigma q} = _____$$

$$b = \frac{N\Sigma\ \Delta\Psi - \Sigma q\ \Sigma\frac{\Delta\Psi}{q}}{N\ \Sigma q^2 - \Sigma q\ \Sigma q} = _____$$

(EXTENDED FLOW)

$\Delta\Psi$ = _____ q = _____ b = _____

$$a = \frac{\Delta\Psi - bq^2}{q} = _____$$

A.O.F. = _____ MMSCFD n = _____

Total Volume of Gas Produced During Test = _____ MMSCF

Condensate = _____ Bbls

Water = _____ Bbls

REMARKS

RESULTS

TRANSIENT FLOW: $\bar{\Psi}_R - \Psi_{wf} = a_t q + bq^2$

i.e. _____ - Ψ_{wf} = _____ q + _____ q^2

STABLIZED FLOW: $\bar{\Psi}_R - \Psi_{wf} = aq + bq^2$

i.e. _____ - Ψ_{wf} = _____ q + _____ q^2

DELIVERABILITY:

$$q = \frac{1}{2b}\left[-a + \sqrt{a^2 + 4b\ (\bar{\Psi}_R - \Psi_{wf})}\right]$$

FOR $\Psi_{wf} = 0$, q = AOF = _____ MMscfd

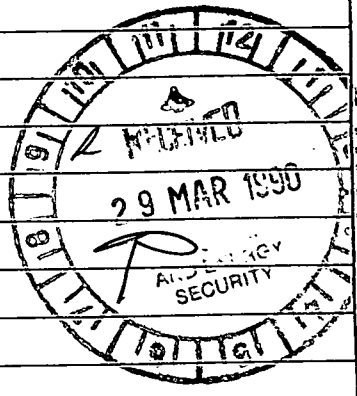
Interpreted by: Date:

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS	PERFORATIONS: 8127 – 8555'	PAGE: 1 OF 1
WELL NAME: PELICAN # 2 LOWER.	FORMATION : PATCHAWARRA	DATE: 17TH FEBRUARY 1990
TEST TYPE : STATIC GRADIENT		OPR : R. MOORE

DATE/TIME	DESCRIPTION OF EVENTS
09:15	ARRIVE ON LOCATION, RIG UP WIRELINE EQUIPMENT.
10:00	RUN IN HOLE WITH 1.5 BLIND BOX
10:25	@ 7650'KB.
	PULL OUT OF HOLE - AS PER PROGRAMME.
10:45	@ SURFACE, DEPRESSURE LUBRICATOR.
	PREPARE GAUGES FOR STATIC GRADIENT.
12:37	PRESSURE LUBRICATOR.
12:52	RUN IN HOLE WITH 2 PRESSURE ELEMENTS AND 1 TEMPERATURE ELEMENT.
13:56	@ BOTTOM STOP (7650')
14:11	PULL OUT OF HOLE
14:29	@ SURFACE WITH GAUGES
14:44	DEPRESSURE LUBRICATOR, RECOVER CHARTS (GOOD RESULTS)
14:55	RIG OUT WIRELINE EQUIPMENT.
	HAND WELL OVER TO PRODUCTION.



00232

ET 102

WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Saturday, 17th February 1990.

CLIENT	LOCATION	FORMATION
Santos Ltd.	Pelican #2 L	Patchawarra

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	1889	5150	8/12/89
Bottom	1589	5075	8/12/89

WELL DATA

PARAMETER	VALUE
DWT In	14728 kPa
DWT Out	14755 kPa
Max BHT	230 o/F

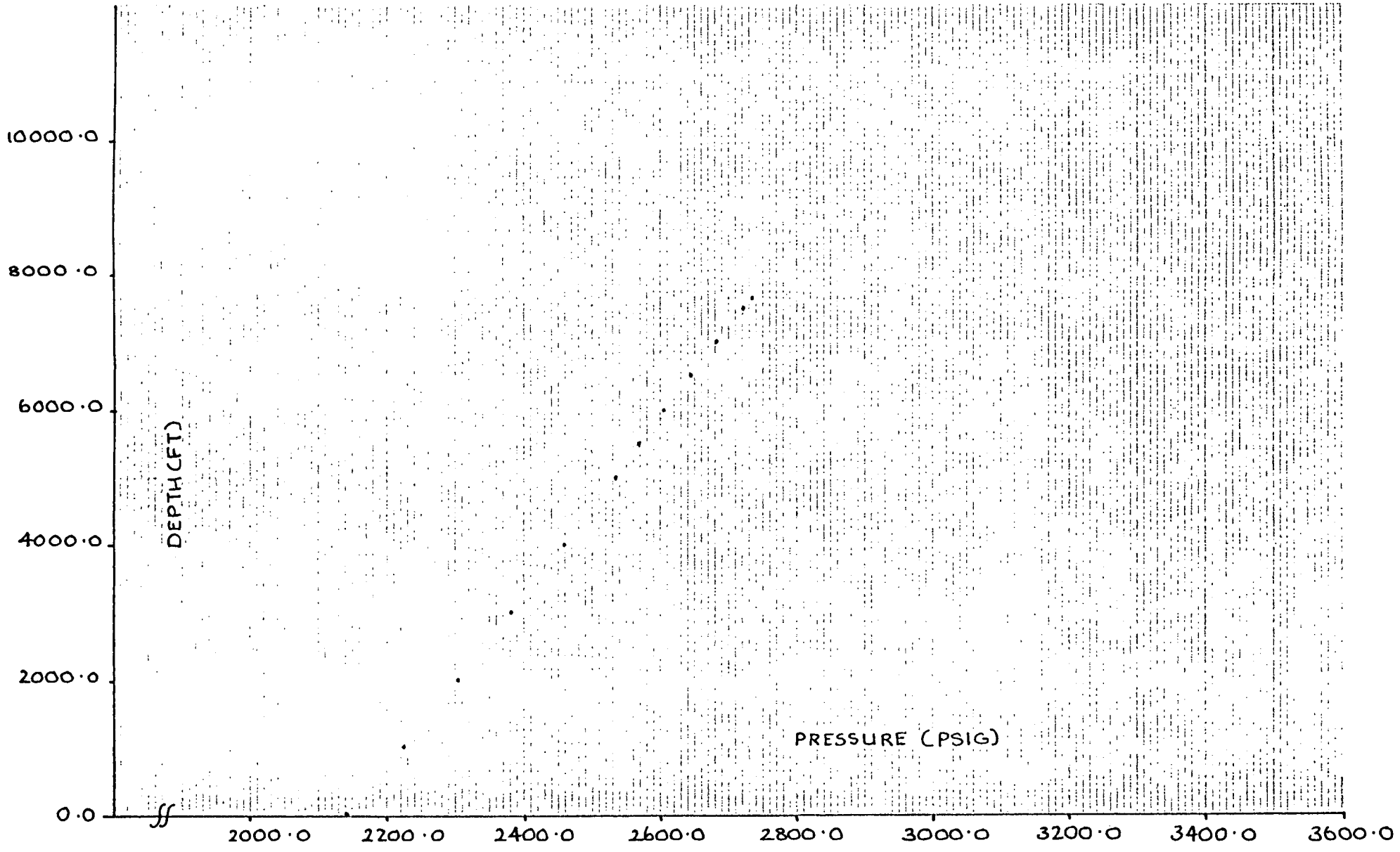
	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH Ft KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.8305	2148.8	-----	0.8400	2140.5	-----
1000	0.8630	2232.7	0.084	0.8727	2224.0	0.084
2000	0.8940	2312.8	0.080	0.9040	2304.0	0.080
3000	0.9240	2390.3	0.078	0.9342	2381.1	0.077
4000	0.9542	2468.3	0.078	0.9647	2459.0	0.078
5000	0.9830	2542.8	0.074	0.9935	2532.6	0.074
5500	0.9970	2579.0	0.072	1.0078	2569.1	0.073
6000	1.0110	2615.2	0.072	1.0220	2605.4	0.073
6500	1.0260	2654.0	0.078	1.0370	2643.7	0.077
7000	1.0405	2691.5	0.075	1.0515	2680.7	0.074
7500	1.0505	2717.3	0.052	1.0670	2720.3	0.079
7650	1.0605	2743.2	0.173	1.0720	2733.1	0.085
LUB.	0.8340	2157.8	-----	0.8410	2143.0	-----

GENERAL REMARKS

Temperature element run.

PELICAN # 2 LOWER — STATIC PRESSURE GRADIENT — 17/2/1990

ELEMENT # 1589/5075 (BOT)

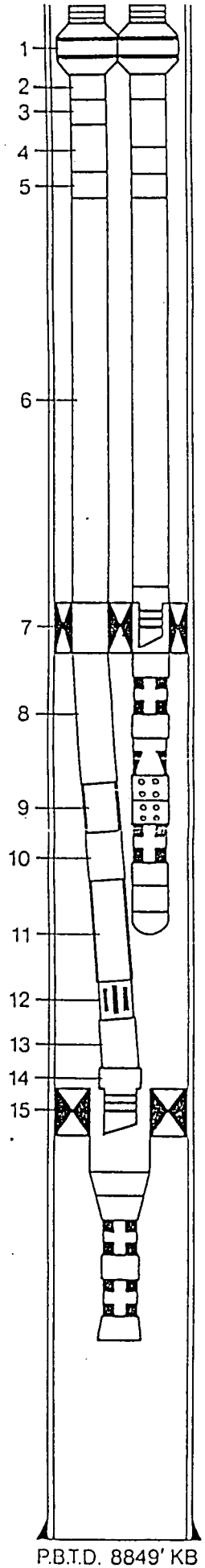


Fm 5030

00234

DOWNHOLE INSTALLATION PELICAN 2 L

00235



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	17 · 50	0 · 00	
1	C.I.W. 2⅞" split hanger segment 2⅞" CS	0 · 67	17 · 50	
	Hydril box up x 2⅞" AB-DSS box down			
2	2⅞" AB-DSS J55 pin x pin nipple	0 · 35		
3	X-over 2⅞" x 2⅜" AB-IJ3SS box x pin	1 · 76		
4	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 45		
5	1 x 4' & 1 x 2' 2⅜" AB-DSS J55 4·7#	5 · 72		
	pup joints			
6	241 joints 2⅜" J55 4·7# Baker Duece tubing	7635 · 37		
7	Baker A5 dual packer size47C4 c/w 2⅜"	10 · 07	7691 · 82	
	AB-IJ3SS box up pin down			
8	3 joints 2⅜" J55 4·7# Baker Duece tubing	94 · 96		
9	1 20' x 2⅜" AB-IJ3SS L80 box x pin	19 · 72	7796 · 85	
	blast joint			
10	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 67	7816 · 57	
11	2 20' x 2⅜" AB-IJ3SS L80 box x pin	39 · 44	7847 · 24	
	blast joints			
12	Otis 121XDH18710 2⅜" AB-IJ3SS sliding	3 · 50	7886 · 68	
	sleeve			
13	1 joint 2⅜" J55 4·7# Baker Duece tubing	31 · 62		
14	Baker G-22 locator seal assembly size 81-32	2 · 84	7921 · 80	
	c/w 2⅜" AB-IJ3SS box up			
	Permanent Downhole Equipment			
15	Baker 7" DB packer 84-32 4½" AB-IJ3SS	4 · 08	7921 · 80	
	box down			

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	GUN: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)
PATCHAWARRA						
81-0	8127' – 8158'	5"	HSD	6	HMX	22
82-8	8340' – 8367'	5"	HSD	6	HMX	22
85-7	8547' – 8555'	5"	HSD	6	HMX	22

REMARKS: NOTE: Could not pass thru 7744' KB on Long String with 1·5" Stem and jars

ANNULUS FLUID : 1102 kg/m³ 2% KCl brine plus 1 drum Applied 2100

INDICATED STRING WEIGHT : 28,000#

CALCULATED STRING WEIGHT : 32,000#

SLACK-OFF WEIGHT : 4,000#

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer		
PROPOSED		DATE OF INSTALLATION	23/5/1989		
RE-COMPLETION		DRAFTED	E. Coppins	DATE	28/8/1989
COMPLETION	✓	REVISED		DATE	

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 LOWER
TEST TYPE : STATIC GRADIENT

PERFORATIONS: 8127 — 8555
FORMATION : PATCHAWARRA

PAGE: 1 OF 1
DATE: 17TH FEBRUARY 1990
OPR : R. MOORE

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	K-1889	K-1589	65865
ELEMENT RANGE	5150 PSI	5075 PSI	230-430 °F
RECORDING SECTION SERIAL NO.	K-1314	K-1313	70546
DATE OF CALIBRATION:	8/12/89	8/12/89	
CLOCK SERIAL NO.	25509	25508	25511
CLOCK RANGE	3 HR.	3 HR.	3 HR.
LEAD SCREW TYPE	15 TLS	15 TLS.	15 TLS
ENGAGE STYLUS DATE 17/2/90 TIME	12:28	12:28	12:28
DISENGAGE STYLUS DATE — " — TIME	14:51	14:51	14:51

RUN DATA	TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)
DATE : 17/2/90			
PRESSURE LUBRICATOR :	12:37	14728	896
RUN IN HOLE :	12:52	14714	889
ON DEPTH AT : 7650 FT.	13:56	14762	876
DATE : 17/2/90			
PULL OUT OF HOLE :	14:11	14762	896
AT SURFACE :	14:29	14755	896.
DEPRESSURE LUBRICATOR :	14:44	14755	910

MAXIMUM BHT AT 7000 FT. = 230 °F.

N.B. ALL DEPTHS ARE MEASURED FROM K.B.

DATE	TIME	REMARKS

00236

EXPERTEST PTY. LTD.

[redacted] GRADIENT REPORT

CUSTOMER : SANTOS

WELL NAME: PELICAN #2 LOWER

TEST TYPE : STATIC GRADIENT

PERFORATIONS: 8127 – 8555

FORMATION : PATCHAWARRA

PAGE: 1 OF 1

DATE: 17TH FEBRUARY 1990

OPR : R. MOORE

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMP GAUGE
ELEMENT NO.			65865
ELEMENT RANGE			230→430°F
RECORDING SECTION NO.			70546
DATE OF CALIBRATION			
CLOCK NO.			25511
CLOCK RANGE			3 HR.
LEAD SCREW TYPE			15 TCS
ENGAGE STYLUS TIME			12:28
DISENGAGE STYLUS TIME			14:51

RUN DATA	TIME (HOURS)	TUBING PRESSURE KPa)	ANNULUS PRESSURE KPa)
DATE 17/2/90			
PRESSURE LUBRICATOR	12:37	14728	896
RUN IN HOLE	12:52	14714	889
ON BOTTOM 7650 FT/M	13:56	14762	876
PULL OUT OF HOLE	14:11	14762	896
AT SURFACE	14:29	14755	896
DEPRESSURE LUBRICATOR	14:44	14755	910

MAXIMUM BHT = 230 °F @ 7000 FT KB

SURVEY DEPTH (FT KB)	UPPER PRESSURE GAUGE DEFLECTION (INCHES)	UPPER PRESSURE GAUGE PRESSURE (PSI/KPa)	UPPER PRESSURE GAUGE GRADIENT (PSI/FT)	LOWER PRESSURE GAUGE DEFLECTION (INCHES)	LOWER PRESSURE GAUGE PRESSURE (PSI/KPa)	LOWER PRESSURE GAUGE GRADIENT (PSI/FT)	TEMPERATURE GAUGE DEFLECTION (INCHES)	TEMPERATURE GAUGE TEMP (°F)
LWB								
1000								
2000								
3000								
4000								
5000								
5500							.0165	218
6000							.032	223
6500							.045	227
7000							.055	230
7500							.043	226
7650							.035	224
LWB								

ET 110

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SEQUENCE OF EVENTS

CUSTOMER : SANTOS	PERFORATIONS:	PAGE: 1 OF	
WELL NAME: PELICAN # 2L	FORMATION : PATCHAWARRA.	DATE: 19-2-90	
TEST TYPE : S.G.S.		OPR : [illegible]	

DATE/TIME	DESCRIPTION OF EVENTS
19 FEB.	
1100	M.I.R.U.
1205	PRESSURE LUBRICATOR.
1215	R.I.H. 2 4000 psi PRESSURE ELEMENTS AND ONE TEMPERATURE ELEMENT FOR S.G.S.
1307	AT BOTTOM STOP 7650' KB.
1317	POOH.
1334	IN LUBRICATOR
1344	DEPRESSURE LUB AND RETRIEVE GOOD CHARTS. SECURE WELL
1430.	RETURN TO MOOMBA.

RECEIVED
20 MAR 1990
AUSTRALIAN ENERGY
7129/2

09230

EXPERTEST PTY. LTD.
WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Monday, 19th February 1990.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN #2L	PATCHAWARRA

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21379	4825	18/ 2/90
Bottom	21821	4750	18/ 2/90

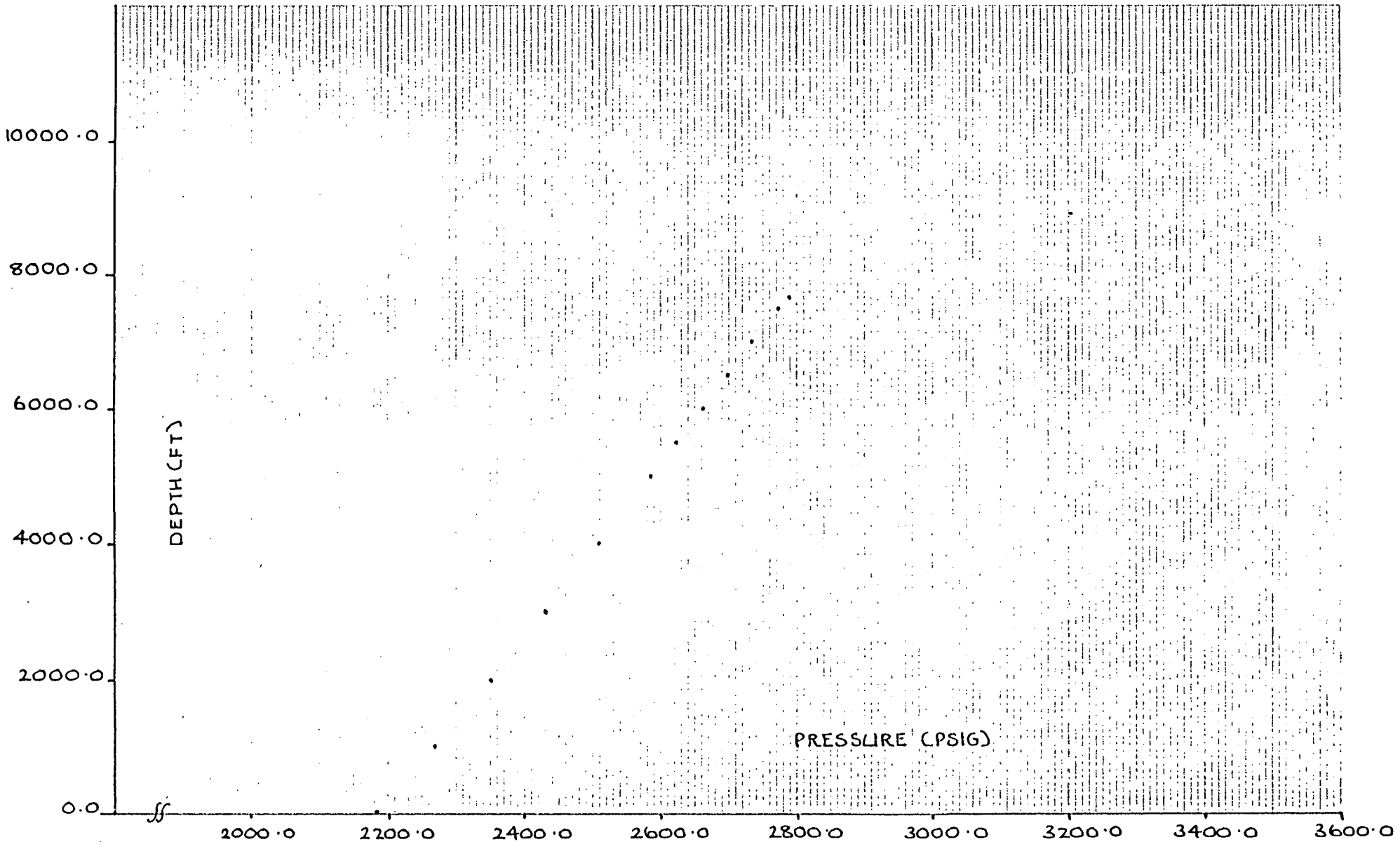
WELL DATA	
PARAMETER	VALUE
DWT In	14900 KPA
DWT Out	14900 KPA
Max BHT	

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.8800	2183.3	-----	0.8690	2187.8	-----
1000	0.9140	2267.0	0.084	0.9020	2270.8	0.083
2000	0.9480	2350.8	0.084	0.9350	2353.7	0.083
3000	0.9800	2429.8	0.079	0.9660	2431.7	0.078
4000	1.0120	2508.7	0.079	0.9970	2509.7	0.078
5000	1.0430	2585.2	0.077	1.0270	2585.2	0.076
5500	1.0580	2622.3	0.074	1.0420	2622.9	0.076
6000	1.0740	2661.8	0.079	1.0570	2660.7	0.076
6500	1.0890	2698.9	0.074	1.0720	2698.5	0.076
7000	1.1030	2733.4	0.069	1.0860	2733.7	0.071
7500	1.1190	2773.0	0.079	1.1020	2774.0	0.081
7650	1.1250	2787.8	0.099	1.1060	2784.1	0.067
LUB.	0.8830	2190.6	-----	0.8690	2187.8	-----

GENERAL REMARKS

DOUBLE BASELINE DRAWN ON CHART OF BOTTOM ELEMENT
TEMPERATURE ELEMENT # 22819 (179-411 DEG F) RUN.

PELICAN # 2 LOWER — STATIC PRESSURE GRADIENT — 19/2/90
ELEMENT # 21379/4825 (TOP)



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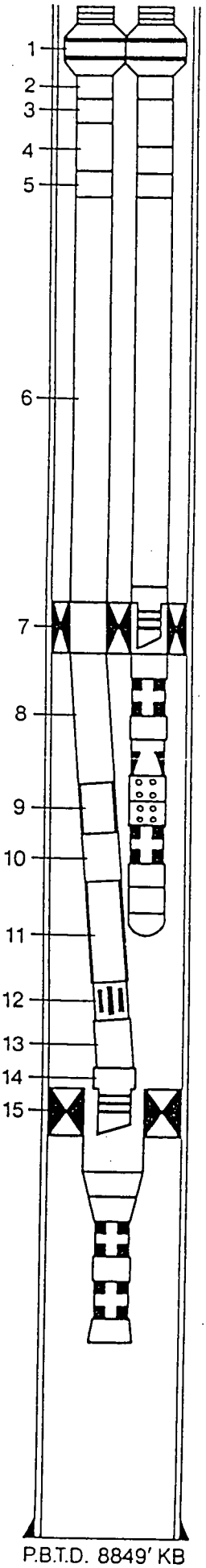
00241

PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION PELICAN 2 L



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	17 · 50	0 · 00	
1	C.I.W. 2⅞" split hanger segment 2⅞" CS	0 · 67	17 · 50	
	Hydril box up x 2⅞" AB-DSS box down			
2	2⅞" AB-DSS J55 pin x pin nipple	0 · 35		
3	X-over 2⅞" x 2⅜" AB-IJ3SS box x pin	1 · 76		
4	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 45		
5	1 x 4' & 1 x 2' 2⅜" AB-DSS J55 4·7#	5 · 72		
	pup joints			
6	241 joints 2⅜" J55 4·7# Baker Duece tubing	7635 · 37		
7	Baker A5 dual packer size47C4 c/w 2⅜"	10 · 07	7691 · 82	
	AB-IJ3SS box up pin down			
8	3 joints 2⅜" J55 4·7# Baker Duece tubing	94 · 96		
9	1 20' x 2⅜" AB-IJ3SS L80 box x pin	19 · 72	7796 · 85	
	blast joint			
10	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 67	7816 · 57	
11	2 20' x 2⅜" AB-IJ3SS L80 box x pin	39 · 44	7847 · 24	
	blast joints			
12	Otis 121XDH18710 2⅜" AB-IJ3SS sliding	3 · 50	7886 · 68	
	sleeve			
13	1 joint 2⅜" J55 4·7# Baker Duece tubing	31 · 62		
14	Baker G-22 locator seal assembly size 81-32	2 · 84	7921 · 80	
	c/w 2⅜" AB-IJ3SS box up			
	Permanent Downhole Equipment			
15	Baker 7" DB packer 84-32 4½" AB-IJ3SS	4 · 08	7921 · 80	
	box down			

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	CHARGES: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)
PATCHAWARRA						
81-0	8127' - 8158'	5"	HSD	6	HMX	22
82-8	8340' - 8367'	5"	HSD	6	HMX	22
85-7	8547' - 8555'	5"	HSD	6	HMX	22

REMARKS: NOTE: Could not pass thru 7744' KB on Long String with 1·5" Stem and jars

ANNULUS FLUID : 1102 kg/m³ 2% KCl brine plus 1 drum Applied 2100

INDICATED STRING WEIGHT : 28,000#

CALCULATED STRING WEIGHT : 32,000#

SLACK-OFF WEIGHT : 4,000#

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer	
PROPOSED		DATE OF INSTALLATION	23/5/1989	
RE-COMPLETION		DRAFTED	E. Coppins	DATE 28/8/1989
COMPLETION	✓	REVISED		DATE

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS
WELL NAME: PELICAN # 2L
TEST TYPE : S.G.S.
PERFORATIONS:
FORMATION : PATCH.
PAGE: 1 OF
DATE: 19.2.90
OPR : RAM

GAUGE DATA		UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.		21379	21821	22819
ELEMENT RANGE	psi	4825	4750	179-411°
RECORDING SECTION SERIAL NO.		59288	14619	30929
DATE OF CALIBRATION:	@ 290°F	18.2.90	18.2.90	
CLOCK SERIAL NO.		A15012	A16080	A16081.
CLOCK RANGE	hr	3	3	3.
LEAD SCREW TYPE	TLS	15	15	15
ENGAGE STYLUS DATE	19.2.90. TIME	1147	"	"
DISENGAGE STYLUS DATE	19.2.90. TIME	1352	"	"

RUN DATA		TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE :	19.2.90.			
PRESSURE LUBRICATOR :		1205		
RUN IN HOLE :		1215	14900	800
ON DEPTH AT :	7650 FT/M	1307		
DATE :	19.2.90			
PULL OUT OF HOLE :		1317	14900	800
AT SURFACE :		1334		
DEPRESSURE LUBRICATOR :		1344	14900	800
MAXIMUM BHT AT FT/M = °F/C				
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS
		DOUBLE BASELINE DRAWN ON ELEMENT # 21821.

n242

[redacted] GRADIENT REPORT

CUSTOMER : SANTOS.
WELL NAME: PELICAN # 2L
TEST TYPE : S.G.S.

PERFORATIONS:
FORMATION :

PAGE: 1 OF .
DATE: 19.2.90
OPR : RAM.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMP GAUGE	SURVEY DEPTH (FT/M KB)	UPPER PRESSURE GAUGE DEFLECTION (INCHES)	UPPER PRESSURE GAUGE PRESSURE (PSI/KPa)	UPPER PRESSURE GAUGE GRADIENT (PSI/FT)	LOWER PRESSURE GAUGE DEFLECTION (INCHES)	LOWER PRESSURE GAUGE PRESSURE (PSI/KPa)	LOWER PRESSURE GAUGE GRADIENT (PSI/FT)	TEMPERATURE GAUGE DEFLECTION (INCHES)	TEMPERATURE GAUGE TEMP (°F/°C)
ELEMENT NO.			22819	LUB.							0	
ELEMENT RANGE			179-411°	1000							0	
RECORDING SECTION NO.			30929.	2000							0	
DATE OF CALIBRATION				3000							0.102	205.18
				4000							0.280	221.44
CLOCK NO.			A 16081	5000							0.416	235.64
CLOCK RANGE			3 hour	5500							0.453	239.9
LEAD SCREW TYPE			15 TLS.	6000							0.484	243.46
				6500							0.510	246.6
ENGAGE STYLUS TIME			1147	7000							0.521	248.03
DISENGAGE STYLUS TIME			1352.	7500							0.507	246.21
				7650							0.493	244.5.
				LUB.							0.	

RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
DATE 19.2.90			
PRESSURE LUBRICATOR	1205		
RUN IN HOLE	1215		
ON BOTTOM 7650 FT/M	1307.		
PULL OUT OF HOLE	1317		
AT SURFACE	1334		
DEPRESSURE LUBRICATOR	1344.		

MAXIMUM BHT = °F/°C @ FT/M KB

ET 110

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ROLLING BOTTOMHOLE PRESSURE SURVEY GAS CALCULATION SHEET

WELL: Pelican #2L

ORIFICE SIZE:	32.000	mm	1.260	"	Pf =	8000	kPa
LINE SIZE:	73.660	mm	2.900	"	T =	53	°C
					Diff =	7.2	kPa

Cumulative Production to end of Sep '90 = 19.5 $m^3 \times 10^6$

Number of hours online in Sep '90 = 24.9 days.

Production in Sep '90 = 1.2665 $m^3 \times 10^6$

∴ Average flow rate in Sep '90 = (1.2665/24.9) ~~x 24~~ = 0.051 $m^3 \times 10^6/d$

Number of days online in Sep '90 ~~before~~ after Shut In 1700 hrs 25 / 9 / 90
= 0.458 days.

∴ Production ~~up to~~ after 1700 hrs 25/ 9 /90 = 0.458 x 0.051 = 0.023 $m^3 \times 10^6$

Total cumulative production = 19.5 - 0.0234
= 19.477 $m^3 \times 10^6$
= 691.3 mmscf ✓

Flow rate just prior to Shut In = 0.044 $m^3 \times 10^6$
= 1.565 mmscf/d ✓ h

SUB-SURFACE PRESSURE SURVEY

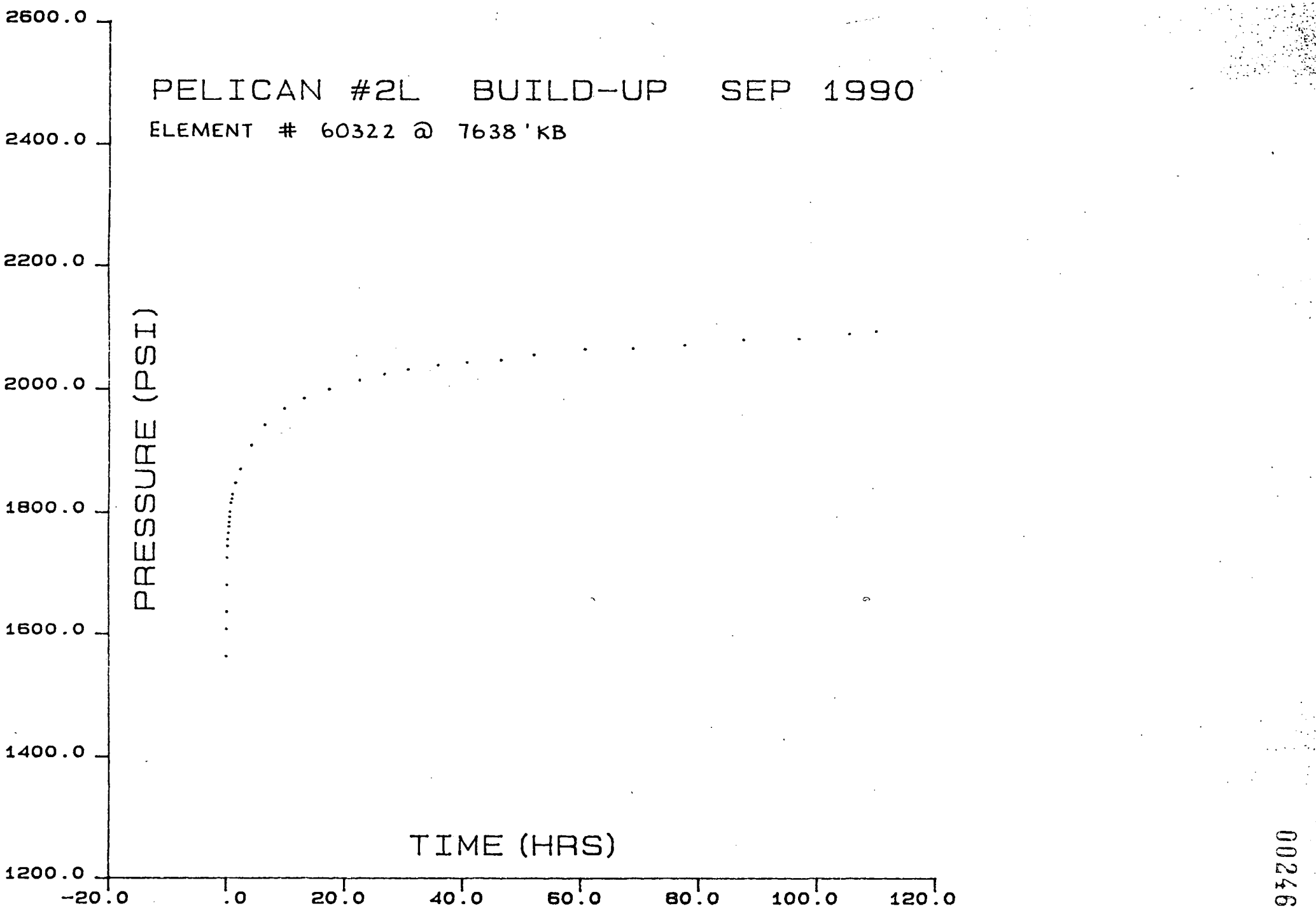
CO.			RUN 10 FIELD PELICAN		WELL 02L
EFF DEPTH			WELL STAT	TOOL HUNG	7638'KB
CASING		-	CASING PRESS	ON BOTTOM	1300 25/9
LINER		-	TUBING PRESS	OFF BOTTOM	0700 30/9
DATE	900930		ELEMENT RANGE 0 - 5130	ZERO POINT	
ELEVATION			ZONE	SHUT-IN	1700 25/9
MAX TEMP			PICK-UP	ON-PROD	
PERF		-	CAL SER NO. 60322	MPP	
TUBING		-			
UNITS	ENGLISH		PURPOSE BUILD-UP		

SURVEY DATA

CO. RUN 10 FIELD PELICAN WELL 02L

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
17:00	1563.7	1563.7	.0	23:29	1942.5	1942.5	6.5
17:02	1608.1	1608.1	.0	2:44	1968.8	1968.8	9.7
17:04	1636.5	1636.5	.1	6:07	1985.6	1985.6	13.1
17:04	1680.4	1680.4	.1	10:20	1999.6	1999.6	17.3
17:08	1725.3	1725.3	.1	15:29	2014.3	2014.3	22.5
17:10	1744.0	1744.0	.2	19:43	2024.3	2024.3	26.7
17:14	1755.2	1755.2	.2	23:44	2032.0	2032.0	30.7
17:19	1765.9	1765.9	.3	4:49	2039.1	2039.1	35.8
17:23	1776.7	1776.7	.4	9:44	2043.8	2043.8	40.7
17:26	1784.2	1784.2	.4	15:27	2047.1	2047.1	46.5
17:32	1792.9	1792.9	.5	21:02	2055.0	2055.0	52.0
17:36	1800.7	1800.7	.6	5:42	2064.3	2064.3	60.7
17:46	1815.4	1815.4	.8	13:52	2065.7	2065.7	68.9
17:54	1822.7	1822.7	.9	22:36	2071.4	2071.4	77.6
18:02	1830.2	1830.2	1.0	8:35	2080.2	2080.2	87.6
18:28	1848.0	1848.0	1.5	17:55	2081.9	2081.9	96.9
19:19	1870.5	1870.5	2.3	2:29	2090.4	2090.4	105.5
21:11	1908.9	1908.9	4.2	7:00	2094.6	2094.6	110.0

LUB IN DWT = 1184 PSI / OUT = 1684 PSI
LUB IN AMERADA = 1172 PSI / OUT = 1678 PSI


PELICAN #2L BUILD-UP SEP 1990
ELEMENT # 60322 @ 7638'KB
PRESSURE (PSI)
2600.0
2400.0
2200.0
2000.0
1800.0
1600.0
1400.0
1200.0
TIME (HRS)
-20.0
.0
20.0
40.0
60.0
80.0
100.0
120.0

00246

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 20 FIELD PELICAN		WELL 02L	
EFF DEPTH		WELL STAT		TOOL HUNG	7644'
CASING	-	CASING PRESS		ON BOTTOM	1300 25/9
LINER	-	TUBING PRESS		OFF BOTTOM	0700 30/9
DATE	900930	ELEMENT RANGE	0 - 5211	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	1700 25/9
MAX TEMP		PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	59451	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BUILD-UP		

SURVEY DATA

CO. RUN 20 FIELD PELICAN WELL 02L

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
17:00	1565.6	1565.6	.0	0:52	1968.6	1968.6	7.9
17:00	1604.0	1604.0	.0	2:43	1983.5	1983.5	9.7
17:02	1647.9	1647.9	.0	5:03	1993.3	1993.3	12.0
17:04	1695.7	1695.7	.1	7:45	2004.6	2004.6	14.7
17:09	1737.2	1737.2	.2	10:18	2012.5	2012.5	17.3
17:15	1762.3	1762.3	.2	13:54	2018.3	2018.3	20.9
17:22	1786.5	1786.5	.4	17:15	2027.6	2027.6	24.2
17:34	1806.8	1806.8	.6	20:38	2036.4	2036.4	27.6
17:53	1830.2	1830.2	.9	1:38	2041.1	2041.1	32.6
18:07	1845.3	1845.3	1.1	8:13	2049.1	2049.1	39.2
18:28	1857.9	1857.9	1.5	16:06	2058.2	2058.2	47.1
18:51	1868.5	1868.5	1.8	22:07	2063.7	2063.7	53.1
19:18	1880.7	1880.7	2.3	6:08	2071.3	2071.3	61.1
20:01	1899.8	1899.8	3.0	16:30	2078.2	2078.2	71.5
20:46	1913.9	1913.9	3.8	3:02	2085.4	2085.4	82.0
21:46	1929.3	1929.3	4.8	13:17	2089.1	2089.1	92.3
22:44	1945.4	1945.4	5.7	0:12	2098.2	2098.2	103.2
23:48	1961.0	1961.0	6.8	7:00	2102.7	2102.7	110.0

LUB IN DWT = 1184 PSI / OUT = 1684 PSI
LUB IN AMERADA = 1165 PSI / OUT = 1672 PSI

EXPERTEST
WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Sunday, 30th September 1990.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN ZL	Patchawarra

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	60322	5000	19/ 5/90
Bottom	59451	5000	19/ 5/90

WELL DATA

PARAMETER	VALUE
DWT In	1673 PSIG
DWT Out	1691 PSIG
Max BHT	250 °F

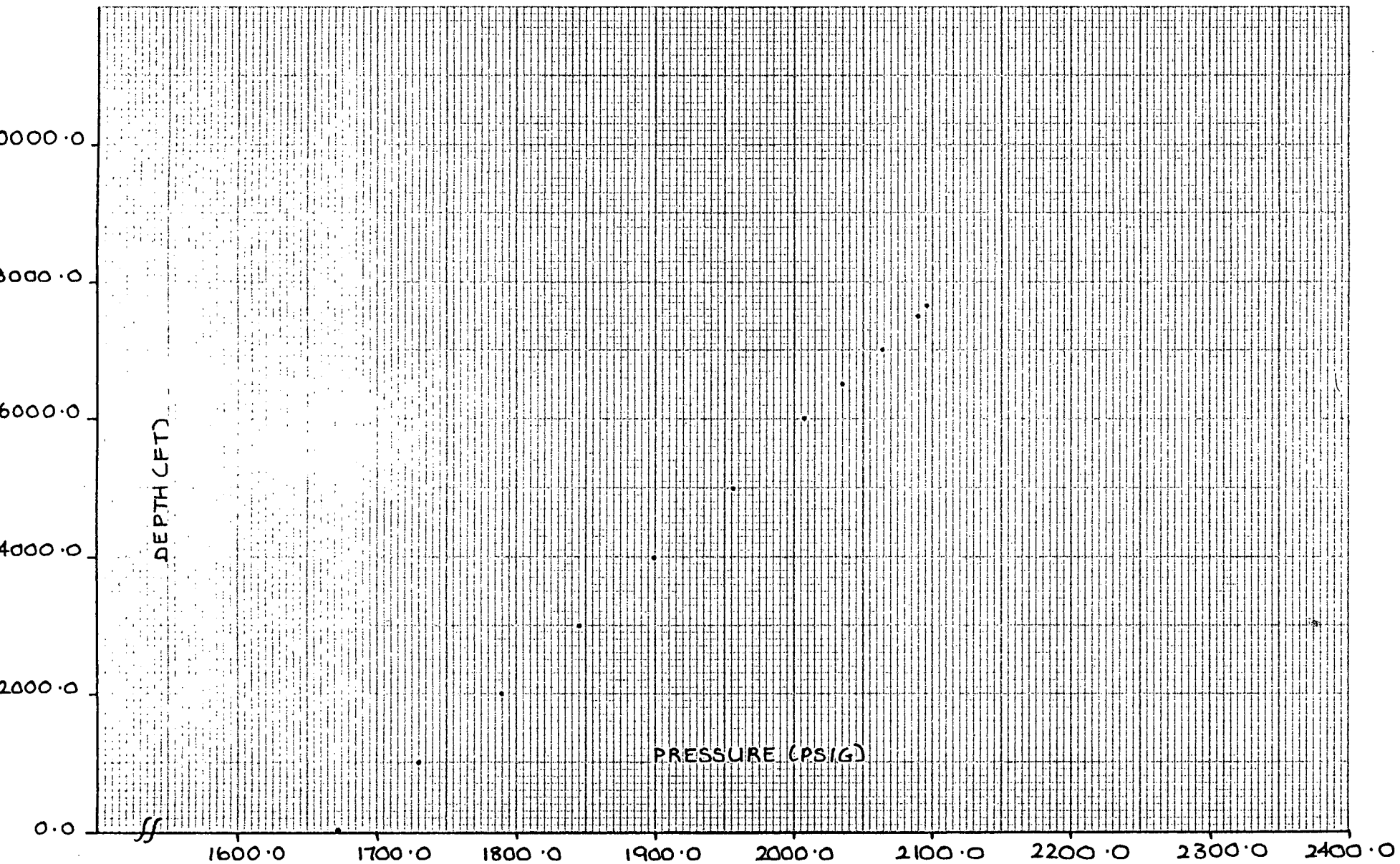
	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.6560	1671.9	-----	0.6450	1668.1	-----
1000	0.6790	1730.6	0.059	0.6680	1729.1	0.060
2000	0.7020	1789.4	0.059	0.6910	1789.1	0.060
3000	0.7240	1845.7	0.056	0.7130	1846.4	0.057
4000	0.7450	1899.4	0.054	0.7340	1901.2	0.055
5000	0.7670	1955.6	0.056	0.7550	1955.9	0.055
6000	0.7870	2006.7	0.051	0.7750	2008.0	0.052
6500	0.7980	2034.9	0.056	0.7850	2034.1	0.052
7000	0.8090	2063.0	0.056	0.7970	2065.4	0.063
7500	0.8190	2088.6	0.051	0.8060	2088.8	0.047
7650	0.8220	2096.3	0.051	0.8100	2099.3	0.070
LUB.	0.6570	1674.4	----	0.6460	1671.7	-----

GENERAL REMARKS

Temperature element ran

PELICAN # 2 LOWER — STATIC PRESSURE GRADIENT — 30/9/90

ELEMENT # 60322/5000 (TOP)



Fm 5030

67200

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER :	SANTOS	PERFORATIONS:	8127 - 8555'
WELL NAME:	PELICAN # 2L	FORMATION :	PATCHAWARRA
TEST TYPE :	STATIC GRADIENT		

PAGE: 1 OF 1
DATE: 30.9.90
OPR : M MUELLER

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	60322	59451	22819
ELEMENT RANGE	5000 PSI	5000 PSI	179-411°F
RECORDING SECTION SERIAL NO.	12952	13028	30929
DATE OF CALIBRATION:	19.5.90	19.5.90	
CLOCK SERIAL NO.	A12047	A15013	A15012
CLOCK RANGE	3HR	3HR	3HR.
LEAD SCREW TYPE	15TLS	15TLS	15TLS
ENGAGE STYLUS DATE 30.9.90 TIME	0938	0938	0938
DISENGAGE STYLUS DATE 30.9.90 TIME	1200	1200	1200

RUN DATA		TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE	: 30.9.90			
PRESSURE LUBRICATOR	:	0944	11535	172
RUN IN HOLE	:	0959	11584	172
ON DEPTH AT	: 7650 FT/M	1100	11618	172
DATE	: 30.9.90			
PULL OUT OF HOLE	:	1115	11625	165
AT SURFACE	:	1135	11653	165
DEPRESSURE LUBRICATOR	:	1150	11659	172
MAXIMUM BHT AT	FT/M = °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS

002259

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER :	SANTOS	PERFORATIONS:	8127 - 8555'
WELL NAME:	PELICAN #2L	FORMATION :	PATCHAWARRA.
TEST TYPE :	B.H.P.S.		

PAGE: 1 OF 1
DATE: 25.9.90
OPR : M MUELLER.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	60322	59451	22819
ELEMENT RANGE	5000 PSI	5000 PSI	179-411 °F
RECORDING SECTION SERIAL NO.	12952	15028	30929
DATE OF CALIBRATION:	19.5.90	19.5.90	
CLOCK SERIAL NO.	N° 1	F15695	F15295
CLOCK RANGE	120 HR	120 HR	120 HR.
LEAD SCREW TYPE	15 TPI	15 TPI	15 TPI
ENGAGE STYLUS DATE 25.9.90 TIME	1039	1039	1039
DISENGAGE STYLUS DATE 30.9.90 TIME	0927	0927	0927

RUN DATA		TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE	: 25.9.90			
PRESSURE LUBRICATOR	:	1045	8012 1162	427
RUN IN HOLE	:	1245	8164 1184	434
ON DEPTH AT	: 7650 ~~FT~~/M	1300	8191 1188	434
DATE	: 30.9.90			
PULL OUT OF HOLE	:	0700	11604 1683	165
AT SURFACE	:	0720	11604 1683	165
DEPRESSURE LUBRICATOR	:	0920	11641 1684	165
MAXIMUM BHT AT	~~FTM~~ = 248°F ~~°FIC~~			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS	IN / OUT	RUN
25/9/90	1700	Shut well in	① 1172 / 1678	10
			② 1165 / 1672	20

00251

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER :	SANTOS	PERFORATIONS:	8127' – 8555	PAGE: 1	OF 1
WELL NAME:	PELICAN # 2L.	FORMATION :	PATCHAWARRA.	DATE:	25.9.90
TEST TYPE :	B.H.P.S.			OPR :	M MUELLER.

DATE/TIME	DESCRIPTION OF EVENTS
25.9.90	
0855	FIELD OPERATOR SHUT WELL IN. FIT SWAB VALVE.
0908	WELL BACK ON LINE. RIG UP WIRELINE UNIT.
0945	RUN IN HOLE WITH 1.75" BLIND BOX.
1015	OBSTRUCTION @ 7762' KB PREVIOUS TAG DEPTH 7744' DID NOT ATTEMPT TO GO FURTHER.
1017	PULL OUT OF HOLE.
1032	IN LUBRICATOR
1045	PRESSURE LUBRICATOR
1245	RUN GAUGES IN HOLE TO 7650' KB
1300	GAUGES ON BOTTOM.
1700	SHUT WELL IN START BUILD UP.
26.9.90	
	CONTINUE BUILD UP.
27.9.90	
	CONTINUE BUILD UP.
28.9.90	
	CONTINUE BUILD UP.
29.9.90	
	CONTINUE BUILD UP.
30.9.90	
0700	COMPLETE 110 HR BUILD UP PULL ELEMENTS OUT OF HOLE.
0959	RUN STATIC GRADIENT SEE ATTACHED REPORT.
1300	RIG OFF RETURN WELL TO PRODUCTION.

00252

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS | PERFORATIONS: 8127 – 8555' | PAGE: 1 OF 3

WELL NAME: PELICAN #2L | FORMATION : PATCHAWARRA | DATE: 25.9.90

TEST TYPE : BHPS. | OPR : M MUELLER.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION			
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	
25.9.90														
1045		8012	427		100%	PRESSURE LUBRICATOR.								
1245		8164	434	57	"	RUN GAUGES IN HOLE								
1300		8191	434	57	"	GAUGES ON BOTTOM @ 7650' KB.								
1330		8191	434	57	"									
1400	1	8191	434	58	"									
1430		8198	434	58	"									
1500	2	8198	434	58	"									
1530		8198	434	58	"									
1600	3	8205	434	58	"									
1630		8184	434	58	"									
1700	4	8171	434	58	"	SHUT WELL IN START 110 HR BUILD UP.								
1715		9750	407											
1730		9943	393											
1745		10053	379											
1800	1	10122	372											
1815		10177	359											
1830		10225	352											
1845		10267	345											
1900	2	10294	338											
1915		10329	324											
1930		10356	317											

00253

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS	PERFORATIONS: 8127 - 8555'	PAGE: 2 OF 3
WELL NAME: PELICAN #2L	FORMATION : PATCHAWARRA.	DATE: 25·9·90
TEST TYPE : BHPS.		OPR : M MUELLER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
25·9·90															
1945		10384	317												
2000	3	10411	317												
2015		10453	317												
2030		10480	310												
2045		10501	310												
2100	4	10522	310												
26·9·90															
0100	8	10736	262												
0500	12	10908	248												
0900	16	10984	228												
1300	20	11060	221												
1700	24	11129	214												
2100	28	11156	214												
27·9·90															
0100	32	11177	207												
0500	36	11204	193												
0900	40	11253	200												
1300	44	11308	200												
1700	48	11328	186												
2100	52	11342	186												

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER :	SANTOS	PERFORATIONS:	8127' - 8555'
WELL NAME:	PELICAN # 2L	FORMATION :	PATCHAWARRA.
TEST TYPE :	B.H.P.S.		

PAGE: 3 OF 3

DATE: 28.9.90

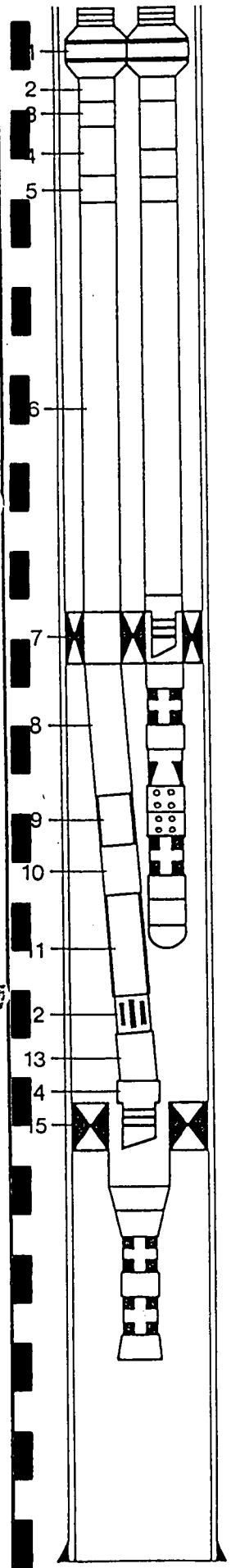
OPR : M MUELLER.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION			
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	
28.9.90														
0100	56	11349	186											
0500	60	11356	193											
0900	64	11377	193											
1300	68	11425	179											
1700	72	11446	186											
2100	76	11459	172											
29.9.90														
0100	80	11459	186											
0500	84	11466	186											
0900	88	11508	179											
1300	92	11556	179											
1700	96	11590	172											
2100	100	11584	172											
30.9.90														
0100	104	11597	179											
0500	108	11597	179											
0700	110	11604	165		PULL ELEMENTS OUT OF HOLE END BUILD UP.									
0720		11604	165		IN LUBRICATOR.									
0920		11611	165		DEPRESSURE LUBRICATOR.									
0959					RUN STATIC GRADIENT SEE ATTACHED REPORT.									
1300			RIG OFF		RETURN WELL TO PRODUCTION.									

00255

PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION PELICAN 2 L



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	17 · 50	0 · 00	
1	C.I.W. 2⅞" split hanger segment 2⅞" CS	0 · 67	17 · 50	
	Hydril box up x 2⅞" AB-DSS box down			
2	2⅞" AB-DSS J55 pin x pin nipple	0 · 35		
3	X-over 2⅞" x 2⅜" AB-IJ3SS box x pin	1 · 76		
4	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 45		
5	1 x 4' & 1 x 2' 2⅜" AB-DSS J55 4·7#	5 · 72		
	pup joints			
6	241 joints 2⅜" J55 4·7# Baker Duece tubing	7635 · 37		
7	Baker A5 dual packer size47C4 c/w 2⅜"	10 · 07	7691 · 82	
	AB-IJ3SS box up pin down			
8	3 joints 2⅜" J55 4·7# Baker Duece tubing	94 · 96		
9	1 20' x 2⅜" AB-IJ3SS L80 box x pin	19 · 72	7796 · 85	
	blast joint			
10	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 67	7816 · 57	
11	2 20' x 2⅜" AB-IJ3SS L80 box x pin	39 · 44	7847 · 24	
	blast joints			
12	Otis 121XDH18710 2⅜" AB-IJ3SS sliding	3 · 50	7886 · 68	
	sleeve			
13	1 joint 2⅜" J55 4·7# Baker Duece tubing	31 · 62		
14	Baker G-22 locator seal assembly size 81-32	2 · 84	7921 · 80	
	c/w 2⅜" AB-IJ3SS box up			
	Permanent Downhole Equipment			
15	Baker 7" DB packer 84-32 4½" AB-IJ3SS	4 · 08	7921 · 80	
	box down			

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	CHARGES: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)
PATCHAWARRA						
81-0	8127' – 8158'	5"	HSD	6	HMX	22
82-8	8340' – 8367'	5"	HSD	6	HMX	22
85-7	8547' – 8555'	5"	HSD	6	HMX	22

REMARKS: NOTE: Could not pass thru 7744' KB on Long String with 1·5" Stem and jars

ANNULUS FLUID : 1102 kg/m³ 2% KCl brine plus 1 drum Applied 2100

INDICATED STRING WEIGHT : 28,000#

CALCULATED STRING WEIGHT : 32,000#

SLACK-OFF WEIGHT : 4,000#

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer	
PROPOSED		DATE OF INSTALLATION	23/5/1989	
RE-COMPLETION		DRAFTED	E. Coppins	DATE 28/8/1989
COMPLETION	✓	REVISED		DATE

ROLLING BOTTOMHOLE PRESSURE SURVEY GAS CALCULATION SHEET

00257

WELL: Pelican # 2 Upper

ORIFICE SIZE: 30.000 mm 1.181 "

LINE SIZE: 73.660 mm 2.900 "

Pf = 8100 kPa

T = 50 °C

Diff = 6 kPa

Cumulative Production to end of Sep '90 = 14.3 $m^3 \times 10^6$

Number of hours online in Sep'90 = 28 days

Production in Sep'90 = 1.0721 $m^3 \times 10^6$

. . Average flow rate in Sep'90 = (1.0721/28) x ~~24~~ = 0.038 $m^3 \times 10^6/d$

Number of days online in ~~Sep'90~~ oct before Shut In 1300 hrs 1/10/90
= 0.542 days.

. . Production up to 1300hrs 1/10/90 = 0.038 x 0.542 = 0.021 $m^3 \times 10^6$

Total cumulative production = 14.3 + 0.021
= 14.321 $m^3 \times 10^6$
= 508.3 mmscf ✓

Flow rate just prior to Shut In = 0.037 $m^3 \times 10^6$
= 1.331 mmscf/d ✓

WP 2946G(13)
LGA/jfs : 8/12/86

7129/2

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 10	FIELD PELICAN	WELL	02U
EFF DEPTH		WELL STAT		TOOL HUNG	7718'KB
CASING	-	CASING PRESS		ON BOTTOM	0900 1/10
LINER	-	TUBING PRESS		OFF BOTTOM	0600 6/10
DATE	901006	ELEMENT RANGE	0 - 5130	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	1300 1/10
MAX TEMP		PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	60322	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BUILD-UP		

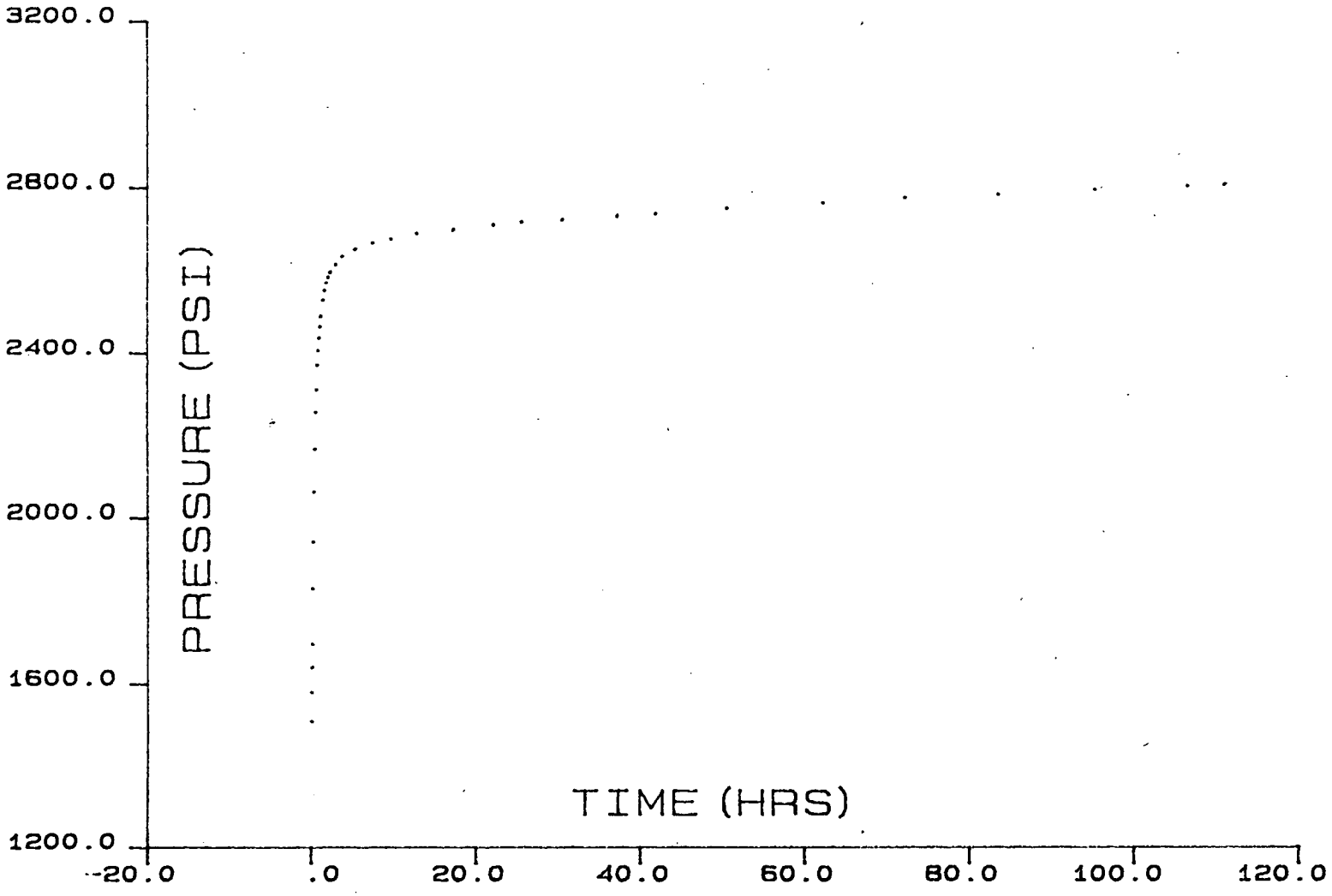
SURVEY DATA

CO. RUN 10 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
13:00	1508.2	1508.2	.0	15:57	2614.5	2614.5	3.0
13:01	1578.4	1578.4	.0	16:44	2634.4	2634.4	3.7
13:02	1640.7	1640.7	.0	18:18	2652.0	2652.0	5.3
13:04	1698.3	1698.3	.1	20:28	2669.0	2669.0	7.5
13:08	1830.3	1830.3	.1	22:40	2678.5	2678.5	9.7
13:11	1943.0	1943.0	.2	1:49	2691.7	2691.7	12.8
13:18	2061.4	2061.4	.3	6:15	2700.5	2700.5	17.2
13:25	2164.4	2164.4	.4	11:05	2712.4	2712.4	22.1
13:31	2255.0	2255.0	.5	14:31	2718.5	2718.5	25.5
13:37	2307.8	2307.8	.6	19:30	2723.7	2723.7	30.5
13:43	2368.9	2368.9	.7	2:10	2733.3	2733.3	37.2
13:48	2405.5	2405.5	.8	6:49	2738.9	2738.9	41.8
13:56	2437.4	2437.4	.9	15:31	2752.1	2752.1	50.5
14:03	2464.5	2464.5	1.0	3:16	2764.7	2764.7	62.3
14:10	2489.8	2489.8	1.2	13:16	2777.4	2777.4	72.3
14:25	2528.6	2528.6	1.4	0:34	2785.6	2785.6	83.6
14:38	2552.6	2552.6	1.6	12:19	2796.7	2796.7	95.3
14:49	2570.9	2570.9	1.8	23:36	2805.2	2805.2	106.6
15:01	2585.3	2585.3	2.0	4:08	2809.0	2809.0	111.1
15:16	2597.3	2597.3	2.3	0:00	.0	.0	.0

LUB IN DWT = 1184 PSI / OUT = 2290 PSI
LUB IN AMERADA = 1178 PSI / OUT = 2279 PSI
PLEASE NOTE; CLOCK STOPPED ≃2 HOURS BEFORE P.O.O.H.

PELICAN #2U BUILD-UP OCT 1990
ELEMENT #60322 (TOP) @ 7718'KB



SUB-SURFACE PRESSURE SURVEY

CO.		RUN 20 FIELD PELICAN		WELL 02U	
EFF DEPTH		WELL STAT		TOOL HUNG	7724'
CASING	-	CASING PRESS		ON BOTTOM	0900 1/10
LINER	-	TUBING PRESS		OFF BOTTOM	0600 6/10
DATE	901006	ELEMENT RANGE	0 - 5211	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	1300 1/10
MAX TEMP		PICK-UP	—	ON-PROD	
PERF	-	CAL SER NO.	59451	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BUILD-UP		

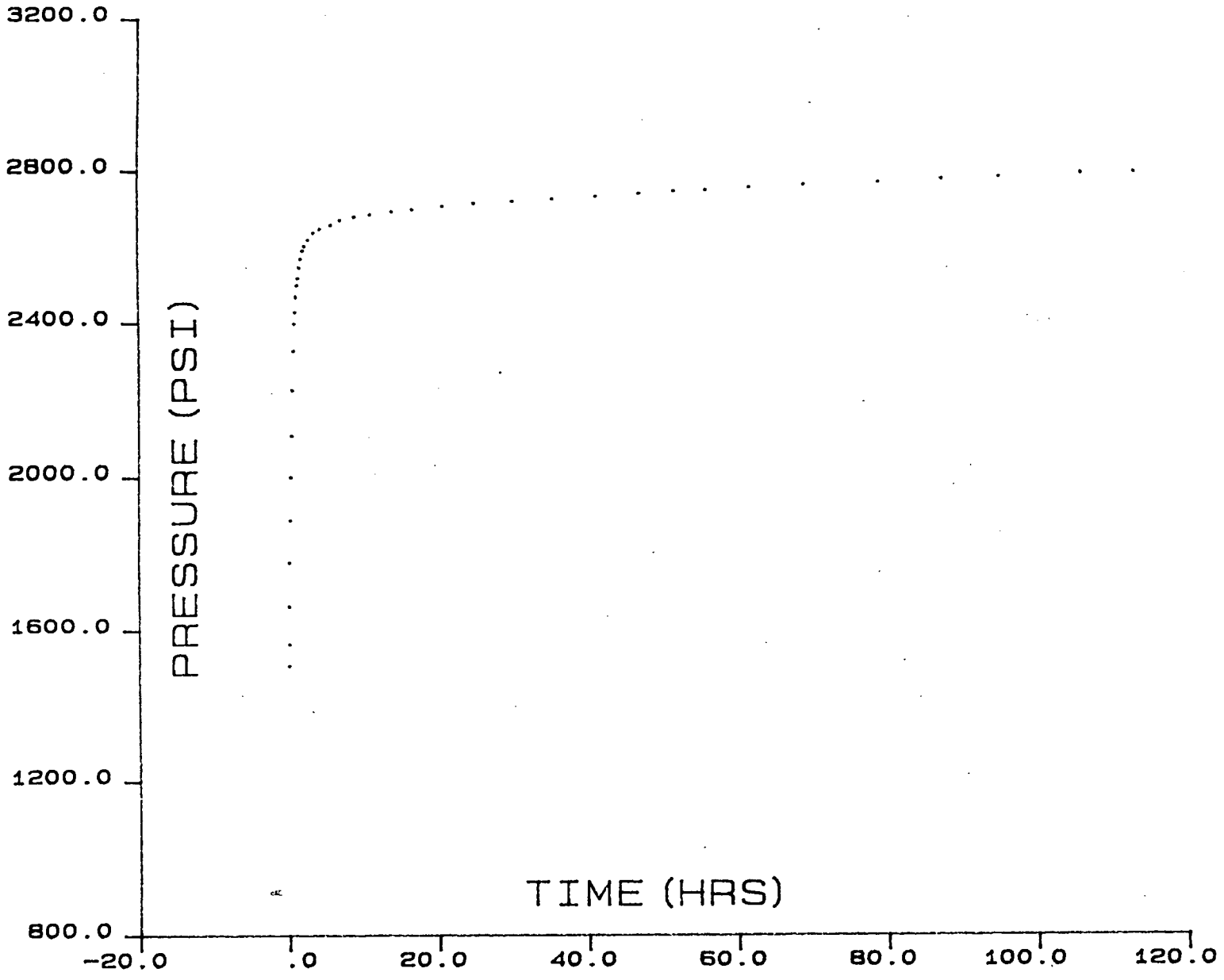
SURVEY DATA

CO. RUN 20 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
13:00	1505.8	1505.8	.0	18:49	2658.6	2658.6	5.8
13:03	1562.3	1562.3	.1	20:02	2671.0	2671.0	7.0
13:05	1662.2	1662.2	.1	21:56	2679.0	2679.0	8.9
13:07	1778.1	1778.1	.1	0:02	2685.2	2685.2	11.0
13:13	1887.8	1887.8	.2	2:56	2692.5	2692.5	13.9
13:17	1999.3	1999.3	.3	5:40	2697.8	2697.8	16.7
13:25	2106.5	2106.5	.4	9:41	2706.5	2706.5	20.7
13:31	2222.9	2222.9	.5	13:54	2713.4	2713.4	24.9
13:42	2326.6	2326.6	.7	19:01	2719.3	2719.3	30.0
13:49	2397.2	2397.2	.8	0:22	2725.2	2725.2	35.4
13:56	2427.9	2427.9	.9	6:09	2731.6	2731.6	41.1
14:04	2468.4	2468.4	1.1	11:54	2740.0	2740.0	46.9
14:13	2499.0	2499.0	1.2	16:31	2746.5	2746.5	51.5
14:21	2518.5	2518.5	1.3	20:49	2747.9	2747.9	55.8
14:34	2546.8	2546.8	1.6	2:37	2754.9	2754.9	61.6
14:46	2569.9	2569.9	1.8	9:56	2760.7	2760.7	68.9
15:03	2590.6	2590.6	2.0	19:56	2767.1	2767.1	78.9
15:18	2602.8	2602.8	2.3	4:20	2775.0	2775.0	87.3
15:47	2619.3	2619.3	2.8	11:58	2779.6	2779.6	95.0
16:29	2638.1	2638.1	3.5	22:55	2788.4	2788.4	105.9
17:21	2648.5	2648.5	4.4	6:00	2789.8	2789.8	113.0

LUB IN DWT = 1184 PSI / OUT = 2290 PSI
LUB IN AMERADA = 1169 PSI / OUT = 2268 PSI

PELICAN #2UPPER - BUILD-UP - OCT 1990
ELEMENT #59451 (BOT)



00261

EXPERTEST
WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Saturday, 6th October 1990.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN 2U	TOOLACHEE

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	60322	5000	19/ 5/90
Bottom	59451	5000	19/ 5/90

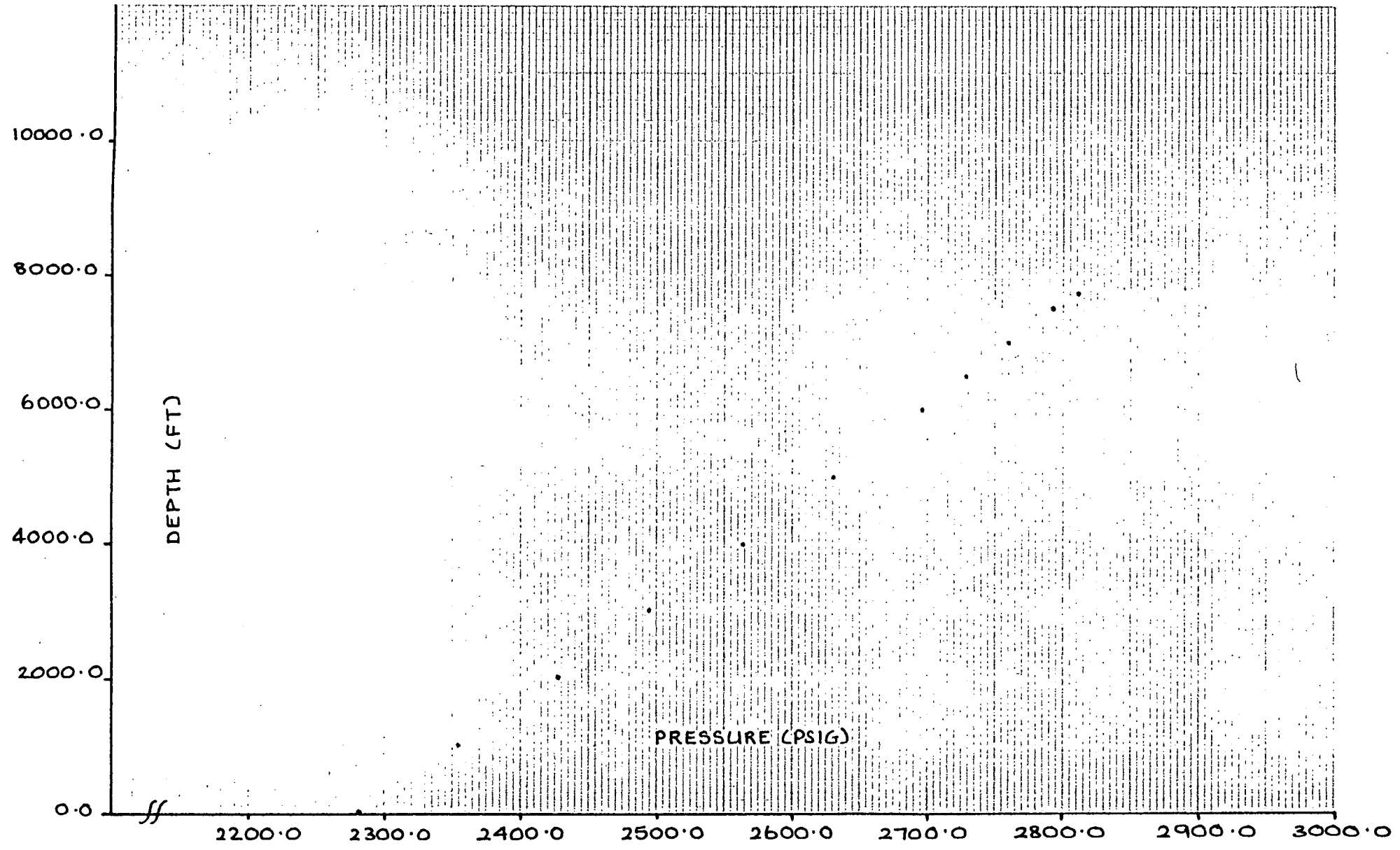
WELL DATA

PARAMETER	VALUE
DWT In	2290 PSIG
DWT Out	2290 PSIG
Max BHT	262 °F

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.8940	2280.5	-----	0.8800	2281.7	-----
1000	0.9240	2357.3	0.077	0.9080	2354.7	0.073
2000	0.9520	2429.0	0.072	0.9360	2427.7	0.073
3000	0.9780	2495.6	0.067	0.9620	2495.5	0.068
4000	1.0050	2564.8	0.069	0.9880	2563.3	0.068
5000	1.0310	2631.5	0.067	1.0140	2631.1	0.068
6000	1.0550	2693.1	0.062	1.0390	2696.3	0.065
6500	1.0680	2726.4	0.067	1.0510	2727.6	0.063
7000	1.0800	2757.2	0.062	1.0630	2758.9	0.063
7500	1.0930	2790.6	0.067	1.0760	2792.8	0.068
7730	1.0990	2806.0	0.067	1.0830	2811.1	0.079
LUB.	0.8950	2283.1	-----	0.8830	2289.6	-----

GENERAL REMARKS

PELICAN # 2 UPPER — STATIC PRESSURE GRADIENT — 6/10/90
ELEMENT # 59451/5000 (BOT)



Fm 5030

002699

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS
WELL NAME: PELICAN #2 UPPER.
TEST TYPE : BHPS.
PERFORATIONS: 7807 - 7877'
FORMATION : TOOLACHEE.
PAGE: 1 OF 1
DATE: 1.10.90
OPR : M MUELLER.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	60322	59451	22819
ELEMENT RANGE	5000 PSI	5000 PSI	179-411°F
RECORDING SECTION SERIAL NO.	12952	13028	30929
DATE OF CALIBRATION:	19.5.90	19.5.90	
CLOCK SERIAL NO.	N° 1	F15695	F15295
CLOCK RANGE	120 HR	120 HR	120 HR.
LEAD SCREW TYPE	15TPS	15TPS	15TPS
ENGAGE STYLUS DATE 1.10.90 TIME	0627	0627	0627
DISENGAGE STYLUS DATE 6.10.90 TIME	0835	0835	0835

RUN DATA		TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
DATE	: 1.10.90			
PRESSURE LUBRICATOR	:	0640	8164 1184	386
RUN IN HOLE	:	0840	8171 1185	393
ON DEPTH AT	: 7730' FT/M	0900	8171	386
DATE	: 6.10.90			
PULL OUT OF HOLE	:	0600	15789 2240	275
AT SURFACE	:	0622	15789	275
DEPRESSURE LUBRICATOR	:	0822	15789	275
MAXIMUM BHT AT	FT/M = 263 °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	TEMP ELEMENT USED / REMARKS	IN / OUT	RUN
1/10/90	1300	Shut well in	① 1178 / 2279	10
			② 1169 / 2268	20

009210

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS | PERFORATIONS: 7807' – 7877' | PAGE: 1 OF 3

WELL NAME: PELICAN #2 UPPER | FORMATION : TOOLACHEE. | DATE: 1·10·90

TEST TYPE : B.H.P.S. | OPR : M MUELLER.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
1·10·90															
0640		8164	386	51	100 %	PRESSURE LUBRICATOR FOR BHPS.									
0840		8171	393	51		RUN GAUGES IN HOLE									
0900		8171	386	51		HANG GAUGES @ 7730 'KB									
0930		8171	386	51											
1000	1	8191	386	51											
1030		8212	407	51											
1100	2	8226	407	52											
1130		8233	400	52											
1200	3	8246	400	52											
1230		8260	407	54											
1300	4	8267	407	54		SHUT WELL IN START 110 HR BUILD UP.									
1315		12273	407												
1330		13328	407												
1345		13873	386												
1400	1	14169	386												
1415		14390	386												
1430		14521	372												
1445		14617	372												
1500	2	14714	372												
1515		14748	372												
1530		14790	372												

00265

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER :	SANTOS	PERFORATIONS:	7807 - 7877'
WELL NAME:	PELICAN #2 UPPER.	FORMATION :	TOOLACHEE
TEST TYPE :	BHPS		

DATE: 1.10.90

OPR : M MUELLER.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
1.10.90															
1545		14831	372												
1600	3	14866	372												
1615		14879	365												
1630		14893	359												
1645		14914	352												
1700	4	14928	352												
2100	8	15086	331												
2.10.90															
0100	12	15128	324												
0500	16	15182	317												
0900	20	15266	317												
1300	24	15334	317												
1700	28	15348	310												
2100	32	15362	310												
3.10.90															
0100	36	15362	310												
0500	40	15397	310												
0900	44	15445	310												
1300	48	15527	303												
1700	52	15548	303												
2100	56	15541	296												

NT 2.66

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN #2 UPPER.
TEST TYPE : B.H.P.S.
PERFORATIONS: 7807-7877' KB
FORMATION : TOOLACHEE
PAGE: 3 OF 3
DATE: 4·10·90
OPR : P. BLACK

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
4·10·90															
0100	60	15534	296												
0500	64	15527	296												
0900	68														
1300	72				READINGS MISSED DUE TO S.G.S. AT DULLINGARI										
1700	76														
2100	80	15665	282												
5·10·90															
0100	84	15665	268												
0500	88	15665	268												
0900	92				READINGS MISSED DUE TO S.G.S. AT DULLINGARI.										
1300	96														
1700	100	15748	282												
2100	104	15768	262												
6·10·90															
0100	108	15768	262												
0500	112	15789	268												
0600	113	15789	268		P.O.O.H										
0622		15789	268		AT SURFACE WITH GAUGES.										
0822		15784	268		DE. PRESS. LUBRICATOR.										
					R.D.M.O.										

00267

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN 2 U.
TEST TYPE : S.G.S.

PERFORATIONS: 7807'-7877' KB
FORMATION : TOOLACHEE

PAGE: 1 OF 1
DATE: 6·10·90
OPR : P. BLACK

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	60322	59451	22819
ELEMENT RANGE	5000 PSI	5000 PSI	179-411°F
RECORDING SECTION SERIAL NO.	12952	13028	30929
DATE OF CALIBRATION:	19·5·90	19·5·90	
CLOCK SERIAL NO.	25508	25511	16080
CLOCK RANGE	3 HRS	3 HRS	3 HRS.
LEAD SCREW TYPE	15 TLS	15 TLS	15 TLS
ENGAGE STYLUS DATE 6·10·90 TIME	0844	0844	0844
DISENGAGE STYLUS DATE 6·10·90 TIME	1111	1111	1111

RUN DATA		TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE	: 6·10·90			
PRESSURE LUBRICATOR	:	0855	15789	275
RUN IN HOLE	:	0910		
ON DEPTH AT	: 7730' FT/~~M~~	1020	15789	275
DATE	: 6·10·90			
PULL OUT OF HOLE	:	1025		
AT SURFACE	:	1046	15789	275
DEPRESSURE LUBRICATOR	:	1101		
MAXIMUM BHT AT	FT/M = °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS
		ALL CHARTS OKAY.

892-00

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER :	SANTOS	PERFORATIONS:	7807' - 7877'
WELL NAME:	PELICAN #2 UPPER	FORMATION :	TOOLACHEE.
TEST TYPE :	BHPS.		

PAGE: 1 OF 1
DATE: 30.9.90
OPR : M MUELLER.

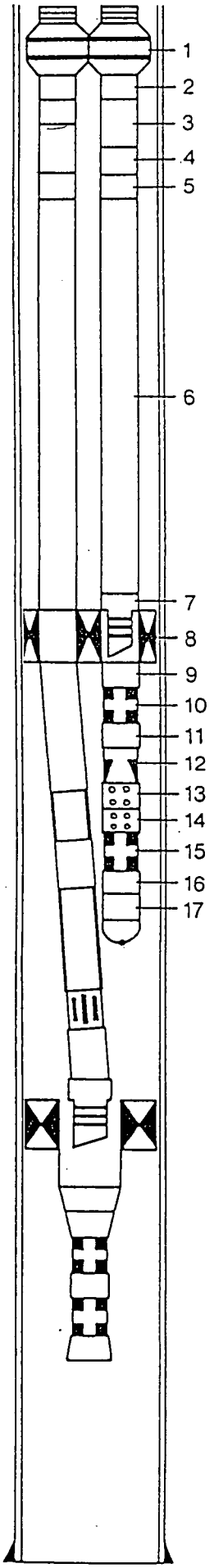
DATE/TIME	DESCRIPTION OF EVENTS
30.9.90	
	SHUT WELL IN & CHANGE SWAB VALVE & LUBRICATOR FROM LOWER ZONE TO UPPER ZONE.
1320	WELL BACK ON LINE.
1330	RUN IN HOLE WITH 1.75" BLIND BOX.
1350	TAG END TUBING @ 7730' KB
1352	PULL OUT OF HOLE.
1410	IN LUBRICATOR SECURE WELL.
1.10.90	
0640	PRESSURE LUBRICATOR FOR BHPS.
0840	RUN PRESSURE GAUGES IN HOLE.
0900	GAUGES AT HANG DEPTH OF 7730' KB WELL FLOWING ON 100% CHOKE.
1300	SHUT WELL IN & START 110 HR BUILD UP.
5.10.90	
0600	P.O.O.H WITH B.H.P. GAUGES
0622	AT SURFACE WITH GAUGES
0822	DEPRESSURE LUBRICATOR. ALL CHARTS GOOD.
0910	R.I.H WITH B.H.P GAUGES FOR S.G.S.
1020	AT BOTTOM STOP OF 7730' KB
1025	P.O.O.H
1046	AT SURFACE WITH B.H.P GAUGES.
1101	DEPRESSURE LUBRICATOR. ALL CHARTS GOOD.
1130	R.D.M.O

ET 102

00269

PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION PELICAN 2 U



P.B.T.D. 8849' KB

ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	17 · 50	0 · 00	
1	C.I.W. 2⅜" split hanger segment 2⅜" CS	0 · 67	17 · 50	
	Hydril box up x 2⅜" AB-DSS box down			
2	2⅜" AB-DSS J55 pin x pin nipple	0 · 35		
3	1 joint 2⅜" J55 4·7# Baker Duece tubing	31 · 63		
4	8' x 2⅜" AB-DSS J55 4·7# pup joint	7 · 74		
5	6' x 2⅜" AB-DSS J55 4·7# pup joint	5 · 95		
6	241 joints 2⅜" J55 4·7# Baker Duece tubing	7630 · 93		
7	2⅜" Baker model S snap latch c/w 2⅜"	1 · 26	7694 · 78	
	AB-IJ3SS box up			
	Permanent Downhole Equipment			
8	Baker A5 dual packer 47C4 c/w snap latch	8 · 13	7694 · 78	
	bore box up & 2⅜" AB-IJ3SS pin down			
9	6' x 2⅜" AB-DSS J55 4·7# pup joint	5 · 71		
10	Otis 2⅜" 711X18701 landing nipple AB-IJ3SS	0 · 97	7708 · 62	1 · 875
	box x pin			
11	6' x 2⅜" AB-DSS J55 4·7# pup joint	5 · 92		
12	Baker 2⅜" AB-IJ3SS box x pin model E	1 · 48	7715 · 51	
	hydrotrip sub			
13	10' x 2⅜" AB-IJ3SS J55 4·7# perf pup joint	9 · 95		
14	10' x 2⅜" AB-IJ3SS J55 4·7# perf pup joint	9 · 93		
15	Otis 2⅜" 711XN18703 landing nipple	1 · 06	7736 · 87	1 · 791
	AB-IJ3SS box x pin			
16	12' x 2⅜" AB-DSS J55 4·7# pup joint	11 · 76		
17	X-over 2⅜" AB-DSS box x 2⅜" EUE pin	0 · 85		

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	CHARGES: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)
TOOLACHEE						
78-2	7807' - 7810'	5"	HSD	6	HMX	22
78-6	7855' - 7877'	5"	HSD	6	HMX	22

REMARKS: NOTE: Can not pass thru 7744' KB on Long String with 1·5" Stem and jars

ANNULUS FLUID : 1102 kg/m³ 2% KCl brine plus 1 drum Applied 2100

INDICATED STRING WEIGHT : 25,000#

CALCULATED STRING WEIGHT : 31,000#

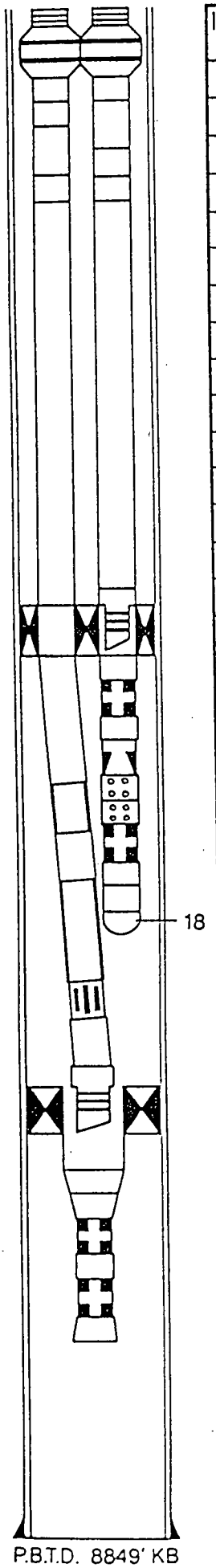
SLACK-OFF WEIGHT : 6,000#

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer	
PROPOSED		DATE OF INSTALLATION	22/5/1989	
RE-COMPLETION		DRAFTED	E. Coppins	DATE 28/8/1989
COMPLETION	✓	REVISED		DATE

PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION PELICAN 2 U



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
18	2⅜" EUE collar 2⅜" EUE tapped ½" NPT	0·63		
	bull plug c/w ½" NPT plug			
	End of tailpipe		7751·17	

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	CHARGES: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)

REMARKS:

ANNULUS FLUID :

INDICATED STRING WEIGHT :

CALCULATED STRING WEIGHT :

SLACK-OFF WEIGHT :

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer	
PROPOSED		DATE OF INSTALLATION	22/5/1989	
RE-COMPLETION		DRAFTED	E. Coppins	DATE 28/8/1989
COMPLETION	✓	REVISED		DATE

CONTENTS OF VOLUME TWO

		MESA NO.
REPORTS:	**Bon, J.G., 1990.** Analytical contractor's results for the reservoir fluid PVT study of samples taken in December 1989 from the Lower producing zone during the modified isochronal test (Petrolab, 12/9/90).	**7129/2 R 10** Pgs 272-288
	Briancourt, W., 1991. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 16-21/8/91 (Expertest Pty Ltd).	**7129/2 R 11** Pgs 289-300
	Grindlay, A., 1991. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 22-31/8/91 (Expertest Pty Ltd).	**7129/2 R 12** Pgs 301-314
	Kurasiak, I., 1992. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 1-7/9/92 (Expertest Pty Ltd).	**7129/2 R 13** Pgs 315-326
	Bowyer, P., 1992. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 7-13/9/92 (Expertest Pty Ltd).	**7129/2 R 14** Pgs 327-338
	Keane, K., 1993. Field maintenance contractor's results for the reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Upper producing zone, conducted over the period 10-16/7/93 (Expertest Pty Ltd).	**7129/2 R 15** Pgs 339-350
	Hull, B., Keane, K. and Black, P., 1993. Field maintenance contractor's results for the liquids evaluation test plus reservoir pressure monitoring 96 hour buildup, bottomhole pressure and static pressure gradient surveys of the Lower producing zone, conducted over the period 14-23/7/93 (Expertest Pty Ltd).	**7129/2 R 16** Pgs 351-373

END OF CONTENTS

47 Woodforde Road, Magill,
South Australia, 5072
P.O. Box 410,
Magill, South Australia, 5072

PETROLAB

Fax: 364 1500
Telex: AA88214
Tel: (08) 364 1500
(08) 333 0787

Reservoir Fluid and Core Services, Laboratory Consulting and Analysis

Adelaide, September 12 1990
P. O. Box 410
Magill, S. A. 5072

Santos Limited
101 Grenfell Street
Adelaide
S.A. 5001

Subject: Reservoir Fluid Study
Well : Pelican # 2 Lower
File : S - 90001

Attention: Mr. Bruce Richardson

Dear Sirs,

Please find enclosed our results of reservoir fluid analyses performed on samples from the subject well.

Part of this report, including the quality checks on the three sets of separator samples received, separator gas and liquid compositions, as well as the calculated wellstream had been reported on pages 1 through 8, earlier this year.

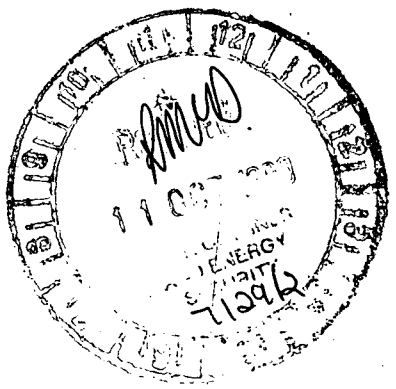
The remainder of this report, pages 9 through 16, contain data pertaining to a constant mass experiment, using recombined reservoir fluid of the best set of separator samples.

During this constant mass study at the reservoir temperature of 230 °F, a dew point pressure of 2210 psig was observed.

We thank Santos Limited for the opportunity to be of service. If there remain any questions or if we can assist in any other way please do not hesitate in contacting us.

Yours sincerely,

Jan G. Bon
Manager



P E T R O L A B

Company : Santos Limited
Well : Pelican # 2 Lower
File : S-90001

Surface Samples Set # 1

Sampling Conditions

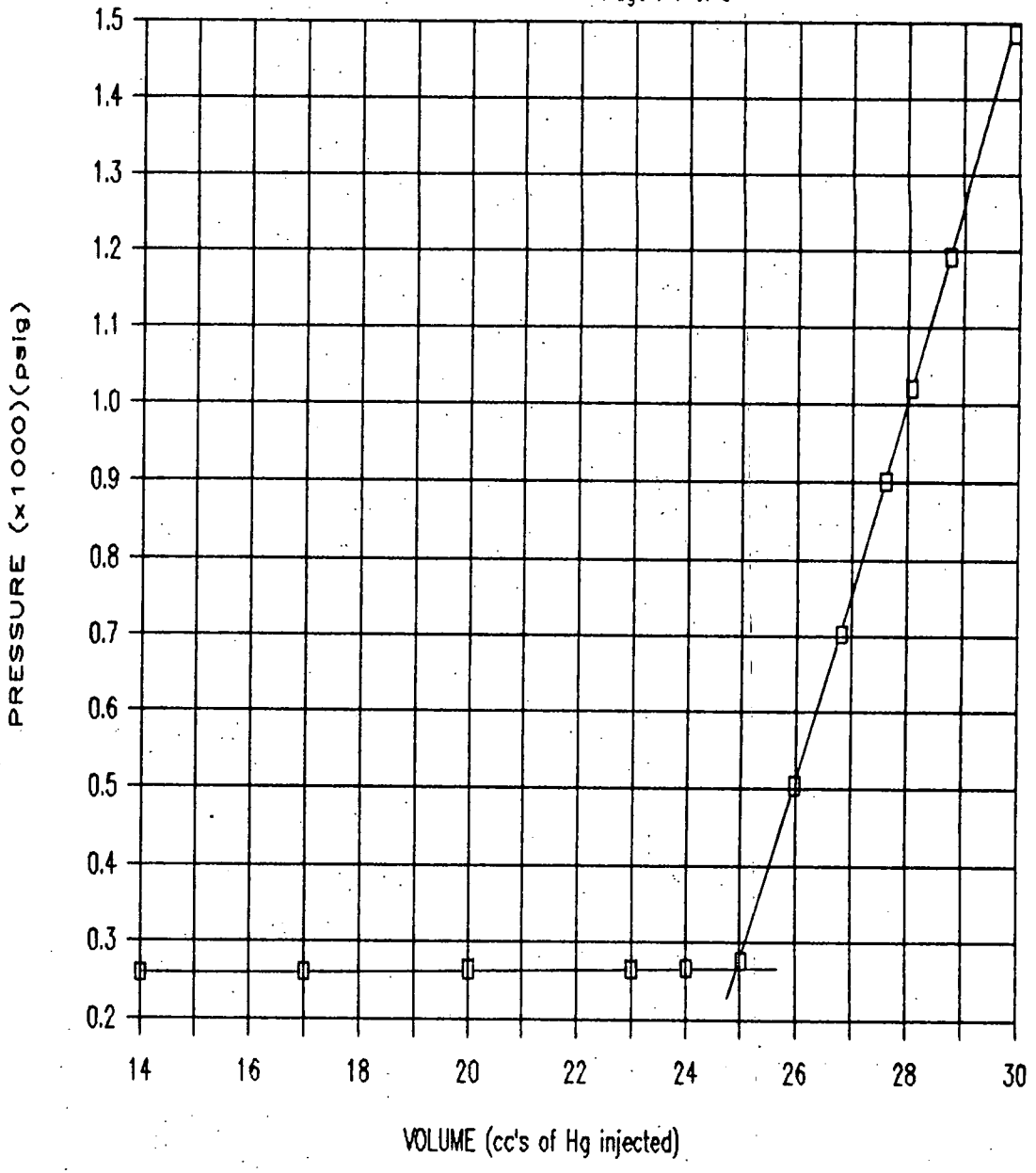
Date : December 26 1989
Pressure : 290 psig
Temperature : 96 deg F

Cylinder # : EC 9448 (gas)
Opening Pressure : 310 psig @ 149 deg F

Cylinder # : 300 (liquid)
Opening Pressure : 255 psig @ 93 deg F

Volume (cc's)	Pressure (psig)
14.00	259
17.00	261
20.00	264
23.00	266
24.00	267
25.00	277
25.97	503
26.81	703
27.60	902
28.07	1020
28.76	1193
29.91	1486

Saturation Pressure : 268 psig @ 91 deg F.



PETROLAB

Company : Santos Limited
Well : Pelican # 2 Lower
File : S-90001

Surface Samples Set # 2

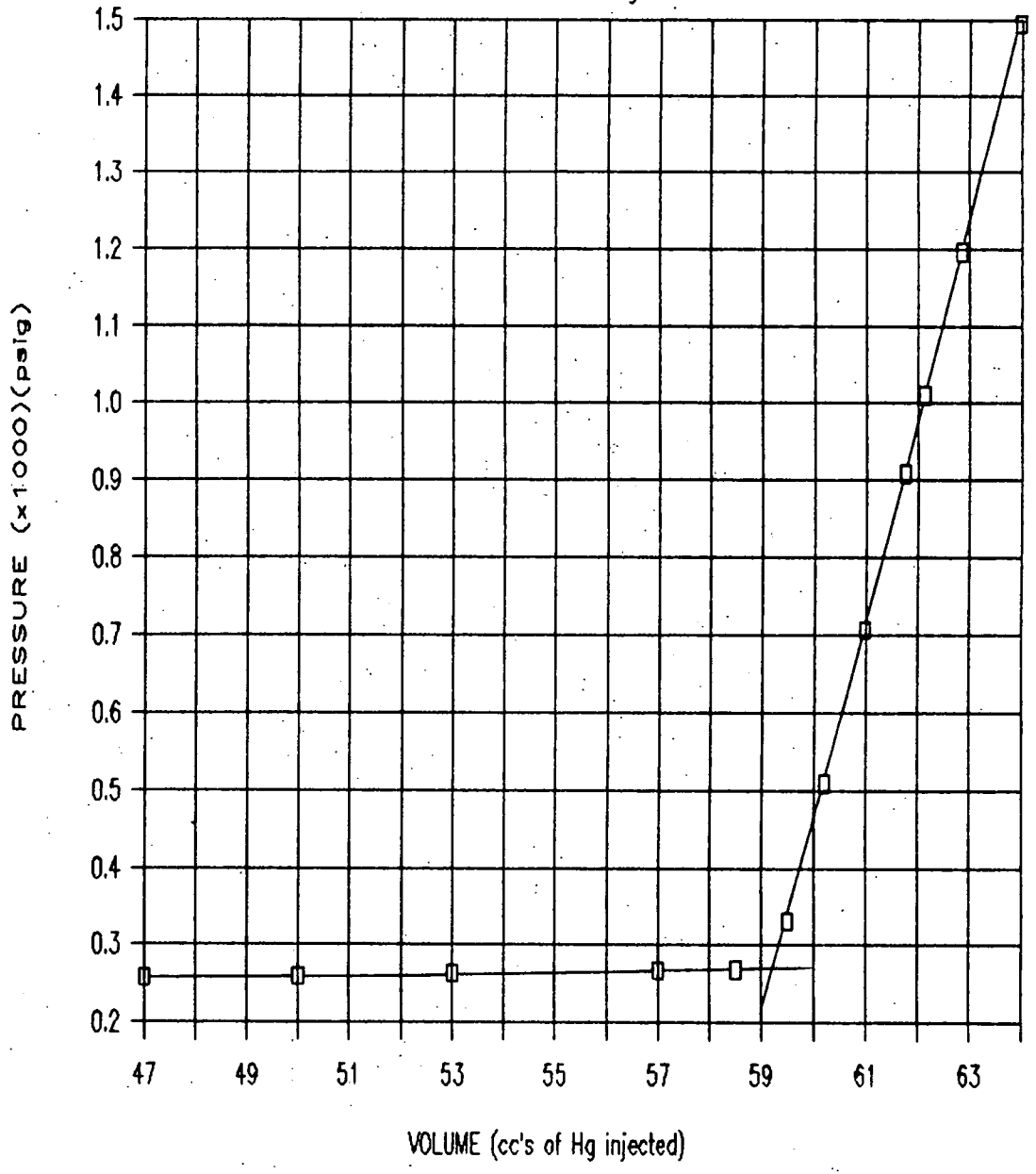
Sampling Conditions
Date : December 26 1989
Pressure : 290 psig
Temperature : 96 deg F

Cylinder # : EC 9464 (gas)
Opening Pressure : 315 psig @ 149 deg F

Cylinder # : A - 009 (liquid)
Opening Pressure : 250 psig @ 91 deg F

Volume (cc's)	Pressure (psig)
47.00	258
50.00	260
53.00	263
57.00	267
58.50	268
59.50	331
60.21	509
60.97	706
61.75	908
62.13	1010
62.85	1197
63.98	1495

Saturation Pressure : 269 psig @ 91 deg F.



P E T R O L A B

Company : Santos Limited
Well : Pelican # 2 Lower
File : S-90001

Surface Samples Set # 3

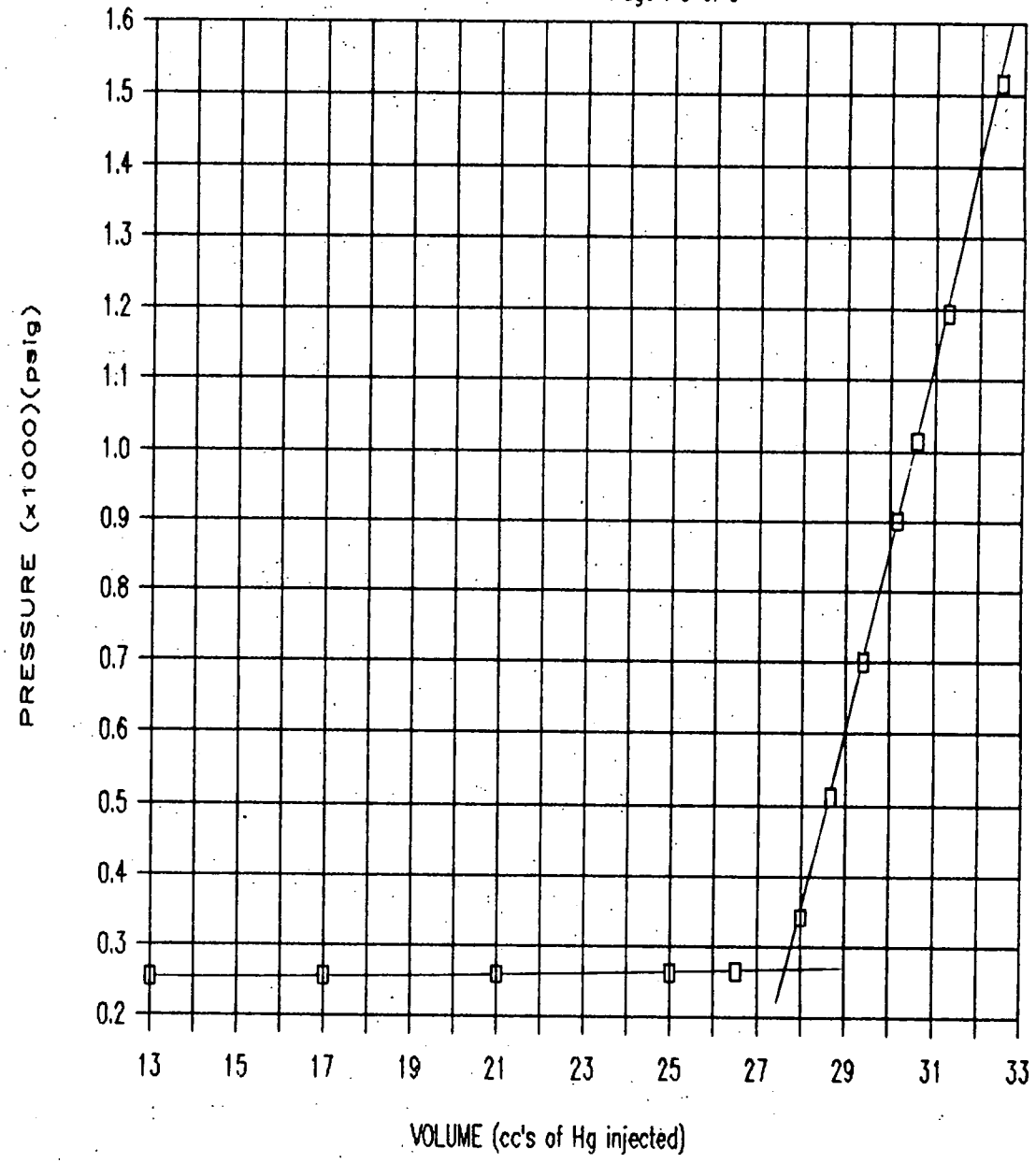
Sampling Conditions
Date : December 26 1989
Pressure : 290 psig
Temperature : 96 deg F

Cylinder # : EC 9455 (gas)
Opening Pressure : 310 psig @ 149 deg F

Cylinder # : A - 006 (liquid)
Opening Pressure : 253 psig @ 91 deg F

Volume (cc's)	Pressure (psig)
13.00	254
17.00	257
21.00	260
25.00	263
26.50	265
28.00	342
28.65	512
29.39	701
30.16	901
30.60	1015
31.29	1195
32.50	1515

Saturation Pressure : 267 psig @ 91 deg F.



P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

COMPOSITIONAL ANALYSIS OF SEPARATOR GAS

Cyl # EC 9448

Component	Mol %	GPM
Hydrogen Sulphide	0.00	
Carbon Dioxide	26.72	
Nitrogen	0.27	
Methane	61.73	
Ethane	5.82	1.558
Propane	2.03	0.560
Iso-Butane	0.26	0.085
N-Butane	0.63	0.199
Iso-Pentane	0.21	0.077
N-Pentane	0.28	0.101
Hexanes	0.35	0.136
Heptanes	1.00	0.421
Octanes	0.43	0.196
Nonanes	0.19	0.095
Decanes	0.08	0.044
Undecanes	0.00	0.000
Dodecanes Plus	0.00	0.000
TOTAL	100.00	3.472

Pressure Base :	14.696
Zsc:	0.996
Mol Weight :	27.31
Gas Gravity:	0.946
Pc :	767.9
Tc :	435.2
Mol Weight C7+:	103.4
Density C7+:	0.6935
Mol Weight C8+:	113.9
Density C8+:	0.7063
Heating Value (BTU/ft3)	
Gross:	944
Nett:	857
Wobbe Index:	971
Zpt:	0.939

Liquid Content (Bbl/MMSCF of Raw Gas):

Ethane :	27.6
L P G :	19.3
Pentanes Plus:	26.6

Remarks: Laboratory Opening Pressure - 310 psig @ 149 deg F

Sampled at 290 psig and 96 deg F

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

File: S 90001

COMPOSITIONAL ANALYSIS OF SEPARATOR GAS

Cyl # EC 9464

Component	Mol %	GPM
Hydrogen Sulphide	0.00	
Carbon Dioxide	26.87	
Nitrogen	0.27	
Methane	62.42	
Ethane	5.81	1.555
Propane	2.00	0.552
Iso-Butane	0.25	0.082
N-Butane	0.58	0.183
Iso-Pentane	0.16	0.059
N-Pentane	0.26	0.094
Hexanes	0.38	0.148
Heptanes	0.47	0.198
Octanes	0.27	0.123
Nonanes	0.18	0.090
Decanes	0.08	0.044
Undecanes	0.00	0.000
Dodecanes Plus	0.00	0.000
TOTAL	100.00	3.128

Pressure Base :	14.696
Zsc:	0.997
Mol Weight :	26.71
Gas Gravity:	0.926
Pc :	770.5
Tc :	430.6
Mol Weight C7+:	106.5
Density C7+:	0.6974
Mol Weight C8+:	115.8
Density C8+:	0.7085
Heating Value (BTU/ft3)	
Gross:	909
Nett:	824
Wobbe Index:	945
Zpt:	0.942
Liquid Content (Bbl/MMSCF of Raw Gas):	
Ethane :	27.6
L P G :	18.6
Pentanes Plus:	18.8

Remarks: Laboratory Opening Pressure - 315 psig @ 149 deg F

Sampled at 290 psig and 96 deg F

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

COMPOSITIONAL ANALYSIS OF SEPARATOR GAS

Cyl # EC 9455

Component	Mol %	GPM
Hydrogen Sulphide	0.00	
Carbon Dioxide	26.96	
Nitrogen	0.28	
Methane	63.33	
Ethane	5.77	1.544
Propane	1.92	0.529
Iso-Butane	0.23	0.075
N-Butane	0.50	0.158
Iso-Pentane	0.15	0.055
N-Pentane	0.20	0.072
Hexanes	0.30	0.117
Heptanes	0.24	0.101
Octanes	0.09	0.041
Nonanes	0.03	0.015
Decanes	0.00	0.000
Undecanes	0.00	0.000
Dodecanes Plus	0.00	0.000
TOTAL	100.00	2.707

Pressure Base :	14.696
Zsc:	0.997
Mol Weight :	25.98
Gas Gravity:	0.900
Pc :	773.2
Tc :	425.0
Mol Weight C7+:	100.8
Density C7+:	0.6902
Mol Weight C8+:	110.5
Density C8+:	0.7023

Heating Value (BTU/ft3)

Gross:	867
Nett:	785
Wobbe Index:	914
Zpt:	0.946

Liquid Content (Bbl/MMSCF of Raw Gas):

Ethane :	27.4
L P G :	17.4
Pentanes Plus:	9.9

Remarks: Laboratory Opening Pressure - 310 psig @ 149 deg F

Sampled at 290 psig and 96 deg F

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

COMPOSITIONAL ANALYSIS OF RECOMBINED SEPARATOR LIQUID

Cylinder # A 009

Component		Stock Tank Liquid Mol %	Stock Tank Gas Mol %	Separator Liquid Mol %
Hydrogen Sulphide	H2S	0.00	0.00	0.00
Carbon Dioxide	CO2	0.44	30.58	5.36
Nitrogen	N2	0.00	0.07	0.01
Methane	C1	0.18	30.96	5.20
Ethane	C2	0.46	13.70	2.62
Propane	C3	1.23	10.29	2.71
Iso-Butane	iC4	0.54	1.81	0.75
N-Butane	nC4	1.86	4.34	2.27
Iso-Pentane	iC5	1.40	1.24	1.37
N-Pentane	nC5	2.56	1.77	2.43
Hexanes	C6	6.39	2.08	5.68
Heptanes	C7	21.65	2.24	18.49
Octanes	C8	18.90	0.71	15.93
Nonanes	C9	17.56	0.16	14.72
Decanes	C10	8.61	0.05	7.21
Undecanes	C11	4.35	0.00	3.64
Dodecanes Plus	C12+	13.86	0.00	11.61
TOTAL		100.00	100.00	100.00
Ratios				
Molar Ratio	:	0.8368	0.1632	1.0000
Mass Ratio	:	0.9421	0.0579	1.0000
Liquid Ratio (bbl/bbl)	:	1.0000 @ SC	--	1.0476 @ PT*
Gas Liquid Ratio	:	1.0000 bbl @ SC	164 SCF	--
Stream Properties				
Molecular Weight	:	119.8	37.77	106.4
Density obs. (gm/cc)	:	0.7576 @ 60 F	--	0.7680 @ PT*
Gravity (AIR = 1.000)	:	55.1 API @60F	1.315	--
GHV (BTU/scf)	:	--	1420	--
Hexanes Plus Properties				
Mol %	:	91.33	5.24	77.28
Molecular Weight	:	125.6	93.9	125.2
Density (gm/cc @ 60 F)	:	0.7674	0.6807	0.7666
Gravity (API @ 60 F)	:	52.7	76.2	52.9
Heptanes Plus Properties				
Mol %	:	84.94	3.16	71.60
Molecular Weight	:	128.7	100.3	128.5
Density (gm/cc @ 60 F)	:	0.7720	0.6896	0.7714
Gravity (API @ 60 F)	:	51.6	73.5	51.7
Decanes Plus Properties				
Mol %	:	26.82	0.05	22.46
Molecular Weight	:	175.4	--	175.3
Density (gm/cc @ 60 F)	:	0.8133	--	0.8133
Gravity (API @ 60 F)	:	42.3	--	42.3
Undecanes Plus Properties				
Mol %	:	18.21	0.00	15.25
Molecular Weight	:	195.0	--	194.8
Density (gm/cc @ 60 F)	:	0.8255	--	0.8255
Gravity (API @ 60 F)	:	39.8	--	39.8
Dodecanes Plus Properties				
Mol %	:	13.86	0.00	11.61
Molecular Weight	:	210.0	--	209.8
Density (gm/cc @ 60 F)	:	0.8339	--	0.8339
Gravity (API @ 60 F)	:	38.0	--	38.0

* (P)ressure 290 psig, (T)emperature 96 deg.F

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

File: S 90001

COMPOSITIONAL ANALYSIS OF RECOMBINED RESERVOIR FLUID

Cyl. # A 009 Cyl. # EC 9455

Component		Separator Liquid Mol %	Separator Gas Mol %	Reservoir Fluid Mol %
Hydrogen Sulphide	H2S	0.00	0.00	0.00
Carbon Dioxide	CO2	5.36	26.96	26.79
Nitrogen	N2	0.01	0.28	0.28
Methane	C1	5.20	63.33	62.87
Ethane	C2	2.62	5.77	5.75
Propane	C3	2.71	1.92	1.93
Iso-Butane	iC4	0.75	0.23	0.23
N-Butane	nC4	2.27	0.50	0.51
Iso-Pentane	iC5	1.37	0.15	0.16
N-Pentane	nC5	2.43	0.20	0.22
Hexanes	C6	5.68	0.30	0.34
Heptanes	C7	18.49	0.24	0.38
Octanes	C8	15.93	0.09	0.21
Nonanes	C9	14.72	0.03	0.15
Decanes	C10	7.21	0.00	0.06
Undecanes	C11	3.64	0.00	0.03
Dodecanes Plus	C12+	11.61	0.00	0.09
TOTAL		100.00	100.00	100.00
Ratios				
Molar Ratio	:	0.0078	0.9922	1.0000
Mass Ratio	:	0.0314	0.9686	1.0000
Gas Liquid Ratio	:	1.0000 bbl @ PT*	121478 SCF**	--
Stream Properties				
Molecular Weight	:	106.4	25.98	26.6
Density obs. (gm/cc)	:	0.7680 @ PT*	--	--
Gravity (AIR = 1.000)	:	--	0.900	--
GHV (BTU/scf)	:	--	867	--
Hexanes Plus Properties				
Mol %	:	77.28	0.66	1.26
Molecular Weight	:	125.2	93.2	108.6
Density (gm/cc @ 60 F)	:	0.7666	0.6798	0.7253
Gravity (API @ 60 F)	:	52.9	76.5	63.4
Heptanes Plus Properties				
Mol %	:	71.60	0.36	0.92
Molecular Weight	:	128.5	100.8	117.6
Density (gm/cc @ 60 F)	:	0.7714	0.6902	0.7423
Gravity (API @ 60 F)	:	51.8	73.3	58.9
m.w C_{8+} = 131.5 $\rho_{C_{8+}}$ = 0.767				
Decanes Plus Properties				
Mol %	:	22.46	0.00	0.18
Molecular Weight	:	175.3	--	171.5
Density (gm/cc @ 60 F)	:	0.8133	--	0.8133
Gravity (API @ 60 F)	:	42.3	--	42.3
Undecanes Plus Properties				
Mol %	:	15.25	0.00	0.12
Molecular Weight	:	194.8	--	194.1
Density (gm/cc @ 60 F)	:	0.8255	--	0.8255
Gravity (API @ 60 F)	:	39.7	--	39.7
Dodecanes Plus Properties				
Mol %	:	11.61	0.00	0.09
Molecular Weight	:	209.8	--	212.2
Density (gm/cc @ 60 F)	:	0.8339	--	0.8339
Gravity (API @ 60 F)	:	38.0	--	38.0

* (P)ressure 290 psig, (T)emperature 96 deg F
** 121478 SCF / SEP BBL @ PT = 127260 SCF / ST BBL
GOR correction: * 1.054 (=Fg lab) / 0.926 (=Fg field)

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

CONSTANT MASS STUDY
@ 230 deg F

Pressure (psig)	Relative Volume (V/Vsat) (1)	Formation Volume Factor (Bg) (2)	Gas Expansion Factor (E) (3)	Deviation Factor (Z)	Specific Volume (CFT/LB)
5000	0.4968	0.00353	283.53	0.907	0.05008
4520	0.5306	0.00377	265.46	0.876	0.05349
4030	0.5752	0.00408	244.88	0.847	0.05798
3538 *	0.6370	0.00452	221.10	0.824	0.06422
3315	0.6723	0.00477	209.51	0.815	0.06777
3100	0.7143	0.00507	197.19	0.810	0.07200
2710	0.8094	0.00575	174.00	0.803	0.08160
2520	0.8712	0.00619	161.67	0.804	0.08782
2210 **	1.0000	0.00710	140.84	0.810	0.10081

* Reservoir Pressure
** Dew Point Pressure

(1) Cubic feet of gas at indicated pressure and temperature per cubic foot at saturation pressure

(2) Cubic feet of gas at indicated pressure and temperature per cubic foot at 14.696 psia and 60 deg F

(3) Cubic feet of gas at 14.696 psia and 60 deg F per cubic foot at indicated pressure and temperature

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

CONSTANT MASS STUDY
@ 230 deg F

Pressure (psig)	Relative Volume (V/Vsat) (1)	Retrograde Liquid Deposit (Bbl/MMSCF) (2)	Retrograde Liquid Deposit (Volume%) (3)
2210 *	1.0000	0.00	0.00
2135	1.0387	0.51	0.04
2015	1.1055	3.34	0.26
1910	1.1701	5.81	0.46
1800	1.2471	8.22	0.65
1635	1.3835	10.97	0.87
1510	1.5077	12.45	0.98
1350	1.7006	13.76	1.09

* Dew Point Pressure

(1) Cubic feet at indicated pressure and temperature per cubic foot at saturation pressure

(2) Barrels of liquid at indicated pressure and temperature per MMSCF of original reservoir fluid

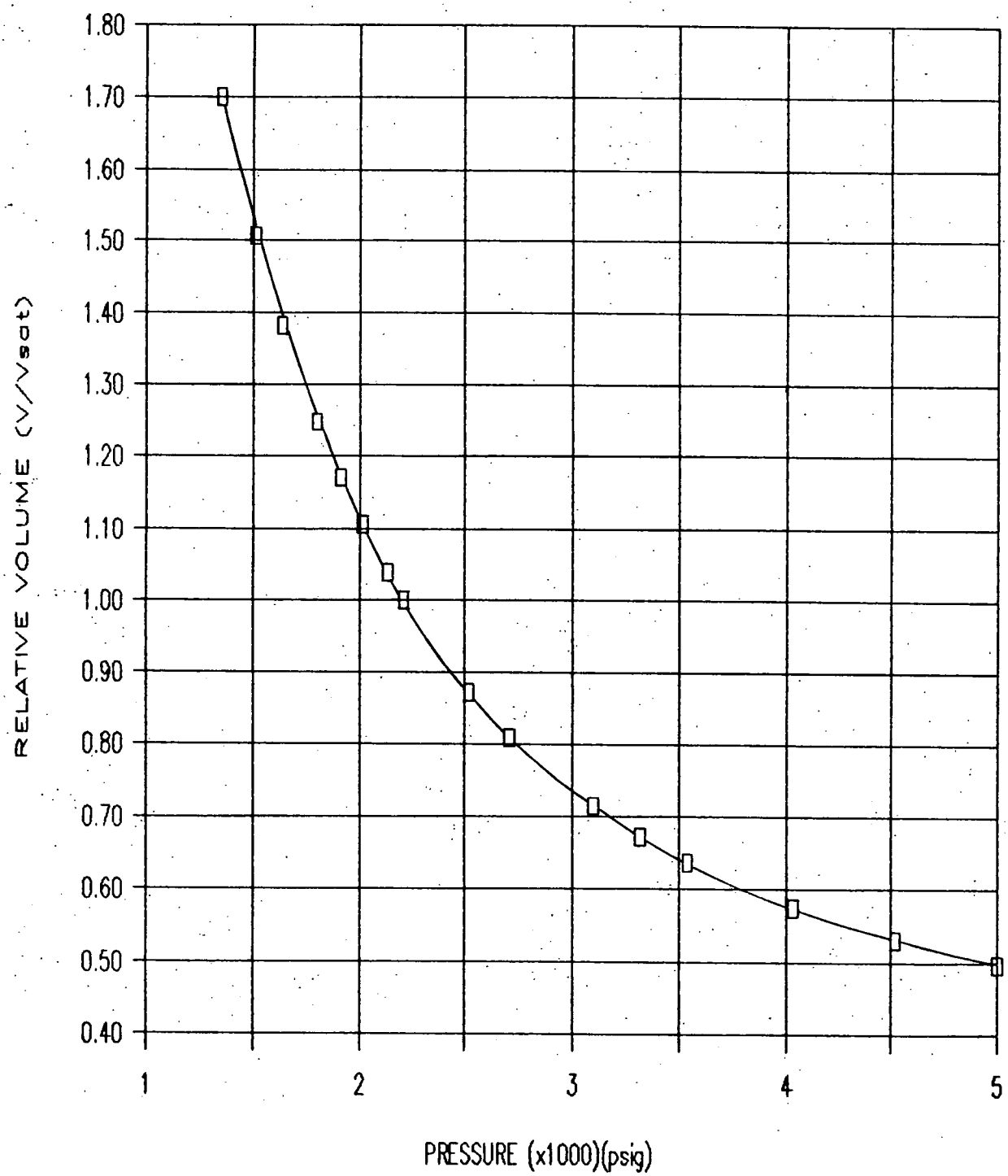
(3) Percent of reservoir hydrocarbon pore space at dew point

P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

File: S 90001

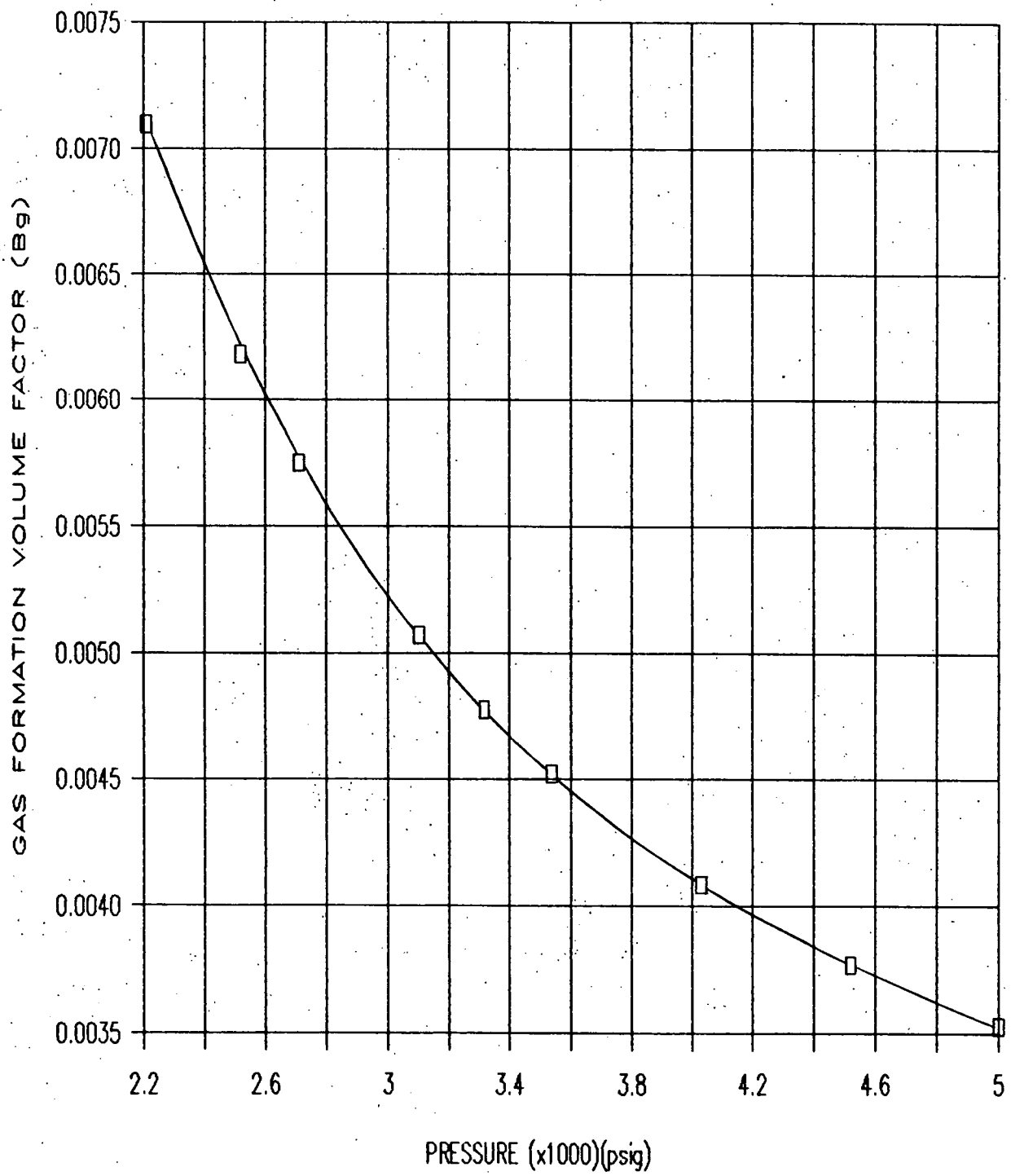
RELATIVE VOLUME



P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

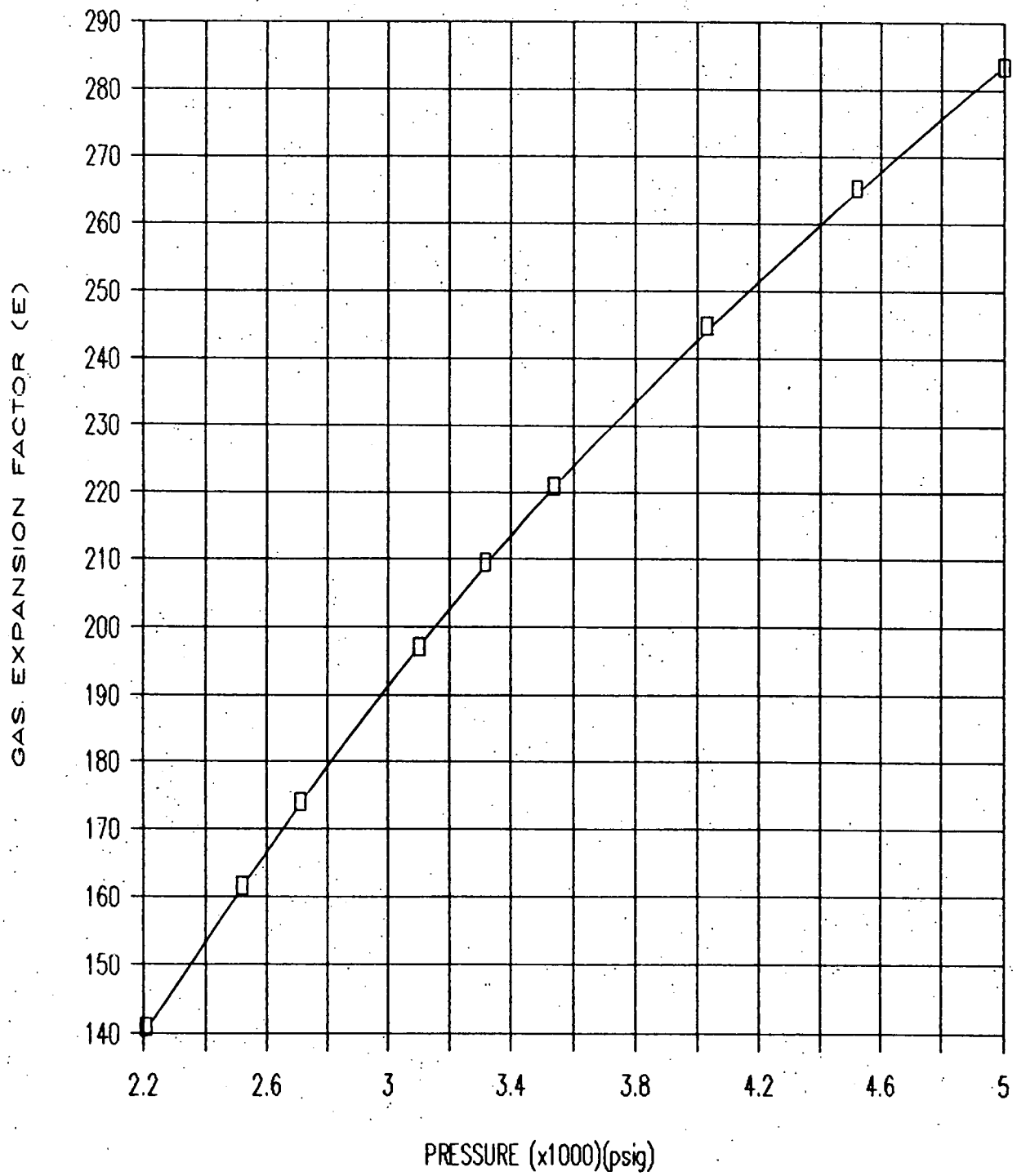
GAS FORMATION VOLUME FACTOR



P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

GAS EXPANSION FACTOR

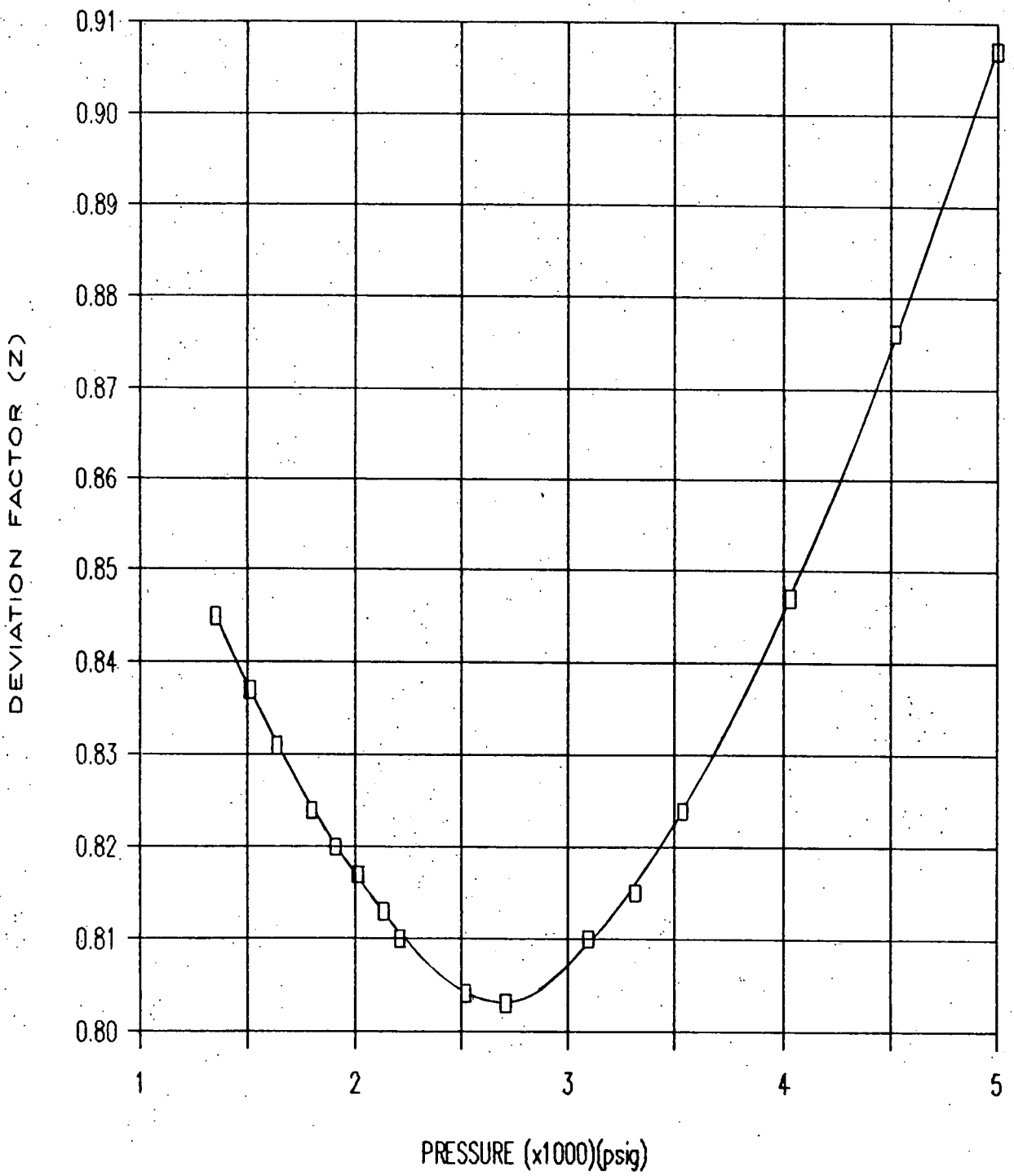


P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

File: S 90001

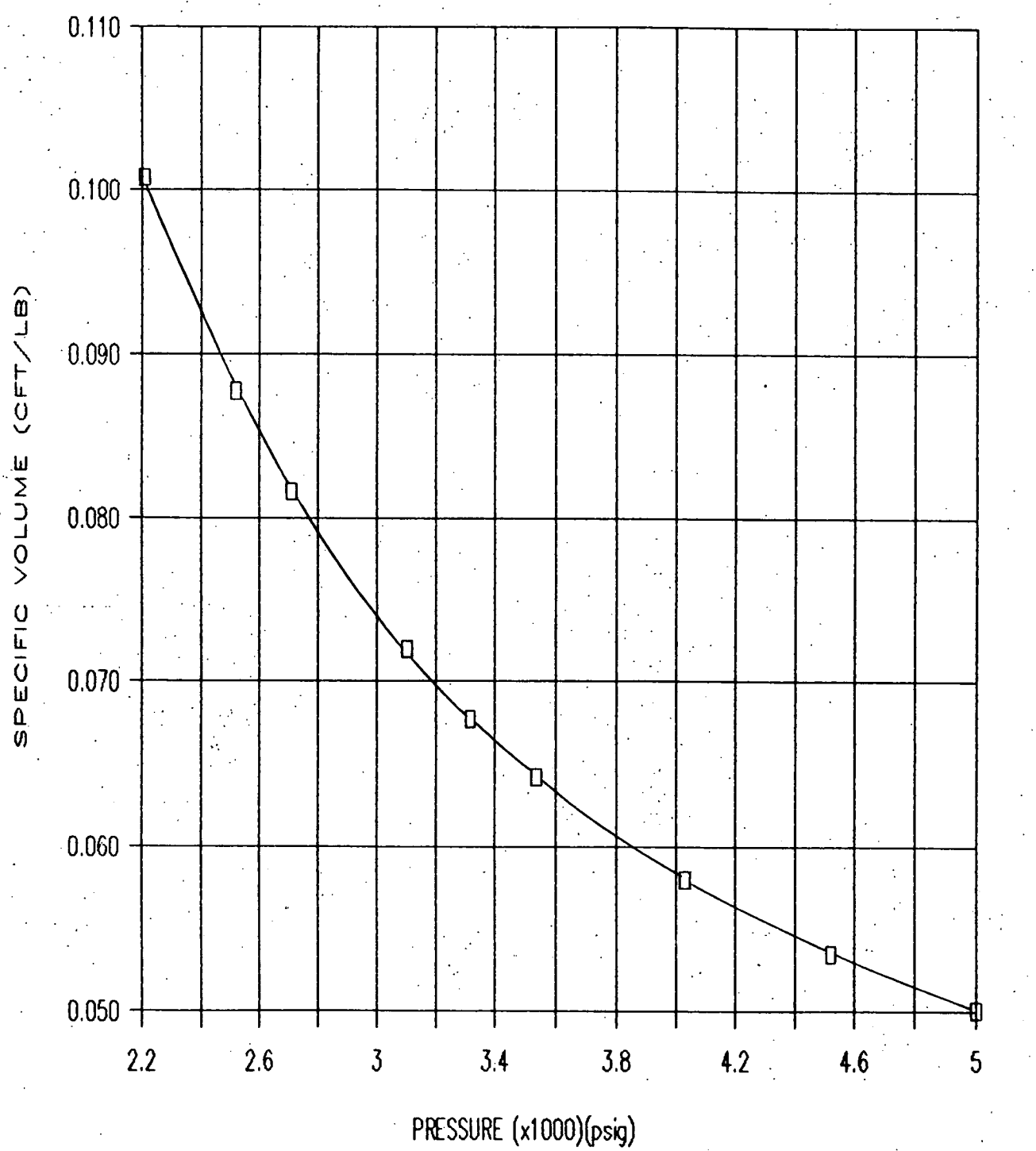
GAS DEVIATION FACTOR



P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

RESERVOIR FLUID SPECIFIC VOLUME

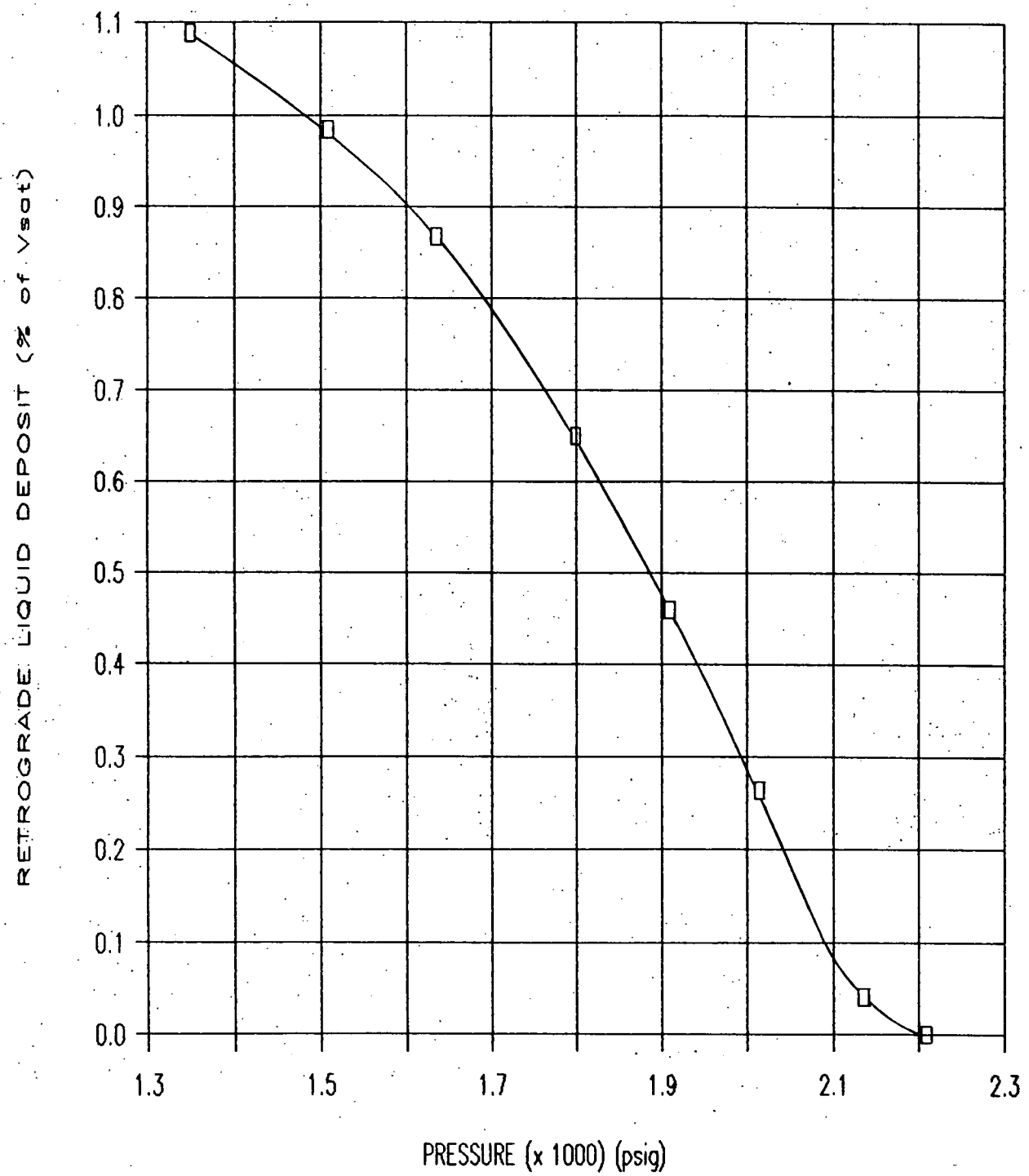


P E T R O L A B

Company: Santos Limited
Well : Pelican # 2 Lower

File: S 90001

RETROGRADE CONDENSATION



Pelican 2 Upper
Bottomhole Pressure Buildup
16-21 August 1991.

Pressure Buildup

16-8-91 Ran in the hole with amerados and reached hang depth of 7650' KB @ 1341 hours.
Shut well in @ 1800 hours and monitored pressures until 0610 hours on 21-8-91 for a buildup time of 108 hours 10 minutes.
Element # 21379
F.B.H.P. @ shut-in = 1470.2 psig = 10,137 kPag
S.I.B.H.P. final = 2723.4 psig = 18,778 kPag
Max. BHT = 254.3 °F = 123.5 °C

Static Gradient

21-08-91 A static gradient was run to 7650 ft. KB
Element # 21379
S.I.B.H.P. = 2720 psig = 18754 kPag

Production Summary

Cumulative production to end July 1991 = 24.7 $10^6 m^3$
Production rate for July 1991 = 32.8 $10^3 m^3/d$.
Assume production to test shut-in = 15.75 days × 32.8 $10^3 m^3/d$
= 516.6 $10^3 m^3$
New cumulative = 24,700 + 516.6 = 25216.6 $10^3 m^3$

$$t = \frac{25216.6\ 10^3 m^3}{32.8\ 10^3 m^3/d} \times 24 \qquad t = 18451 \text{ hrs.}$$

RECEIVED
7/29/2

DEAL BOSS

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 01 FIELD PELICAN		WELL 02UPPER	
EFF DEPTH		WELL STAT		TOOL HUNG	7644 FT KB
CASING	-	CASING PRESS		ON BOTTOM	1341 910816
LINER	-	TUBING PRESS		OFF BOTTOM	1610 910821
DATE	910816	ELEMENT RANGE	0 - 4950	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	1800 910816
MAX TEMP		PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	21379	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BOTTOMHOLE PRESSURE BUILDUP		

SURVEY DATA

CO. SANTOS — RUN 01 FIELD PELICAN — WELL 02UPPER

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
18:00	1470.2	1470.2	.0	20:58	2640.5	2640.5	3.0
18:02	1556.2	1556.2	.0	21:12	2645.8	2645.8	3.2
18:04	1637.8	1637.8	.1	21:22	2645.7	2645.7	3.4
18:05	1699.4	1699.4	.1	21:45	2645.5	2645.5	3.7
18:09	1785.8	1785.8	.1	22:01	2641.7	2641.7	4.0
18:10	1861.2	1861.2	.2	22:23	2638.2	2638.2	4.4
18:13	1901.9	1901.9	.2	22:47	2638.0	2638.0	4.8
18:14	1941.2	1941.2	.2	23:23	2637.7	2637.7	5.4
18:16	1981.9	1981.9	.3	0:10	2637.2	2637.2	6.2
18:18	2049.7	2049.7	.3	1:23	2639.3	2639.3	7.4
18:22	2115.1	2115.1	.4	3:09	2642.5	2642.5	9.2
18:27	2172.5	2172.5	.5	4:22	2642.6	2642.6	10.4
18:32	2236.1	2236.1	.5	5:45	2649.2	2649.2	11.8
18:38	2290.0	2290.0	.6	7:27	2652.7	2652.7	13.4
18:45	2329.7	2329.7	.7	9:13	2651.7	2651.7	15.2
18:48	2356.5	2356.5	.8	11:22	2654.2	2654.2	17.4
18:53	2379.7	2379.7	.9	13:30	2661.0	2661.0	19.5
18:56	2400.6	2400.6	.9	15:18	2659.7	2659.7	21.3
19:00	2422.6	2422.6	1.0	17:57	2663.4	2663.4	24.0
19:07	2455.5	2455.5	1.1	20:10	2664.9	2664.9	26.2
19:15	2485.3	2485.3	1.3	22:21	2667.9	2667.9	28.3
19:24	2510.7	2510.7	1.4	0:45	2672.5	2672.5	30.7
19:34	2542.2	2542.2	1.6	3:41	2673.3	2673.3	33.7
19:46	2565.1	2565.1	1.8	7:58	2677.1	2677.1	38.0
19:55	2577.8	2577.8	1.9	12:29	2680.8	2680.8	42.5
20:04	2590.1	2590.1	2.1	17:08	2686.6	2686.6	47.1
20:13	2600.4	2600.4	2.2	22:35	2687.5	2687.5	52.6
20:27	2616.6	2616.6	2.4	3:44	2691.1	2691.1	57.7
20:36	2623.7	2623.7	2.6	8:18	2696.0	2696.0	62.3
20:45	2629.3	2629.3	2.7	13:40	2698.4	2698.4	67.7

SURVEY DATA

CO. SANTOS RUN 01 FIELD PELICAN WELL 02UPPER

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
19:29	2703.8	2703.8	73.5	6:10	2723.4	2723.4	108.2
1:49	2708.2	2708.2	79.8	13:38	1467.1	1467.1	-4.4
7:11	2710.7	2710.7	85.2	15:34	1466.1	1466.1	-2.4
12:31	2714.1	2714.1	90.5	16:36	1465.5	1465.5	-1.4
18:09	2716.7	2716.7	96.1	17:19	1471.0	1471.0	-.7
0:24	2721.6	2721.6	102.4	17:44	1470.8	1470.8	-.3
5:50	2723.8	2723.8	107.8	0:00	.0	.0	.0

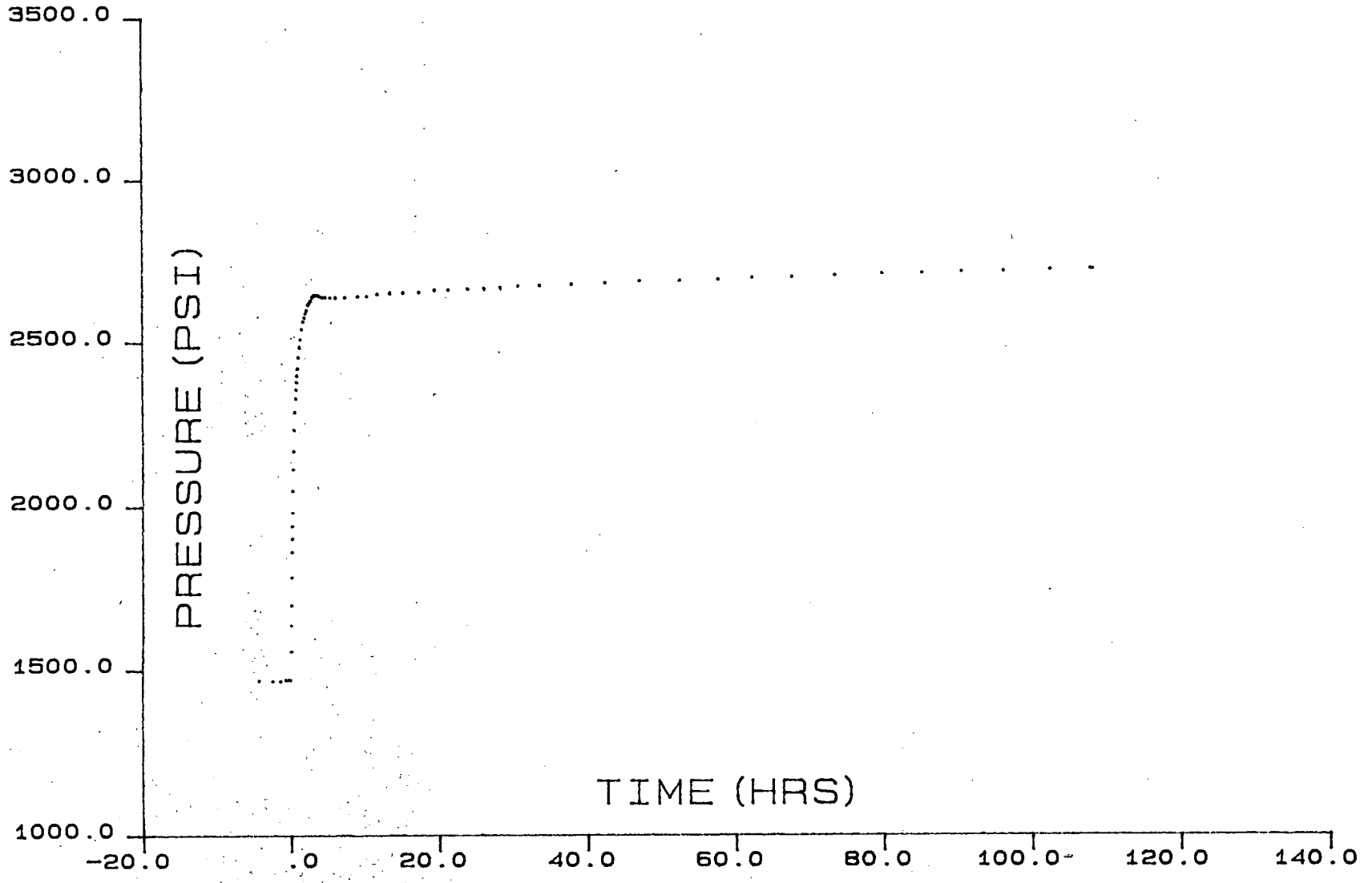
LUB IN DWT = 1168 PSI / OUT = 2221 PSI
LUB IN AMERADA = 1172 PSI / OUT = 2226 PSI

00292

PELICAN 2 UPPER B.H.P. SURVEY

16 - 21 AUGUST 1991

ELEMENT #21379 @ 7644 FT KB

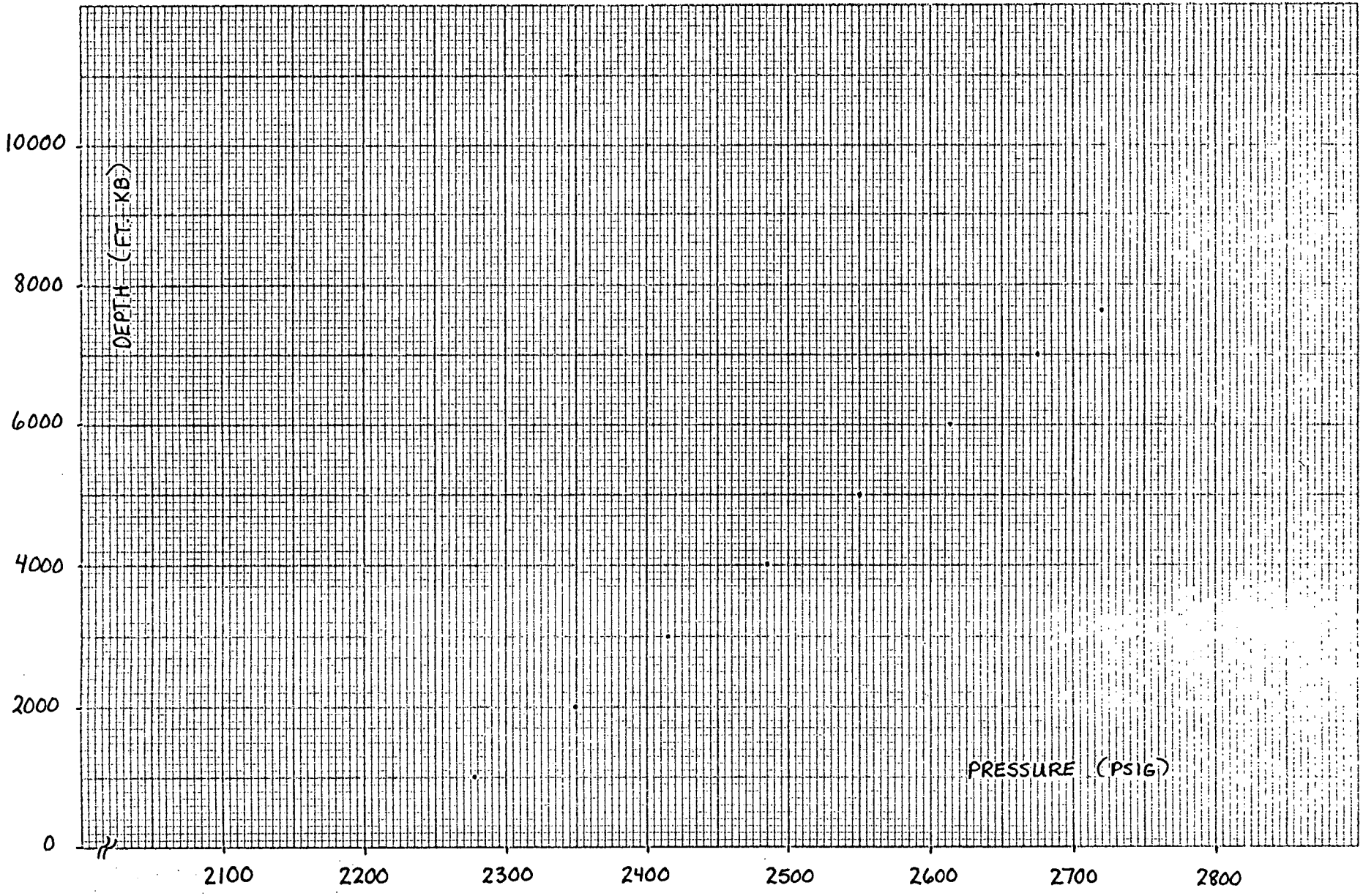


Fm 5030

00293

PELICAN 2UPPER - STATIC PRESSURE GRADIENT - 21/08/91.

ELEMENT # 21379



EXPERTEST PTY. LTD.	SEQUENCE OF EVENTS		
	CUSTOMER : SANTOS	PERFORATIONS: 7807 - 7877	PAGE: ONE OF ONE
	WELL NAME: PELICAN #2 U	FORMATION : TOOLACHEE	DATE: 16th AUGUST 1991
	TEST TYPE : BHP		OPR : W. BRIANCOURT.

DATE/TIME	DESCRIPTION OF EVENTS
16.8.91	
0800	ARRIVE LOCATION RIG UP W/LINE + SWAB VALVE.
0915	RIH 1.75 BLIND BOX
0930	PICK UP AT 7750' KB + POOH
0945	ARRIVE SURFACE + MAKE UP BHP GAUGES
1020	HANG IN LUB WITH NO PRESSURE
1120	PRESSURE LUB
1220	BLEED LUB.
1320	PRESSURE LUB AND RIH.
1341	HANG GAUGES AT 7650' KB ON WIRE FOR 4 HRS FLOW AND 4 DAY BUILD UP.
1800	SHUT WELL IN + MONITOR BUILD UP
21.8.91	
0610	PULL GAUGES FROM 7650'
0625	ARRIVE LUB
0825	BLEED LUB RECOVER CHARTS + PREPARE GAUGES FOR STATIC GRADIENT.
0905	RIH FOR STATIC GRADIENT
1017	ARRIVE LUB + RECOVER CHARTS. RIG DOWN
1130	DEPART FOR MOOMBA.

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS
WELL NAME: PELICAN *2
TEST TYPE : BHP

PERFORATIONS: 7807-7877
FORMATION : TOOLACHEE

PAGE: ONE OF THREE
DATE : 16th AUGUST 91
OPR : W. BRIANCOURT.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
16/8/91															
1341		8094	35	51		AMERADAS ON BOTTOM									
1400		8053	35	52											
1430		8053	35	53											
1500		8074	35	53											
1530		8060	35	53											
1600		8067	35	53											
1630		8053	35	52											
1700		8067	35	52.											
1730		8060	35	51											
1800		8067	35	51	SWI										
1815		11510	35												
1830		12921	35												
1846		13472	35												
1900		13893	35												
1915		14176	35												
1930		14369	35												
1945		14500	35												
2000		14617	35												
2015		14707	35												
2030		14762	35												
2045		14810	35												

ET 104

11295

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS
WELL NAME: PELICAN "2"
TEST TYPE : BHP

PERFORATIONS: 7807 - 7827
FORMATION : TOOLACHEE

PAGE: TWO OF THREE
DATE: 16th AUGUST 91
OPR : W. BRIANKOURT

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
16/8/91															
2100		14858	35												
2115		14865	35												
2130		14851	35												
2145		14831	35												
2200		14817	35												
17/8/91															
0200		14824	35												
0600		14851	28												
1000		14859	28												
1400		14893	28												
1800		14955	28												
2200		15100	28												
18/8/91															
0200		14982	28												
0600		15031	28												
1000		15003	28												
1400		15038	28												
1800		15031	28												
2200		15093	28												
19/8/91															
0200		15093	28												

ET 104

00298

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS
WELL NAME: PELICAN 2U
TEST TYPE : BHP

PERFORATIONS: 7807 - 7877
FORMATION : TOOLACHEE

PAGE: THREE OF THREE
DATE: 19th AUGUST 1991
OPR : W. BRIANCOURT

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
19/8/91															
0600		15107	28												
1000		15114	28												
1400		15121	28												
1800		15127	28												
2200		15141	28												
20/8/91															
0200		15176	28												
0600		15183	28												
1000		15197	28												
1400		15205	28												
1800		15212	28												
2200		15224	28												
21/8/91															
0200		15238	28												
0600		15252	28	END TEST											

ET 104

11297

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS	PERFORATIONS: 7807 - 7877	PAGE: ONE OF ONE
WELL NAME: PELICAN #2 U	FORMATION : TOOLACHEE	DATE: 16th AUGUST
TEST TYPE : BHP		OPR : W. BRIANCOURT

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	21821	21379	22819	DATE : 16·8·91		1168 psi	
ELEMENT RANGE	4625	4625	190 - 442°F	PRESSURE LUBRICATOR :	1120	8053	34
RECORDING SECTION SERIAL NO.	14619	59288	14633	RUN IN HOLE :	1320	8094	34
DATE OF CALIBRATION: 4·6·91	290°F	290°F		ON DEPTH AT : 7650 FT/M	1341.	8094	34
CLOCK SERIAL NO.	6	5	15682	DATE : 21·8·91			
CLOCK RANGE	120	120	120	PULL OUT OF HOLE :	0610	15252	28
LEAD SCREW TYPE	15	15	15	AT SURFACE :	0625	15254	28
				DEPRESSURE LUBRICATOR :	0825	15314	28
ENGAGE STYLUS DATE 16·8·91 TIME	1015	1015	1015	MAXIMUM BHT AT FT/M = °F/C		2221 psi	
DISENGAGE STYLUS DATE 21·8·91 TIME	0832	0832	0832	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS

ET 108

U0298

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS
WELL NAME: PELICAN 2 J
TEST TYPE : STATIC GRADIENT

PERFORATIONS: 7807 - 7877
FORMATION : TOOLACHEE

PAGE: ONE OF ONE
DATE: 21st AUGUST 91
OPR : W. BRIANCOURT

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	21821	21379	22819
ELEMENT RANGE	4625	4625	190 - 412°F
RECORDING SECTION SERIAL NO.	14619	59288	14633
DATE OF CALIBRATION: 4-6-91	290°F	290°F	
CLOCK SERIAL NO.	A12047	A16031	~~27~~510
CLOCK RANGE	3	3	3
LEAD SCREW TYPE	15	15	15
ENGAGE STYLUS DATE 21-8-91 TIME	0838	0838	0838
DISENGAGE STYLUS DATE 21-8-91 TIME	1044	1044	1044

RUN DATA		TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
DATE	: 21-8-91			
PRESSURE LUBRICATOR	:	0848	15258	28
RUN IN HOLE	:	0905	15258	28
ON DEPTH AT	: 7650' FT/M	0952	15258	28
DATE	: 21-8-91			
PULL OUT OF HOLE	:	1002	15252	28
AT SURFACE	:	1017	15252	28
DEPRESSURE LUBRICATOR	:	1037	15252	28
MAXIMUM BHT AT	FT/M = °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS
21-8-91	0905	RUN STATIC GRADIENT AS PER PROGRAM.
		ARRIVE LUB

ET 108

n299

????

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Wednesday, 21st August 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN Z U	TOOLACHEE

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21821	4750	4/ 6/91
Bottom	21379	4825	4/ 6/91

WELL DATA	
PARAMETER	VALUE
OWT In	2213 PSIG
OWT Out	2212 PSIG
Max BHT	

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.8850	2221.3	-----	0.8950	2202.5	-----
1000	0.9130	2291.8	0.070	0.9250	2276.7	0.074
2000	0.9410	2362.2	0.070	0.9540	2348.4	0.072
3000	0.9690	2432.6	0.071	0.9810	2415.2	0.067
4000	0.9950	2498.1	0.065	1.0090	2484.5	0.069
5000	1.0190	2558.5	0.060	1.0350	2548.9	0.064
6000	1.0450	2624.0	0.066	1.0610	2613.3	0.064
7000	1.0680	2681.9	0.058	1.0860	2675.3	0.062
7650	1.0810	2714.7	0.050	1.1040	2719.9	0.069
LUB.	0.8840	2218.8	----	0.8950	2202.5	----

GENERAL REMARKS

Pelican 2 Tower
Bottomhole Pressure Survey
26-31 August 1991.

Pressure Buildup

26-08-91 Ran in the hole with amerados and reached hang depth of 7650 ft. KB @ 1805 hours. Well flowed on 100% choke.

27-08-91 Shut well in @ 0800 hours and monitored pressures until 0800 hrs. on 31/08/91 for a buildup time of 96 hours.

Element # 21379 @ 7638 ft. KB.

F.B.H.P. @ shut-in = 1503.4 psig = 10366 kPag

S.I.B.H.P. final = 1972.8 psig = 13602 kPag

Max. B.H.T. = 245.2 °F = 118.4 °C.

Static Gradient

31-08-91 A static gradient was run to 7650 ft. KB.

Element # 21379

S.I.B.H.P. = 1970.3 psig = 13585 kPag

Production Summary

Cumulative production to end Aug. 1991 (test shut-in) = 31.6 $10^6 m^3$

Average production rate for Aug. 1991 = 30.2 $10^3 m^3/d$

$$t = \frac{31600\ 10^3 m^3}{30.2\ 10^3 m^3/d} \times 24 \qquad t = 25.13 \text{ hours.}$$

DEPT. OF MINES AND ENERGY SECURITY 7/29/2

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 01 FIELD PELICAN		WELL 02LOWER	
EFF DEPTH		WELL STAT		TOOL HUNG	7638 FT KB
CASING	-	CASING PRESS		ON BOTTOM	1805 910826
LINER	-	TUBING PRESS		OFF BOTTOM	0800 910831
DATE	910826	ELEMENT RANGE	0 - 4950	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	0800 910827
MAX TEMP		PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	21379	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BOTTOMHOLE PRESSURE BUILDUP		

SURVEY DATA

CO. SANTOS RUN 01 FIELD PELICAN WELL 02LOWER

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
8:00	1503.4	1503.4	.0	5:55	1908.4	1908.4	21.9
8:02	1525.9	1525.9	.0	8:56	1913.3	1913.3	24.9
8:02	1550.9	1550.9	.0	11:38	1916.2	1916.2	27.6
8:02	1576.8	1576.8	.0	14:02	1919.1	1919.1	30.0
8:04	1600.6	1600.6	.1	16:43	1922.2	1922.2	32.7
8:07	1628.5	1628.5	.1	18:54	1927.7	1927.7	34.9
8:11	1650.2	1650.2	.2	20:49	1926.6	1926.6	36.8
8:14	1667.0	1667.0	.2	0:12	1929.3	1929.3	40.2
8:19	1684.5	1684.5	.3	2:28	1931.0	1931.0	42.5
8:23	1696.1	1696.1	.4	6:15	1933.0	1933.0	46.2
8:31	1711.6	1711.6	.5	9:36	1935.8	1935.8	49.6
8:37	1718.9	1718.9	.6	11:36	1939.4	1939.4	51.6
8:45	1731.0	1731.0	.8	14:06	1942.2	1942.2	54.1
9:01	1742.4	1742.4	1.0	17:01	1940.5	1940.5	57.0
9:14	1752.7	1752.7	1.2	20:13	1945.1	1945.1	60.2
9:31	1761.2	1761.2	1.5	23:11	1946.1	1946.1	63.2
9:52	1772.1	1772.1	1.9	1:10	1948.4	1948.4	65.2
10:16	1783.7	1783.7	2.3	4:28	1951.3	1951.3	68.5
10:56	1797.2	1797.2	2.9	7:39	1954.9	1954.9	71.7
11:44	1809.3	1809.3	3.7	10:27	1955.5	1955.5	74.4
12:31	1820.7	1820.7	4.5	14:00	1958.4	1958.4	78.0
13:25	1833.1	1833.1	5.4	16:02	1960.0	1960.0	80.0
14:36	1847.0	1847.0	6.6	19:14	1960.9	1960.9	83.2
16:06	1860.9	1860.9	8.1	21:39	1964.9	1964.9	85.6
17:45	1874.3	1874.3	9.7	2:33	1969.3	1969.3	90.6
18:56	1878.8	1878.8	10.9	6:46	1970.6	1970.6	94.8
20:04	1883.9	1883.9	12.1	8:00	1972.8	1972.8	96.0
21:31	1889.2	1889.2	13.5	- 5:56	1507.6	1507.6	-13.9
0:10	1895.1	1895.1	16.2	- 3:53	1508.7	1508.7	-11.9
2:58	1901.4	1901.4	19.0	- 2:26	1511.1	1511.1	-10.4

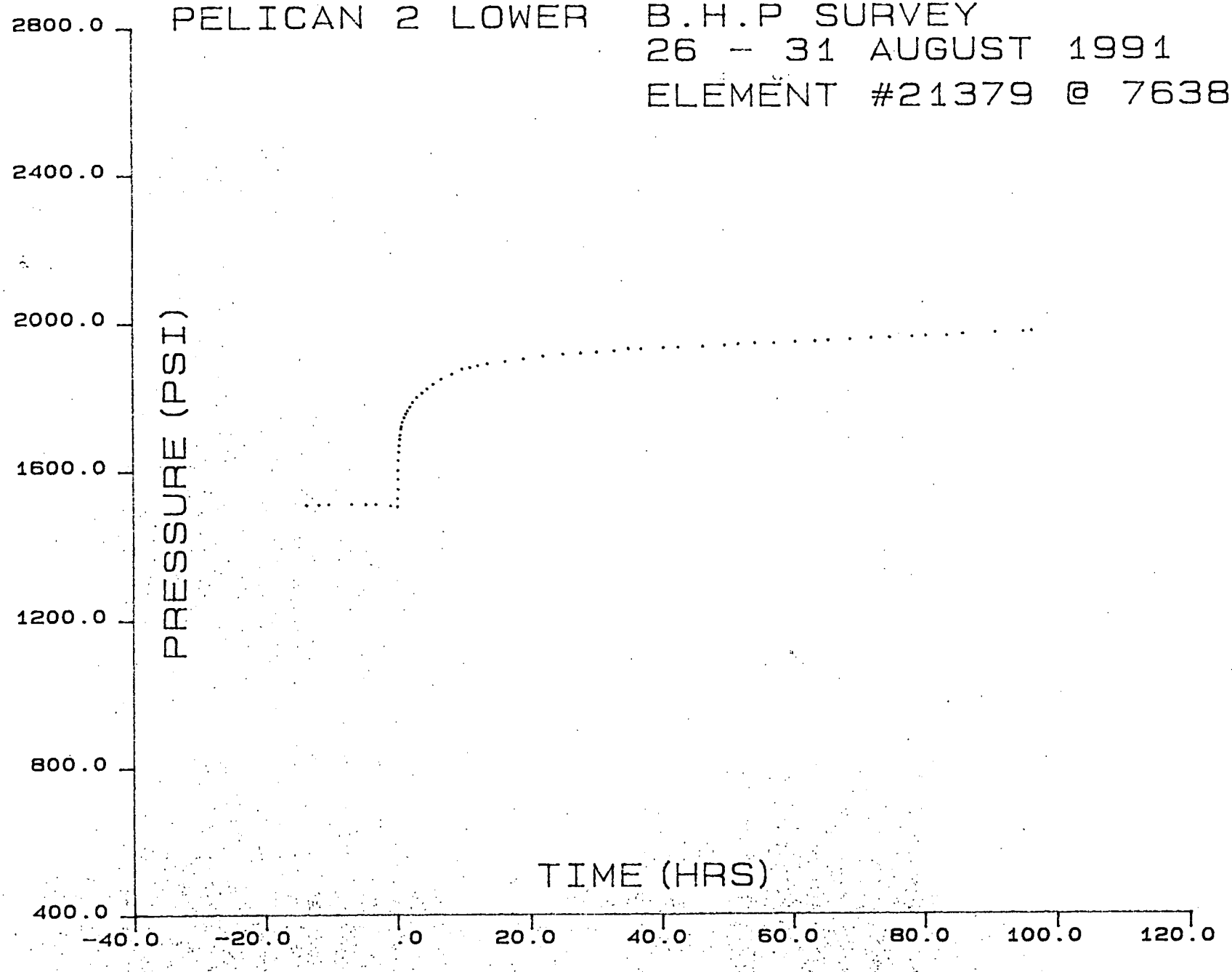
SURVEY DATA

CO. SANTOS RUN 01 FIELD PELICAN WELL 02LOWER

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
1:01	1511.1	1511.1	-7.0	4:44	1509.0	1509.0	-3.3
3:13	1509.8	1509.8	-4.8	6:59	1504.7	1504.7	-1.0

LUB IN DWT = 1143 PSI / OUT = 1546 PSI
LUB IN AMERADA = 1147 PSI / OUT = 1551 PSI

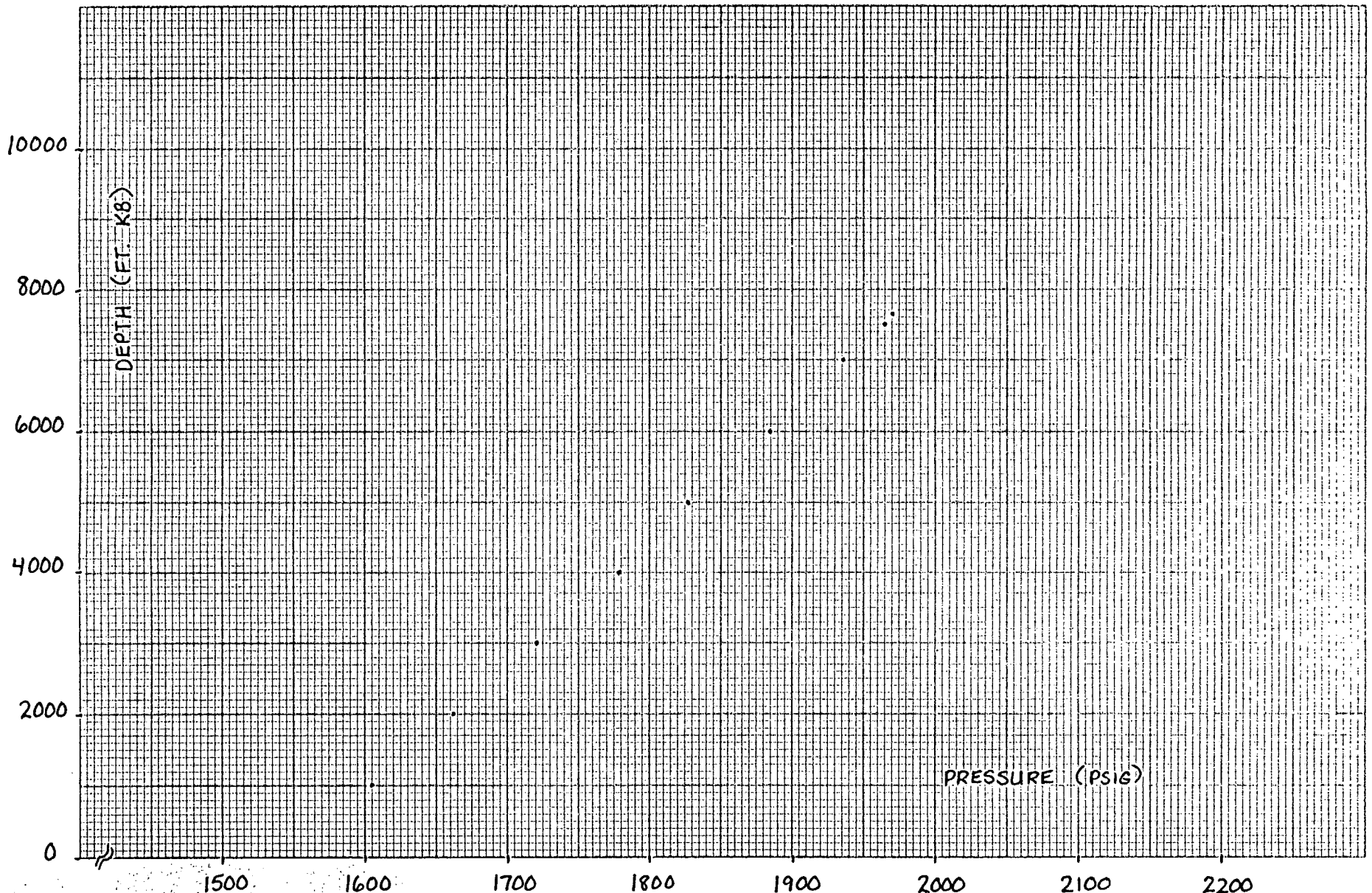
PELICAN 2 LOWER B.H.P SURVEY
26 - 31 AUGUST 1991
ELEMENT #21379 @ 7638 FT KB



30300

PELICAN 2 LOWER - STATIC GRADIENT SURVEY - 31/08/91.

ELEMENT # 21379 (TOP)



00305

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127' - 8555	PAGE: 1 OF 2
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 22-8-91
TEST TYPE : B.H.P SURVEY		OPR : A. GRINAWAY

DATE/TIME	DESCRIPTION OF EVENTS
22.8.91	
0850	S.W.I FIT SWAB VALVE AND PRESSURE TEST.
0925	B.O.L. 100% CHOKE.
1330	PREPARE TOOLSTRING.
1355	PRESSURE UP LUBRICATOR.
1357	R.I.H WITH A 1.75" BLIND BOX.
1425	TAG TIGHT SPOT AT 7747' KB.
1428	P.O.O.H. TUBING CLEAR AND FREE OF OBSTRUCTIONS PAST GAUGE HANG DEPTH.
1440	TOOLSTRING IN LUBRICATOR. SECURE WELLHEAD.
26.8.91	
1420	PREPARE AMERADAS FOR B.H.P. SURVEY.
1450	AMERADAS IN LUBRICATOR. ATMOSPHERIC. PRESSURE.
1550	PRESSURE UP LUBRICATOR.
1650	DEPRESSURE LUBRICATOR.
1750	PRESSURE UP LUBRICATOR. R.I.H TO HANG DEPTH.
1805	AT. 7650' KB HANG GAUGES OVERNIGHT
27.8.91	
0800	S.W.I AT WING VALVE AND MONITOR BUILD-UP.
31.8.91	
0800	P.O.O.H END BUILD-UP SURVEY.
0822	GAUGES AT SURFACE. DEPRESSURE LUBRICATOR.
0922	PRESSURE UP LUBRICATOR.
1022	DEPRESSURE LUBRICATOR. RIG OUT ELEMENTS. INSPECT CHARTS.

00306

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER :	SANTOS LTD	PERFORATIONS:	8127'- 8555'	PAGE:	2 OF 2
WELL NAME:	PELICAN #2 LOWER	FORMATION :	PATTHAWARRA	DATE:	31.8.91
TEST TYPE :	B.H.P. SURVEY			OPR :	A. GRINDLAY

DATE/TIME	DESCRIPTION OF EVENTS
31.8.91	
1030	PREPARE AMERADAS FOR A STATIC GRADIENT SURVEY.
1050	PRESSURE UP LUBRICATOR.
1100	DEPRESSURE LUBRICATOR
1105	PRESSURE UP. R.I.H WITH 2x AMERADAS AND 1 x TEMPERATURE ELEMENT
	TO PERFORM A STATIC GRADIENT SURVEY.
1210	AT BOTTOM STOP. 7650'KB.
1220	P.O.O.H.
1240	AT SURFACE WITH GAUGES. DEPRESSURE LUBRICATOR.
1245	PRESSURE UP LUBRICATOR.
1255	DEPRESSURE LUBRICATOR. RIG OUT ELEMENTS. INSPECT CHARTS.
1305	R.D. M.O.
1545	B.O.L.

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00307

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD | PERFORATIONS: 8127' – 8555' | PAGE: 1 OF 3

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 26.8.91

TEST TYPE : B.H.P. SURVEY | OPR : A. GRINDLAY

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
26TH	AUGUST 1991														
1420						PREPARE AMERADAS FOR B.H.P SURVEY.									
1450		7888	28	55	100	GAUGES IN LUBRICATOR. ATMOSPHERIC PRESSURE									
1550		7881	28	55	"	PRESSURE UP LUBRICATOR.									
1650		7881	28	54	"	DEPRESSURE LUBRICATOR.									
1750		7881	28	54	"	PRESSURE UP LUBRICATOR. R.I.H TO HANG DEPTH.									
1805		7853	28	53	"	AT 7650'KB. HANG GAUGES OVERNIGHT.									
2200		7867	28	51	"										
27TH	AUGUST 1991														
0600		7853	28	49	"										
0700		7848	21	49	"										
0730		7846	21	48	"										
0800	Ø	7846	21	48	"	S.W.I. MONITOR BUILD-UP.									
0815		9219	21	46											
0830		9294	21	40											
0845		9363	14	34											
0900	1	9432	14	28											
0915		9494	14	26											
0930		9563	14	25											
0945		9639	14	25											
1000	2	9668	14	23											
1015		9687	14	21											

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00308

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN #2 LOWER
TEST TYPE : B.H.P. SURVEY.

PERFORATIONS: 8127'- 8555'
FORMATION : PATCHAWARRA

PAGE: 2 OF 3
DATE: 27.8.91
OPR : A. GRINDLAY

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		O
27th	AUGUST 1991														
1030		9722	14	21		WELL	SHUT IN.	MONITORING			BUILD-UP.				
1045		9743	21	22											
1100	3	9770	21	21											
1115		9798	21	22											
1130		9825	21	20											
1145		9846	21	22											
1200	4	9874	21	23											
1400	6	9984	21	24											
1800	10	10136	21	18											
2200	14	10225	28	15											
28th	AUGUST		1991												
0200	18	10301	28	8											
0600	22	10336	28	7											
1000	26	10356	21	15											
1400	30	10384	21	25		READING		TAKEN FROM CHART.							
1800	34	10398	21	20											
2200	38	10439	21	13											
29th	AUGUST 1991														
0200	42	10460	21	10											
0600	46	10501	21	6											
1000	50	10515	21	20											

ET 104

00309

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER
TEST TYPE : B.H.P. SURVEY

PERFORATIONS: 8127' – 8555'
FORMATION : PATCHAWARRA

DATE: 29'-8-91
OPR : A. GRINDLAY

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
29TH	AUGUST 1991														
1400	54	10529	21	25		READINGS		FROM CHART			CREW IN BULLINGARI				
1800	58	10542	21	22		"		"	"		"	"	"		
2200	62	10549	21	13											
30TH	AUGUST 1991														
0200	66	10563	21	8											
0600	70	10577	14	6											
1000	74	10583	14	18		READINGS		FROM CHART.			CREW IN BULLINGARI				
1400	78	10597	14	25		"		"	"		" "		"		
1800	82	10611	14	20		"		"	"		CREW IN	MOOMBA.			
2200	86	10625	14	12											
31ST	AUGUST 1991														
0200	90	10653	14	8											
0600	94	10667	14	3											
0800	96	10667	14	13		P.O.O.H.		END	BUILD-UP		PERIOD				

ET 104

001310

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN #2 LOWER
TEST TYPE : B.H.P SURVEY
PERFORATIONS: 8127' – 8555'
FORMATION : PATCHAWARRA
PAGE: 1 OF 1
DATE: 26.8.91
OPR : A. GRINSLAW

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	21379	21821	22819	DATE : 26.8.91			
ELEMENT RANGE	4825 PSI	4750 PSI	190°-412°F	PRESSURE LUBRICATOR :	1550	7881 (1143 psi)	28
RECORDING SECTION SERIAL NO.	59288	14619	14633	RUN IN HOLE :	1750	7881	28
DATE OF CALIBRATION:	4.6.91	4.6.91		ON DEPTH AT : 7650' FT/~~M~~	1805	7853	28
CLOCK SERIAL NO.	N°5	N°6	F15682	DATE : 31.8.91			
CLOCK RANGE	120HRS	120HRS	120HRS	PULL OUT OF HOLE :	0800	10667	14
LEAD SCREW TYPE	15TLS	15TLS	15TLS	AT SURFACE :	0822	10667	14
				DEPRESSURE LUBRICATOR :	1022	10660	14
ENGAGE STYLUS DATE 26.8.91 TIME	1430	1430	1430	MAXIMUM BHT AT FT/M = °F/C	TEMP. 1546 psi ELEMENT.		
DISENGAGE STYLUS DATE 31.8.91 TIME	1027	1027	1027	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
26.8.91	1550	100% CHOKE WELL FLOWING IN LINE.
27.8.91	0800	S.W.I MONITOR BUILD-UP.

ET 108

00311

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER
TEST TYPE : STATIC GRADIENT

PERFORATIONS: 8127' - 8555'
FORMATION : PATCHAWARRA

PAGE: 1 OF 1
DATE: 31. 8. 91
OPR : A. GRINDLAY

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	21379	21821	22819
ELEMENT RANGE	4825 PSI	4750 PSI	90° - 412°F
RECORDING SECTION SERIAL NO.	59288	14619	14633
DATE OF CALIBRATION:	4.6.91	4.6.91	
CLOCK SERIAL NO.	A15012	25510	A12047
CLOCK RANGE	3HRS	3HRS	3HRS
LEAD SCREW TYPE	15TLS	15TLS	15TLS
ENGAGE STYLUS DATE 31. 8. 91 TIME	1040	1040	1040
DISENGAGE STYLUS DATE 31. 8. 91 TIME	1303	1303	1303

RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
DATE : 31. 8. 91			
PRESSURE LUBRICATOR :	1050	10646	14
RUN IN HOLE :	1105	10646	14
ON DEPTH AT : 7650 FT/M	1210	10639	14
DATE : 31. 8. 91			
PULL OUT OF HOLE :	1220	10646	14
AT SURFACE :	1240	10639	14
DEPRESSURE LUBRICATOR :	1255	10646	14
MAXIMUM BHT AT FT/M = °F/C	TEMP. ELEMENT RUN.		
N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS

ET 108

01312

EXPERTEST
WIRELINE & WELL TESTING SERVICE
PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Saturday, 31st August 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN #ZLOWER	PATCHAWARRA

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21379	4825	4/ 6/91
Bottom	21821	4750	4/ 6/91

WELL DATA	
PARAMETER	VALUE
DWT In	1544 PSIG
DWT Out	1544 PSIG
Max BHT	TEMP EL.

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH Ft KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.6290	1546.2	-----	0.6190	1553.2	-----
1000	0.6530	1605.3	0.059	0.6420	1610.9	0.058
2000	0.6760	1662.0	0.057	0.6655	1669.9	0.059
3000	0.7000	1721.2	0.059	0.6880	1726.4	0.057
4000	0.7230	1777.9	0.057	0.7090	1779.1	0.053
5000	0.7430	1827.2	0.049	0.7300	1831.9	0.053
6000	0.7660	1884.0	0.057	0.7510	1884.6	0.053
7000	0.7870	1935.8	0.052	0.7720	1937.4	0.053
7500	0.7990	1965.4	0.059	0.7820	1962.5	0.050
7650	0.8010	1970.3 /	0.033	0.7850	1970.0	0.050
LUB.	0.6290	1546.2	-----	0.6190	1553.2	-----

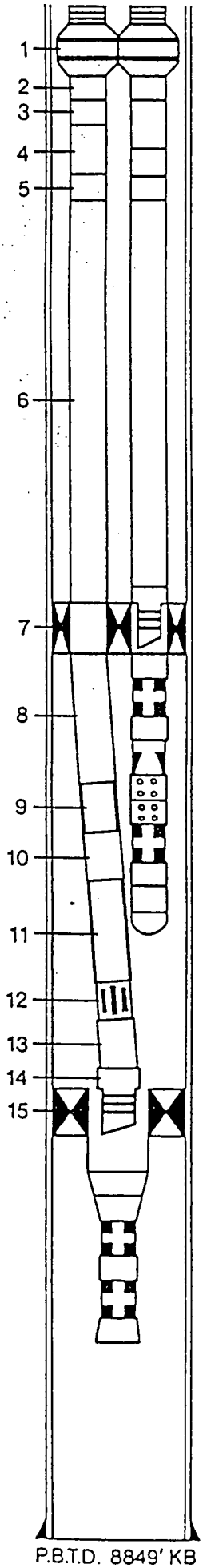
GENERAL REMARKS

TEMPERATURE ELEMENT ALSO RUN.

00314

PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION PELICAN 2 L



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	17 · 50	0 · 00	
1	C.I.W. 2⅞" split hanger segment 2⅞" CS	0 · 67	17 · 50	
	Hydril box up x 2⅞" AB-DSS box down			
2	2⅞" AB-DSS J55 pin x pin nipple	0 · 35		
3	X-over 2⅞" x 2⅜" AB-IJ3SS box x pin	1 · 76		
4	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 45		
5	1 x 4' & 1 x 2' 2⅜" AB-DSS J55 4·7#	5 · 72		
	pup joints			
6	241 joints 2⅜" J55 4·7# Baker Duece tubing	7635 · 37		
7	Baker A5 dual packer size47C4 c/w 2⅜"	10 · 07	7691 · 82	
	AB-IJ3SS box up pin down			
8	3 joints 2⅜" J55 4·7# Baker Duece tubing	94 · 96		
9	1 20' x 2⅜" AB-IJ3SS L80 box x pin	19 · 72	7796 · 85	
	blast joint			
10	1 joint 2⅜" J55 4·7# Baker Duece tubing	30 · 67	7816 · 57	
11	2 20' x 2⅜" AB-IJ3SS L80 box x pin	39 · 44	7847 · 24	
	blast joints			
12	Otis 121XDH18710 2⅜" AB-IJ3SS sliding	3 · 50	7886 · 68	
	sleeve			
13	1 joint 2⅜" J55 4·7# Baker Duece tubing	31 · 62		
14	Baker G-22 locator seal assembly size 81-32	2 · 84	7921 · 80	
	c/w 2⅜" AB-IJ3SS box up			
	Permanent Downhole Equipment			
15	Baker 7" DB packer 84-32 4½" AB-IJ3SS	4 · 08	7921 · 80	
	box down			

PERFORATED INTERVALS:

FORMATION	INTERVAL	GUN: SIZE	GUN: TYPE	CHARGES: S.P.F.	CHARGES: TYPE	CHARGES: WT(g)
PATCHAWARRA						
81-0	8127' – 8158'	5"	HSD	6	HMX	22
82-8	8340' – 8367'	5"	HSD	6	HMX	22
85-7	8547' – 8555'	5"	HSD	6	HMX	22

REMARKS: NOTE: Could not pass thru 7744' KB on Long String with 1·5" Stem and jars

ANNULUS FLUID : 1102 kg/m³ 2% KCl brine plus 1 drum Applied 2100

INDICATED STRING WEIGHT : 28,000#

CALCULATED STRING WEIGHT : 32,000#

SLACK-OFF WEIGHT : 4,000#

TENSION :

NOT TO SCALE		WELLSITE SUPERVISOR	W. Baer		
PROPOSED		DATE OF INSTALLATION	23/5/1989		
RE-COMPLETION		DRAFTED	E. Coppins	DATE	28/8/1989
COMPLETION	✓	REVISED		DATE	

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 10 FIELD PELICAN		WELL 02U	
EFF DEPTH		WELL STAT		TOOL HUNG	7588'
CASING	-	CASING PRESS		ON BOTTOM	1641 2/9
LINER	-	TUBING PRESS		OFF BOTTOM	0800 7/9
DATE	920907	ELEMENT RANGE	0 - 4030	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	0800 3/9
MAX TEMP	243°F	PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	29321	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BHP		

SURVEY DATA

CO. RUN 10 FIELD PELICAN WELL 02U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
8:00	863.3	863.3	.0	6:59	2444.1	2444.1	23.0
8:01	916.3	916.3	.0	12:43	2455.5	2455.5	28.7
8:02	1018.8	1018.8	.0	19:42	2466.5	2466.5	35.7
8:04	1132.2	1132.2	.1	4:21	2480.8	2480.8	44.3
8:06	1233.8	1233.8	.1	13:12	2491.4	2491.4	53.2
8:11	1351.5	1351.5	.2	23:34	2501.5	2501.5	63.6
8:14	1450.2	1450.2	.2	7:19	2507.1	2507.1	71.3
8:17	1549.0	1549.0	.3	15:06	2519.8	2519.8	79.1
8:27	1711.8	1711.8	.5	0:04	2523.3	2523.3	88.1
8:34	1826.2	1826.2	.6	8:00	2529.9	2529.9	96.0
8:46	1970.6	1970.6	.8	- 7:31	853.4	853.4	-15.5
9:07	2126.9	2126.9	1.1	- 6:03	848.9	848.9	-14.1
9:25	2213.6	2213.6	1.4	- 4:01	868.2	868.2	-12.0
9:38	2268.1	2268.1	1.6	- 1:05	874.9	874.9	-9.1
10:05	2324.1	2324.1	2.1	2:43	851.2	851.2	-5.3
10:25	2358.3	2358.3	2.4	4:39	850.9	850.9	-3.4
10:50	2367.9	2367.9	2.8	4:41	872.2	872.2	-3.3
11:35	2382.1	2382.1	3.6	5:01	850.6	850.6	-3.0
12:41	2388.3	2388.3	4.7	5:03	892.7	892.7	-3.0
13:59	2393.3	2393.3	6.0	5:12	873.1	873.1	-2.8
16:54	2408.5	2408.5	8.9	5:54	867.3	867.3	-2.1
20:33	2423.5	2423.5	12.5	7:03	863.7	863.7	-.9
0:18	2431.3	2431.3	16.3	8:00	863.5	863.5	.0

LUB IN DWT = 630 PSI / OUT = 2073 PSI
LUB IN AMERADA = 628 PSI / OUT = 2073 PSI

SWI @ 0800 hrs 3/9/92
August Total Gas Cum = 37.9 E6m³
August Mean Gas daily = 39.4 E3m³/d = 0.0394 E6m³/d

Assume well O/L 2.3̄ days before S/I
Then Total Gas Cumulative = (2.3̄ x 0.0394) + 37.9
= 37.992 E6m³ ✓

Assume Qg prior to S/I = August mean gas daily
= 39.4 E3m³/d ✓

PELICAN #2U BHP SEPTEMBER 1992
ELEMENT #29321 (TOP) @7588' KB

PRESSURE (PSI)

3200.0
2800.0
2400.0
2000.0
1600.0
1200.0
800.0
400.0

TIME (HRS)

-40.0 -20.0 .0 20.0 40.0 60.0 80.0 100.0

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 7807' – 7877'	PAGE: 1 OF 2
WELL NAME: PELICAN #2 upper.	FORMATION : TOOLACHEE	DATE: 2-9-92.
TEST TYPE : B.H.P.S.		OPR : B. HULL
		I. KURASIAK.

DATE/TIME	DESCRIPTION OF EVENTS
1-9-92	
12:50	ARRIVE ON LOCATION
13:00	SHUT WELL IN - RIG IN SWAB VALVE
13:20	OPEN WELL BACK UP.
2-9-92	
09:00	RIG UP WIRELINE UNIT & TOOLSTRING WITH 1.75" BLIND BOX FOR DRIFT RUN
10:00	RUN IN HOLE WITH 1.75" BLIND BOX
10:30	RUN IN TO DEPTH OF 7608' KB - OBSTRUCTION DOWNHOLE
10:35	CALL MOOMBA FOR INSTRUCTION FROM P.E.
10:40	PULL OUT OF HOLE
11:05	ARRIVE AT SURFACE
11:30	RIG DOWN DOWN 1.75" BLIND BOX
11:45	RUN IN HOLE WITH 1.50" TOOLSTRING
12:05	ARRIVE AT DEPTH OF 7608' KB - PERFORM PICKUP & RUN AGAIN TO DEPTH OF 7638' KB.
	UNABLE TO RUN PAST THIS DEPTH - POSSIBLE WAX BUILD UP, PERFORM PICK UPS,
	UNSUCCESSFUL,
12:10	P.O.O.H.
12:30	ARRIVE AT SURFACE - CALL MOOMBA FOR FURTHER INSTRUCTIONS.
1345	Prepare amerada's for B.H.P.S.
1423	Pressure Lub for B.H.P.S. (2 pressure elements & 1 Temp element.)
1523	Depressure Lub.
1623	Pressure Lub & R.I.H.
1641	At 7600' KB, Hang depth., flow well overnight.

ET 102

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : Santos.	PERFORATIONS: 7807' - 7877' KB	PAGE: 2 OF 2
WELL NAME: Pelican # 2 Upper	FORMATION : Toolachee	DATE: 3/9/92.
TEST TYPE : B.H.P.S.		OPR : P. Bowyer

DATE/TIME	DESCRIPTION OF EVENTS
3/9/92	
0800	Shut well in for 96 HR Build up.
7/9/92.	
0800	P.O.O.H to end 96 HR build up.
0820	In Lub. depressure.
0920	Pressure Lub.
1020	Depressure Lub. remove ameradas & check charts. ; good charts.
	Reload gauges for static Gradient.
1053	Pressure Lub for S.G.S. (2x pressure elements & 1 Temp element)
1108	Depressure Lub.
1113	Pressure Lub & R.I.H to stops as per program.
1215	At 7600' KB, bottom stop.
1230	P.O.O.H
1247	In Lub, depressure.
1252	Pressure Lub
1307	Depressure Lub, remove ameradas & check charts ; good charts.
	Rig on to Lower zone to run B.H.P.S.
1553	Upper Zone B.O.L on 100% choke.

ET 102

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Upper.
TEST TYPE : B.H.P.S.

PERFORATIONS: 7807' - 7877' KB.
FORMATION : Toolachee.

PAGE: 1 OF 4
DATE: 1/9/92.
OPR : B. Hull
I. Kurasiak.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR ~~SHUT IN~~ TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
1/9/92															
1250					100	A.O.L.									
1300						S.W.I to fit a swab valve.									
1320						B.O.L on 100% choke.									
2/9/92.															
0900						Rig up w/line unit.									
1000						R.I.H with 1.75" B/Box & 1.5 toolstring.									
1030						Tag obstruction @ 7608'KB call Moomba.									
1040						P.O.O.H									
1105						At surface, remove 1.75" B/Box.									
1145						R.I.H with 1.5" tool string.									
1205						At 7608'KB, perform pickup & run to 7638'KB unable to run past this depth.									
1210						P.O.O.H.									
1230						At surface, call Moomba for further instructions.									
						*Revised hang depth of 7600'KB.									
1345						Prepare ameradas for B.H.P.S.									
1423		4344	0	56		Pressure Lub for B.H.P.S (2 pressure elements & 1 Temp element.)									
1523		4351		56		Depressure Lub.									
1623		4344		56		Pressure Lub & R.I.H									W
1641		4344	0	56	100	At 7600'KB, Hang depth.									O
						Flow well overnight & monitor pressures.									

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Upper.
TEST TYPE : B.H.P.S.
PERFORATIONS: 7807' - 7877' KB.
FORMATION : Toolachee.
PAGE: 2. OF 4
DATE: 2/9/92.
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR ~~SHUT IN~~ TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
2/9/92.															
1800		4357	0	56	100										
2200		4357		55	↓										
3/9/92.			↓												
0200		4337		54											
0600		4330		54	↓										
0800	0	4330		54	100	S.W.I for 96 HR Build up.									
0805		7088		47	S/I										
0810		8336		40	↓										
0815		9081		35											
0830		10549		24											
0845		11500		20											
0900	1	12066		19											
0915		12528		18											
0930		12831		18											
0945		13114		16											
1000	2.	13231		18											
1015		13362		19											
1030		13383		19											
1045		13383	↓	21											
1100	3	13452		21	↓										
1115		13472	0	21	S/I										

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ET 104

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos. | PERFORATIONS: 7807' - 7877' KB. | PAGE: 3 OF 4

WELL NAME: Pelican* 2 upper. | FORMATION : Toolachee. | DATE: 3/9/92.

TEST TYPE : B.H.P.S. | OPR : P. Bowyer.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	~~FLOW OR~~ SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
3/9/92															
1130		13479	0	22	S/I	Build up con't									
1145		13486		22											
1200	4	13493		22											
1600	8	13597													
2200	14	13679													
4/9/92															
0200	18	13714													
0600	22	13728													
1000	26	13776				Taken from recorder, performing other duties.									
1400	30	13865				"									
1800	34	13921				"									
2200	38	13962													
5/9/92															
0200	42	13962													
0600	46	13969													
1000	50	14031													
1400	54	14059				Taken from recorder									
1800	58	14086				"									
2200	62	14107													
6/9/92			↓		↓										
0200	66	14114	0		S/I										

ET 104

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos
WELL NAME : Pelican # 2 Upper
TEST TYPE : B.H.P.S.
PERFORATIONS: 7807' - 7877' KB
FORMATION : Toolachee
PAGE: 4 OF 4
DATE: 6/9/92
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
6/9/92															
0600	70	14148	0		S/I	Build up con't									
1000	74	14155													
1400	78	14190													
1800	82	14210													
2200	86	14231													
7/9/92															
0200	90	14245													
0600	94	14252													
0800	96	14258				P.O.OH to end 96 HR Build up.									
0820		14258				At surface, depressure.									
0920		14210				Pressure Lub.									
1020		14293				Depressure Lub, remove ameradas & check charts. good charts.									
						Re'load for static Gradient.									
1053		14272				Pressure Lub for S.G.S (2x pressure elements & 1 Temp element).									
1108		14293				Depressure Lub.									
1113		14272				Pressure Lub & R.I.H to stops as per program									
1215		14300				At 7600' KB, bottom stop.									
1230		14300				P.O.O.H									
1247		14300				In Lub, depressure.									
1252		14272	↓		↓	Pressure Lub.									
1307		14300	0		S/I	Depressure Lub, remove ameradas & check charts.; good charts.									
						Rig onto Lower Zone.									

ET 104

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos.	PERFORATIONS: 7807'-7877' KB	PAGE: 1 OF 1
WELL NAME: Pelican* 2 Upper.	FORMATION : Toolachee.	DATE: 2/9/92.
TEST TYPE : B.H.P.S.		OPR : P. Bowyer.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	29321	29323	29216	DATE 2/9/92.		630	
ELEMENT RANGE PSI	4000	3950	156°-366°	PRESSURE LUBRICATOR	1423	4344	0
RECORDING SECTION SERIAL NO.	14631	12963	14926	RUN IN HOLE	1623	4344	0
DATE OF CALIBRATION: @ 290°F	20/5/92	20/5/92.		ON DEPTH AT Hang depth 7600 FT/M	1641	4344	0
CLOCK SERIAL NO.	F-15690	F-15695	F-15694	DATE 7/9/92.			
CLOCK RANGE HR	120	120	120	PULL OUT OF HOLE	0800	14258	0
LEAD SCREW TYPE TLS	15	15	15	AT SURFACE	0820	14258	0
				DEPRESSURE LUBRICATOR	1020	14293	0
ENGAGE STYLUS DATE 2/9/92. TIME	1407	1407	1407	MAXIMUM BHT AT FT/M = 243 °F/M		2073	
DISENGAGE STYLUS DATE 7/9/92. TIME	1031	1031	1031	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
		NB: Hang depth adjusted due to drift run results. IN / OUT
3/9/92	0800	Shut well in for 96 HR Build up. Top: 628/2073

ET 108

323

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos
WELL NAME: Pelican * 2 Upper
TEST TYPE : Static Gradient

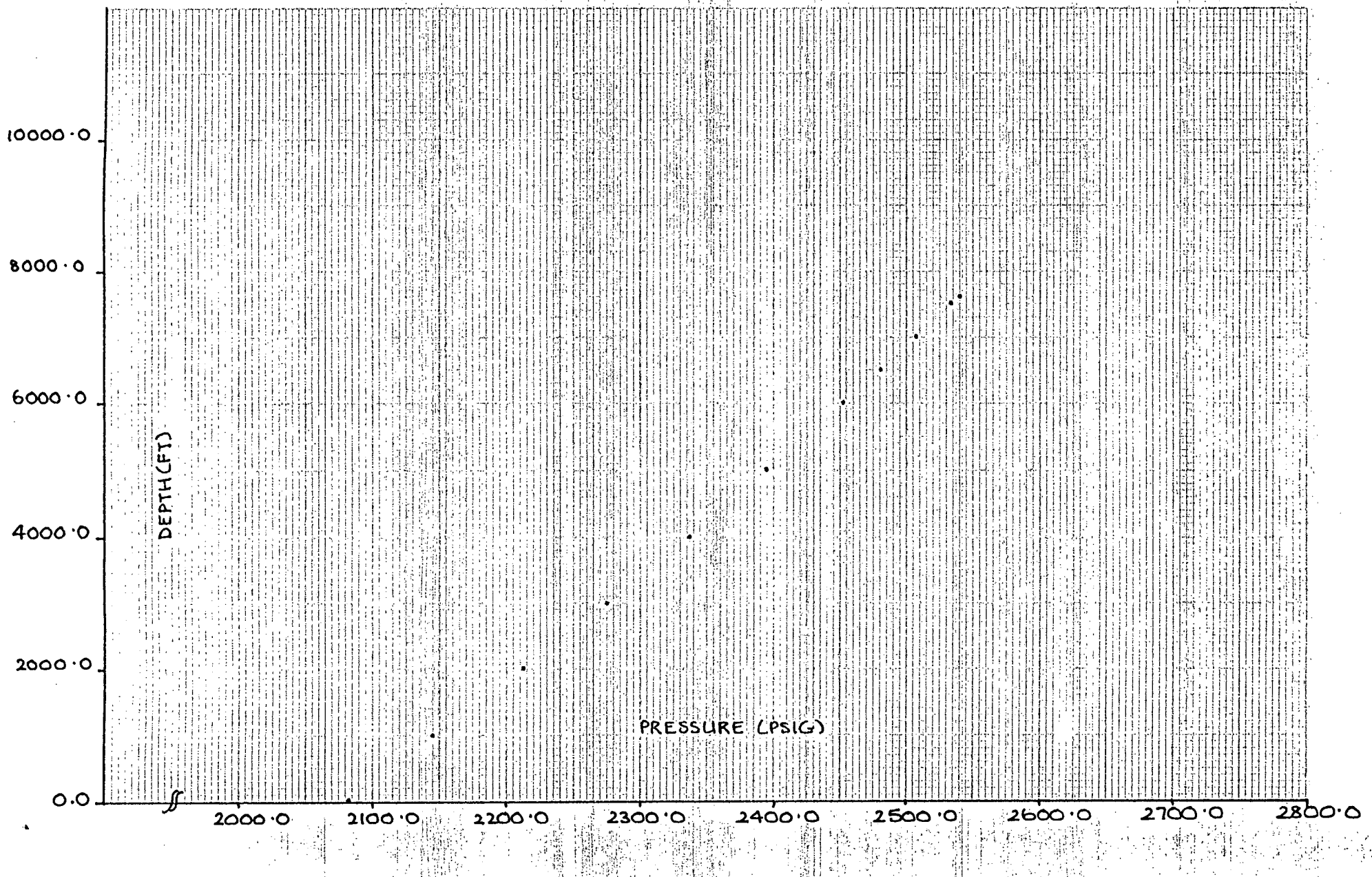
PERFORATIONS: 7807' - 7877' KB.
FORMATION : Toolachee.

PAGE: 1 OF 1
DATE: 7/9/92.
OPR : P. Bawyer.

GAUGE DATA		UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.		29321	29323	29216	DATE : 7/9/92.			
ELEMENT RANGE	PSI	4000	3950	156°-366°F	PRESSURE LUBRICATOR :	1053	14272	0
RECORDING SECTION SERIAL NO.		14631	12963	14926	RUN IN HOLE :	1113	14272	0
DATE OF CALIBRATION:	@ 290°F	20/5/92	20/5/92		ON DEPTH AT : 7600 FT/M	1215	14300	0
CLOCK SERIAL NO.		2387	2431	2180	DATE : 7/9/92.			
CLOCK RANGE	HR	3	3	3	PULL OUT OF HOLE :	1230	14300	0
LEAD SCREW TYPE	TLS	15	15	15	AT SURFACE :	1247	14300	0
					DEPRESSURE LUBRICATOR :	1307	14300	0
ENGAGE STYLUS DATE	7/9/92 TIME	1043	1043	1043.	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS DATE	7/9/92 TIME	1318	1318	1318	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS

PELICAN # 2 UPPER — STATIC PRESSURE GRADIENT — 7/9/92
ELEMENT # 29323/3950 (BOT)



Fm 5030

EXPERTEST
WIRELINE & WELL TESTING SERVICE
A.C.N. 008 034 062 PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Monday, 7th September 1992.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN#ZUPPER	TOOLACHEE

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29321	4000	20/ 5/92
Bottom	29323	3950	20/ 5/92

WELL DATA

PARAMETER	VALUE
DWT In	2073 PSIG
DWT Out	2074 PSIG
Max BHT	

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	1.0340	2075.3	-----	1.0440	2081.7	-----
1000	1.0660	2139.9	0.065	1.0760	2145.5	0.064
2000	1.0980	2204.5	0.065	1.1095	2212.3	0.067
3000	1.1310	2271.1	0.067	1.1410	2275.1	0.063
4000	1.1610	2331.7	0.061	1.1720	2336.9	0.062
5000	1.1900	2390.3	0.059	1.2015	2395.8	0.059
6000	1.2190	2448.9	0.059	1.2300	2452.6	0.057
6500	1.2340	2479.2	0.061	1.2435	2479.6	0.054
7000	1.2470	2505.4	0.053	1.2575	2507.5	0.056
7500	1.2595	2530.7	0.051	1.2710	2534.4	0.054
7600	1.2640	2539.8	0.091	1.2740	2540.4	0.060
LUB.	1.0320	2071.2	-----	1.0415	2076.7	-----

GENERAL REMARKS

TEMP ELE 29216 / 156-366 F RUN ON SURVEY

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 10 FIELD PELICAN		WELL 02L	
EFF DEPTH		WELL STAT		TOOL HUNG	7644'
CASING	-	CASING PRESS		ON BOTTOM	1618 8/9
LINER	-	TUBING PRESS		OFF BOTTOM	0800 13/9
DATE	920913	ELEMENT RANGE	0 - 3994	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	0800 9/9
MAX TEMP	234°F	PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	29323	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BHP		

SURVEY DATA

CO. RUN 10 FIELD PELICAN WELL 02L

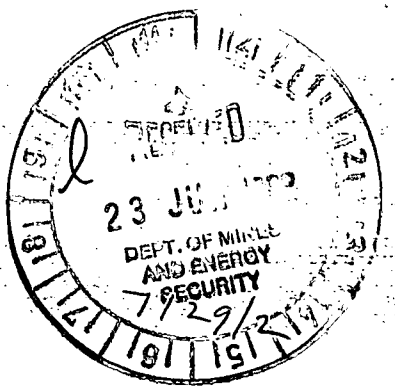
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
8:00	951.4	951.4	.0	14:22	1466.2	1466.2	30.4
8:00	974.1	974.1	.0	19:18	1472.4	1472.4	35.3
8:03	1026.7	1026.7	.1	0:07	1478.9	1478.9	40.1
8:07	1079.7	1079.7	.1	6:18	1485.2	1485.2	46.3
8:12	1124.7	1124.7	.2	12:15	1493.4	1493.4	52.2
8:19	1161.5	1161.5	.3	18:15	1497.0	1497.0	58.2
8:29	1184.2	1184.2	.5	1:12	1501.2	1501.2	65.2
8:43	1213.0	1213.0	.7	8:22	1508.9	1508.9	72.4
9:05	1243.9	1243.9	1.1	15:01	1514.4	1514.4	79.0
9:35	1264.3	1264.3	1.6	22:29	1519.0	1519.0	86.5
10:20	1287.9	1287.9	2.3	5:31	1522.6	1522.6	93.5
11:16	1311.5	1311.5	3.3	8:00	1524.4	1524.4	96.0
12:14	1333.2	1333.2	4.2	- 7:47	940.4	940.4	-15.8
13:38	1356.8	1356.8	5.6	- 5:42	944.4	944.4	-13.7
15:04	1374.8	1374.8	7.1	- 3:48	948.2	948.2	-11.8
17:09	1393.3	1393.3	9.1	- 1:07	948.5	948.5	-9.1
19:56	1412.1	1412.1	11.9	2:19	951.9	951.9	-5.7
23:47	1429.8	1429.8	15.8	5:49	951.3	951.3	-2.2
4:18	1443.7	1443.7	20.3	8:00	952.0	952.0	.0
9:03	1453.8	1453.8	25.1	0:00	.0	.0	.0

LUB IN DWT = 631 PSI / OUT = 1207 PSI
LUB IN AMERADA = 640 PSI / OUT = 1211 PSI

SWI @ 0800 hrs 9/9/92
August Total Gas Cum = 42.6 E6m³
August Mean Gas daily = 33.6 E3m³/d = 0.0336 E6m³/d

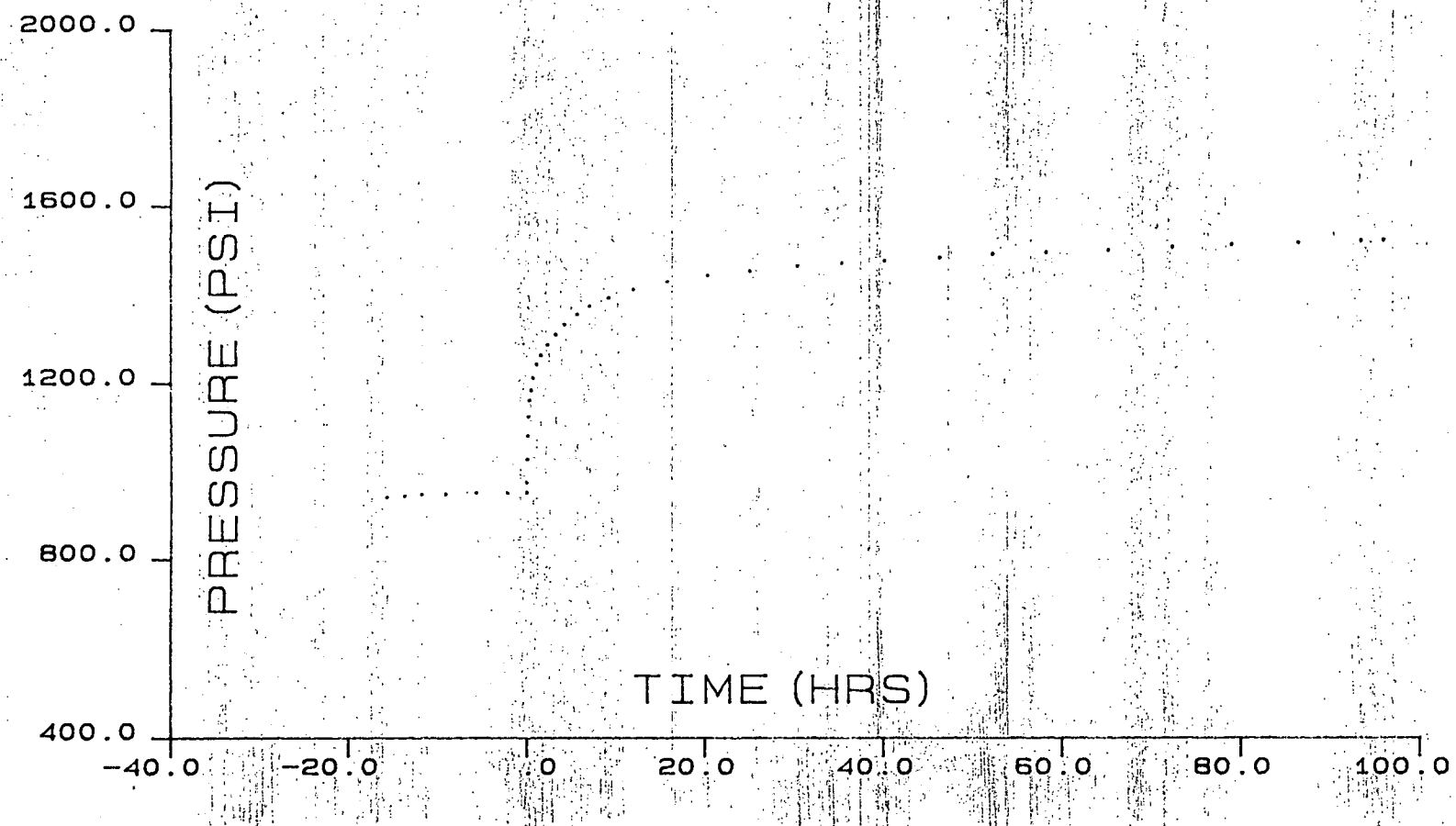
Assume well O/L 8.3 days before S/I
Then Total Gas Cumulative = (8.3 x 0.0336) + 42.6
= 42.880 E6m³ ✓

Assume Qg prior to S/I = Aug mean gas daily
= 33.6 E3m³/d ✓



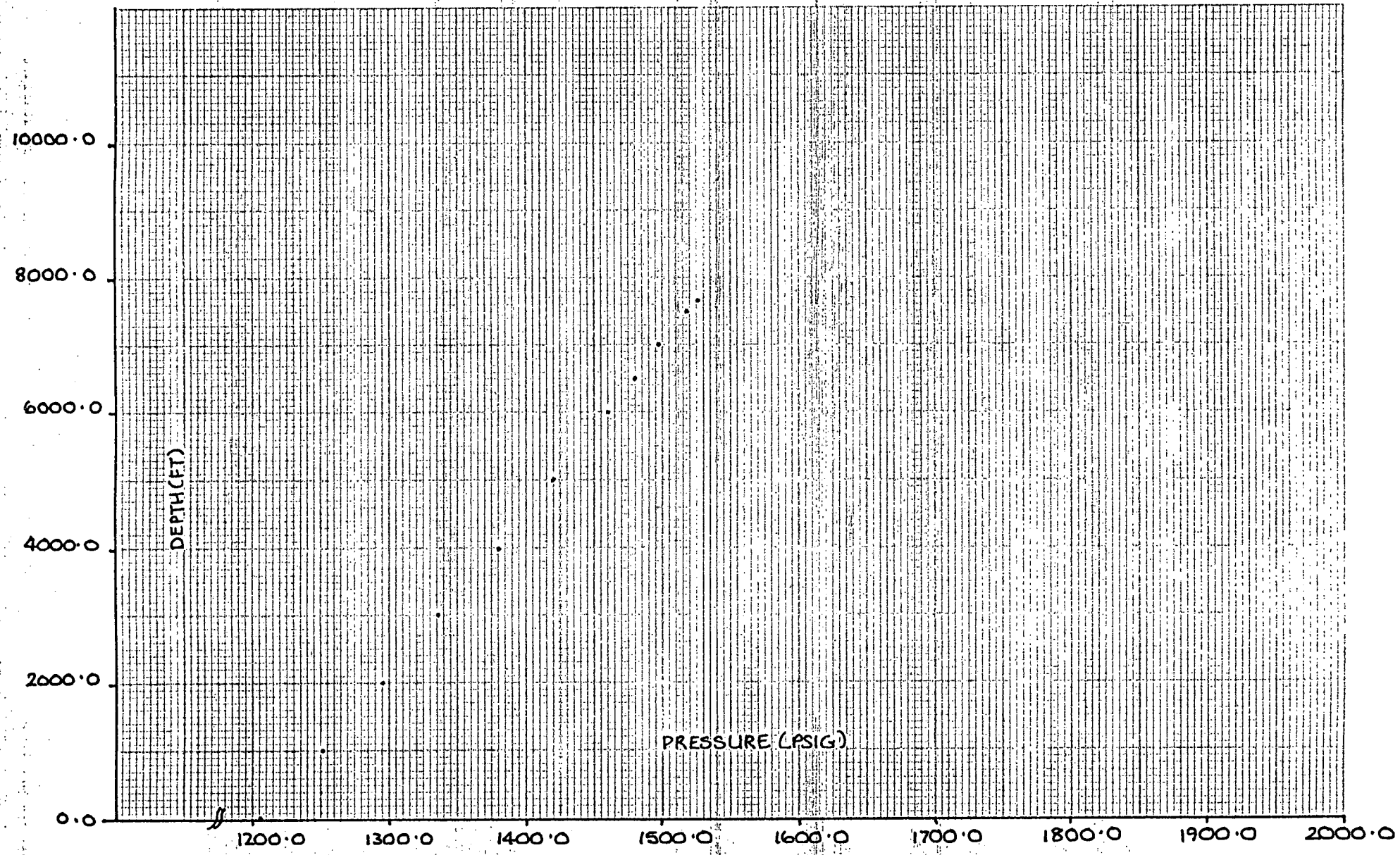
PELICAN #2L BHP SEPTEMBER 1992

ELEMENT #29323 (BOT) @7644'KB



00328

PELICAN # 2 LOWER — STATIC PRESSURE GRADIENT — 13/9/92
ELEMENT # 29321/4000 (TOP)



00229

Fm 5030

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : Santos.	PERFORATIONS: 8127'-8555' KB	PAGE: 1 OF 2
WELL NAME: Pelican # 2 Lower	FORMATION : Patchawarra.	DATE: 7/9/92.
TEST TYPE : B.H.P.S.		OPR : P. Bowyer

DATE/TIME	DESCRIPTION OF EVENTS
7/9/92.	Upper zone B.H.P.S completed.
1525	S.W.I to install a swab valve.
1600	B.O.L on 100% choke, rig up wire line unit.
1615	Rig in complete; secure well overnight.
8/9/92.	
1230	Arrive on location & make up toolstring for drift run
1250	R.I.H with 1.5" toolstring & 1.75" B/Box
1318	Tag tight spot @ 7748' KB
1319	Tag an obstruction @ 7760' KB, unable to jar through, P.O.O.H
1337	In Lub, depressure, remove toolstring & prepare ameradas.
1400	Pressure Lub for B.H.P.S. (2x pressure elements & 1 Temp element).
1500	Depressure Lub
1600	Pressure Lub & R.I.H
1618	At 7650' KB, Hang depth, flow well overnight
9/9/92	
0800	S.W.I for 96 HR build up.
13/9/92.	
0800	P.O.O.H to end 96 HR build up.
0820	In Lub, depressure.
0920	Pressure Lub
1020	Depressure, remove ameradas & check charts.
..	Re load ameradas for static gradient.
1055	Pressure Lub for S.G.S. (2x pressure elements & 1 Temp element)
1110	Depressure Lub

ET 102

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : Santos	PERFORATIONS: 8127' - 8555' KB	PAGE: 2 OF 2
WELL NAME: Pelican # 2 Lower	FORMATION : Patchawarra	DATE: 13/9/92.
TEST TYPE : B.H.P.S		OPR : P. Bowyer

DATE/TIME	DESCRIPTION OF EVENTS
13/9/92	
1115	Pressure Lub & R.I.H to stops as per program
1220	At 7650' KB, bottom stop.
1235	P.O.O.H
1255	In Lub, depressure
1300	Pressure Lub
1315	Depressure Lub, remove ameradas & check charts good charts.
1340	Rig down wire line unit.
1430	Move off location.

ET 102

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Lower.
TEST TYPE : B.H.P.S.

PERFORATIONS: 8127' - 8555' KB.
FORMATION : Patchawarra

DATE: 7/9/92.
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
7/9/92							Upper Zone B.H.P.S completed.								
1525					100		S.W.I to install a swab valve								
1600							B.O.L on 100% choke. rig up wire line unit.								
1615							Rig in complete, secure well overnight.								
8/9/92.															
1230							Arrive on location & make up toolstring for drift run.								
1250							R.I.H with 1.5" toolstring & 1.75" B/Box. pickups every 1000' to 3000' & every 500' to tag.								
1318							Tag tight spot @ 7748' KB'								
1319							Tag an obstruction @ 7760' KB. unable to jar through P.O.O.H								
1337							In Lub, depressure, remove toolstring & prepare amerada's								
1400		4351	0	57			Pressure Lub for B.H.P.S (2x pressure elements & 1 Temp element).								
1500		4357		58			Depressure Lub								
1600		4330		58			Pressure Lub & R.I.H								
1618		4344		58			At 7650' KB. Hang depth. flow well overnight.								
1800		4344		58											
2200		4344		58											
9/9/92															
0200		4337	↓	56											
0600		4330	0	56	100										

ET 104

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Lower
TEST TYPE : B.H.P.S.
PERFORATIONS: 8127' - 8555' KB
FORMATION : Patchawarra
PAGE: 2 OF 4
DATE: 9/9/92.
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
9/9/92.															
0800	0	4330	0	56	100	Shut well in for 96 HR build up.									
0805		5812		54	S/I										
0810		6164		50											
0815		6295		45											
0830		6557		36											
0845		6715		30											
0900	1	6798		28											
0915		6867		28											
0930		6922		29											
0945		6970		30											
1000	2	7019		31											
1015		7060		33											
1030		7074		34											
1045		7115		35											
1100	3	7143		35											
1115		7171		35											
1130		7198		35											
1145		7226		35											
1200	4	7260		35											
1800	10	7626	↓		↓										
2200	14	7763	0		S/I										

ET 104

323

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos
WELL NAME: Pelican #2 Lower
TEST TYPE : B.H.P.S.

PERFORATIONS: 8127' - 8555' KB
FORMATION : Patchawarra

PAGE: 3 OF 4
DATE: 10/9/92
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	~~FLOW OR~~ SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
10/9/92															
0200	18	7826	0		S/I	Build up con't									
0600	22	7901													
1000	26	7936				Taken from recorder									
1400	30	7977				"									
1800	34	8025													
2200	38	8053													
11/9/92															
0200	42	8074													
0600	46	8108													
1000	50	8115													
1400	54	8136				Taken from recorder									
1800	58	8163				"									
2200	62	8191													
12/9/92															
0200	66	8205													
0600	70	8212													
1000	74	8232													
1400	78	8260													
1800	82	8274	↓		↓										
2200	86	8288	0		S/I										

ET 104

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Lower
TEST TYPE : B.H.P.S.
PERFORATIONS: 8127' - 8555' KB.
FORMATION : Patchawarra
PAGE: 4 OF 4
DATE: 13/9/92.
OPR : P. Bowyer

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
13/9/92															
0200	90	8301	0		S/I	Build up con't									
0600	94	8308													
0800	96	8315				P.O.O.H to end 96 HR build up									
0820		8315				In Lub, depressure									
0920		8315				Pressure Lub									
1020		8322				Depressure Lub, remove ameradas & check charts									
						Re load ameradas for static Gradient									
1055		8329				Pressure Lub for S.G.S (2 x pressure elements & 1 temp ele).									
1110		8329				Depressure Lub									
1115		8329				Pressure Lub & R.I.H to stops as per program									
1220		8336				At 7650' KB, bottom stop.									
1235		8336				P.O.O.H									
1255		8350				In Lub, depressure									
1300		8350	↓		↓	Pressure Lub									
1315		8350	0		S/I	Depressure Lub, remove ameradas & check charts good charts.									
1340						Rig down wire line unit.									
1430						Move off location.									

WWA

ET 104

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos.
WELL NAME: Pelican # 2 Lower
TEST TYPE : B.H.P.S.
PERFORATIONS: 8127' - 8555' KB
FORMATION : Patchawarra.
PAGE: 1 OF
DATE: 8/9/92.
OPR : P. Bowyer

GAUGE DATA		UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.		29321	29323	29216
ELEMENT RANGE	PSI	4000	3950	156°-366°F
RECORDING SECTION SERIAL NO.		14631	12963	14926
DATE OF CALIBRATION:	@ 290°F	20/5/92	20/5/92	
CLOCK SERIAL NO.		F15296	F15695	F15306
CLOCK RANGE	HR	120	120	120
LEAD SCREW TYPE	TLS	15	15	15
ENGAGE STYLUS DATE	8/9/92. TIME	1352	1352	1352.
DISENGAGE STYLUS DATE	13/9/92 TIME	1032	1032	1032

RUN DATA	TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE 8/9/92.		631	
PRESSURE LUBRICATOR	1400	4351	0
RUN IN HOLE	1600	4330	0
ON DEPTH AT Hang depth 7650 FT/M	1618	4344	0
DATE 13/9/92.			
PULL OUT OF HOLE	0800	8315	0
AT SURFACE	0820	8315	0
DEPRESSURE LUBRICATOR	1020	8322	0
MAXIMUM BHT AT FT/M = 234 °F/~~C~~		1207	
N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
		IN / OUT
9/9/92	0800	Shut well in for 96 HR build up.
		BOT : 640/1211
		No last Lub stop on QE # 29321 x 4000 PSI.

W30

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos
WELL NAME: Pelican # 2 Lower
TEST TYPE : Static Gradient

PERFORATIONS: 8127' - 8555' KB
FORMATION : Patchawarra

PAGE: 1 OF 1
DATE: 13/9/92
OPR : P. Bowyer

GAUGE DATA		UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.		29321	29323	29216
ELEMENT RANGE	PSI	4000	3950	156°-366°F
RECORDING SECTION SERIAL NO.		14631	12963	14926
DATE OF CALIBRATION:	@290°F	20/5/92	20/5/92	
CLOCK SERIAL NO.		2431	2180	2395
CLOCK RANGE	HR	3	3	3
LEAD SCREW TYPE	TLS	15	15	15
ENGAGE STYLUS DATE	13/9/92 TIME	1047	1047	1047
DISENGAGE STYLUS DATE	TIME	1325	1325	1325

RUN DATA	TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE 13/9/92			
PRESSURE LUBRICATOR	1055	8329	0
RUN IN HOLE	1115	8329	0
ON DEPTH AT 7650 FT/~~M~~	1220	8336	0
DATE 13/9/92			
PULL OUT OF HOLE	1235	8336	0
AT SURFACE	1255	8350	0
DEPRESSURE LUBRICATOR	1315	8350	0
MAXIMUM BHT AT FT/M = °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS

32H

ET 108

EXPERTEST
WIRELINE & WELL TESTING SERVICE
A.C.N. 008 034 062 PO BOX 354 COWANDILLA 5033
PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408
138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Sunday, 13th September 1992.

CLIENT	LOCATION	FORMATION
Santos Ltd.	PELICAN #2LOWER	PATCHAWARRA

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29321	4000	20/ 5/92
Bottom	29323	3950	20/ 5/92

WELL DATA	
PARAMETER	VALUE
DWT In	1208 PSIG
DWT Out	1211 PSIG
Max BHT	

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.6030	1206.7	-----	0.6085	1214.1	-----
1000	0.6250	1250.9	0.044	0.6300	1256.9	0.043
2000	0.6475	1296.7	0.045	0.6525	1301.7	0.045
3000	0.6675	1336.5	0.040	0.6730	1342.6	0.041
4000	0.6895	1380.8	0.044	0.6940	1384.4	0.042
5000	0.7090	1420.0	0.039	0.7145	1425.2	0.041
6000	0.7290	1460.3	0.040	0.7350	1466.1	0.041
6500	0.7390	1480.4	0.040	0.7445	1485.0	0.038
7000	0.7475	1497.6	0.034	0.7540	1503.9	0.038
7500	0.7580	1518.7	0.042	0.7640	1523.8	0.040
7650	0.7615	1525.8	0.047	0.7680	1531.8	0.053
LUB.	0.6030	1206.7	-----	0.6090	1215.1	-----

GENERAL REMARKS

TEMP ELE 29216 / 156 - 366 F RUN ON SERVEY

..'ERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 7807' - 7877'	PAGE: 1 OF 2
WELL NAME: DELICAN #2 UPPER	FORMATION : TOOLACHEE	DATE: 10/7/93
TEST TYPE : B.H.P.S.		OPR : K. KEANE

DATE/TIME	DESCRIPTION OF EVENTS
10/7/93	
0745	ARRIVE LOCATION. HOLD SAFETY MEETING.
0855	SHUT WELL IN. ATTEMPT TO INSTALL SWAB VALVE. AB XOVER TOO LARGE - O.D.
	TO FIT ON DUAL COMPLETION (2 3/8" AND 2 7/8" TOO CLOSE TOGETHER - REQUIRE SMALLER
	2 3/8" AB XOVER (O.D)
	REMOVE EQUIPMENT.
0915	WELL BACK ON LINE.
1310	SHUT WELL IN. INSTALL AND PRESSURE TEST SWAB VALVE.
1325	WELL BACK ON LINE.
	RIG IN WIRELINE & EQUIPMENT.
1415	R.I.H. WITH 1.750" BLIND BOX.
1440	TAG OBSTRUCTION. AT 7457' K.B. P.O.O.H. F.T.H.P = 3850 KPA F.C.H.P = 0 KPA.
1500	ARRIVE LUBRICATOR. ADVISE MOOMBA OF OBSTRUCTION AND THE PRESENCE
	OF SCALE ON BLIND BOX AND SPANG JARS.
	STANDBY FOR INSTRUCTIONS FROM MOOMBA.
11/7/93.	
09:48	R.I.H 1.5" TOOL STRING. WORK THROUGH 7400' - 7600' KB TUBING CLEAR. NO OBSTRUCTIONS. P.O.O.H
10:30	AT SURFACE. DEPRESSURE LUBRICATOR. SECURE WELL.
14:00	PREPARE 2 PRESSURE ELEMENTS AND ONE TEMPERATURE ELEMENT FOR B.H.P.S.
16:22	R.I.H WITH BHP/BHT ELEMENTS TO SURVEY DEPTH OF 7600' KB AS PER PROGRAM. CONTINUE FLOWING WELL OVER-NIGHT
	ON A 100% CHOKE.

SECURITY 7129/2

00339

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 7807' - 7877' KB	PAGE: 2 OF 2
WELL NAME: PELICAN # 2 UPPER.	FORMATION : TOOLACHEE	DATE: 12/7/93.
TEST TYPE : B.H.P.S.		OPR : K. KEANE.

DATE/TIME	DESCRIPTION OF EVENTS
12/7/93.	
08:00	SHUT IN WELL. COMMENCE 96 HOUR BUILD UP PERIOD
12-16/7/93.	CONTINUE MONITORING BUILD UP.
16/7/93.	
08:00	BUILD UP PERIOD COMPLETED. P.O.O.H WITH BHP/B.H.T GAUGES.
08:22	IN LUBRICATOR
10:33	DEPRESSURE LUBRICATOR. RIG OUT GAUGES. TEMPRATURE GAUGE FAILED.
11:40	PREPARE B.H.P/BHT GAUGES FOR STATIC GRADIENT SURVEY.
12:13.	R.I.H WITH B.H.P/B.H.T GAUGES AND PREFORM STATIC GRADIENT SURVEY AS PER PROGRAM.
13:03.	BOTTOM GRADIENT STOP @ 7600' KB.
13:13.	PULL OUT OF HOLE.
13:40	IN LUBRICATOR
13:58	DEPRESSURE LUBRICATOR. RIG OUT GAUGES, GOOD CHARTS.
15:00	HAND WELL BACK TO PRODUCTION.

05801

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: DELICAN #2 UPPER
TEST TYPE : B.H.P.S.
PERFORATIONS: 7807' - 7877'
FORMATION : TOOLACHEE
PAGE: 1 OF 3
DATE: 11/7/93
OPR : K. KEANE.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION			
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (.KPa)	ANNULUS PRESSURE (.KPa)	WELLHEAD TEMP °C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	
11/7/93														
14:22		3920	ø	56	100	PRESSURE LUBRICATOR.								
16:22		3900	ø	54	"	RUN IN HOLE WITH BHP GAUGES.								
16:42		3890	ø	52.	"	GAUGES HANGING @ SURVEY DEPTH OF 7600' KB AS PER PROGRAM.								
18:00		3890	ø	50.	"	CONTINUE FLOWING WELL OVERNIGHT ON A 100% CHOKE.								
12/7/93.														
0600		3700	ø	50	100									
0800	14:75	3760	ø	50		FINAL FLOWING PRESSURE.								
0800	0					SHUT IN WELL. COMMENCE 96 HR BUILD UP PERIOD								
08:05	.^	6450	ø											
08:10		7700	ø											
08:15	.25	8500	ø											
08:30	.5	10130	ø											
08:45	.75	11120	ø											
09:00.	1	11660	ø											
09:15	1.25	12140	ø											
09:30	1.5	12440	ø											
09:45	1.75	12600	ø											
10:00	2	12850	ø											
10:15	2.25	12900	ø											
10:30	2.5	13100	ø											

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00941

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN #2 UPPER.
TEST TYPE : B.H.P.S.

PERFORATIONS: 7807' - 7877' KB
FORMATION : TOOLACHEE

DATE: 12/7/93
OPR : K. KEANE.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE 'KPa)	ANNULUS PRESSURE (/KPa)	WELLHEAD TEMP (.°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
12/7/93															
10:45	2.75	13170	ø												
11:00	3.	13210	ø												
11:15	3.25	13260	ø												
11:30	3.5	13300	ø												
11:45	3.75	13330	ø												
12:00	4.	13350	ø												
14:00	6	13480	ø												
18:00	10	13540	ø												
13/7/93															
0600	22.	13690	ø												
10:00	26	13730	ø												
14:00	30	13770	ø												
18:00	34	13810	ø												
14/7/93															
06:00	46	13840	ø												
10:00	50	13860	ø												
14:00	54	13880	ø												
18:00	58	13900	ø												
15/7/93															
06:00	70	13920	ø												

00042

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 UPPER.
TEST TYPE : B.H.P.S.

PERFORATIONS: 7807' – 7877' KB.
FORMATION : TOOLACHEE.

PAGE: 3. OF 3.
DATE: 15/7/93
OPR : K. KEANE.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
15/7/93.															
10:00	74	13930	ø												
14:00	78	13950	ø												
18:00	82.	13970	ø												
16/7/93.															
06:00.	94	13990	ø												
08:00	96	14000	ø	FINAL SHUT IN PRESSURE											
				BUILD UP PERIOD COMPLETED.											
				P.O.O.H WITH B.H.P GAUGES.											
08:22		14000	ø	IN LUBRICATOR											
10:33		14000	ø	DEPRESSURE LUBRICATOR RIG OUT GAUGES CHARTS OK.											
12:13.				PREFORM STATIC GRADIENT SURVEY. SEE ATTACHED DATA.											
15:00				HANDOVER WELL TO PRODUCTION.											

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EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD	PERFORATIONS: 7807' - 7877'	PAGE: 1 OF 1
WELL NAME: PELICAN #2 UPPER	FORMATION : TOOLACHEE	DATE: 12/7/93.
TEST TYPE : B. H. P. S.		OPR : K. KEANE

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (l/KPa)	ANNULUS PRESSURE (KPa)
ELEMENT SERIAL NO.	56429	56432	65865	DATE : 11/7/93			
ELEMENT RANGE	3000 PSI	3000 PSI	234°F/441°F	PRESSURE LUBRICATOR :	14:22	3920	ø
RECORDING SECTION SERIAL NO.	14628	70544	59288	RUN IN HOLE :	16:22	3900	ø
DATE OF CALIBRATION:	6/1/93	6/1/93		ON DEPTH AT : 7600 FT/	16:42	3890	ø
CLOCK SERIAL NO.	7	3604	F8243	DATE : 16/7/93			
CLOCK RANGE HRS	120	120	120	PULL OUT OF HOLE :	08:00	14000	ø
LEAD SCREW TYPE TLS	15	15	15	AT SURFACE :	08:22	14000	ø
				DEPRESSURE LUBRICATOR :	10:33	14000	ø
ENGAGE STYLUS DATE 11/7/93 TIME	14:12	14:12	14:12.	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS DATE 16/7/93 TIME	10:42	10:42	10:42.	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
12/7/93.		
	08:00	SHUT IN WELL. COMMENCE 96 HOUR BUILD UP.
16/7/93.		
	08:00	BUILD UP COMPLETED. P.O.O.H.

ET 108

003475

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 01 FIELD PELICAN		WELL 2U	
EFF DEPTH		WELL STAT		TOOL HUNG	7594'KB
CASING	-	CASING PRESS		ON BOTTOM	1642 11/7
LINER	-	TUBING PRESS		OFF BOTTOM	0800 16/7
DATE	930712	ELEMENT RANGE	0 - 3093	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	0800 12/6
MAX TEMP	243	PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	56432	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	BHP		

SURVEY DATA

CO. SANTOS — RUN 01 FIELD PELICAN — WELL 2U

TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
START BUILD-UP 8:00	764.4	764.4	.0	1:17	2420.8	2420.8	17.3
8:02	816.0	816.0	.0	3:55	2427.6	2427.6	19.9
8:02	854.1	854.1	.0	7:31	2434.3	2434.3	23.5
8:04	906.7	906.7	.1	11:01	2438.6	2438.6	27.0
8:07	1010.3	1010.3	.1	12:12	2440.4	2440.4	28.2
8:09	1100.0	1100.0	.2	12:28	2444.9	2444.9	28.5
8:13	1195.8	1195.8	.2	12:44	2450.1	2450.1	28.7
8:16	1295.8	1295.8	.3	13:18	2451.7	2451.7	29.3
8:19	1355.4	1355.4	.3	14:52	2452.1	2452.1	30.9
8:23	1458.2	1458.2	.4	16:47	2451.7	2451.7	32.8
8:28	1544.3	1544.3	.5	19:52	2452.7	2452.7	35.9
8:34	1629.0	1629.0	.6	23:27	2456.0	2456.0	39.4
8:43	1757.0	1757.0	.7	3:13	2457.8	2457.8	43.2
8:50	1841.5	1841.5	.8	6:04	2460.0	2460.0	46.1
8:58	1920.6	1920.6	1.0	9:25	2462.5	2462.5	49.4
9:08	1998.9	1998.9	1.1	13:56	2463.8	2463.8	53.9
9:20	2073.0	2073.0	1.3	17:38	2466.7	2466.7	57.6
9:31	2126.6	2126.6	1.5	21:32	2469.9	2469.9	61.5
9:45	2179.6	2179.6	1.8	1:19	2472.2	2472.2	65.3
10:02	2232.1	2232.1	2.0	4:45	2475.3	2475.3	68.7
10:15	2262.6	2262.6	2.3	7:59	2477.2	2477.2	72.0
10:33	2295.1	2295.1	2.6	12:26	2480.8	2480.8	76.4
10:55	2322.3	2322.3	2.9	16:42	2482.7	2482.7	80.7
11:29	2343.2	2343.2	3.5	21:26	2484.8	2484.8	85.4
12:08	2359.8	2359.8	4.1	2:23	2487.9	2487.9	90.4
13:20	2375.6	2375.6	5.3	6:24	2491.1	2491.1	94.4
14:54	2387.6	2387.6	6.9	8:00	2492.0	2492.0	96.0 END BUILD-UP
16:55	2397.4	2397.4	8.9	- 6:21	776.4	776.4	-14.4
19:26	2409.1	2409.1	11.4	- 5:22	771.2	771.2	-13.4
22:37	2415.3	2415.3	14.6	- 4:15	769.3	769.3	-12.3

SURVEY DATA

CO. SANTOS RUN 01 FIELD PELICAN WELL 2U

	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
-	3:30	764.7	764.7	-11.5	1:51	761.8	761.8	-6.2
-	2:47	742.7	742.7	-10.8	3:09	755.2	755.2	-4.9
-	2:09	723.3	723.3	-10.1	4:23	705.3	705.3	-3.6
-	2:04	810.4	810.4	-10.1	4:54	715.0	715.0	-3.1
-	1:38	761.5	761.5	-9.6	5:32	715.7	715.7	-2.5
-	0:54	736.2	736.2	-8.9	5:45	742.9	742.9	-2.2
-	0:32	705.4	705.4	-8.5	6:11	690.8	690.8	-1.8
-	0:30	786.1	786.1	-8.5	6:50	739.2	739.2	-1.2
-	0:27	844.6	844.6	-8.5	7:06	703.8	703.8	-.9
-	0:12	776.2	776.2	-8.2	7:12	799.3	799.3	-.8
	0:31	766.2	766.2	-7.5	7:51	771.0	771.0	-.1

LUBRICATOR DWT; IN:569 psi / OUT:2030 psi
LUBRICATOR AMERADA; IN:559 psi / OUT:2026 psi
ELEMENT #56429 WAS ALSO RUN.
MAXIMUM TEMPERATURE WAS OBTAINED FROM THE SGS RUN TEMPERATURE ELEMENT.

WELL WAS SHUT IN @ 0800 HRS ON 12/7/93

. WELL WAS ON LINE FOR 11.333 DAYS IN JULY BEFORE S/I.

JUNE CUMULATIVE TOTAL = $47.6\ E^6 m^3$

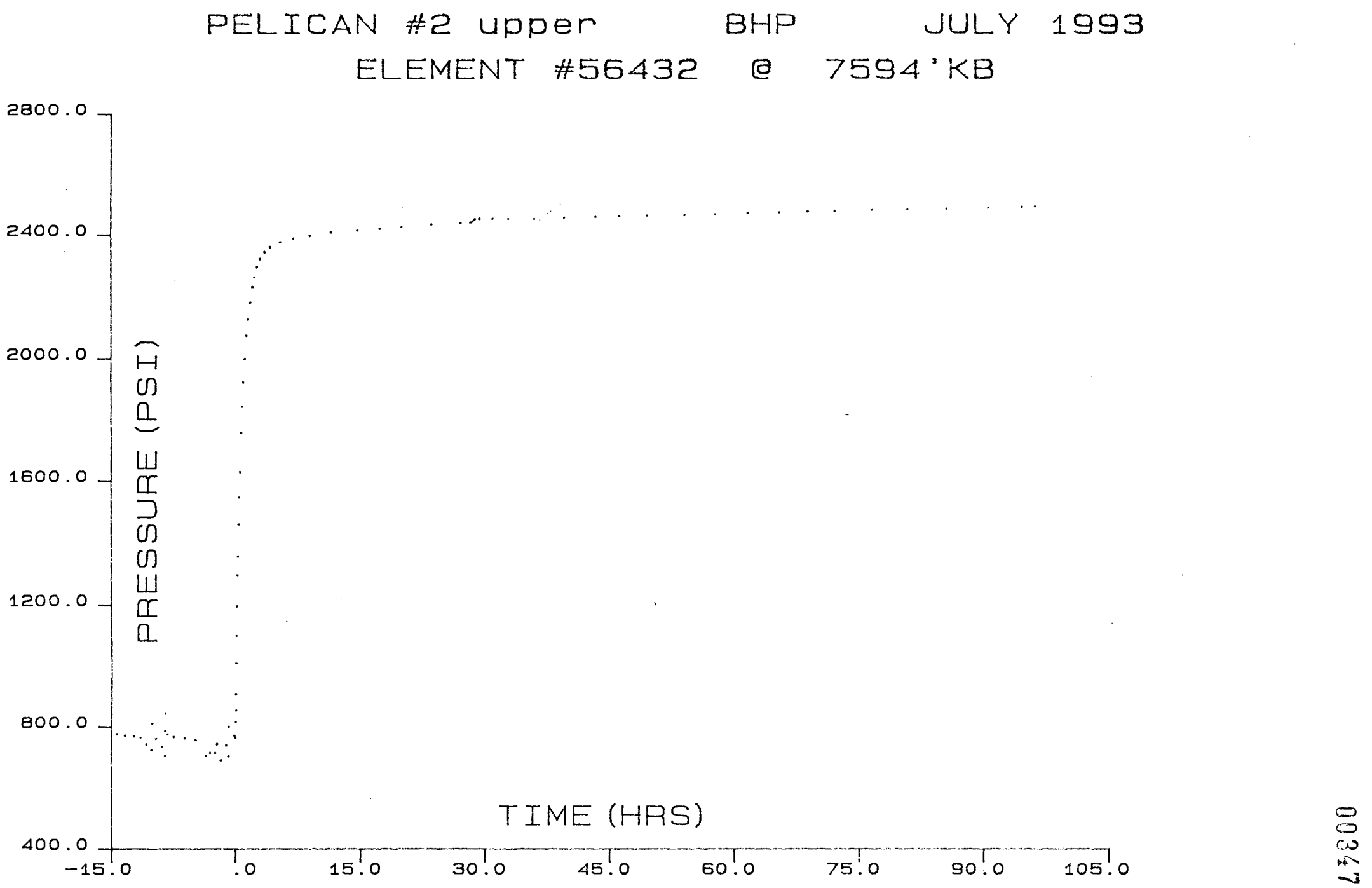
JUNE MEAN GAS DAILY = $35.8\ E3 m^3/d = 0.0358 E6 m^3$

. JULY CUMULATIVE TOTAL BEFORE SHUT IN

$= 47.6 + (11.333 \times 0.0358)$

$= 48.0\ E6 m^3$

NOTE: ASSUMES JULY MEAN GAS DAILY IS EQUIVALENT TO THE JUNE MEAN GAS DAILY.


PELICAN #2 upper BHP JULY 1993
ELEMENT #56432 @ 7594'KB
2800.0
2400.0
2000.0
1600.0
1200.0
800.0
400.0
PRESSURE (PSI)
-15.0
.0
15.0
30.0
45.0
60.0
75.0
90.0
105.0
TIME (HRS)

00847

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD	PERFORATIONS: 7801' - 7877' KB.	PAGE: 1 OF 1
WELL NAME: PELICAN # 2 UPPER	FORMATION : TOOLACHEE	DATE: 16/7/93
TEST TYPE : S.G.S.		OPR : K. KEANE.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	56429	56432.	63256	DATE : 16/7/93			
ELEMENT RANGE	3000 PSI	3000 PSI	195-471°F	PRESSURE LUBRICATOR :	11:58	14000	ø
RECORDING SECTION SERIAL NO.	14628	70544	30929	RUN IN HOLE :	12:13	14000	ø
DATE OF CALIBRATION:	6/1/93	6/1/93.		ON DEPTH AT : 7600 FT/M	13:03	14000	ø
CLOCK SERIAL NO.	9140H4	A15013	A15014	DATE : 16/7/93.			
CLOCK RANGE	3HR	3HR	3HR	PULL OUT OF HOLE :	13:13	14000	ø
LEAD SCREW TYPE	15 TLS	15 TLS	15 TLS.	AT SURFACE :	13:40	14000	ø
				DEPRESSURE LUBRICATOR :	13:58	14000	ø
ENGAGE STYLUS DATE 16/7/93. TIME	11:48	11:48	11:48	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS DATE 16/7/93 TIME	14:02	14:02	14:02.	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS

ET 108

00348

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Friday, 16th July 1993.

STATIC PRESSURE GRADIENT REPORT

CLIENT	LOCATION	FORMATION
SANTOS LTD.	PELICAN #2U	TOOLACHEE

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	56429	3000	6/ 1/93
Bottom	56432	3000	6/ 1/93

WELL DATA

PARAMETER	VALUE
DWT In	2030 PSIG
DWT Out	2030 PSIG
Max BHT	N/A

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	1.3170	2031.9	-	1.3160	2028.2	-
1000	1.3580	2095.5	0.064	1.3580	2093.3	0.065
2000	1.4020	2163.7	0.068	1.4020	2161.4	0.068
3000	1.4400	2222.7	0.059	1.4420	2223.4	0.062
4000	1.4800	2284.7	0.062	1.4810	2283.9	0.061
5000	1.5160	2340.6	0.056	1.5200	2344.4	0.061
6000	1.5560	2402.7	0.062	1.5580	2403.3	0.059
7000	1.5940	2461.6	0.059	1.5980	2465.4	0.062
7500	1.6120	2489.6	0.056	1.6170	2494.9	0.059
7600	1.6160	2495.8	0.062	1.6200	2499.6	0.047
LUB.	1.3140	2027.3	-	1.3180	2031.3	-

GENERAL REMARKS

EXPERTEST PTY. LTD.

STATIC PRESSURE GRADIENT SURVEY

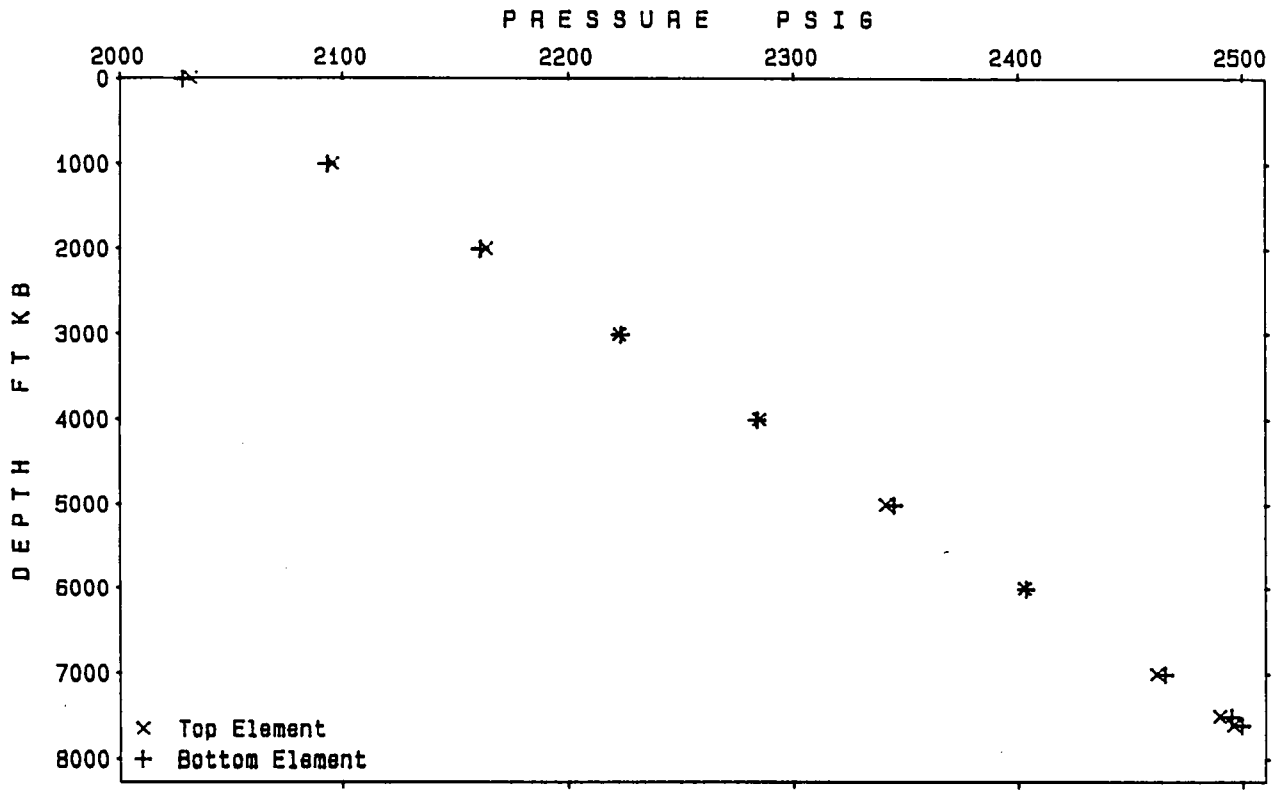
Location: PELICAN #2U	Tested: 16th July 1993.
Formation: TOOLACHEE	Client: SANTOS LTD.

PRESSURE ELEMENT DATA

Position	Serial No	Range	Calibrated
Top	56429	3000	6/ 1/93
Bottom	56432	3000	6/ 1/93

WELL DATA

DWT In	2030 PSIG
DWT Out	2030 PSIG
Max BHT	N/A



Depth FT KB	TOP ELEMENT Deflection Inches	TOP ELEMENT Pressure PSIG	TOP ELEMENT Gradient PSI/FT	BOTTOM ELEMENT Deflection Inches	BOTTOM ELEMENT Pressure PSIG	BOTTOM ELEMENT Gradient PSI/FT
LUB.	1.3170	2031.9	-	1.3160	2028.2	-
1000	1.3580	2095.5	0.064	1.3580	2093.3	0.065
2000	1.4020	2163.7	0.068	1.4020	2161.4	0.068
3000	1.4400	2222.7	0.059	1.4420	2223.4	0.062
4000	1.4800	2284.7	0.062	1.4810	2283.9	0.060
5000	1.5160	2340.6	0.056	1.5200	2344.4	0.060
6000	1.5560	2402.7	0.062	1.5580	2403.3	0.059
7000	1.5940	2461.6	0.059	1.5980	2465.4	0.062
7500	1.6120	2489.6	0.056	1.6170	2494.9	0.059
7600	1.6160	2495.8	0.062	1.6200	2499.6	0.047
LUB.	1.3140	2027.3	-	1.3180	2031.3	-

GENERAL REMARKS

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 8127'- 8555' K.B.	PAGE: 1 OF 3
WELL NAME: PELICAN # 2 LWR.	FORMATION : PATCHAWARRA.	DATE: 14th JULY 199
TEST TYPE : L.E.T. & B.H.P.S		OPR : B. HULL.

DATE/TIME	DESCRIPTION OF EVENTS
14th JULY 1993.	
14:15	ARRIVE ON LOCATION. - WELL IS FLOWING @ 100/c CHOKE — T 3840 Kpa; C Ø kpa
14:30	SPOT WELL TESTING EQUIPMENT
15th JULY 1993.	
	COMMENCE RIG IN OF TEST FLANGES & WELL TESTING EQUIPMENT FOR IN-LINE TEST.
	RIG IN COMPLETE, PRESSURE TEST FLOW LINES TO FLOWING WELL HEAD PRESSURE.
	DIVERT FLOW THROUGH FLOW LINE — BYPASS SEPARATOR.
10:00	TRIM FLOW THROUGH SEPARATOR - COMMENCE TEST.
16th JULY 1993	
	CONTINUE TO MONITER WELL
17th JULY 1993.	
	CONTINUE TO MONITER WELL.
08:00	1 x H.P. GAS, 1 x H.P. OIL, 1 x L.P. H_2O SAMPLES COLLECTED
09:00	1 x H.P. GAS, 1 x H.P. OIL, 1 x L.P. H_2O SAMPLES COLLECTED.
15:00	L.E.T. COMPLETE - DIVERT PRODUCTION FLOW DOWN LINE
15:20	SHUT WELL IN - FIT SNAB VALVE
15:27	PRESSURE TEST SNAB VALVE TO FULL SIWHP — WELL BACK ON LINE. 22 DEC
15:30	RIG IN 1.75" BLIND BOX FOR DRIFT RUN
15:50	RUN IN HOLE WITH 1.75" BLIND BOX.
16:18	TAG TIGHT SPOT @ 7723' K.B.
16:20	TAG OBSTRUCTION @ 7737' K.B.
16:24	PULL OUT OF HOLE

RECEIVED
DEPARTMENT OF MINERALS AND ENERGY
SECURITY
7129/2

ET 102

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127'-8555' K.B.	PAGE: 2 OF 3
WELL NAME: PELICAN #2 LWR	FORMATION : PATCHAWARRA	DATE: 17th JULY 1993
TEST TYPE : L.E.T. & B.H.P.S.		OPR : B. HULL

DATE/TIME	DESCRIPTION OF EVENTS
17th July 1993.	
16:43	@ SURFACE WITH TOOLSTRING & DEPRESSURE LUBRICATOR
17:15	COMPLETE RIG DOWN OF WELL TESTING EQUIPMENT. - SECURE LEASE.
18/7/93.	
14:45	PREPARE TWO B.H.P AND ONE B.H.T GAUGE AS PER PROGRAM.
15:07	PRESSURE LUBRICATOR
16:07	DEPRESSURE LUBRICATOR
17	PRESSURE LUBRICATOR AND R.I.H WITH B.H.P/B.H.T GAUGES.
	AT AMMENDED HANG DEPTH OF 7727' KB CONTINUE FLOWING WELL ON A 100% CHOKE OVER NIGHT.
19/7/93.	
08:00	SHUT WELL IN. COMMENCE 96 HR BUILD UP.
23/7/93	
08:00	P.O.O.H. WITH GAUGES
08:17	AT SURFACE & DEPRESSURE LUB.
09:17	PRESSURE LUB
10:17	DEPRESSURE LUB
10:25	PREPARE GAUGES FOR S.G.S.
10:44	PRESSURE LUB
10:59	DEPRESSURE LUB
11:04	PRESSURE LUB & R.I.H. WITH GAUGES
12:08	AT BOTTOM STOP OF 7727' K.B.
12:23	P.O.O.H WITH GAUGES
12:41	AT SURFACE & DEPRESSURE LUB.
12:46	PRESSURE LUB

ET 102

EXPERTEST PTY. LTD.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127' - 8555' K.B.	PAGE: 3 OF 3
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 23.7.93
TEST TYPE : L.E.T./ B.H.P.S.		OPR : P. BLACK

DATE/TIME	DESCRIPTION OF EVENTS
23.7.93	
13:01	DEPRESSURE LUB.
13:45	R.D.M.O., HAND WELL BACK TO PRODUCTION.

CHOKE : 100%
FTHP : 3975 kPa
Q_g : 27.653 E3 m^3/d
Q_c = 0.974 m^3/d
Q_w = 1.539 m^3/d

ET 102

U1330

EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 8127'- 8555' K.B.	PAGE: 1 OF 2
WELL NAME: PELICAN # 2 LWR.	FORMATION : PATCHAWARRA	DATE: 14TH JULY 1993
TEST TYPE : L.E.T. & B.H.P.S.		OPR : B. HULL.

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/~~KPa~~)	ANNULUS PRESSURE (PSI/~~KPa~~)	WELLHEAD TEMP (~~PF~~/°C)	CHOKE SIZE %	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/~~CM~~)	OIL (IN/~~CM~~)	OIL API GRAVITY @ 60°F	WATER (IN/~~CM~~)	
14TH	JULY 1993.														
14:15							ARRIVE ON LOCATION - WELL FLOWING @ 100% CHOKE.								
14:30							SPOT WELL TESTING EQUIPMENT.								
15TH	JULY 1993.														
07:30							RIG IN TEST FLANGES. TESTING EQUIPMENT FOR IN LINE TEST.								
09:30		560	0				RIG IN COMPLETE, PRESSURE TEST FLOW LINES TO F.W.H.P.								
09:45							DIVERT FLOW THROUGH FLOW LINE - BYPASS SEPARATOR.								
10:00	0	560	0		100		TRIM FLOW THROUGH SEPARATOR - COMMENCE TEST.								
12:00	2	567	↑	52	↑		1.00	560	62	113	5.5	4.0	INITIAL DIP.	1.5	
14:00	4	565	↑	51	↑		↑	559	63	113	5.75	4.0		1.75	
16:00	6	565	↑	50	↑		↑	557	64	117	6.75	4.75		2.0	
18:00	8	559	↑	48	↑		↑	551	63	108	7.25	5.00		2.25	
22:00	12	557	↑	47	↑		↑	550	63	101	8.75	5.50		3.25	
16TH	JULY 1993.		↑		↑		↑								
06:00	20	553	↑	47	↑		↑	544	66	104	12.75	6.75		6.00	
08:00	22	556	↑	48	↑		↑	550	64	104	13.25	7.00		6.25	
10:00	24	562	↑	48	↑		↑	553	60	104	14.25	7.75		6.50	
12:00	26	564	↑	49	↑		↑	556	62	104	15.25	8.00		7.25	
14:00	28	564	↑	50	↑		↑	567	62	108	16.00	8.25		7.75	
16:00	30	597	↓	50	↓		↓	591	52	108	16.75	8.25		8.50	
18:00	32	599	0	48	100		1.00	593	49	108	17.25	8.5		8.75	

ET 103

U1354

EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN #2 LWR
TEST TYPE : L.E.T. & B.H.P.S.

PERFORATIONS: 8127'-8555' K.B.
FORMATION : PATCHAWARRA

PAGE: 2 OF 2
DATE: 16th JULY 1993.
OPR : B. HULL

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/~~KPa~~)	ANNULUS PRESSURE (PSI/~~KPa~~)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	BS&W (%)	ORIFICE PLATE SIZE (IN)	STATIC PRESS. (PSIG)	DIFF PRESS. (IN WC)	GAS TEMP (°F)	TOTAL LIQUID (IN/~~CM~~)	OIL (IN/~~CM~~)	OIL API GRAVITY @ 60°F	WATER (IN/~~CM~~)
16th JULY	1993													
22:00	36	593	0	47	100		1.00	587	49	104	19.0	9.25		9.75
17th JULY 1993														
06:00	44	586	0	50				579	53	104	22.25	10.5		11.75
08:00	46	587		52				578	53	104	23.0	10.75	53.4	12.25
08:00								1x H.P. GAS, 1x H.P. OIL			1x L.P. H_2O SAMPLES COLLECTED			
09:00	47	586	0	52				577	54	104	23.5	11.0	47.6	12.5
09:00								1x H.P. GAS, 1x H.P. OIL, 1x L.P. H_2O SAMPLES COLLECTED						
1000	48	587	0	52				579	54	106	23.75	11		12.75
1200	50	585	0	53				579	55	113	24.5	11.5		13
1400	52	599	0	54				593	52	113	25	11.5		13.5
1500	53	600	0	53	100		1.00	592	52	115	25.5	11.75		13.75
1500							LET COMPLETE - DIVERT PRODUCTION FLOW DOWN LINE							
1520							SHUT WELL IN - FIT SWAB VALVE							
1527		600					PRESSURE TEST SWAB VALVE TO FSIWHP - WELL BACK ON LINE							
15:30							RIG IN 1.75" BLIND BOX FOR DRIFT RUN							
15:50							RUN IN HOLE WITH 1.75" BLIND BOX							
16:18							TAG TIGHT SPOT @ 7723' K.B.							
16:20							TAG OBSTRUCTION @ 7737' K.B.							
16:24							PULL OUT OF HOLE							
16:43							@ SURFACE WITH TOOLSTRING & DEPRESSURE LUBRICATOR.							
17:15							COMPLETE RIG DOWN OF TESTING EQUIPMENT - SECURE LEASE							

ET 103

011357

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN #2 RWR.
TEST TYPE : L.E.T & B.H.P.S.

PERFORATIONS: 8127'-8555' K.B.
FORMATION : PATCHAWARRA.

PAGE: 1 OF 6
DATE: 14th JULY 1993
OPR : B HULL

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION			RATIO
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE ~~(PSI~~/KPa)	ANNULUS PRESSURE ~~(PSI~~/KPa)	WELLHEAD TEMP ~~(°F~~°C)	CHOKE SIZE %	PRESSURE ~~(PSI~~/KPa)	TEMP ~~(°F~~°C)	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	GAS ~~MMSCF~~ $m^3 10^3$	OIL ~~BBLS~~ m^3	WATER ~~BBLS~~ m^3		G.L.R. $m^3/10^6 m^3$
14th	JULY	1993.													
14:15						ARRIVE ON LOCATION - WELL FLOWING @ 100% CHOKE T; 3840 Kpa C; 0 Kpa									
14:30						SPOT WELL TESTING EQUIPMENT.									
15th	JULY	1993.													
07:30						RIG IN TEST FLANGES & TESTING EQUIPMENT FOR IN-LINE TEST.									
09:30		3861	0			RIG IN COMPLETE - PRESSURE TEST FLOW LINES TO F.W.H.P.									
09:45						DIVERT FLOW THROUGH FLOW LINES - BYPASS SEPARATOR.									
10:00	0	3861	0		100	TRIM FLOW THROUGH SEPARATOR - COMMENCE TEST.									
12:00	2	3909	↑	52	↑	3861	45	28.41	0	0	2.367	0	0		0
14:00	4	3895		51		3854	45	28.61	0	.804	4.751	0	.067		28.1
16:00	6	3895		50		3840	47	28.60	2.412	.804	7.134	.201	.134		112.4
18:00	8	3854		48		3799	41	28.58	.804	.804	9.515	.268	.201		56.3
22:00	12	3840		47		3792	38	28.86	.804	1.602	14.325	.402	.468		83.3
16th	JULY	1993.													
06:00	20	3813		47		3751	40	29.21	1.002	2.202	24.061	.736	1.202		109.6
08:00	22	3833		48		3792	40	28.95	.804	.804	26.473	.803	1.269		55.5
10:00	24	3875		48		3813	40	28.13	2.412	.804	28.817	1.004	1.336		114.3
12:00	26	3888		49		3833	40	28.68	.804	2.412	31.207	1.071	1.537		112.1
14:00	28	3888		50		3840	41	28.53	.804	1.608	33.577	1.138	1.671		85.0
16:00	30	4116	↓	50	↓	4075	41	27.07	0	2.412	35.832	1.138	1.872		89.1
18:00	32	4130	0	48	100	4089	41	26.33	.804	.804	38.026	1.205	1.939		61.1

ET 104

00356

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN #2 LWR
TEST TYPE : L.E.T. & B.H.P.S.

PERFORATIONS: 8127' – 8555' K.B.
FORMATION : PATCHAWARRA

DATE: 16TH JULY 1993
OPR : B. HULL

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION			RATIO
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE 0/0	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3	G.O.R. $m^3/10^6 m^3$
16TH	JULY	1993												
22:00	36	4088	0	47	100	4097	40	26·34	1·206	1·602	42·416	1·472	2·206	106·6
17TH	JULY	1993												
06:00	44	4040		50		3992	40	27·17	1·002	1·602	51·472	1·740	2·740	95·8
08:00	46	4047		52		3985	40	27·14	·804	1·608	53·133	1·807	2·874	88·8
08:00						1x H.P. GAS, 1x H.P. OIL, 1x L.P. H_2O SAMPLES COLLECTED.								
09:00	47	4040		52		3978	40	27·37	1·608	1·608	54·873	1·874	2·941	117·5
09:00						1x H.P. GAS, 1x H.P. OIL, 1x L.P. H_2O SAMPLES COLLECTED.								
10:00	48	4047		52		3992	41	27·34	0	1·608	56·012	1·874	3·008	59
12:00	50	4034		53		3992	45	27·29	1·608	·804	58·286	2·008	3·075	88
14:00	52	4130		54		4089	45	26·91	0	1·608	60·529	2·008	3·209	60
15:00	53	4137	0	53	100	4081	46	26·80	1·608	1·608	61·645	2·075	3·276	120·0
15:00		(3975)				L.E.T. COMPLETE - DIVERT PRODUCTION FLOW DOWN LINE.								
15:20						SHUT WELL IN - FIT SWAB VALVE.								
15:27		4137.				PRESSURE TEST SWAB VALVE TO FULL SIWHP - WELL BACK ON LINE								
15:30						RIG IN 1·75" BLIND BOX FOR DRIFT RUN								
15:50						RUN IN HOLE WITH 1·75" BLIND BOX.								
16:18						TAG TIGHT SPOT @ 7723' K.B.								
16:20						TAG OBSTRUCTION @ 7737' K.B.								
16:24						PULL OUT OF HOLE.								
16:43						@ SURFACE WITH TOOLSTRING & DEPRESSURE LUBRICATOR.								
17:15						COMPLETE RIG DOWN OF WELL TESTING EQUIPMENT. – SECURE LEASE.								

ET 104

00357

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD | PERFORATIONS: 8127' - 8555' KB | PAGE: 3 OF 6

WELL NAME: PELICAN #2 LOWER | FORMATION : PATCHAWARRA | DATE: 17-7-93

TEST TYPE : B.H.P.S. | OPR : K. KEANE

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (. (Pa)	ANNULUS PRESSURE /KPa)	WELLHEAD TEMP , °C)	CHOKE SIZE %	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
18/7/93															
15:18		3900	∅	51	100	PRESSURE LUBRICATOR									
16:18		3860	∅	48	"	DEPRESSURE LUBRICATOR.									
17:18		3890	∅	48	"	PRESSURE LUBRICATOR AND R.I.H									
17:38		3870	∅	47	"	HANG GAUGES. @ AMENDED HANG DEPTH OF 7727' KB									
						CONTINUE FLOWING WELL OVERNIGHT ON A 100% CHOKE.									
19/7/93															
00:00		3860	∅	45	100										
08:00		3880	∅	47	"	FINAL FLOWING PRESSURE.									
08:00	0					SHUT WELL IN. COMMENCE 96 HR BUILD UP PERIOD									
08:05		5030	∅												
08:10		5340	∅												
08:15	.25	5440	∅												
08:30	.5	5580	∅												
08:45	.75	5740	∅												
09:00	1	5860	∅												
09:15	1.25	5900													
09:30	1.5	5930	∅												
09:45	1.75	5980	∅												
10:00	2	6020	∅												
10:15	2.25	6040	∅												

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U13358

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER.
TEST TYPE : B.H.P.S.

PERFORATIONS: 8127' - 8555' K.B.
FORMATION : PATCHAWARRA.

PAGE: 4 OF 6
DATE: 19/7/93
OPR : K. KEANE.

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
19/7/93.															
10:30	2.5	6070	ø												
10:45	2.75	6100	ø												
11:00	3	6140	ø												
11:15	3.25	6170	ø												
11:30	3.5	6200	ø												
11:45	3.75	6240	ø												
12:00	4.	6260	ø												
14:00	6	6470	ø												
18:00	10	6488	ø												
22:00	14	6632	—		READINGS FROM CHART.										
20/7/93															
02:00	18	6791	—		—— " ——										
06:00	22	6900	ø												
10:00	26	6915	ø												
14:00	30	6943	ø												
18:00	34	7000	ø												
22:00	38	7012	—		READINGS FROM CHART.										
21/7/93															
02:00	42	7032	—		—— " ——										
06:00	46	7060	ø												
10:00	50	7081	ø												

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011359

EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER.
TEST TYPE : B.H.P.S.

PERFORATIONS: 8127' - 8555' K.B
FORMATION : PATCHAWARRA

PAGE: 5 OF 6
DATE: 21/7/93
OPR : P. BLACK

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
21/7/93															
14:00	54	7110	Ø												
18:00	58	7123	Ø												
22:06	62	7136	—				READINGS FROM CHART.								
22/7/93															
02:00	66	7150	—				—— " ——								
06:00	70	7170	Ø												
10:00	74	7177	Ø												
14:00	78	7191	Ø												
18:00	82	7205	Ø												
22:00	86	7212	—				READINGS FROM CHART.								
23/7/93															
02:00	90	7219	—				—— " ——								
06:00	94	7250	Ø												
08:00	96	7250	Ø		P.O.O.H WITH GAUGES										
08:17		7250	0		AT SURFACE & DEPRESSURE LUB.										
09:17		7260	Ø		PRESSURE LUB										
10:17		7270	Ø		DEPRESSURE LUB (ALL CHARTS GOOD.)										
10:25		7280	Ø		PREPARE GAUGES FOR S.G.S.										
10:44		7280	Ø		PRESSURE LUB										
10:59		7280	Ø		DEPRESSURE LUB										
11:04		7280	Ø		PRESSURE LUB & R.I.H. WITH GAUGES.										

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EXPERTEST PTY. LTD.

TEST RESULTS

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER
TEST TYPE : B.H.P.S.

PERFORATIONS: 8127' - 8555' K.B.
FORMATION : PATCHAWARRA

DATE: 23 · 7 · 93
OPR : P. BLACK

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE / TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD $m^3 10^3/D$	OIL BPD m^3/D	WATER BPD m^3/D	GAS MMSCF $m^3 10^3$	OIL BBLS m^3	WATER BBLS m^3		
23 · 7 · 93															
12:08		7280	Ø		AT BOTTOM STOP OF 7727' K.B.										
12:23		7280	Ø		P.O.O.H WITH GAUGES										
12:41		7280	Ø		AT SURFACE & DEPRESSURE LUB										
12:46		7280	Ø		PRESSURE LUB										
13:01		7280	Ø		DEPRESSURE LUB										
13:45					R.D.M.O., HAND WELL BACK TO PRODUCTION.										

ET 104

00361

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 8127' - 8555' K.B.	PAGE: 1 OF 2
WELL NAME: PELICAN # 2 LWR.	FORMATION : PATCHAWARRA.	DATE: 15TH JULY 1993
TEST TYPE : L.E.T. & B.H.P.S.		OPR : B. HULL.

ORIFICE METER TYPE: DANIELS SNR.	STATIC PRESSURE RANGE : 0-1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .9185
METER RUN SIZE : 3.068"	DIFFERENTIAL PRESS. RANGE: 0-200 IN WC	FG $\sqrt{(1/SG)}$ = 1.0434
SEPARATOR NO : 459.	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU × FG) = 25.0421

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE %	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C ($C = C_1 \times C_2$)	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2			(MMSCFD)	($m^3 10^3/D$)
15TH JULY 1993.															
10:00	0	100				1.00		COMMENCE TEST.							
12:00	2		576	62	113		188.812	203.541	.9526	1.0936	1.0007	212.199	5313.930	1.01	28.91
14:00	4		574	63	113		190.163		.9526	1.0934	1.0007	212.163	5313.037	1.01	28.61
16:00	6		572	64	117		191.332		.9493	1.0903	1.0007	210.833	5279.720	1.01	28.60
18:00	8		566	63	168		188.833		.9568	1.0953	1.0007	213.468	5345.717	1.01	28.58
22:00	12	100	565	63	101		188.666		.9627	1.1003	1.0007	215.776	5403.510	1.02	28.86
16TH JULY 1993.															
06:00	20	100	559	66	104		192.078		.9602	1.0967	1.0007	214.514	5371.895	1.03	29.21
08:00	22		565	64	104		190.157		.9602	1.0980	1.0007	214.758	5378.007	1.02	28.95
10:00	24		568	60	104		184.607		.9602	1.0986	1.0006	214.873	5380.889	.99	28.13
12:00	26		571	62	104		188.154		.9602	1.0993	1.0007	215.003	5384.153	1.01	28.68
14:00	28		572	62	108		188.318		.9568	1.0965	1.0007	213.706	5351.663	1.01	28.53
16:00	30		606	52	108		177.516		.9568	1.1036	1.0005	215.063	5385.663	.96	27.07
18:00	32		608	49	108		172.604		.9568	1.1041	1.0005	215.139	5387.554	.93	26.33
22:00	36		602	49	104		171.749		.9602	1.1060	1.0005	216.286	5416.282	.93	26.34
17TH JULY 1993.															
06:00	44		594	53	104		177.431		.9602	1.1043	1.0005	215.953	5407.941	.96	27.17
08:00	46	100	593	53	104	1.00	177.282	203.541	.9602	1.1040	1.0005	215.910	5406.873	.96	27.14

ET 106

UI1362

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 8127' - 8555' K.B.	PAGE: 2 OF 2
WELL NAME: PELICAN # 2 LWR.	FORMATION : PATCHAWARRA	DATE: 17TH JULY 1993
TEST TYPE : L.E.T. & B.H.P.S.		OPR : B. HULL

ORIFICE METER TYPE: DANIELS SNR	STATIC PRESSURE RANGE : 0 - 1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .9185
METER RUN SIZE : 3.068	DIFFERENTIAL PRESS. RANGE: 0 - 200 IN WC	FG $\sqrt{(1/SG)}$ = 1.0434
SEPARATOR NO : 459	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C_2 (FU x FG) = 25.0421

DATE / TIME	FLOW TIME (HOURS)	CHOKE SIZE %	STATIC PRESS P_F (PSIA)	DIFF PRESS H_W (IN WC)	GAS FLOW TEMP (°F)	ORIF. PLATE SIZE (IN)	$\sqrt{(P_F \times H_W)}$	$C_1 = F_B \times F_{TF} \times F_{PV} \times Y_2$				C_1	C	GAS FLOW RATE $Q = \sqrt{(P_F \times H_W)} \times C$	
								F_B	F_{TF}	F_{PV}	Y_2		(C = $C_1 \times C_2$)	(MMSCFD)	($m^3 10^3$/D)
17th JULY 1993.															
09:00	47	100	592	54	104	1.00	178.795	203.541	.9602	1.1038	1.0005	215.870	5405.866	.96	27.37
10:00	48	"	594	54	106		179.098		.9585	1.1027	1.0006	215.261	5390.601	.96	27.34
12:00	50	"	594	55	113		180.748		.9526	1.0974	1.0006	212.912	5331.764	.96	27.29
14:00	52	"	608	52	113		177.809		.9526	1.1002	1.0006	213.448	5345.206	.95	26.91
15:00	53	100	607	52	115	1.00	177.662	203.541	.9509	1.0985	1.0005	212.748	5327.675	.94	26.80
								L.E.T.	COMPLETE.				Qg =	0.981	27.653

ET 106

003693

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN # 2 LWR.
TEST TYPE : L.E.T. & B.H.P.S.

PERFORATIONS: 8127'- 8555' K.B.
FORMATION : PATCHAWARRA.

DATE: 15th JULY 1993.
OPR : B. HULL.

TANK NUMBER	TANK CAPACITY	TANK SCALE	OIL API GRAVITY = @ 60°F
#1 = 58	#1 = 56.6 ~~bbls~~/m³	#1 = .267 m³/inch ~~bbls/in~~ ~~m³/cm~~	
#2 =	#2 = bbls/m³	#2 = bbls/in - m³/cm	

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/~~CM~~)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/~~CM~~)	TANK PRODUCTION (~~BBLS~~/m³)	FLOW RATE (~~BPD~~/m³D)	CUMULATIVE PRODUCTION (~~BBLS~~/m³)	TANK DIP (IN/~~CM~~)	TANK PRODUCTION (~~BBLS~~/m³)	FLOW RATE (~~BPD~~/m³D)	CUMULATIVE PRODUCTION (~~BBLS~~/m³)
15th JULY 1993.											
10:00	0		5.50	4.0	OPENING DIP.			1.50	COMMENCE TEST.		
12:00	2		5.50	4.0	0	0	0	1.50	0	0	0
14:00	4		5.75	4.0	0	0	0	1.75	.067	.804	.067
16:00	6		6.75	4.75	.201	2.412	.201	2.00	.067	.804	.134
18:00	8		7.25	5.00	.067	.804	.268	2.25	.067	.804	.201
22:00	12		8.75	5.50	.134	.804	.402	3.25	.267	1.602	.468
16th JULY 1993.											
06:00	20		12.75	6.75	.334	1.002	.736	6.00	.734	2.202	1.202
08:00	22		13.25	7.00	.067	.804	.803	6.25	.067	.804	1.269
10:00	24		14.25	7.75	.201	2.412	1.004	6.50	.067	.804	1.336
12:00	26		15.25	8.00	.067	.804	1.071	7.25	.201	2.412	1.537
14:00	28		16.00	8.25	.067	.804	1.138	7.75	.134	1.608	1.671
16:00	30		16.75	8.25	0	0	1.138	8.50	.201	2.412	1.872
18:00	32		17.25	8.5	.067	.804	1.205	8.75	.067	.804	1.939
22:00	36		19.0	9.25	.201	1.206	1.406	9.75	.267	1.602	2.206
17th JULY 1993.											
06:00	44		22.25	10.5	.334	1.002	1.740	11.75	.534	1.602	2.740
08:00	46		23.0	10.75	.067	.804	1.807	12.25	.134	1.608	2.874
09:00	47		23.5	11.0	.067	1.608	1.874	12.50	.067	1.608	2.941
10:00	48	1	23.75	11	—	—	1.874	12.75	.067	1.608	3.008

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN #2 LOWER
TEST TYPE : L.E.T. / B.H.P.

PERFORATIONS: 8127' - 8555' K.B.
FORMATION : PATCHAWARRA

DATE: 17/7/93
OPR : B. HULL

TANK NUMBER		TANK CAPACITY		TANK SCALE		OIL API GRAVITY = @ 60°F
	#1 = 58		#1 = 56.6 bbls/m³		#1 = .267 m³/IN bbls/in - m³/cm	
	#2 =		#2 = bbls/m³		#2 = bbls/in - m³/cm	

DATE / TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN/CM)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN/CM)	TANK PRODUCTION (BBLS/m³)	FLOW RATE (BPD/m³D)	CUMULATIVE PRODUCTION (BBLS/m³)	TANK DIP (IN/CM)	TANK PRODUCTION (BBLS/m³)	FLOW RATE (BPD/m³D)	CUMULATIVE PRODUCTION (BBLS/m³)
17/7/93			23.75	11			1.874	12.75			3.008
1200	50	1	24.5	11.5	.134	1.608	2.008	13	.067	.804	3.075
1400	52	"	25	11.5	—	—	2.008	13.5	.134	1.608	3.209
1500	53	1	25.5	11.75	.067	1.608	2.075	13.75	.067	1.608	3.276
51 HRS	TOTAL				L.E.T. COMPLETE.						
			Qc:	0.974 m³/d			Qw:	1.539 m³/d			

ET 105

00365

EXPERTEST PTY. LTD.

SAMPLING DATA

CUSTOMER : SANTOS LTD.
WELL NAME: PELICAN #2 LWR
TEST TYPE : L.E.T. & B.H.P.S.

PERFORATIONS: 8127' - 8555' K.B.
FORMATION : PATCHAWARRA

PAGE: 2 OF 2
DATE: 17th JULY 1993.
OPR : B. HULL

SAMPLE #

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
09:00	SPE 261	500	H.P. GAS	10	EVACUATED	500	—	GAS METER RUN	3978	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4040	52	100		3978	40	1.1038	.9185	47.6	27.37	1.608	1.608	117.5	/	/

REMARKS:

SAMPLE #

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
09:00	SPE 281	500	H.P. OIL	15	BRINE	475	25	OIL SIGHT GLASS	3978	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4040	52	100		3978	40	1.1038	.9185	47.6	27.37	1.608	1.608	117.5	/	/

REMARKS:

SAMPLE #

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
09:00	#2	500	L.P. H_2O	10	/	/	/	WATER DUMP LINE	3978	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE %	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4040	52	100		3978	40	1.1038	.9185	47.6	27.37	1.608	1.608	117.5	/	/

REMARKS:

ET 107

03500

EXPERTEST PTY. LTD.

SAMPLING DATA

CUSTOMER : SANTOS LTD. | PERFORATIONS: 8127' - 8555' K.B. | PAGE: 1 OF 2

WELL NAME: PELICAN # 2 LWR | FORMATION : PATCHAWARRA | DATE: 17th JULY 1993

TEST TYPE : L.E.T. & B.H.P.S. | OPR : B. HULL

SAMPLE

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
08:00	SPE 165	500	H.P. GAS	10	EVACUATED	500	—	METER RUN	3985	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE o/o	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R. $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4047	52	100		3985	40	1.1040	.9185	53.4	27.14	.804	1.608	88.8	/	/

REMARKS:

SAMPLE

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
08:00	SPE 046	500	H.P. OIL	15	BRINE	475	25	OIL SIGHT GLASS	3985	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE o/o	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R. $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4047	52	100		3985	40	1.1040	.9185	53.4	27.14	.804	1.608	88.8	/	/

REMARKS:

SAMPLE

TIME SAMPLE COLLECTED	CYLINDER SERIAL NO.	CYLINDER VOLUME (CC)	SAMPLE TYPE	SAMPLING DURATION (MINS)	CYLINDER INITIALLY FILLED WITH	OUTAGE (CC)	VOLUME OF FILL REMAINING WITH SAMPLE (CC)	SAMPLE POINT	SAMPLE PRESS (~~PSI~~/KPa)	SAMPLE TEMP (~~°F~~/°C)	AMBIENT PRESS (PSI/KPa)	AMBIENT TEMP (°F/°C)
08:00	#1	500	L.P. H_2O	10	/	/	/	WATER DUMPLINE	3985	40	/	/

WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS	BOTTOM HOLE	
TUBING PRESS (~~PSI~~/KPa)	WELLHEAD TEMP (~~°F~~/°C)	CHOKE SIZE o/o	BS&W (%)	SEPARATOR PRESS (~~PSI~~/KPa)	SEPARATOR TEMP (~~°F~~/°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS ~~MMSCFD~~ $m^3 10^3/D$	OIL ~~BPD~~ m^3/D	WATER ~~BPD~~ m^3/D	L.G.R. $m^3 10^6/m^3$	PRESSURE (PSI/KPa)	TEMPERATURE (°F/°C)
4047	52	100		3985	40	1.1040	.9185	53.4	27.14	.804	1.608	88.8.	/	/

REMARKS:

ET 107

00367

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD
WELL NAME: PELICAN # 2 LOWER
TEST TYPE : B.H.P.S
PERFORATIONS: 8127' - 8555' KB.
FORMATION : PATCHAWARRA
PAGE: 1 OF 2
DATE: 18/7/93
OPR : K. KEANE.

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE
ELEMENT SERIAL NO.	56429	56432	63256
ELEMENT RANGE	3000 PSI	3000 PSI	95°-471° F
RECORDING SECTION SERIAL NO.	14628	70544	30929
DATE OF CALIBRATION: @ 290°F	6.1.93	6.1.93.	
CLOCK SERIAL NO.	# 7	3604	F 15306
CLOCK RANGE	120 HR	120 HR	120 HR.
LEAD SCREW TYPE	15 TLS	15 TLS	15 TLS
ENGAGE STYLUS DATE 18/7/93 TIME	15:05	15:05	15:05
DISENGAGE STYLUS DATE 23.7.93 TIME	10:27	10:27	10:27

RUN DATA		TIME (HOURS)	TUBING PRESSURE (~~PSI~~/KPa)	ANNULUS PRESSURE (~~PSI~~/KPa)
DATE	: 18/7/93			
PRESSURE LUBRICATOR	:	15:18	3900	ø
RUN IN HOLE	:	17:18	3890	ø
ON DEPTH AT	: 7727' FT/~~M~~	17:38	3870	ø
DATE	: 23.7.93			
PULL OUT OF HOLE	:	08:00	7250	ø
AT SURFACE	:	08:17	7250	ø
DEPRESSURE LUBRICATOR	:	10:17	7270	ø
MAXIMUM BHT AT	FT/M = °F/C			
N.B. ALL DEPTHS ARE MEASURED FROM K.B.				

DATE	TIME	REMARKS
18/7/93.		
		AMENDED HANG DEPTH OF 7727' KB.

ET 108

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 01 FIELD PELICAN		WELL 2L	
EFF DEPTH		WELL STAT		TOOL HUNG	7721'KB
CASING	-	CASING PRESS		ON BOTTOM	1738 18/7
LINER	-	TUBING PRESS		OFF BOTTOM	0800 23/7
DATE	930719	ELEMENT RANGE	0 - 3093	ZERO POINT	
ELEVATION		ZONE		SHUT-IN	0800 19/7
MAX TEMP	239	PICK-UP		ON-PROD	
PERF	-	CAL SER NO.	56432	MPP	
TUBING	-				
UNITS	ENGLISH	PURPOSE	LET/BHP		

SURVEY DATA

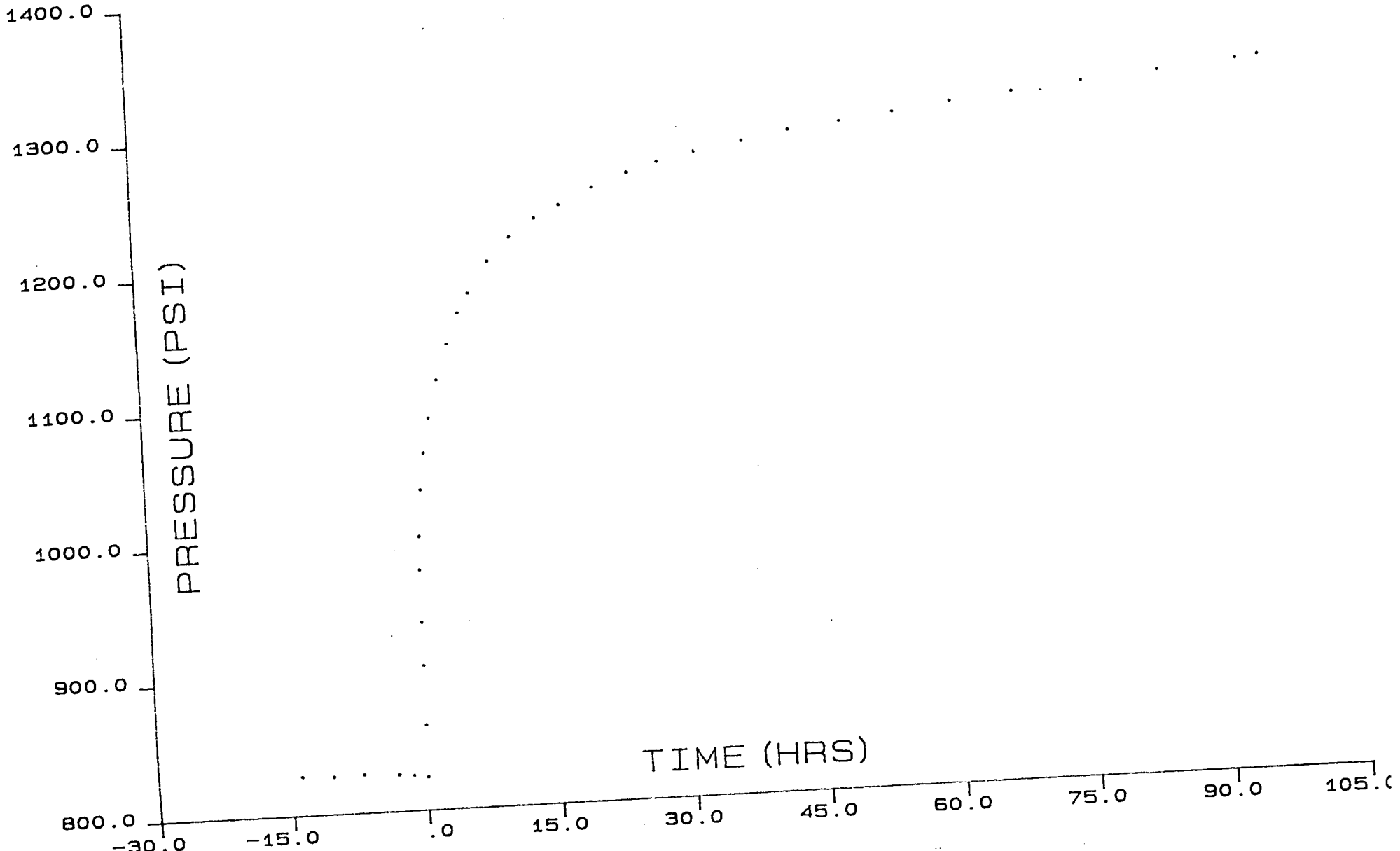
CO. SANTOS — RUN 01 FIELD PELICAN — WELL 2L

	TIME	P-T	DP-DT	DTIME		TIME	P-T	DP-DT	DTIME
SHUT WELL IN	8:00	824.3	824.3	0		9:21	1264.3	1264.3	25.4
	8:03	862.5	862.5	.1		12:47	1271.3	1271.3	28.8
	8:05	906.5	906.5	.1		16:57	1277.6	1277.6	33.0
	8:07	938.8	938.8	.1		22:19	1283.5	1283.5	38.3
	8:10	977.9	977.9	.2		3:31	1289.7	1289.7	43.5
	8:18	1002.8	1002.8	.3		9:16	1294.7	1294.7	49.3
	8:40	1037.6	1037.6	.7		15:12	1298.9	1298.9	55.2
	9:13	1064.6	1064.6	1.2		21:39	1305.1	1305.1	61.7
	9:58	1090.0	1090.0	2.0		4:35	1309.7	1309.7	68.6
	11:05	1117.9	1117.9	3.1		12:19	1315.8	1315.8	76.3
	12:23	1144.2	1144.2	4.4		20:51	1321.4	1321.4	84.8
	13:48	1166.8	1166.8	5.8		5:33	1327.0	1327.0	93.6
	15:03	1180.8	1180.8	7.1	END BUILD UP	8:00	1329.4	1329.4	96.0
	17:23	1204.1	1204.1	9.4		6:05	828.2	828.2	-14.1
	19:57	1221.0	1221.0	11.9	-	2:29	827.3	827.3	-10.5
	22:51	1233.8	1233.8	14.9		0:54	828.1	828.1	-7.1
	1:38	1242.9	1242.9	17.6		4:47	826.4	826.4	-3.2
	5:24	1254.6	1254.6	21.4		6:25	825.6	825.6	-1.6

LUBRICATOR DWT; IN: 566 psi / OUT: 1054 psi
LUBRICATOR AMERADA; IN: 554 psi / OUT: 1047 psi
ELEMENT #56429 WAS ALSO RUN.

PELICAN #2L LET/BHP JULY 1993

ELEMENT #56432 @ 7721'KB



EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD	PERFORATIONS: 8127' – 8555' K.B.	PAGE: 2 OF 2
WELL NAME: PELICAN #2 LOWER	FORMATION : PATCHAWARRA	DATE: 23·7·93
TEST TYPE : S.G.S.		OPR : P. BLACK

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	56429	56432	63256	DATE : 23·7·93			
ELEMENT RANGE	3000 P.S.I	3000 P.S.I.	95°–171°F	PRESSURE LUBRICATOR :	10:44	7280	Ø
RECORDING SECTION SERIAL NO.	14628	70544	30929	RUN IN HOLE :	11:04	"	"
DATE OF CALIBRATION: @ 290°F	6·1·93	6·1·93		ON DEPTH AT : 7727' FT/M	12:08	"	"
CLOCK SERIAL NO.	2297	2509	2431	DATE : 23·7·93			
CLOCK RANGE	3 HRS	3 HRS	3 HRS	PULL OUT OF HOLE :	12:23	7280	Ø
LEAD SCREW TYPE	15 TLS	15 TLS	15 TLS	AT SURFACE :	12:41	"	"
				DEPRESSURE LUBRICATOR :	13:01	"	"
ENGAGE STYLUS DATE 23·7·93 TIME	10:38	10:38	10:38	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS DATE 23·7·93 TIME	13:09	13:09	13:09	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
		Gradient survey conducted at the conclusion of the PBU survey.

ET 108

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EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Friday, 23rd July 1993.

STATIC PRESSURE GRADIENT REPORT

CLIENT	LOCATION	FORMATION
SANTOS LTD.	PELICAN #2 L	PATCHAWARRA

PRESSURE ELEMENT DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	56429	3000	6/ 1/93
Bottom	56432	3000	6/ 1/93

WELL DATA

PARAMETER	VALUE
DWT In	1056 PSIG
DWT Out	1056 PSIG
Max BHT	N/A

	TOP ELEMENT			BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.6800	1046.8	-	0.6815	1044.8	-
1000	0.7050	1085.4	0.039	0.7070	1084.4	0.040
2000	0.7300	1124.0	0.039	0.7320	1123.1	0.039
3000	0.7540	1161.0	0.037	0.7560	1160.4	0.037
4000	0.7780	1198.1	0.037	0.7810	1199.1	0.039
5000	0.8020	1235.2	0.037	0.8045	1235.6	0.036
6000	0.8260	1272.2	0.037	0.8250	1267.4	0.032
7000	0.8490	1307.7	0.036	0.8515	1308.5	0.041
7500	0.8600	1324.7	0.034	0.8630	1326.3	0.036
7727	0.8670	1335.6	0.048	0.8685	1334.8	0.038
LUB.	0.6840	1053.0	-	0.6850	1050.2	-

GENERAL REMARKS

RAN TEMP ELEMENT #63256,RANGE 95-471 F,RECORDING SECTION #30929

EXPERTEST PTY. LTD.

STATIC PRESSURE GRADIENT SURVEY

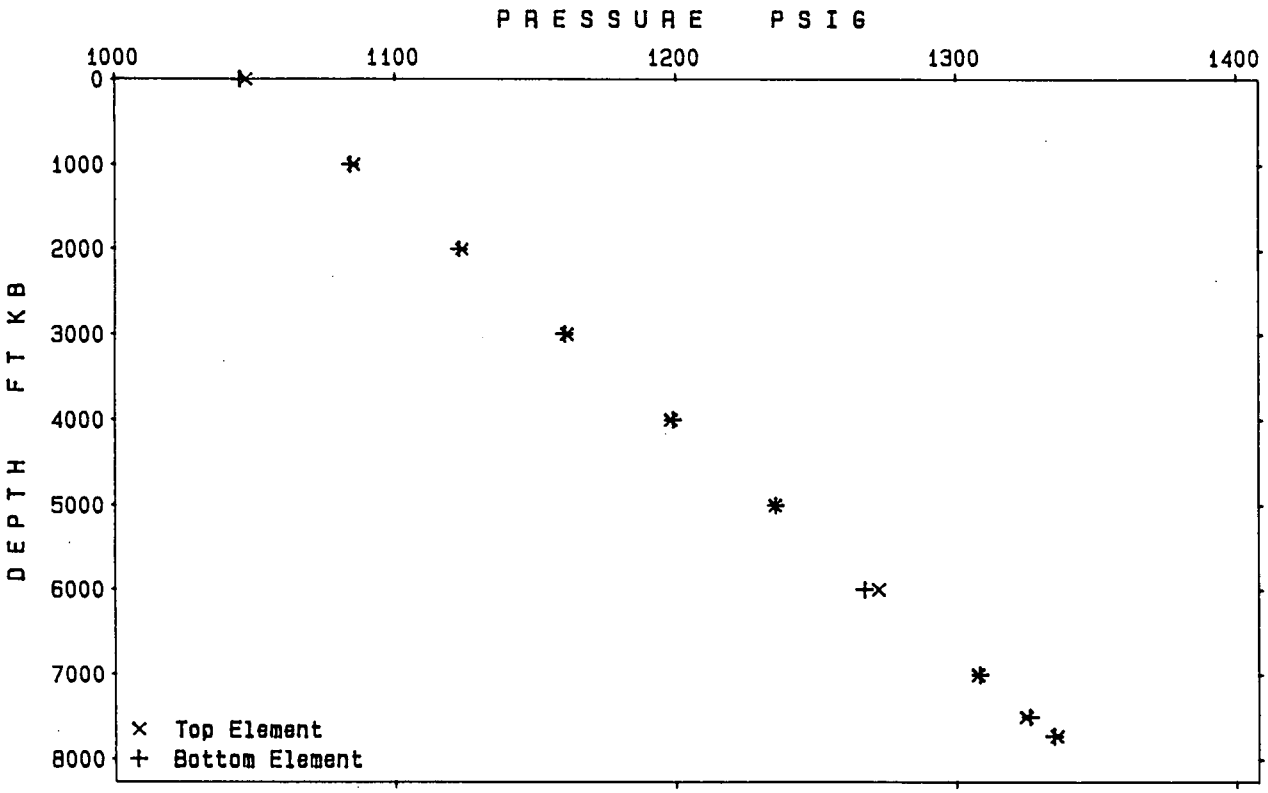
Location: PELICAN #2 L	Tested: 23rd July 1993.
Formation: PATCHAWARRA	Client: SANTOS LTD.

PRESSURE ELEMENT DATA

Position	Serial No	Range	Calibrated
Top	56429	3000	6/ 1/93
Bottom	56432	3000	6/ 1/93

WELL DATA

DWT In	1056 PSIG
DWT Out	1056 PSIG
Max BHT	N/A



Depth FT KB	TOP ELEMENT Deflection Inches	TOP ELEMENT Pressure PSIG	TOP ELEMENT Gradient PSI/FT	BOTTOM ELEMENT Deflection Inches	BOTTOM ELEMENT Pressure PSIG	BOTTOM ELEMENT Gradient PSI/FT
LUB.	0.6800	1046.8	-	0.6815	1044.8	-
1000	0.7050	1085.4	0.039	0.7070	1084.4	0.040
2000	0.7300	1124.0	0.039	0.7320	1123.1	0.039
3000	0.7540	1161.0	0.037	0.7560	1160.4	0.037
4000	0.7780	1198.1	0.037	0.7810	1199.1	0.039
5000	0.8020	1235.2	0.037	0.8045	1235.6	0.036
6000	0.8260	1272.2	0.037	0.8250	1267.4	0.032
7000	0.8490	1307.7	0.036	0.8515	1308.5	0.041
7500	0.8600	1324.7	0.034	0.8630	1326.3	0.036
7727	0.8670	1335.6	0.048	0.8685	1334.8	0.038
LUB.	0.6840	1053.0	-	0.6850	1050.2	-

GENERAL REMARKS

RAN TEMP ELEMENT #63256, RANGE 95-471 F, RECORDING SECTION #30929