

Open File Envelope

NUMBER 7115/2

PEL 5 AND PEL 6, MURTA BLOCK

EROMANGA AND COOPER BASINS

THURAKINNA 3

TEST REPORTS

Submitted by

Santos Ltd
1994

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MINES AND ENERGY
SOUTH AUSTRALIA



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ENVELOPE 7115/2

TENEMENT: PEL 5 and PEL 6, Murta Block; Eromanga and Cooper Basins

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

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	MESA NO.
REPORTS:	
Kappler, S. and Pasznicki, G., 1990. Summary and results of the pre-frac single rate gas production test and 81.8 hour reservoir pressure buildup survey of the Patchawarra Formation lower gas reservoir perforated interval 7720-7738 feet KB, conducted over the period 3-11/9/90 (Santos Ltd and Oilserv Australia Ltd).	7115/2 R 1 Pgs 3-22
Hilder, C., Larkin, R. and James, H., 1991. Field maintenance contractor's electronic bottomhole pressure/temperature [BHP/BHT] measurements for the post-frac modified isochronal test, plus buildup and static gradient surveys, of the Patchawarra Formation upper gas reservoir perforated interval 7484-7720 feet KB, conducted over the period 4-19/1/91 (Expertest Pty Ltd).	7115/2 R 2 Pgs 23-157
Santos Ltd, 1991. Operator's wellhead pressure readings [field tabulations] for the above modified isochronal test.	7115/2 R 3 Pgs 158-168
Hilder, C., Larkin, R. and Kurasiak, I., 1991. Field maintenance contractor's final wellhead data tabulations and calculated flow rates for the above modified isochronal test (Expertest Pty Ltd).	7115/2 R 4 Pgs 169-221
Poitras, D., 1991. Field maintenance contractor's results of the 108 hour reservoir pressure buildup, flowing and static pressure gradient surveys plus a 2-rate liquids evaluation test [LET] of the Patchawarra producing zone, conducted over the period 13-23/6/91 (Expertest Pty Ltd).	7115/2 R 5 Pgs 222-241
Santos Ltd, 1991. Reperforation programme for 2 non-contributing Patchawarra upper gas reservoir sands located between 7484 and 7504 feet depth KB (4/7/91).	7115/2 R 6 Pgs 242-257
Hay, N., 1991. Field maintenance contractor's results of the 4-rate LET and flowing pressure gradient survey of the above reperforated Patchawarra upper reservoir producing zone, conducted over the period 7-12/12/91 (Expertest Pty Ltd).	7115/2 R 7 Pgs 258-287
Downie, M.L., 1992. Reservoir engineer's interpretation of the single rate and modified isochronal tests of the entire Patchawarra Formation gas reservoir perforated interval 7484-7738 feet, conducted over the periods 3-11/9/90 and 4-19/1/91 (Santos Ltd Petroleum Development Department report no. RE: 020/92, July 1992).	7115/2 R 8 Pgs 288-298
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REPORTS:	Cilento, A. and Black, P., 1992. Field maintenance contractor's results of the buildup, flowing BHP and static pressure gradient surveys of the Patchawarra producing zone, conducted over the period 3-9/7/92 (Expertest Pty Ltd).	7115/2 R 9 Pgs 333-344
	Potter, B., 1993. Field maintenance contractor's results of the static pressure gradient survey of the Patchawarra producing zone performed on 7/8/93 (Expertest Pty Ltd).	7115/2 R 10 Pgs 345-348
	Wood, G.R., 1993. Brief palynological report no. 1993/40 (Santos Ltd).	7115/2 R 11 Pg. 349
	Potter, B., 1994. Field maintenance contractor's results of the flowing bottomhole pressure, 96 hour buildup and static pressure gradient surveys of the Patchawarra producing zone, conducted over the period 24/3-13/4/94 (Expertest Pty Ltd).	7115/2 R 12 Pgs 350-361

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Thurakinna #3
Summary Of Pre Frac Single Rate Test & Build-Up Survey
3rd - 11th September 1990

Single Rate Test

3rd - 7th September 1990

04/09/90: Well brought on line @ 0730 hrs.
 Trimmed flow through separator @ 1000 hrs.
 Choke set on 22/64" @ 1215 hrs.
 Tested well on 22/64" for 83.75 hrs (1.25 hrs of choke adjustments
 6/9/91 omitted from averages).

F.T.H.P. (Final)	=	16127	kPa
Separator Pressure	=	2420	kPa
Separator Temperature	=	31	°C
Gas Flow Rate	=	200.666	E ³ m ³ /d
Condensate Flow Rate	=	4.240	m ³ /d
Water Flow Rate	=	3.185	m ³ /d

07/09/90: Shut well in @ 2400 hrs.

Pressure @ 2400 hrs @ 7690' KB = 20621 kPa
 F.B.H.T. = 124.1°C

Buildup Survey

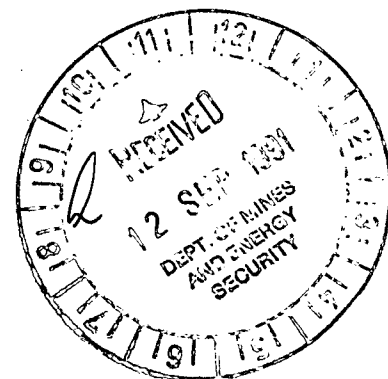
7th - 11th September 1990

07/09/90: Shut well in @ 2400 hrs for 81.8 hrs buildup
 11/09/90: Pressure @ 0948 hrs after 81.8 hrs buildup @ 7690' KB = 23832 kPa
 S.I.B.H.T. = 123.1°C

Static Gradient Survey

Mid Point of Perforations = 7729' KB

11/09/90: Ran static pressure gradient survey as pulling out of hole.
 Pressure @ MPP = 23852 kPa



WELL: THURAKINA #3		SANTOS LTD.														DATE: 3/9/90			
TYPE OF TEST: SINGLE RATE		WELL TEST DATA SHEET														PAGE No: 1/1			
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING KPA	TUBING KPA	TEMP. °C	CHOKE SIZE INS.	B.S.W. %	PI KPA	HW KPA	TEMP. °C	ORIFICE SIZE INS.	TANK DIP LITRE	TANK PROD M ³	API GRAVITY °BÉ	TANK DIP LITRE	TANK PROD M ³	GAS FLOW RATE M ³ /D	OIL FLOW RATE M ³ /DAY	WATER FLOW RATE M ³ /DAY	TOTAL LIQUID FLOW RATE M ³ /DAY	L.G.R. M ³ /M ³
3/9/90																			
0800																			
1100																			
1200																			
1402																			
1433																			
1540																			
1616																			
1639																			
1730																			
4/9/90																			
0710	0	20009																	
0715																			
0730																			
0740																			
0750																			
0800	0	14976																	

OPERATOR: S. KUNAC & W. NASILOWSKI

WELL: THURAKINA #3						SANTOS LTD.										DATE: 4/9/90			
TYPE OF TEST: SINGLE RATE						WELL TEST DATA SHEET										PAGE No: 2 of 2			
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING KPA	TUBING KPA	TEMP. °C	CHOKE SIZE INS.	B.S.W. %	PI KPA	HW KPA	TEMP. °C	ORIFICE SIZE INS.	TANK DIP LITRE	TANK PROD M ³	API GRAVITY °60 °F	TANK DIP LITRE	TANK PROD M ³	GAS FLOW RATE M ³ /D	OIL FLOW RATE M ³ /DAY	WATER FLOW RATE M ³ /DAY	TOTAL LIQUID FLOW RATE M ³ /DAY	L.G.R. M ³ /M ³
4/9/90																			
0810																			
0830	4300	13425																	
0840																			
0900	7600	12480																	CO ₂ = 16 P.P.M
0910																			H ₂ S = 8 P.P.M
1000	0	12597																	S.G. = .796
1015																			SALINITY
1130																			9620 P.P.M
1200	0	15449	50	24/64		2241	19.92	19	2.750	1195	0.725	45.5	470	0.470	234.55	8.700	5.640	14.340	0.061
1215																			
1400	0	16286	53	22/64		2551	14.44	27	2.750	1960	0.455		780	0.310	210.01	5.460	3.720	9.180	0.044
1600	0	16314	55.5	22/64		2689	13.94	30.5	2.750	2640	0.350		1110	0.330	210.57	4.200	3.960	8.160	0.039
1800	0	16307	57	22/64		2482	14.69	22.5	2.750	3350	0.390		1430	0.320	210.92	4.680	3.840	8.520	0.040
2200	0	16314	60.5	22/64		2413	14.19	28	2.750	4900	0.880	43.5	2100	0.670	200.31	5.280	4.020	9.300	0.046
2200																			
5/9/90																			
0200	0	16314	62	22/64		2413	13.94	30	2.750	6160	0.710		2650	0.550	197.66	4.260	3.300	7.560	0.038
0600	0	16314	63.5	22/64		2413	13.94	32	2.750	9460	0.760		9700	0.700	196.79	4.560	4.200	8.760	0.045
1000	0	16334	65	22/64		2413	13.94	30	2.750	2700	0.720		1220	0.520	197.66	4.320	3.120	7.440	0.038

S. KUNAC & W. NASILOWSKI

WELL: THURAKINA #3

TYPE OF TEST: SINGLE RATE



SANTOS LTD.

WELL TEST DATA SHEET

DATE: 7-9-90

PAGE No: 4 of 4

DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING KPA	TUBING KPA	TEMP. °C	CHOKE SIZE INS.	B.S.W. %	PI KPA	HW KPA	TEMP. °C	ORIFICE SIZE INS.	TANK DIP LITRE	TANK PROD M3	API GRAVITY 280 °F	TANK DIP LITRE	TANK PROD M3	GAS FLOW RATE M3/D	OIL FLOW RATE M3/DAY	WATER FLOW RATE M3/DAY	TOTAL LIQUID FLOW RATE M3/DAY	G.O.R. M3/M3
0200	0	16217	71	22/64		2379	13.94	31	2.75	7300	0.74		3290	0.59	196.1	4.44	3.54	7.98	0.041
0600	0	16203	71	22/64		2310	13.70	31	2.75	1960	0.70		800	0.42	191.4	4.20	2.52	6.72	0.035
0640	-	-	-	22/64		Run In Hole				E/Line									
0745	-	-	-	22/64		Hanging @ 7690' KB													
0800	0	16265	71	22/64		2344	13.94	31	2.75	2430	0.37		900	0.10	194.6	4.44	1.20	5.64	0.029
1000	0	16272	72	22/64		2379	14.19	31	2.75	1140	0.35		120	0.31	197.9	4.20	3.72	7.92	0.040
1200	0	16245	72.5	22/64		2379	14.19	31.5	2.75	1460	0.39		700	0.27	197.6	4.68	3.24	7.92	0.040
1400	0	16210	73	22/64		2379	14.19	32	2.75	2150			1025	0.325	197.4	4.38	3.90	8.28	0.042
* 1600	0	16162	73	22/64		2379	14.19	33	2.75	2750	0.325		1300	0.275	197.0	3.90	3.30	7.20	0.037
* 1700	0	16155	73	22/64		2379	14.19	33	2.75	3025	0.135		1440	0.140	197.0	3.24	3.36	6.60	0.034
1800	0	16155	73	22/64		2379	14.19	33	2.75	3325	0.15		1590	0.15	197.0	3.60	3.60	7.20	0.037
2000	0	16134	73	22/64		2379	14.19	33	2.75	3950	0.315		1900	0.31	197.0	3.78	3.72	7.50	0.038
2200	0	16134	73	22/64		2379	14.19	33	2.75	4540	0.35		2140	0.24	197.0	4.20	2.88	7.08	0.036
2400	0	16127	73	22/64		2379	14.19	33	2.75	5175	0.30		2475	0.33	197.0	3.60	3.96	7.56	0.038
2400						SHUT WELL IN FOR BUILD UP													
0015	0	19037																	
0030	0	19078																	
0045	0	19147																	
0100	0	19209																	
0115	0	19237																	

* COMMENCE TAKING SAMPLES

OPERATOR: T. HIRST, D. STEPHENS

00007

WELL: THURAKINNA #3						SANTOS LTD.										DATE: 8-9-90				
TYPE OF TEST: SINGLE RATE						WELL TEST DATA SHEET										PAGE No: 5 of 5				
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING KPA	TUBING KPA	TEMP. °C	CHOKE SIZE INS.	B.S.W. %	PI KPA	HW KPA	TEMP. °C	ORIFICE SIZE INS.	TANK DP LITRE	TANK PROD M3	API GRAVITY @60 °F	TANK DP LITRE	TANK PROD M3	GAS FLOW RATE M3/D	OIL FLOW RATE M3/DAY	WATER FLOW RATE M3/DAY	TOTAL LIQUID FLOW RATE M3/DAY	G.O.R. M3/M3	
01:30	0	19265																		
01:45	0	19278																		
02:00	0	19285																		
02:15	0	19292																		
02:30	0	19299																		
02:45	0	19306																		
03:00	0	19313																		
03:15	0	19320																		
03:30	0	19320																		
03:45	0	19320																		
04:00	0	19320																		
06:00	0	19361																		
10:00	0	19409																		
14:00	0	19458																		
18:00	0	19471																		
22:00	0	19485																		
9-9-90																				
02:00	0	19492																		
06:00	0	19499																		
10:00	0	19506																		
Rig down Separator and lines																				

OPERATOR: T. HIRST - D. STEPHENS

80000

WELL: <u>THURAKINNA #3</u>						SANTOS LTD.										DATE: <u>9.9.90</u>				
TYPE OF TEST: <u>SINGLE RATE</u>						WELL TEST DATA SHEET										PAGE No: <u>6 of 6</u>				
DATE TIME	WELLHEAD					GAS FLOW DATA					OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING KPA	TUBING KPA	TEMP. °C	CHOKE SIZE INS.	B.S.W. %	PI KPA	HW KPA	TEMP. °C	ORIFICE SIZE INS.	TANK DIP LITRE	TANK PROD M3	API GRAVITY 280 °F	TANK DIP LITRE	TANK PROD M3	GAS FLOW RATE M3/D	OIL FLOW RATE M3/DAY	WATER FLOW RATE M3/DAY	TOTAL LIQUID FLOW RATE M3/DAY	G.O.R. M3/M3	
1400	0	19513																		
1800	0	19513																		
2200	0	19513																		
10.9.90																				
0200	0	19513																		
0600	0	19513																		
1000	0	19540																		
1400	0	19540																		
1800	0	19540																		
2200	0	19540																		
11.9.90																				
0200	0	19547																		
0600	0	19547																		
0948	0	19547																		
1840	0	19574																		
2040	0	19582																		
12.9.90																				
0630																				
1015																				

OPERATOR: HIRST / STEPHENS

00009



WIRELINE REPORT

00010

WELL: THURAKINA #3

DATE: 3/9/90

PROGRAM: SINGLE RATE & BUILD UP TEST

PURPOSE OF WORK: PERFORM DUMMY RUN

REPORT OF WORK PERFORMED:

1402 RIG UP W/LINE UNIT TO PERFORM
DUMMY RUN
1433 R.I.H WITH 1.750" GAUGE CUTTER,
WEIGHT BAR AND SPANG JARS
1540 RUN TO 7833' K.B. NO OBSTRUCTIONS
1616 P.O.O.H
1639 IN LUB
RIG DOWN W/LINE UNIT

OPERATOR'S SIGNATURE

WORK PERFORMED BY: S. KADDLER OF OILSERV

WELL DATA:

Tubing Size: 2 7/8 FWHP: / SIWHP: 20009 K.P.A

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

"X" Nipple @ 7317.93' K.B. "N"/"XN" Nipple @ 7338.34' K.B. Other /

Min I.D. 2.205" @ 7338.34' K.B. Packer @ 7300' K.B

Perforated Interval: PATCHAWARRA 7720'-7738' K.B.

Forward to: Petroleum Engineering — Adelaide
Production Department — Moomba

OILSERV AUSTRALIA LTD	CLIENT: SANTOS LTD WELL: THURAKINA # 3 DATE: 03/9/90	SEQUENCE OF OPERATIONS PAGE: 1
DATE/TIME	REMARKS	
3/9/90	Arrive location Thurakinna # 5 spot equipment & start rig up.	
4/9/90	Pressure test line to inlet of separator.	
715	Open well to 18" by pass separator.	
730	Trim flow through sepaator 22".	
1000		
6/9/90	Start E/line rig up.	
1000	Rig up Lubricator test GRC tool 56027.	
1500	Pressure up Lubricator hang in Lubricator for 2 hrs.	
1515	R.I.H.	
1715	Hang @ 3000'KB due to bad light wait until first light to continue R.I.H.	
1830	Turn off tool until morning.	
2307		
7/9/90	Power up tool.	
534	Continue R.I.H.	
640	Hang @ 7690'KB survey depth.	
745	Monitor flow.	
8/9/90	Shut in well wing valve for build up.	
2400	Monitor Build up.	
9/9/90	Monitor Build up.	
10/9/90	Monitor Build up.	
cont/2		

SEQUENCE OF EVENTS CONTINUATION SHEET.

PAGE: 2

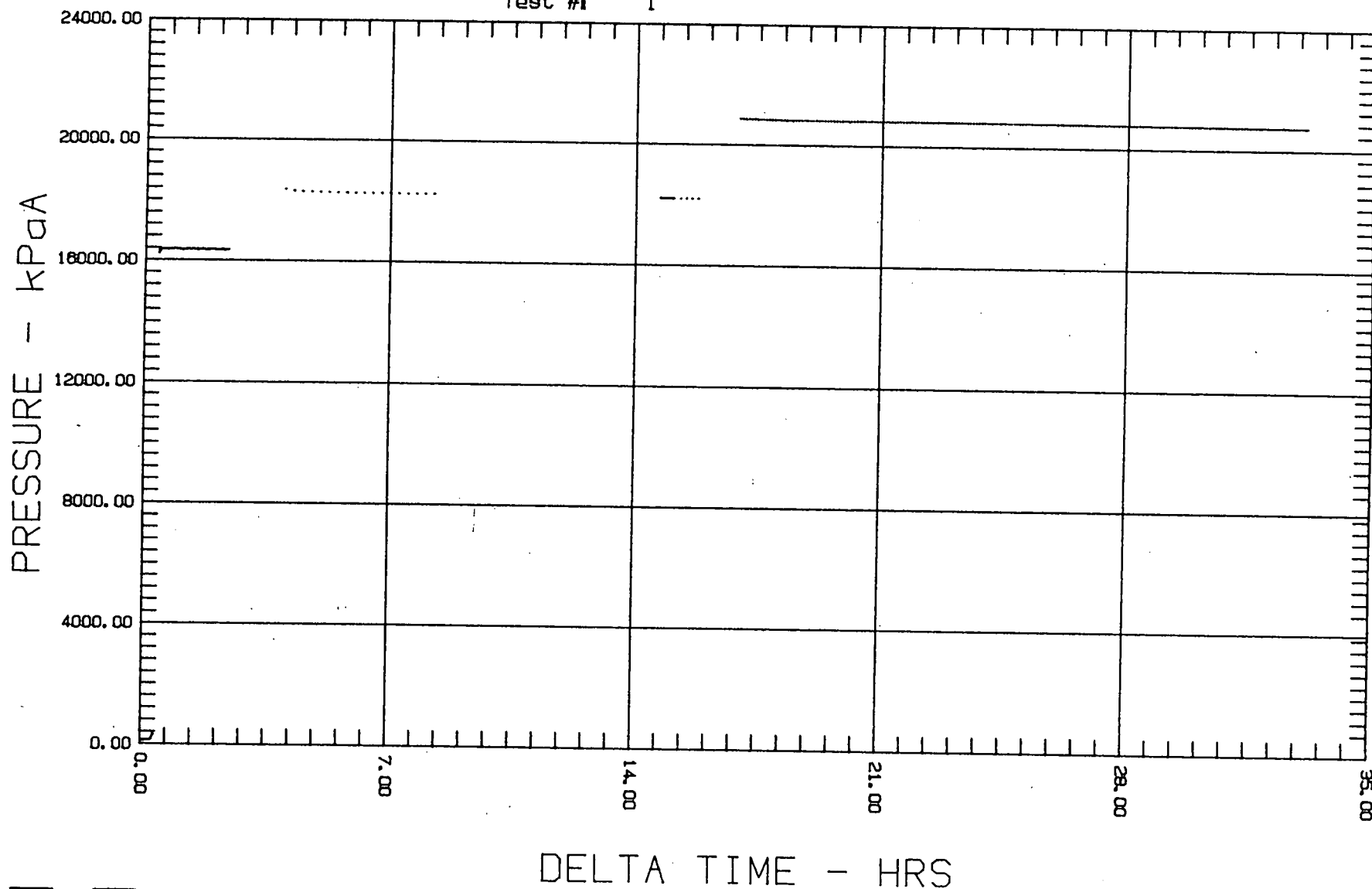
11/9/90	Monitor Build up.
948	R.I.H. to start Static Gradient Survey.
954	Stop # 12 @ 7729'KB.
1013	P.O.O.H. Gradient : 0.0699 PSI/FT.
1022	Stop # 11 @ 7500'KB.
1046	P.O.O.H. Gradient: 0.066 PSI/FT
1104	Stop # 10 @ 7000'KB.
1129	P.O.O.H. Gradient : 0.068 PSI/FT.
1140	Stop # 9 @ 6500'KB.
1210	P.O.O.H. Gradient : 0.074 PSI/FT.
1257	Stop # 8 @ 6000'KB.
1323	P.O.O.H. Gradient : 0.076 PSI/FT.
1338	Stop # 7 @ 5500'KB.
1357	P.O.O.H. Gradient : 0.076 PSI/FT.
1414	Stop # 6 @ 5000'KB.
1435	P.O.O.H. Gradient : 0.078 PSI/FT.
1506	Stop # 5 @ 4000'KB.
1534	P.O.O.H. Gradient : 0.084 PSI/FT.
1600	Stop # 4 @ 3000'KB.
1622	P.O.O.H. Gradient: 0.090 PSI/FT.
1654	Stop # 3 @ 2000'KB.
1718	P.O.O.H. Gradient: 0.097 PSI/FT.
1747	Stop # 2 @ 1000'KB.
1807	P.O.O.H. Gradient: 0.102 PSI/FT.
1840	Stop # 1 in Lubricator.
	Hang in Lubricator for 2 hrs.
2040	Depressure Lubricator.
2050	Tool to atmosphere.
2055	End of Test.
12/9/90	
600	Start rig down of E/line.

Plot starting date: 9/ 6/90
time: 14:54:13

Gauge S/N

Company: OILSERV AUSTRALIA LTD.
Client: SANTOS LTD.
Well name: THURAKINNA
Well #: 3
Test #: 1

Location: COOPER BASIN
Operator: G PASZNICKI
Comments: SINGLE RATE FLOW & BUILD UP,
STATIC GRADIENT SURVEY.



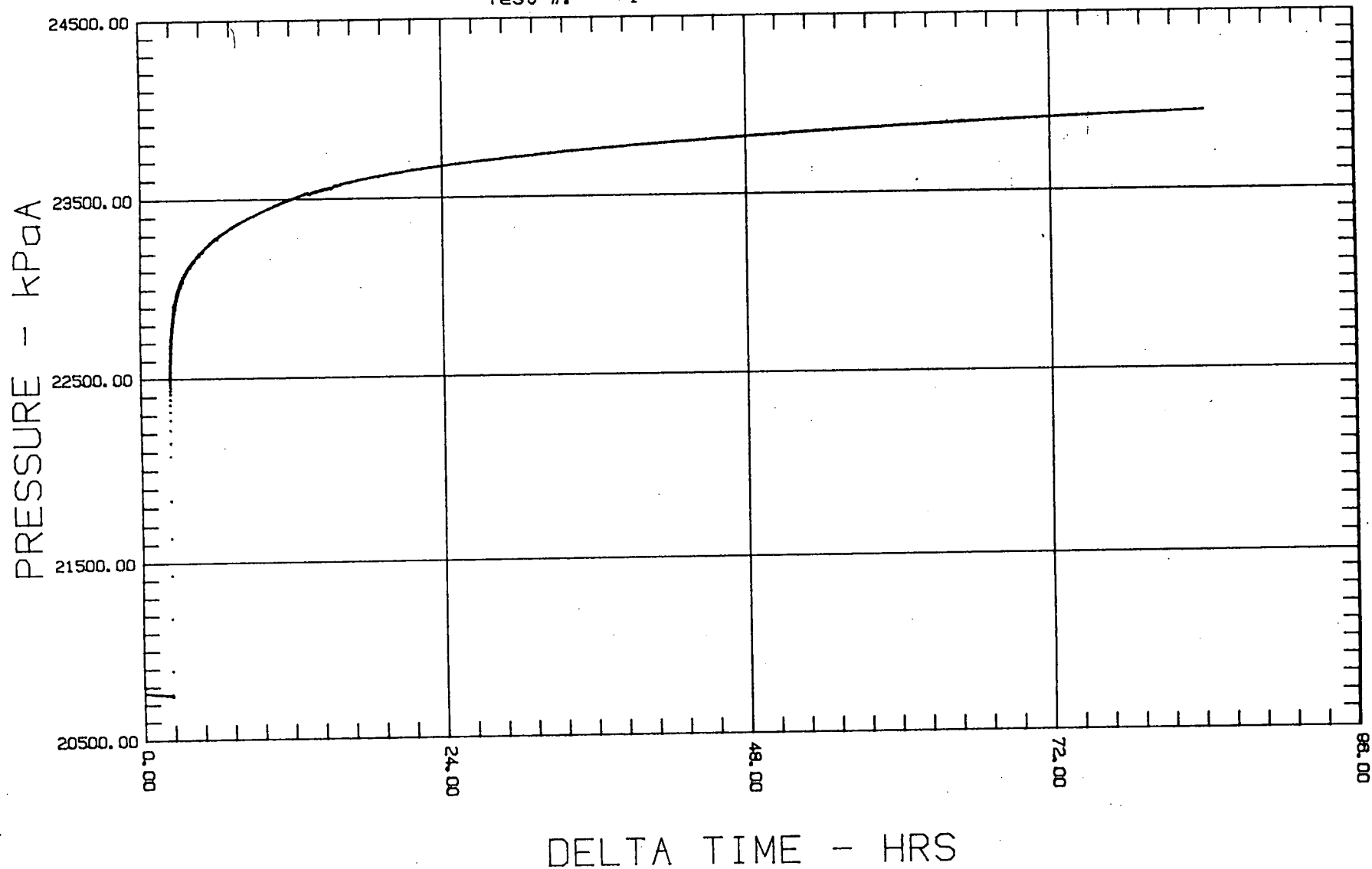
00013

Plot starting date: 9/ 7/90
time: 21:46:50

Gauge S/N

Company: OILSERV AUSTRALIA LTD.
Client: SANTOS LTD.
Well name: THURAKINNA
Well #: 3
Test #: 1

Location: COOPER BASIN
Operator: G PASZNICKI
Comments: SINGLE RATE FLOW & BUILD UP,
STATIC GRADIENT SURVEY.



00014

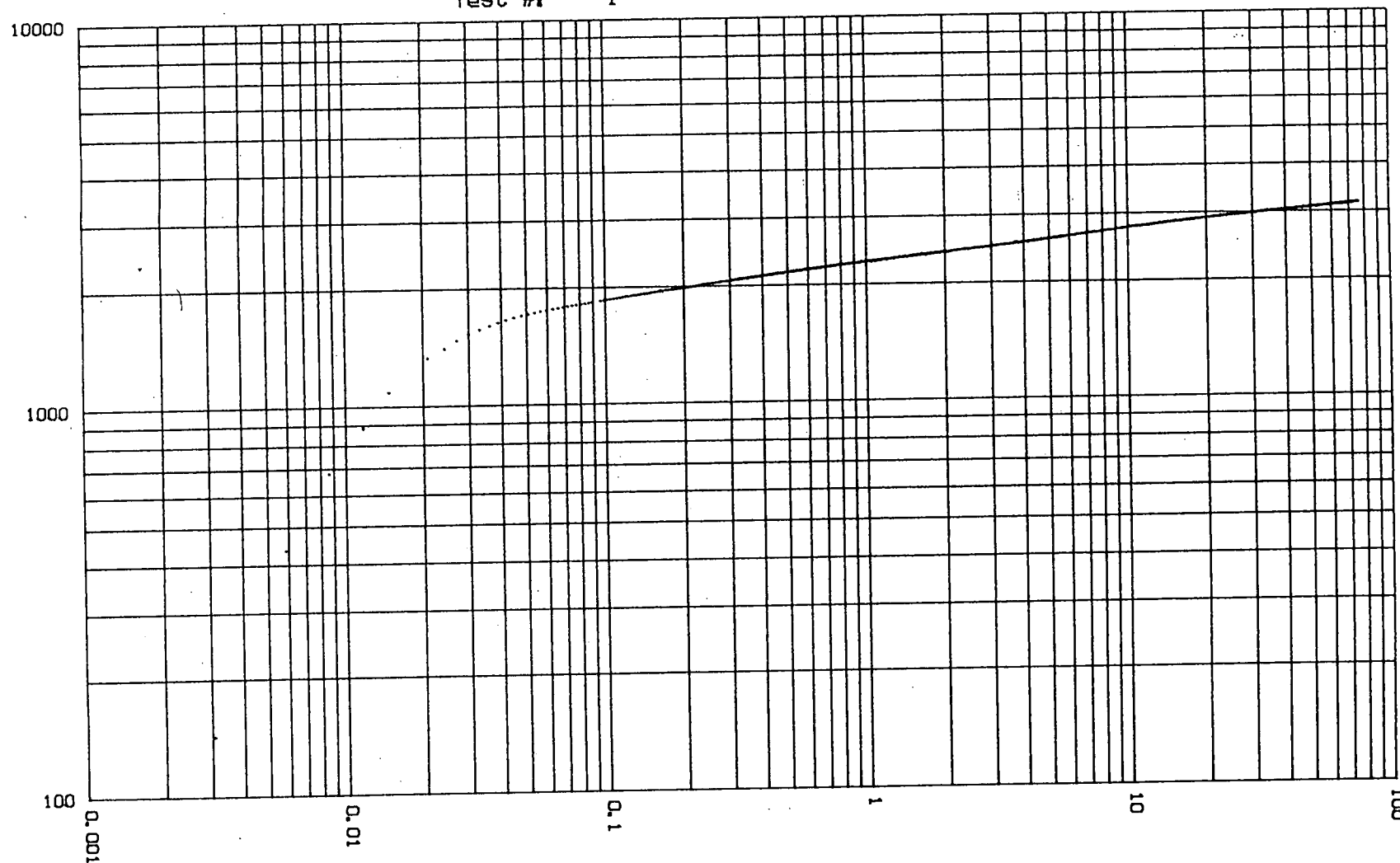
Plot starting date: 9/ 8/90
time: 0: 0: 8

Gauge S/N
Reference pressure: 20751.340 kPaA

Company: OILSERV AUSTRALIA LTD.
Client: SANTOS LTD.
Well name: THURAKINNA
Well #: 3
Test #: 1

Location: COOPER BASIN
Operator: G PASZNICKI
Comments: SINGLE RATE FLOW & BUILD UP.
STATIC GRADIENT SURVEY.

DELTA PRESSURE - kPaA



DELTA TIME - HRS

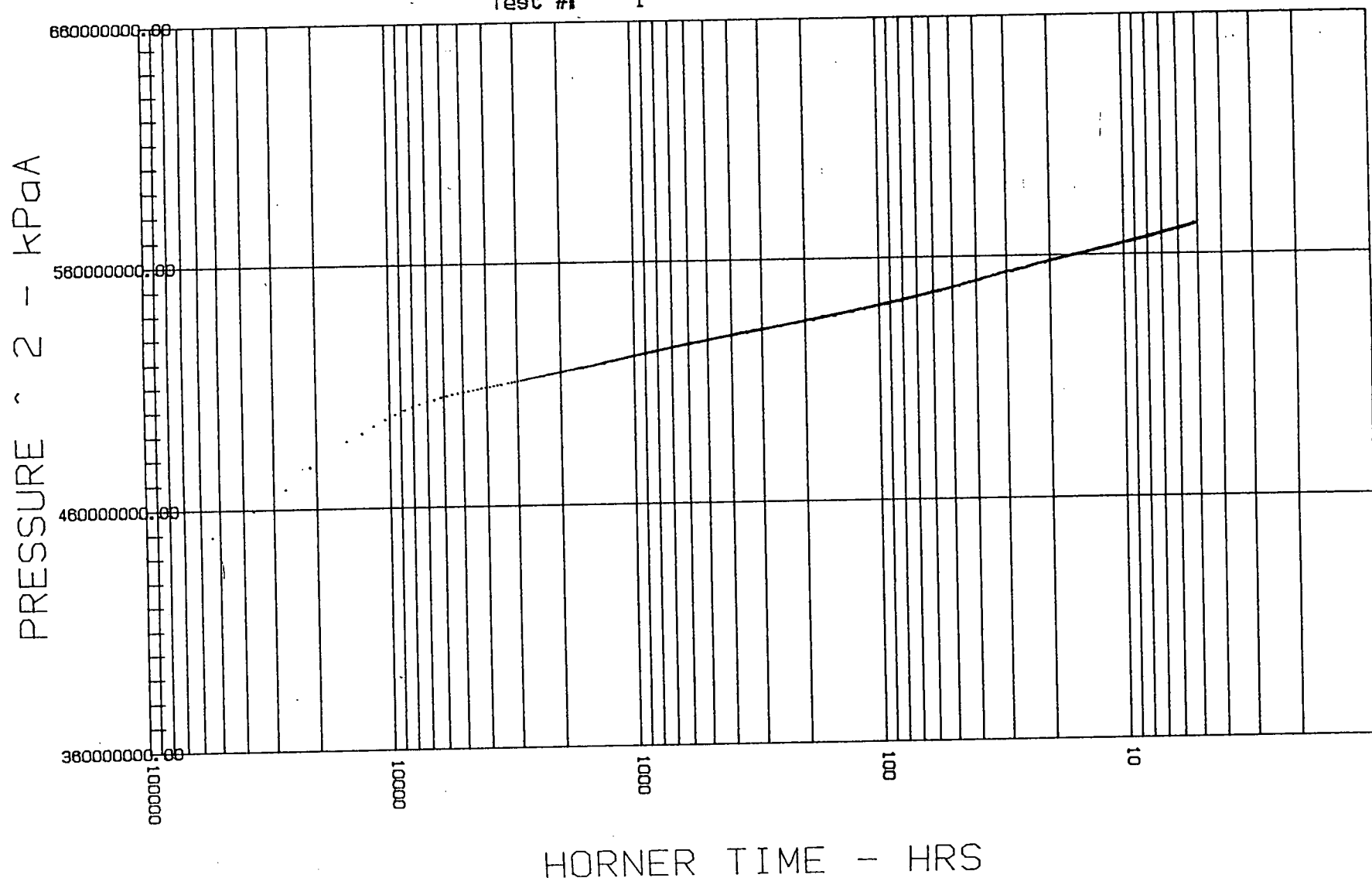
00015

Plot starting date: 9/ 8/90
time: 0: 0: 8

Gauge S/N
Flow time: 315.360 HRS

Company: OILSERV AUSTRALIA LTD.
Client: SANTOS LTD.
Well name: THURAKINNA
Well #: 3
Test #: 1

Location: COOPER BASIN
Operator: G PASZNICKI
Comments: SINGLE RATE FLOW & BUILD UP,
STATIC GRADIENT SURVEY.



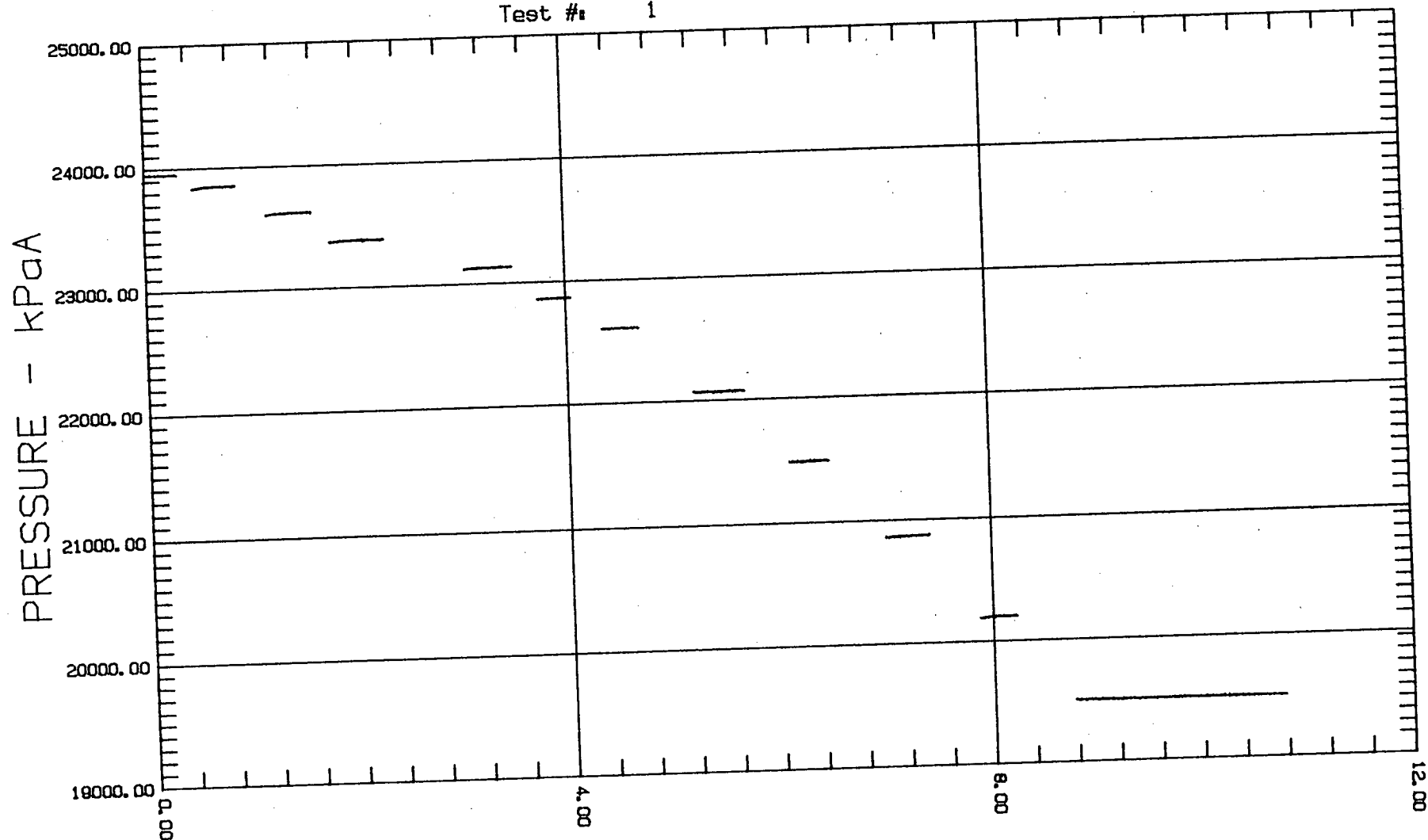
00016

Plot starting date: 9/11/90
time: 9:54:33

Gauge S/N

Company: OILSERV AUSTRALIA LTD.
Client: SANTOS LTD.
Well name: THURAKINNA
Well #: 3
Test #: 1

Location: COOPER BASIN
Operator: G PASZNICKI
Comments: SINGLE RATE FLOW & BUILD UP,
STATIC GRADIENT SURVEY.



DELTA TIME - HRS

00017

OILSERV AUSTRALIA LTD

GRADIENT SURVEY REPORT

DATA

TIME START RUN	TIME STOP RUN	STOP	DEPTH (KB)	PRESSURE (PSIA)	GRADIENT PSI/FT
954	1013	12	7729	3474	0.0699
1022	1046	11	7500	3458	0.066
1104	1129	10	7000	3425	0.068
1140	1210	9	6500	3391	0.074
1257	1323	8	6000	3354	0.076
1338	1357	7	5500	3316	0.076
1414	1435	6	5000	3278	0.078
1506	1534	5	4000	3200	0.084
1600	1622	4	3000	3116	0.090
1654	1718	3	2000	3026	0.097
1747	1807	2	1000	2929	0.102
1840	2040	1	LUB	2827	

WELL: THURAKINNA NO 3

DATE: 11 / 09 / 90

CLIENT: SANTOS LTD

GRADIENT CONDUCTED WHILE :(P.O.O.H)



OILSERV AUSTRALIA LTD

GRADIENT SURVEY REPORT

DATA

TIME START RUN	TIME STOP RUN	STOP	DEPTH (KB)	PRESSURE (P81A)	GRADIENT P81/FT
954	1013	12	7729	3474	0.0699
1022	1046	11	7500	3458	0.066
1104	1129	10	7000	3425	0.068
1140	1210	9	6500	3391	0.074
1257	1323	8	6000	3354	0.076
1338	1357	7	5500	3316	0.076
1414	1435	6	5000	3278	0.078
1506	1534	5	4000	3200	0.084
1600	1622	4	3000	3116	0.090
1654	1718	3	2000	3026	0.097
1747	1807	2	1000	2929	0.102
1840	2040	1	LUB	2827	

WELL: THURAKINNA NO 3

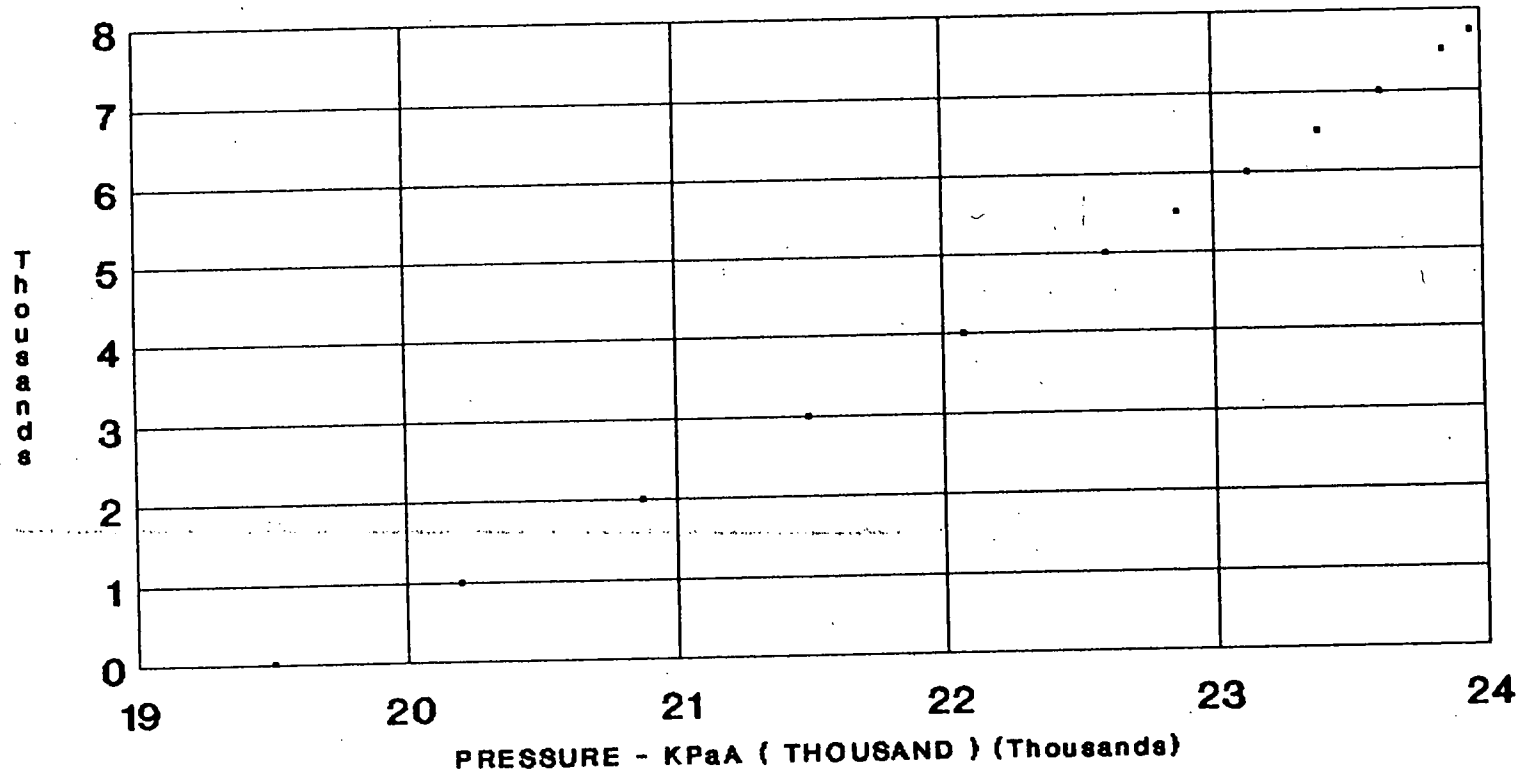
DATE: 11 / 09 / 90

CLIENT: SANTOS LTD

GRADIENT CONDUCTED WHILE : (P.O.O.H)



OILSERV AUSTRALIA LTD
STATIC GRADIENT SURVEY
THURAKINNA #3



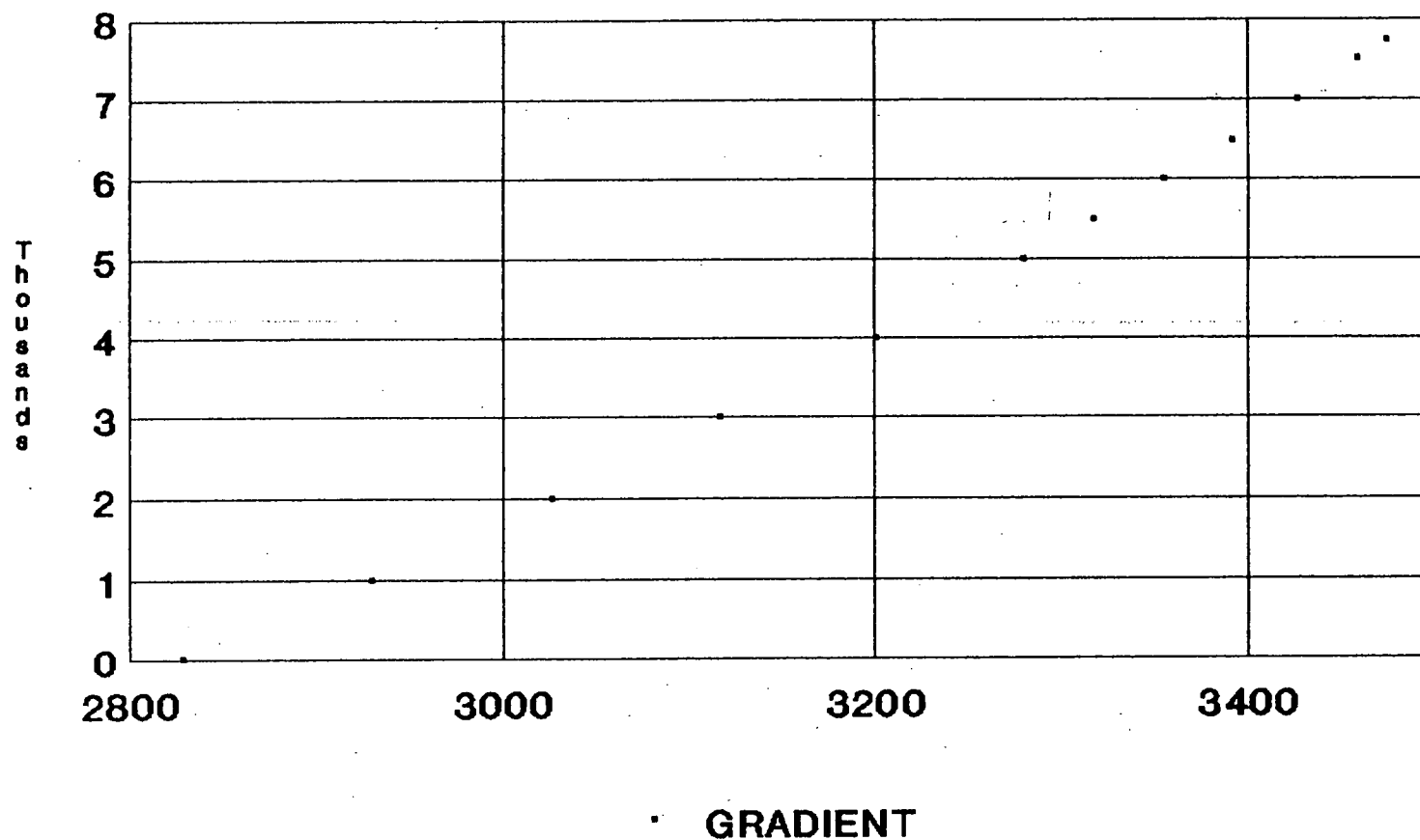
GRADIENT

CLIENT : SANTOS LTD
GAUGE S/N 58027
OPERATOR : G.PASZNICKI

DATE : 11/09/90

00020

OILSERV AUSTRALIA LTD
STATIC GRADIENT SURVEY
THURAKINNA #3



CLIENT : SANTOS LTD
GAUGE S/N 56027
OPERATOR : G.PASZNICKI

DATE : 11/09/90

00021

OILSERV AUSTRALIA LTDDOWNHOLE GAUGE REPORTCLIENT: SANTOS LTD WELL NAME/NUMBER: THURAKINNA NO 3GAUGE TYPE: GRC SERIAL NUMBER: 56027DATE OF CALIBRATION: 21/2/90 RANGE: 0-10000TYPE OF TEST: SINGLE RATE TYPE OF WELL: Oil/GAS/COND/WATERWAS GAUGE CHECKED AGAINST DWT: YES/NOIF YES, PRESSURE DIFFERENTIAL: DEPTH RUN TO: 7729 FT. MAX PRESSURE RECORDED: 23909 ~~23909~~ KPAHOURS IN HOLE: 126 HRS. MAX TEMP. RECORDED: 125 ~~125~~ °CHOURS WELL FLOWING: 33 HRS. NEW ROPE SOCKET: YES/NOHOURS WELL SHUT IN: 93 HRS. CCL RUN: YES/NOPROBLEMS ENCOUNTERED

NO PROBLEMS

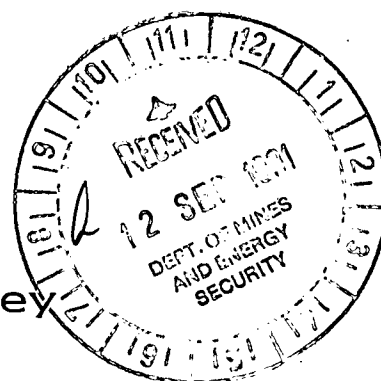
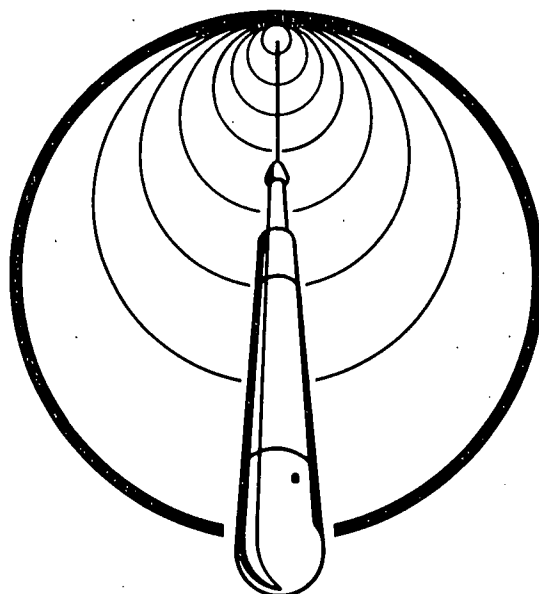
COMMENTS: (FAILURE REPORT)

NO PROBLEMS

DISTRIBUTION: 1. TO CLIENT 2. OAL BASE 3. RETAIN ON JOB.

EXPERTEST

ELECTRIC WIRELINE
SERVICE



Electronic BHP/BHT Survey

Customer: ..SANTOS LTD.

Location: ...THURAKINNA. #3.

Formation: .PATCHAWARRA.

Date:4-01-91. TO. 19-01-91.

711512

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484-77' KB

PAGE: 1 OF 3

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 2/1/91

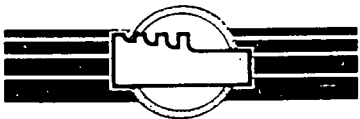
TEST TYPE : MODIFIED ISOCHRONAL

OPR : C. HILDER

DATE/TIME	DESCRIPTION OF EVENTS
2/1/91	
12:00	DEPART MOOMBA.
13:00	RAIN AT DARALINGIE DELAYS PROGRESS. STOP OPERATIONS UNTIL ROADS PASSABLE.
14:30	CONTINUE TO LOCATION.
15:00	ARRIVE ON LOCATION. COMMENCE RIGGING UP. WELL FLOWING IN LINE. ADVISE MOOMBA.
16:00	S.W.I. COMPLETE RIG UP.
16:40	R.I.H. 1.75" BLIND BOX.
17:00	TAG PBTD @ 7835'KB. P.O.O.H. PERFORATIONS CLEAR.
17:20	AT SURFACE. SECURE EQUIPMENT.
3/1/91	
11:00	DEPART MOOMBA.
12:00	ARRIVE ON LOCATION.
13:00	COMMENCE RIG UP.
14:30	PRESS LUB. R.I.H. WITH CCL.
15:00	CORRELATE TO END OF TUBING. 10' STRETCH CORRECTED FOR.
15:30	P.O.O.H.
16:05	AT SURFACE.
16:15	RIG OUT CCL. RIG IN HP GAUGE #599.
16:20	PRESS LUB.
16:30	DEPRESS LUB.
16:40	DEPART LOCATION.

00024

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'

PAGE: 2 OF 3

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

DATE/TIME	DESCRIPTION OF EVENTS
4/1/91	
07:00	ON LOCATION. FINISH RIGGING IN TEST EQUIPMENT. PRESSURE TEST TO F.S.I. W.H.P.
09:00	PREPARE AMERADA GAUGE AND H.P. GAUGE.
12:40	PRESSURE LUB.
14:00	R.I.H.
14:35	ON DEPTH @ 7400'KB AS PER PROGRAM.
15:00	OPEN ON FLOW TO SEP. TO ESTABLISH RATES FOR ISOCHRONAL TEST. REFER TO TEST RESULTS DATA.
20:00	SHUT IN ON BUILD UP. MONITOR BUILD UP.
5/1/91	
12:00	OPEN ON RATE #1.
20:00	SHUT IN FOR BUILD UP. END OF RATE #1.
6/1/91	
04:00	OPEN ON RATE #2.
12:00	END OF RATE #2. SHUT IN FOR BUILD UP.
20:00	OPEN ON RATE #3.
6/1/91	
04:00	SHUT IN. END OF RATE #3.
10:00	NOTE: P.E. DECIDED TO LET WELL BUILD UP TO 17900 KPA B.H.P. AND RE-START TEST. MONITOR BUILD UP.
9/1/91	
10:00	OPEN ON FLOW TO RE-START TEST. BLEW OUT GREASE NIPPLE ON LOW TORQUE VALVE ON HEATER. SHUT IN TO REPAIR LEAK.
16:00	OPEN WELL ON 14/64" FOR RTAE #1.
10/1/91	
04:00	SHUT WELL IN FOR 12 HRS BUILD UP.
16:00	OPEN WELL ON 26/64" FOR RATE #2.

00025

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'

PAGE: 3 OF 3

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

DATE/TIME	DESCRIPTION OF EVENTS
11/1/91	
04:00	SHUT WELL IN FOR 12 HRS. BUILD UP.
16:00	OPEN WELL ON 36/64" FOR RATE #3.
12/1/91	
04:00	SHUT WELL IN FOR 12 HRS. BUILD UP.
16:00	OPEN WELL ON 42/64" FOR RATE #4.
13/1/91	
04:00	CUT CHOKE TO 34/64" FOR EXTENDED FLOW.
20:00	START TAKING HP SAMPLES.
21:35	SAMPLINGS COMPLETED.
14/1/91	
04:00	SHUT WELL IN FOR FINAL BUILD UP. RIG OUT SEPARATOR AND MOVE OUT OF LOCATION. E-LINE MONITOR FINAL BUILD UP.
15/1/91	
02:50	TEMPERATURE BOARD FAILED. USE MANUAL TEMPERATURE.
06:00	END OF BUILD UP.
06:15	PULL OUT OF HOLE. PERFORM S.G.S. TO SURFACE.
12:10	ARRIVE IN LUBRICATOR.
13:10	DEPRESSURE LUBRICATOR. RIG DOWN E-LINE EQUIPMENT. WELL BACK TO PRODUCTION. END OF TEST.

00026

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7720'-7484'KB GAUGE DEPTH: 0
 COMMENTS : LUB. STOP. WELL SHUT IN.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	13:00:00	0.000	2074.25	2074.25	103.53		START SURVEY.
04-01-91	13:01:00	0.017	2074.30	0.04	103.25		
04-01-91	13:02:00	0.033	2074.25	-0.04	102.97		DELTA T FROM START.
04-01-91	13:03:00	0.050	2074.36	0.10	102.68		
04-01-91	13:04:00	0.067	2074.54	0.19	102.36		DELTA P FROM PREVIOUS READING.
04-01-91	13:05:00	0.083	2074.64	0.09	102.03		
04-01-91	13:06:00	0.100	2074.52	-0.12	101.69		
04-01-91	13:07:00	0.117	2074.42	-0.11	101.35	2071	Csg = 0 PSIG
04-01-91	13:08:00	0.133	2074.22	-0.20	101.06		
04-01-91	13:09:00	0.150	2074.07	-0.15	100.78		1 MIN. SAMPLE RATE.
04-01-91	13:10:00	0.167	2073.88	-0.19	100.56		
04-01-91	13:11:00	0.183	2073.46	-0.42	100.36		
04-01-91	13:12:00	0.200	2073.31	-0.15	100.20		
04-01-91	13:13:00	0.217	2073.23	-0.08	100.06		
04-01-91	13:14:00	0.233	2073.20	-0.02	99.91		
04-01-91	13:15:00	0.250	2073.19	-0.02	99.78		
04-01-91	13:16:00	0.267	2073.29	0.11	99.66		
04-01-91	13:17:00	0.283	2073.43	0.14	99.52		
04-01-91	13:18:00	0.300	2073.38	-0.05	99.37		
04-01-91	13:19:00	0.317	2073.44	0.05	99.22		
04-01-91	13:20:00	0.333	2073.42	-0.01	99.08		
04-01-91	13:21:00	0.350	2073.39	-0.03	98.93		
04-01-91	13:22:00	0.367	2073.27	-0.12	98.82		
04-01-91	13:23:00	0.383	2073.21	-0.06	98.71		
04-01-91	13:24:00	0.400	2073.29	0.08	98.62		
04-01-91	13:25:00	0.417	2073.21	-0.08	98.51		
04-01-91	13:26:00	0.433	2073.17	-0.04	98.42		
04-01-91	13:27:00	0.450	2073.14	-0.03	98.33		
04-01-91	13:28:00	0.467	2073.06	-0.09	98.25		
04-01-91	13:29:00	0.483	2072.94	-0.11	98.19		
04-01-91	13:30:00	0.500	2072.85	-0.10	98.17		
04-01-91	13:31:00	0.517	2072.76	-0.09	98.16		
04-01-91	13:32:00	0.533	2072.61	-0.15	98.18		
04-01-91	13:33:00	0.550	2072.75	0.14	98.21		
04-01-91	13:34:00	0.567	2072.91	0.16	98.21		
04-01-91	13:35:00	0.583	2073.08	0.17	98.19		
04-01-91	13:36:00	0.600	2073.10	0.02	98.14		
04-01-91	13:37:00	0.617	2073.08	-0.02	98.08		
04-01-91	13:38:00	0.633	2073.00	-0.08	98.04		
04-01-91	13:39:00	0.650	2072.85	-0.16	98.01		
04-01-91	13:40:00	0.667	2072.85	0.01	98.01		
04-01-91	13:41:00	0.683	2072.73	-0.13	98.03		
04-01-91	13:42:00	0.700	2072.73	0.00	98.06		
04-01-91	13:43:00	0.717	2072.60	-0.13	98.10		
04-01-91	13:44:00	0.733	2072.49	-0.11	98.16		
04-01-91	13:45:00	0.750	2072.30	-0.20	98.25		
04-01-91	13:46:00	0.767	2072.46	0.17	98.35		
04-01-91	13:47:00	0.783	2072.57	0.11	98.42		
04-01-91	13:48:00	0.800	2072.53	-0.05	98.48		
04-01-91	13:49:00	0.817	2072.48	-0.05	98.56		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
FORMATION: PATCHAWARRA PERFORATIONS: 7720'-7484'KB GAUGE DEPTH: 0
COMMENTS : LUB. STOP. WELL SHUT IN.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	13:50:00	0.833	2072.58	0.10	98.65		
04-01-91	13:51:00	0.850	2072.82	0.24	98.72		
04-01-91	13:52:00	0.867	2072.94	0.12	98.73		
04-01-91	13:53:00	0.883	2072.93	-0.01	98.73		
04-01-91	13:54:00	0.900	2072.93	-0.00	98.74		
04-01-91	13:55:00	0.917	2073.06	0.14	98.73		
04-01-91	13:56:00	0.933	2073.13	0.06	98.71		
04-01-91	13:57:00	0.950	2073.14	0.02	98.67		
04-01-91	13:58:00	0.967	2073.26	0.12	98.62	2063	Csg = 0
04-01-91	13:59:00	0.983	2073.15	-0.11	98.57		
04-01-91	14:00:00	1.000	2073.09	-0.06	98.53		R.I.H.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	15:00:00	2.000	2564.22	491.13	275.44		ON DEPTH. 7400'KB.
04-01-91	15:01:00	2.017	2529.98	-34.24	275.34		
04-01-91	15:02:00	2.033	2482.54	-47.45	275.07		WELL OPENED UP ON
04-01-91	15:03:00	2.050	2440.48	-42.06	274.40		32/64" CHOKE.
04-01-91	15:04:00	2.067	2415.57	-24.91	273.65		
04-01-91	15:05:00	2.083	2396.27	-19.30	273.14	2063	Csg = 0 PSIG
04-01-91	15:06:00	2.100	2346.16	-50.11	272.91		DELTA TIME FROM
04-01-91	15:07:00	2.117	2252.05	-94.11	272.62		START OF TEST.
04-01-91	15:08:00	2.133	2173.67	-78.38	272.11		DELTA P FROM
04-01-91	15:09:00	2.150	2120.85	-52.82	271.74		PREVIOUS READING.
04-01-91	15:10:00	2.167	2094.12	-26.73	271.67		OPEN CHOKE TO 32/64
04-01-91	15:11:00	2.183	2072.56	-21.56	271.90		
04-01-91	15:12:00	2.200	2031.17	-41.38	272.17	1420	Csg = 0 PSIG
04-01-91	15:13:00	2.217	1999.11	-32.07	272.27		
04-01-91	15:14:00	2.233	1975.49	-23.62	272.31		
04-01-91	15:15:00	2.250	1957.37	-18.11	272.32		OPEN CHOKE TO 34/64
04-01-91	15:16:00	2.267	1940.74	-16.64	272.31		
04-01-91	15:17:00	2.283	1916.56	-24.18	272.22	1223	Csg = 0 PSIG
04-01-91	15:18:00	2.300	1897.97	-18.59	272.00		
04-01-91	15:19:00	2.317	1878.85	-19.12	271.78		OPEN WELL TO 38/64
04-01-91	15:20:00	2.333	1847.82	-31.03	271.49		
04-01-91	15:21:00	2.350	1824.25	-23.57	271.08		
04-01-91	15:22:00	2.367	1808.31	-15.95	270.69		1 MIN. SAMPLE RATE.
04-01-91	15:23:00	2.383	1797.59	-10.71	270.37		
04-01-91	15:24:00	2.400	1790.17	-7.42	270.07		
04-01-91	15:25:00	2.417	1785.25	-4.92	269.83	970	Csg = 0 PSIG
04-01-91	15:26:00	2.433	1781.60	-3.65	269.55		
04-01-91	15:27:00	2.450	1779.15	-2.45	269.28		
04-01-91	15:28:00	2.467	1777.70	-1.45	269.03		
04-01-91	15:29:00	2.483	1776.82	-0.88	268.80		
04-01-91	15:30:00	2.500	1776.45	-0.37	268.59		OPEN CHOKE TO 42/64
04-01-91	15:31:00	2.517	1775.33	-1.12	268.38		
04-01-91	15:32:00	2.533	1765.35	-9.98	268.17	1258	Csg = 0 PSIG
04-01-91	15:33:00	2.550	1751.50	-13.85	267.90		
04-01-91	15:34:00	2.567	1742.02	-9.49	267.57		
04-01-91	15:35:00	2.583	1737.28	-4.74	267.35		
04-01-91	15:36:00	2.600	1734.83	-2.45	267.15		
04-01-91	15:37:00	2.617	1734.16	-0.67	267.00		
04-01-91	15:38:00	2.633	1734.68	0.52	266.89		
04-01-91	15:39:00	2.650	1735.35	0.67	266.75		
04-01-91	15:40:00	2.667	1736.66	1.30	266.65		
04-01-91	15:41:00	2.683	1737.92	1.26	266.52		
04-01-91	15:42:00	2.700	1739.30	1.38	266.41		
04-01-91	15:43:00	2.717	1741.37	2.07	266.32		
04-01-91	15:44:00	2.733	1743.54	2.17	266.30		
04-01-91	15:45:00	2.750	1745.70	2.16	266.27	856	Csg = 0 PSIG
04-01-91	15:46:00	2.767	1748.35	2.65	266.24		
04-01-91	15:47:00	2.783	1750.66	2.31	266.22		
04-01-91	15:48:00	2.800	1752.75	2.09	266.20		
04-01-91	15:49:00	2.817	1754.53	1.78	266.14		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	15:50:00	2.833	1756.52	1.99	266.10		
04-01-91	15:51:00	2.850	1758.38	1.86	266.09		
04-01-91	15:52:00	2.867	1760.05	1.67	266.09		
04-01-91	15:53:00	2.883	1761.81	1.76	266.10		
04-01-91	15:54:00	2.900	1763.52	1.71	266.11		
04-01-91	15:55:00	2.917	1765.02	1.51	266.13		
04-01-91	15:56:00	2.933	1766.49	1.46	266.15		
04-01-91	15:57:00	2.950	1767.88	1.39	266.18		
04-01-91	15:58:00	2.967	1769.25	1.37	266.20	854	Csg = 0 PSIG
04-01-91	15:59:00	2.983	1770.48	1.23	266.23		
04-01-91	16:00:00	3.000	1771.72	1.24	266.26		CUT CHOKE TO 32/64".
04-01-91	16:01:00	3.017	1780.64	8.92	266.30		
04-01-91	16:02:00	3.033	1805.19	24.55	266.42		
04-01-91	16:03:00	3.050	1835.60	30.41	266.67		
04-01-91	16:04:00	3.067	1866.79	31.18	266.97		
04-01-91	16:05:00	3.083	1889.49	22.71	267.29		
04-01-91	16:06:00	3.100	1905.02	15.53	267.54		
04-01-91	16:07:00	3.117	1915.72	10.69	267.72		
04-01-91	16:08:00	3.133	1923.09	7.38	267.88		
04-01-91	16:09:00	3.150	1928.50	5.40	268.01		
04-01-91	16:10:00	3.167	1932.66	4.16	268.15		
04-01-91	16:11:00	3.183	1935.86	3.20	268.28		
04-01-91	16:12:00	3.200	1938.32	2.47	268.41		
04-01-91	16:13:00	3.217	1940.28	1.95	268.53		
04-01-91	16:14:00	3.233	1941.78	1.50	268.65		
04-01-91	16:15:00	3.250	1943.11	1.33	268.77		
04-01-91	16:16:00	3.267	1944.26	1.15	268.90		
04-01-91	16:17:00	3.283	1945.13	0.87	269.01		
04-01-91	16:18:00	3.300	1945.93	0.80	269.10		
04-01-91	16:19:00	3.317	1946.66	0.72	269.20		
04-01-91	16:20:00	3.333	1947.41	0.75	269.30		
04-01-91	16:21:00	3.350	1948.21	0.81	269.38		
04-01-91	16:22:00	3.367	1949.04	0.83	269.46		
04-01-91	16:23:00	3.383	1949.93	0.89	269.53		
04-01-91	16:24:00	3.400	1950.82	0.90	269.60		
04-01-91	16:25:00	3.417	1951.68	0.85	269.66		
04-01-91	16:26:00	3.433	1952.54	0.87	269.73		
04-01-91	16:27:00	3.450	1953.36	0.82	269.78		
04-01-91	16:28:00	3.467	1954.10	0.74	269.83	1258	Csg = 0 PSIG
04-01-91	16:29:00	3.483	1954.83	0.74	269.89		
04-01-91	16:30:00	3.500	1955.68	0.85	269.93		OPEN CHOKE TO 34/64"
04-01-91	16:31:00	3.517	1956.34	0.65	269.98		
04-01-91	16:32:00	3.533	1948.06	-8.28	270.01		
04-01-91	16:33:00	3.550	1938.62	-9.44	269.97		
04-01-91	16:34:00	3.567	1932.72	-5.90	269.94		
04-01-91	16:35:00	3.583	1929.41	-3.32	269.91		
04-01-91	16:36:00	3.600	1927.64	-1.77	269.92		
04-01-91	16:37:00	3.617	1926.74	-0.90	269.93		
04-01-91	16:38:00	3.633	1926.31	-0.43	269.94		
04-01-91	16:39:00	3.650	1926.27	-0.03	269.96		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	16:40:00	3.667	1926.42	0.15	269.98		
04-01-91	16:41:00	3.683	1926.63	0.21	269.99		
04-01-91	16:42:00	3.700	1926.92	0.29	270.00		
04-01-91	16:43:00	3.717	1927.37	0.45	270.00		
04-01-91	16:44:00	3.733	1927.90	0.53	270.00		
04-01-91	16:45:00	3.750	1928.44	0.54	270.02		
04-01-91	16:46:00	3.767	1929.05	0.61	270.03		
04-01-91	16:47:00	3.783	1929.70	0.65	270.04		
04-01-91	16:48:00	3.800	1930.33	0.63	270.05		
04-01-91	16:49:00	3.817	1930.91	0.58	270.06		
04-01-91	16:50:00	3.833	1931.27	0.36	270.08		
04-01-91	16:51:00	3.850	1931.70	0.43	270.08		
04-01-91	16:52:00	3.867	1931.67	-0.04	270.10		
04-01-91	16:53:00	3.883	1931.90	0.23	270.12		
04-01-91	16:54:00	3.900	1932.17	0.28	270.13		
04-01-91	16:55:00	3.917	1932.67	0.50	270.14		
04-01-91	16:56:00	3.933	1933.13	0.46	270.16		
04-01-91	16:57:00	3.950	1933.72	0.59	270.18		
04-01-91	16:58:00	3.967	1934.20	0.49	270.20	1196	Csg = 0 PSIG
04-01-91	16:59:00	3.983	1934.72	0.52	270.21		
04-01-91	17:00:00	4.000	1935.28	0.55	270.23		CUT CHOKE TO 28/64
04-01-91	17:01:00	4.017	1951.15	15.88	270.26		
04-01-91	17:02:00	4.033	1988.52	37.36	270.42		
04-01-91	17:03:00	4.050	2014.69	26.17	270.72		
04-01-91	17:04:00	4.067	2031.32	16.63	270.97		
04-01-91	17:05:00	4.083	2041.98	10.66	271.15		
04-01-91	17:06:00	4.100	2049.04	7.06	271.26		
04-01-91	17:07:00	4.117	2053.86	4.82	271.34		
04-01-91	17:08:00	4.133	2057.43	3.57	271.40		
04-01-91	17:09:00	4.150	2060.04	2.61	271.46		
04-01-91	17:10:00	4.167	2062.00	1.96	271.52		
04-01-91	17:11:00	4.183	2063.25	1.25	271.58		
04-01-91	17:12:00	4.200	2064.24	0.99	271.64		
04-01-91	17:13:00	4.217	2065.15	0.91	271.71		
04-01-91	17:14:00	4.233	2065.96	0.82	271.79		
04-01-91	17:15:00	4.250	2066.82	0.86	271.85	1449	Csg = 0 PSIG
04-01-91	17:16:00	4.267	2067.56	0.73	271.93		
04-01-91	17:17:00	4.283	2076.65	9.09	271.99		CUT CHOKE TO 26/64"
04-01-91	17:18:00	4.300	2090.25	13.61	272.14		
04-01-91	17:19:00	4.317	2099.31	9.05	272.30		
04-01-91	17:20:00	4.333	2105.05	5.74	272.45		
04-01-91	17:21:00	4.350	2108.87	3.82	272.54		
04-01-91	17:22:00	4.367	2111.46	2.59	272.61		
04-01-91	17:23:00	4.383	2113.35	1.89	272.67		
04-01-91	17:24:00	4.400	2114.93	1.57	272.71		
04-01-91	17:25:00	4.417	2115.97	1.04	272.76		
04-01-91	17:26:00	4.433	2116.81	0.84	272.79		
04-01-91	17:27:00	4.450	2117.38	0.57	272.84		
04-01-91	17:28:00	4.467	2117.97	0.59	272.88		
04-01-91	17:29:00	4.483	2118.42	0.46	272.93		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	17:30:00	4.500	2118.93	0.51	272.97	1512	Csg = 0 PSIG
04-01-91	17:31:00	4.517	2119.46	0.53	273.01		
04-01-91	17:32:00	4.533	2119.94	0.48	273.06		
04-01-91	17:33:00	4.550	2120.40	0.46	273.10		
04-01-91	17:34:00	4.567	2120.71	0.31	273.13		
04-01-91	17:35:00	4.583	2121.08	0.37	273.17		
04-01-91	17:36:00	4.600	2121.32	0.23	273.20		
04-01-91	17:37:00	4.617	2121.55	0.23	273.24		
04-01-91	17:38:00	4.633	2121.78	0.23	273.27		
04-01-91	17:39:00	4.650	2122.07	0.29	273.29		
04-01-91	17:40:00	4.667	2122.40	0.33	273.33		
04-01-91	17:41:00	4.683	2122.81	0.41	273.36		
04-01-91	17:42:00	4.700	2123.20	0.40	273.38		
04-01-91	17:43:00	4.717	2123.46	0.25	273.41		
04-01-91	17:44:00	4.733	2123.71	0.25	273.44		
04-01-91	17:45:00	4.750	2123.95	0.24	273.45		
04-01-91	17:46:00	4.767	2124.29	0.35	273.48		
04-01-91	17:47:00	4.783	2124.58	0.28	273.50		
04-01-91	17:48:00	4.800	2124.89	0.31	273.53		
04-01-91	17:49:00	4.817	2125.21	0.32	273.54		
04-01-91	17:50:00	4.833	2125.47	0.25	273.56		
04-01-91	17:51:00	4.850	2125.79	0.32	273.58		
04-01-91	17:52:00	4.867	2126.00	0.21	273.60		
04-01-91	17:53:00	4.883	2126.15	0.15	273.62		
04-01-91	17:54:00	4.900	2126.44	0.29	273.64		
04-01-91	17:55:00	4.917	2126.77	0.32	273.66		
04-01-91	17:56:00	4.933	2127.06	0.30	273.67		
04-01-91	17:57:00	4.950	2127.35	0.28	273.69		
04-01-91	17:58:00	4.967	2127.65	0.30	273.71	1519	Csg = 0 PSIG
04-01-91	17:59:00	4.983	2127.94	0.29	273.73		
04-01-91	18:00:00	5.000	2128.27	0.32	273.75		CUT CHOKE TO 21/64"
04-01-91	18:01:00	5.017	2152.02	23.75	273.77		
04-01-91	18:02:00	5.033	2188.56	36.54	273.98		
04-01-91	18:03:00	5.050	2213.01	24.45	274.30		
04-01-91	18:04:00	5.067	2227.00	13.98	274.54		
04-01-91	18:05:00	5.083	2235.52	8.52	274.68		
04-01-91	18:06:00	5.100	2240.75	5.23	274.73		
04-01-91	18:07:00	5.117	2244.32	3.57	274.77		
04-01-91	18:08:00	5.133	2246.71	2.39	274.77		
04-01-91	18:09:00	5.150	2248.53	1.83	274.77		
04-01-91	18:10:00	5.167	2249.89	1.36	274.78		
04-01-91	18:11:00	5.183	2251.10	1.21	274.79		
04-01-91	18:12:00	5.200	2252.14	1.04	274.79		
04-01-91	18:13:00	5.217	2253.00	0.86	274.81		
04-01-91	18:14:00	5.233	2253.68	0.68	274.83		
04-01-91	18:15:00	5.250	2254.33	0.65	274.86		
04-01-91	18:16:00	5.267	2255.00	0.68	274.90		
04-01-91	18:17:00	5.283	2255.54	0.54	274.92		
04-01-91	18:18:00	5.300	2256.02	0.48	274.97		
04-01-91	18:19:00	5.317	2256.42	0.41	275.00		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	18:20:00	5.333	2256.91	0.48	275.04		
04-01-91	18:21:00	5.350	2257.33	0.42	275.07		
04-01-91	18:22:00	5.367	2257.78	0.45	275.11		
04-01-91	18:23:00	5.383	2258.18	0.40	275.13		
04-01-91	18:24:00	5.400	2258.52	0.34	275.17		
04-01-91	18:25:00	5.417	2258.83	0.31	275.20		
04-01-91	18:26:00	5.433	2259.16	0.33	275.23		
04-01-91	18:27:00	5.450	2259.47	0.31	275.26		
04-01-91	18:28:00	5.467	2259.69	0.22	275.29		
04-01-91	18:29:00	5.483	2260.02	0.33	275.32		
04-01-91	18:30:00	5.500	2260.29	0.26	275.34	1726	Csg = 0 PSIG
04-01-91	18:31:00	5.517	2260.53	0.25	275.36		
04-01-91	18:32:00	5.533	2260.83	0.30	275.39		
04-01-91	18:33:00	5.550	2261.00	0.17	275.42		
04-01-91	18:34:00	5.567	2261.24	0.25	275.44		
04-01-91	18:35:00	5.583	2261.55	0.30	275.46		
04-01-91	18:36:00	5.600	2261.78	0.24	275.47		
04-01-91	18:37:00	5.617	2261.96	0.18	275.50		
04-01-91	18:38:00	5.633	2262.23	0.27	275.51		
04-01-91	18:39:00	5.650	2262.39	0.17	275.54		
04-01-91	18:40:00	5.667	2262.64	0.25	275.55		
04-01-91	18:41:00	5.683	2262.74	0.10	275.57		
04-01-91	18:42:00	5.700	2262.87	0.13	275.59		
04-01-91	18:43:00	5.717	2263.05	0.18	275.61		
04-01-91	18:44:00	5.733	2263.25	0.20	275.61		
04-01-91	18:45:00	5.750	2263.44	0.19	275.63		
04-01-91	18:46:00	5.767	2263.63	0.19	275.65		
04-01-91	18:47:00	5.783	2263.83	0.21	275.66		
04-01-91	18:48:00	5.800	2263.96	0.12	275.68		
04-01-91	18:49:00	5.817	2264.14	0.18	275.68		
04-01-91	18:50:00	5.833	2264.30	0.16	275.70		
04-01-91	18:51:00	5.850	2264.41	0.12	275.72		
04-01-91	18:52:00	5.867	2264.56	0.14	275.73		
04-01-91	18:53:00	5.883	2264.67	0.11	275.74		
04-01-91	18:54:00	5.900	2264.85	0.18	275.75		
04-01-91	18:55:00	5.917	2265.00	0.15	275.77		
04-01-91	18:56:00	5.933	2265.19	0.19	275.78		
04-01-91	18:57:00	5.950	2265.35	0.16	275.79		
04-01-91	18:58:00	5.967	2265.33	-0.02	275.80	1728	Csg = 0 PSIG
04-01-91	18:59:00	5.983	2265.26	-0.07	275.81		
04-01-91	19:00:00	6.000	2265.14	-0.12	275.83		CUT CHOKE TO 17/64"
04-01-91	19:01:00	6.017	2291.18	26.04	275.85		
04-01-91	19:02:00	6.033	2317.87	26.69	276.05		
04-01-91	19:03:00	6.050	2333.23	15.36	276.31		
04-01-91	19:04:00	6.067	2348.70	15.48	276.49		
04-01-91	19:05:00	6.083	2367.23	18.52	276.64		CUT CHOKE TO 14/64"
04-01-91	19:06:00	6.100	2380.02	12.80	276.79		
04-01-91	19:07:00	6.117	2393.66	13.64	276.90		
04-01-91	19:08:00	6.133	2401.19	7.52	276.99		
04-01-91	19:09:00	6.150	2405.66	4.47	277.04		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : WELL FLOWING. SETTING RATES FOR TEST.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	19:10:00	6.167	2408.42	2.76	277.03		
04-01-91	19:11:00	6.183	2410.51	2.09	276.99		
04-01-91	19:12:00	6.200	2412.14	1.63	276.95		
04-01-91	19:13:00	6.217	2413.55	1.42	276.90		
04-01-91	19:14:00	6.233	2414.86	1.31	276.85		
04-01-91	19:15:00	6.250	2416.09	1.23	276.81		
04-01-91	19:16:00	6.267	2417.14	1.05	276.76		
04-01-91	19:17:00	6.283	2418.18	1.04	276.73		
04-01-91	19:18:00	6.300	2419.13	0.95	276.71		
04-01-91	19:19:00	6.317	2420.09	0.96	276.69		
04-01-91	19:20:00	6.333	2421.02	0.94	276.68		
04-01-91	19:21:00	6.350	2421.86	0.84	276.67		
04-01-91	19:22:00	6.367	2422.63	0.76	276.66		
04-01-91	19:23:00	6.383	2423.45	0.83	276.66		
04-01-91	19:24:00	6.400	2424.16	0.71	276.65		
04-01-91	19:25:00	6.417	2424.93	0.76	276.66		
04-01-91	19:26:00	6.433	2425.61	0.68	276.67		
04-01-91	19:27:00	6.450	2426.28	0.68	276.67		
04-01-91	19:28:00	6.467	2426.88	0.60	276.68		
04-01-91	19:29:00	6.483	2427.50	0.62	276.69		
04-01-91	19:30:00	6.500	2428.06	0.56	276.70	1940	Csg = 0 PSIG
04-01-91	19:31:00	6.517	2428.65	0.59	276.71		
04-01-91	19:32:00	6.533	2429.14	0.49	276.73		
04-01-91	19:33:00	6.550	2429.67	0.53	276.74		
04-01-91	19:34:00	6.567	2430.13	0.46	276.75		
04-01-91	19:35:00	6.583	2430.68	0.54	276.76		
04-01-91	19:36:00	6.600	2431.00	0.33	276.77		
04-01-91	19:37:00	6.617	2431.29	0.28	276.79		
04-01-91	19:38:00	6.633	2431.56	0.27	276.80		
04-01-91	19:39:00	6.650	2431.87	0.32	276.81		
04-01-91	19:40:00	6.667	2432.10	0.23	276.82		
04-01-91	19:41:00	6.683	2432.37	0.27	276.83		
04-01-91	19:42:00	6.700	2432.65	0.28	276.85		
04-01-91	19:43:00	6.717	2432.88	0.23	276.85		
04-01-91	19:44:00	6.733	2433.09	0.21	276.87		
04-01-91	19:45:00	6.750	2433.38	0.30	276.88		
04-01-91	19:46:00	6.767	2433.57	0.19	276.89		
04-01-91	19:47:00	6.783	2433.79	0.22	276.91		
04-01-91	19:48:00	6.800	2433.91	0.11	276.92		
04-01-91	19:49:00	6.817	2434.15	0.25	276.93		
04-01-91	19:50:00	6.833	2434.27	0.12	276.94		
04-01-91	19:51:00	6.850	2434.50	0.23	276.95		
04-01-91	19:52:00	6.867	2434.60	0.10	276.96		
04-01-91	19:53:00	6.883	2434.70	0.10	276.98		
04-01-91	19:54:00	6.900	2434.85	0.14	276.98		
04-01-91	19:55:00	6.917	2434.96	0.11	276.99		
04-01-91	19:56:00	6.933	2435.04	0.08	277.00		
04-01-91	19:57:00	6.950	2435.22	0.18	277.01	1943	Csg = 0 PSIG
04-01-91	19:58:00	6.967	2435.39	0.17	277.02		
04-01-91	19:59:00	6.983	2435.52	0.12	277.04		ALL RATES SET.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	20:00:00	0.000	2435.57	0.00	277.05	1943	SHUT WELL IN.
04-01-91	20:00:10	0.003	2435.57	0.00	277.05		
04-01-91	20:00:20	0.006	2444.17	8.60	277.05		Csg = 0 PSIG
04-01-91	20:00:30	0.008	2454.78	19.21	277.05		
04-01-91	20:00:40	0.011	2463.83	28.26	277.05		10 SEC. SAMPLE RATE
04-01-91	20:00:50	0.014	2473.09	37.52	277.05		
04-01-91	20:01:00	0.017	2480.82	45.25	277.05		DELTA TIME FROM SHUT-IN.
04-01-91	20:01:10	0.019	2487.28	51.71	277.05		
04-01-91	20:01:20	0.022	2492.86	57.29	277.05		
04-01-91	20:01:30	0.025	2497.64	62.07	277.05		DELTA P FROM SHUT-IN.
04-01-91	20:01:40	0.028	2501.75	66.18	277.05		
04-01-91	20:01:50	0.031	2505.58	70.01	277.05		
04-01-91	20:02:00	0.033	2508.52	72.95	277.05		
04-01-91	20:02:10	0.036	2511.11	75.54	277.05		
04-01-91	20:02:20	0.039	2513.28	77.71	277.05		
04-01-91	20:02:30	0.042	2515.20	79.63	277.05		
04-01-91	20:02:40	0.044	2516.82	81.25	277.05		
04-01-91	20:02:50	0.047	2518.31	82.74	277.05		
04-01-91	20:03:00	0.050	2519.48	83.91	277.05		
04-01-91	20:03:10	0.053	2520.64	85.07	277.05		
04-01-91	20:03:20	0.056	2521.57	86.00	277.05	2056	Csg = 0 PSIG
04-01-91	20:03:30	0.058	2522.43	86.86	277.05		
04-01-91	20:03:40	0.061	2523.21	87.64	277.05		
04-01-91	20:03:50	0.064	2523.95	88.38	277.05		
04-01-91	20:04:00	0.067	2524.59	89.02	277.05		
04-01-91	20:04:10	0.069	2525.18	89.61	277.05		
04-01-91	20:04:20	0.072	2525.74	90.17	277.05		
04-01-91	20:04:30	0.075	2526.23	90.66	277.05		
04-01-91	20:04:40	0.078	2526.64	91.07	277.05		
04-01-91	20:04:50	0.081	2527.19	91.62	277.05		
04-01-91	20:05:00	0.083	2527.54	91.97	277.05	2066	Csg = 0 PSIG
04-01-91	20:05:30	0.092	2528.72	93.15	278.14		
04-01-91	20:06:00	0.100	2530.01	94.44	278.13		30 SEC. SAMPLE RATE
04-01-91	20:06:30	0.108	2531.43	95.86	278.12		
04-01-91	20:07:00	0.117	2532.89	97.32	278.09		
04-01-91	20:07:30	0.125	2534.42	98.85	278.08		
04-01-91	20:08:00	0.133	2535.92	100.35	278.05		
04-01-91	20:08:30	0.142	2537.47	101.90	278.02		
04-01-91	20:09:00	0.150	2539.08	103.51	277.99		
04-01-91	20:09:30	0.158	2540.63	105.06	277.97		
04-01-91	20:10:00	0.167	2542.10	106.53	277.95		
04-01-91	20:10:30	0.175	2543.65	108.08	277.92	2066	Csg = 0 PSIG
04-01-91	20:11:00	0.183	2545.14	109.57	277.89		
04-01-91	20:11:30	0.192	2546.60	111.03	277.86		
04-01-91	20:12:00	0.200	2548.03	112.46	277.83		
04-01-91	20:12:30	0.208	2549.41	113.84	277.80		
04-01-91	20:13:00	0.217	2550.78	115.21	277.77		
04-01-91	20:13:30	0.225	2552.06	116.49	277.74		
04-01-91	20:14:00	0.233	2553.45	117.88	277.70		
04-01-91	20:14:30	0.242	2554.77	119.20	277.68		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	20:15:00	0.250	2555.97	120.40	277.65	2070	Csg = 0 PSIG
04-01-91	20:15:30	0.258	2557.25	121.68	277.62		
04-01-91	20:16:00	0.267	2558.47	122.90	277.59		
04-01-91	20:16:30	0.275	2559.67	124.10	277.56		
04-01-91	20:17:00	0.283	2560.76	125.19	277.54		
04-01-91	20:17:30	0.292	2561.82	126.25	277.51		
04-01-91	20:18:00	0.300	2562.83	127.26	277.49		
04-01-91	20:18:30	0.308	2563.74	128.17	277.46		
04-01-91	20:19:00	0.317	2564.68	129.11	277.43		
04-01-91	20:19:30	0.325	2565.61	130.04	277.41		
04-01-91	20:20:00	0.333	2566.46	130.89	277.39		
04-01-91	20:20:30	0.342	2567.39	131.82	277.36		
04-01-91	20:21:00	0.350	2568.26	132.69	277.34		
04-01-91	20:21:30	0.358	2569.18	133.61	277.32		
04-01-91	20:22:00	0.367	2570.09	134.52	277.29		
04-01-91	20:22:30	0.375	2570.91	135.34	277.28		
04-01-91	20:23:00	0.383	2571.80	136.23	277.25		
04-01-91	20:23:30	0.392	2572.84	137.27	277.24		
04-01-91	20:24:00	0.400	2573.95	138.38	277.22		
04-01-91	20:24:30	0.408	2575.08	139.51	277.20		
04-01-91	20:25:00	0.417	2576.09	140.52	277.17		
04-01-91	20:25:30	0.425	2577.28	141.71	277.16		
04-01-91	20:26:00	0.433	2578.36	142.79	277.15		
04-01-91	20:26:30	0.442	2579.41	143.84	277.13		
04-01-91	20:27:00	0.450	2580.44	144.87	277.12		
04-01-91	20:27:30	0.458	2581.53	145.96	277.11		
04-01-91	20:28:00	0.467	2582.55	146.98	277.09		
04-01-91	20:28:30	0.475	2583.54	147.97	277.08		
04-01-91	20:29:00	0.483	2584.62	149.05	277.06		
04-01-91	20:29:30	0.492	2585.54	149.97	277.04		
04-01-91	20:30:00	0.500	2586.57	151.00	277.04	2095	Csg = 0 PSIG
04-01-91	20:31:00	0.517	2588.47	152.90	277.01		1 MIN. SAMPLE RATE.
04-01-91	20:32:00	0.533	2590.42	154.85	276.97		
04-01-91	20:33:00	0.550	2592.39	156.82	276.96		
04-01-91	20:34:00	0.567	2594.38	158.81	276.93		
04-01-91	20:35:00	0.583	2596.21	160.64	276.91		
04-01-91	20:36:00	0.600	2597.98	162.41	276.89		
04-01-91	20:37:00	0.617	2599.56	163.99	276.87		
04-01-91	20:38:00	0.633	2601.08	165.51	276.85		
04-01-91	20:39:00	0.650	2602.46	166.89	276.83		
04-01-91	20:40:00	0.667	2603.62	168.05	276.81		
04-01-91	20:41:00	0.683	2604.75	169.18	276.79		
04-01-91	20:42:00	0.700	2605.57	170.00	276.77		
04-01-91	20:43:00	0.717	2606.14	170.57	276.75		
04-01-91	20:44:00	0.733	2606.31	170.74	276.72		
04-01-91	20:45:00	0.750	2606.02	170.45	276.70		
04-01-91	20:46:00	0.767	2605.61	170.04	276.67		
04-01-91	20:47:00	0.783	2604.82	169.25	276.63		
04-01-91	20:48:00	0.800	2603.96	168.39	276.59		
04-01-91	20:49:00	0.817	2602.84	167.27	276.56		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	20:50:00	0.833	2601.51	165.94	276.52		
04-01-91	20:51:00	0.850	2600.08	164.51	276.48		
04-01-91	20:52:00	0.867	2598.70	163.12	276.44		
04-01-91	20:53:00	0.883	2597.35	161.78	276.40		
04-01-91	20:54:00	0.900	2596.08	160.51	276.37		
04-01-91	20:55:00	0.917	2594.75	159.18	276.32		
04-01-91	20:56:00	0.933	2593.44	157.87	276.28		
04-01-91	20:57:00	0.950	2592.34	156.77	276.26		
04-01-91	20:58:00	0.967	2591.30	155.73	276.22		
04-01-91	20:59:00	0.983	2590.19	154.62	276.20		
04-01-91	21:00:00	1.000	2589.30	153.73	276.18	2117	Csg = 0 PSIG
04-01-91	21:01:00	1.017	2588.49	152.92	276.15		
04-01-91	21:02:00	1.033	2587.69	152.12	276.13		
04-01-91	21:03:00	1.050	2586.96	151.39	276.09		
04-01-91	21:04:00	1.067	2586.44	150.87	276.08		
04-01-91	21:05:00	1.083	2585.94	150.37	276.07		
04-01-91	21:06:00	1.100	2585.46	149.89	276.05		
04-01-91	21:07:00	1.117	2585.07	149.50	276.04		
04-01-91	21:08:00	1.133	2584.66	149.09	276.02		
04-01-91	21:09:00	1.150	2584.32	148.75	276.01		
04-01-91	21:10:00	1.167	2584.08	148.51	276.00		
04-01-91	21:11:00	1.183	2583.86	148.29	275.99		
04-01-91	21:12:00	1.200	2583.63	148.06	275.98		
04-01-91	21:13:00	1.217	2583.47	147.90	275.97		
04-01-91	21:14:00	1.233	2583.36	147.79	275.97		
04-01-91	21:15:00	1.250	2583.37	147.80	275.95		
04-01-91	21:16:00	1.267	2583.37	147.80	275.95		
04-01-91	21:17:00	1.283	2583.42	147.85	275.94		
04-01-91	21:18:00	1.300	2583.45	147.88	275.94		
04-01-91	21:19:00	1.317	2583.54	147.97	275.93		
04-01-91	21:20:00	1.333	2583.55	147.98	275.93		
04-01-91	21:21:00	1.350	2583.64	148.07	275.92		
04-01-91	21:22:00	1.367	2583.71	148.14	275.91		
04-01-91	21:23:00	1.383	2583.71	148.14	275.91		
04-01-91	21:24:00	1.400	2583.77	148.20	275.90		
04-01-91	21:25:00	1.417	2583.78	148.21	275.89		
04-01-91	21:26:00	1.433	2583.81	148.24	275.88		
04-01-91	21:27:00	1.450	2583.80	148.23	275.88		
04-01-91	21:28:00	1.467	2583.73	148.16	275.88		
04-01-91	21:29:00	1.483	2583.79	148.22	275.87		
04-01-91	21:30:00	1.500	2583.77	148.20	275.87		
04-01-91	21:31:00	1.517	2583.75	148.18	275.86		
04-01-91	21:32:00	1.533	2583.75	148.18	275.86		
04-01-91	21:33:00	1.550	2583.74	148.17	275.85		
04-01-91	21:34:00	1.567	2583.71	148.14	275.85		
04-01-91	21:35:00	1.583	2583.69	148.12	275.84		
04-01-91	21:36:00	1.600	2583.67	148.10	275.84		
04-01-91	21:37:00	1.617	2583.61	148.04	275.83		
04-01-91	21:38:00	1.633	2583.61	148.04	275.82		
04-01-91	21:39:00	1.650	2583.65	148.08	275.82		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 04-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
04-01-91	21:40:00	1.667	2583.68	148.11	275.81		
04-01-91	21:41:00	1.683	2583.63	148.06	275.81		
04-01-91	21:42:00	1.700	2583.64	148.07	275.80		
04-01-91	21:43:00	1.717	2583.62	148.05	275.80		
04-01-91	21:44:00	1.733	2583.63	148.06	275.80		
04-01-91	21:45:00	1.750	2583.67	148.10	275.78		
04-01-91	21:46:00	1.767	2583.67	148.10	275.80		
04-01-91	21:47:00	1.783	2583.69	148.12	275.79		
04-01-91	21:48:00	1.800	2583.71	148.14	275.78		
04-01-91	21:49:00	1.817	2583.75	148.18	275.78		
04-01-91	21:50:00	1.833	2583.75	148.18	275.77		
04-01-91	21:51:00	1.850	2583.80	148.23	275.78		
04-01-91	21:52:00	1.867	2583.80	148.23	275.77		
04-01-91	21:53:00	1.883	2583.80	148.23	275.77		
04-01-91	21:54:00	1.900	2583.90	148.33	275.76		
04-01-91	21:55:00	1.917	2583.86	148.29	275.77		
04-01-91	21:56:00	1.933	2583.94	148.37	275.76		
04-01-91	21:57:00	1.950	2583.94	148.37	275.76		
04-01-91	21:58:00	1.967	2584.01	148.44	275.76		
04-01-91	21:59:00	1.983	2584.06	148.49	275.76		
04-01-91	22:00:00	2.000	2584.12	148.55	275.76	2097	Csg = 0 PSIG
04-01-91	22:05:00	2.083	2584.36	148.79	275.74		
04-01-91	22:10:00	2.167	2584.64	149.07	275.75		
04-01-91	22:15:00	2.250	2585.02	149.45	275.75		
04-01-91	22:20:00	2.333	2585.47	149.90	275.74		
04-01-91	22:25:00	2.417	2585.97	150.40	275.73		
04-01-91	22:30:00	2.500	2586.45	150.88	275.73		
04-01-91	22:35:00	2.583	2586.91	151.34	275.74		
04-01-91	22:40:00	2.667	2587.33	151.76	275.73		
04-01-91	22:45:00	2.750	2587.63	152.06	275.73		
04-01-91	22:50:00	2.833	2587.81	152.24	275.73		
04-01-91	22:55:00	2.917	2587.80	152.23	275.74		
04-01-91	23:00:00	3.000	2587.91	152.34	275.73		
04-01-91	23:05:00	3.083	2588.06	152.49	275.72		
04-01-91	23:10:00	3.167	2588.05	152.48	275.71		
04-01-91	23:15:00	3.250	2588.09	152.52	275.70		
04-01-91	23:20:00	3.333	2588.03	152.46	275.70		
04-01-91	23:25:00	3.417	2588.04	152.47	275.69		
04-01-91	23:30:00	3.500	2588.01	152.44	275.69		
04-01-91	23:35:00	3.583	2588.02	152.45	275.68		
04-01-91	23:40:00	3.667	2587.95	152.38	275.68		
04-01-91	23:45:00	3.750	2587.88	152.31	275.68		
04-01-91	23:50:00	3.833	2588.05	152.48	275.67		
04-01-91	23:55:00	3.917	2588.19	152.62	275.66		
05-01-91	00:00:00	4.000	2588.30	152.73	275.65	2087	Csg = 0 PSIG
05-01-91	00:05:00	4.083	2588.37	152.80	275.66		
05-01-91	00:10:00	4.167	2588.53	152.96	275.66		
05-01-91	00:15:00	4.250	2588.59	153.02	275.66		
05-01-91	00:20:00	4.333	2588.74	153.17	275.65		
05-01-91	00:25:00	4.417	2588.90	153.33	275.66		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 05-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	00:30:00	4.500	2588.97	153.40	275.65		
05-01-91	00:35:00	4.583	2589.11	153.54	275.65		
05-01-91	00:40:00	4.667	2589.20	153.63	275.64		
05-01-91	00:45:00	4.750	2589.35	153.78	275.65		
05-01-91	00:50:00	4.833	2589.41	153.84	275.64		
05-01-91	00:55:00	4.917	2589.45	153.88	275.64		
05-01-91	01:00:00	5.000	2589.52	153.95	275.64		
05-01-91	01:05:00	5.083	2589.61	154.04	275.64		
05-01-91	01:10:00	5.167	2589.77	154.20	275.65		
05-01-91	01:15:00	5.250	2589.79	154.22	275.65		
05-01-91	01:20:00	5.333	2589.88	154.31	275.65		
05-01-91	01:25:00	5.417	2590.01	154.44	275.65		
05-01-91	01:30:00	5.500	2590.03	154.46	275.65		
05-01-91	01:35:00	5.583	2590.11	154.54	275.65		
05-01-91	01:40:00	5.667	2590.24	154.67	275.64		
05-01-91	01:45:00	5.750	2590.30	154.73	275.65		
05-01-91	01:50:00	5.833	2590.46	154.89	275.64		
05-01-91	01:55:00	5.917	2590.56	154.99	275.64		
05-01-91	02:00:00	6.000	2590.69	155.12	275.63		
05-01-91	02:05:00	6.083	2590.74	155.17	275.63		
05-01-91	02:10:00	6.167	2590.83	155.26	275.63		
05-01-91	02:15:00	6.250	2590.98	155.41	275.63		
05-01-91	02:20:00	6.333	2590.99	155.42	275.63		
05-01-91	02:25:00	6.417	2591.08	155.51	275.63		
05-01-91	02:30:00	6.500	2591.22	155.65	275.63		
05-01-91	02:35:00	6.583	2591.18	155.61	275.63		
05-01-91	02:40:00	6.667	2591.32	155.75	275.63		
05-01-91	02:45:00	6.750	2591.36	155.79	275.63		
05-01-91	02:50:00	6.833	2591.46	155.89	275.63		
05-01-91	02:55:00	6.917	2591.54	155.97	275.63		
05-01-91	03:00:00	7.000	2591.59	156.02	275.62		
05-01-91	03:05:00	7.083	2591.66	156.09	275.63		
05-01-91	03:10:00	7.167	2591.80	156.23	275.63		
05-01-91	03:15:00	7.250	2591.85	156.28	275.63		
05-01-91	03:20:00	7.333	2591.88	156.31	275.63		
05-01-91	03:25:00	7.417	2591.98	156.41	275.63		
05-01-91	03:30:00	7.500	2592.03	156.46	275.64		
05-01-91	03:35:00	7.583	2592.10	156.53	275.63		
05-01-91	03:40:00	7.667	2592.22	156.65	275.63		
05-01-91	03:45:00	7.750	2592.28	156.71	275.63		
05-01-91	03:50:00	7.833	2592.39	156.82	275.62		
05-01-91	03:55:00	7.917	2592.41	156.84	275.63		
05-01-91	04:00:00	8.000	2592.46	156.89	275.64		
05-01-91	04:05:00	8.083	2592.61	157.04	275.63		
05-01-91	04:10:00	8.167	2592.57	157.00	275.63		
05-01-91	04:15:00	8.250	2592.66	157.09	275.64		
05-01-91	04:20:00	8.333	2592.67	157.10	275.64		
05-01-91	04:25:00	8.417	2592.75	157.18	275.64		
05-01-91	04:30:00	8.500	2592.89	157.32	275.63		
05-01-91	04:35:00	8.583	2592.86	157.29	275.63		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	04:40:00	8.667	2592.98	157.41	275.63		
05-01-91	04:45:00	8.750	2592.96	157.39	275.63		
05-01-91	04:50:00	8.833	2593.07	157.50	275.64		
05-01-91	04:55:00	8.917	2593.09	157.52	275.64		
05-01-91	05:00:00	9.000	2593.17	157.60	275.65		
05-01-91	05:05:00	9.083	2593.25	157.68	275.63		
05-01-91	05:10:00	9.167	2593.18	157.61	275.64		
05-01-91	05:15:00	9.250	2593.26	157.69	275.64		
05-01-91	05:20:00	9.333	2593.32	157.75	275.65		
05-01-91	05:25:00	9.417	2593.32	157.75	275.65		
05-01-91	05:30:00	9.500	2593.37	157.80	275.65		
05-01-91	05:35:00	9.583	2593.37	157.80	275.65		
05-01-91	05:40:00	9.667	2593.50	157.93	275.66		
05-01-91	05:45:00	9.750	2593.51	157.94	275.65		
05-01-91	05:50:00	9.833	2593.58	158.01	275.66		
05-01-91	05:55:00	9.917	2593.63	158.06	275.65		
05-01-91	06:00:00	10.000	2593.63	158.06	275.65	2079	Csg = 0 PSIG
05-01-91	06:05:00	10.083	2593.67	158.10	275.65		
05-01-91	06:10:00	10.167	2593.73	158.16	275.65		
05-01-91	06:15:00	10.250	2593.78	158.21	275.65		
05-01-91	06:20:00	10.333	2593.81	158.24	275.65		
05-01-91	06:25:00	10.417	2593.89	158.32	275.65		
05-01-91	06:30:00	10.500	2593.94	158.37	275.65		
05-01-91	06:35:00	10.583	2594.00	158.43	275.65		
05-01-91	06:40:00	10.667	2594.07	158.50	275.65		
05-01-91	06:45:00	10.750	2594.12	158.55	275.65		
05-01-91	06:50:00	10.833	2594.22	158.65	275.64		
05-01-91	06:55:00	10.917	2594.18	158.61	275.65		
05-01-91	07:00:00	11.000	2594.27	158.70	275.65		
05-01-91	07:05:00	11.083	2594.27	158.70	275.65		
05-01-91	07:10:00	11.167	2594.24	158.67	275.65		
05-01-91	07:15:00	11.250	2594.24	158.67	275.66		
05-01-91	07:20:00	11.333	2594.32	158.75	275.65		
05-01-91	07:25:00	11.417	2594.31	158.74	275.66		
05-01-91	07:30:00	11.500	2594.35	158.78	275.66		
05-01-91	07:35:00	11.583	2594.41	158.84	275.66		
05-01-91	07:40:00	11.667	2594.44	158.87	275.67		
05-01-91	07:45:00	11.750	2594.49	158.92	275.67		
05-01-91	07:50:00	11.833	2594.57	159.00	275.66		
05-01-91	07:55:00	11.917	2594.60	159.03	275.66		
05-01-91	08:00:00	12.000	2594.64	159.07	275.66		
05-01-91	08:05:00	12.083	2594.71	159.14	275.66		
05-01-91	08:10:00	12.167	2594.70	159.13	275.66		
05-01-91	08:15:00	12.250	2594.71	159.14	275.66		
05-01-91	08:20:00	12.333	2594.80	159.23	275.66		
05-01-91	08:25:00	12.417	2594.84	159.27	275.67		
05-01-91	08:30:00	12.500	2594.85	159.28	275.66		
05-01-91	08:35:00	12.583	2594.84	159.27	275.67		
05-01-91	08:40:00	12.667	2594.87	159.30	275.67		
05-01-91	08:45:00	12.750	2594.93	159.36	275.66		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	08:50:00	12.833	2595.02	159.45	275.66		
05-01-91	08:55:00	12.917	2595.03	159.46	275.66		
05-01-91	09:00:00	13.000	2595.12	159.55	275.66		
05-01-91	09:05:00	13.083	2595.14	159.57	275.67		
05-01-91	09:10:00	13.167	2595.22	159.65	275.66		
05-01-91	09:15:00	13.250	2595.26	159.69	275.66		
05-01-91	09:20:00	13.333	2595.34	159.77	275.66		
05-01-91	09:25:00	13.417	2595.31	159.74	275.66		
05-01-91	09:30:00	13.500	2595.39	159.82	275.67		
05-01-91	09:35:00	13.583	2595.42	159.85	275.66		
05-01-91	09:40:00	13.667	2595.47	159.90	275.66		
05-01-91	09:45:00	13.750	2595.47	159.90	275.66		
05-01-91	09:50:00	13.833	2595.57	160.00	275.66		
05-01-91	09:55:00	13.917	2595.56	159.99	275.66		
05-01-91	10:00:00	14.000	2595.56	159.99	275.67	2086	Csg = 0 PSIG
05-01-91	10:05:00	14.083	2595.59	160.02	275.67		
05-01-91	10:10:00	14.167	2595.62	160.05	275.66		
05-01-91	10:15:00	14.250	2595.73	160.16	275.66		
05-01-91	10:20:00	14.333	2595.68	160.11	275.67		
05-01-91	10:25:00	14.417	2595.75	160.18	275.66		
05-01-91	10:30:00	14.500	2595.83	160.26	275.66		
05-01-91	10:35:00	14.583	2595.87	160.30	275.66		
05-01-91	10:40:00	14.667	2595.80	160.23	275.67		
05-01-91	10:45:00	14.750	2595.86	160.29	275.66		
05-01-91	10:50:00	14.833	2595.92	160.35	275.66		
05-01-91	10:55:00	14.917	2595.97	160.40	275.67		
05-01-91	11:00:00	15.000	2596.10	160.53	275.67		
05-01-91	11:05:00	15.083	2596.01	160.44	275.67		
05-01-91	11:10:00	15.167	2596.01	160.44	275.67		
05-01-91	11:15:00	15.250	2596.07	160.50	275.67		
05-01-91	11:20:00	15.333	2596.10	160.53	275.67		
05-01-91	11:25:00	15.417	2596.12	160.55	275.67		
05-01-91	11:30:00	15.500	2596.16	160.59	275.66		
05-01-91	11:35:00	15.583	2596.17	160.60	275.67		
05-01-91	11:40:00	15.667	2596.26	160.69	275.67		
05-01-91	11:45:00	15.750	2596.29	160.72	275.66	2080	Csg = 0 PSIG
05-01-91	11:50:00	15.833	2596.27	160.70	275.66		
05-01-91	11:55:00	15.917	2596.29	160.72	275.68		END BUILD-UP.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE FLOW ON 14/64" CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	12:00:00	0.000	2596.30	0.01	275.67		OPEN WELL ON 14/64" CHOKE.
05-01-91	12:01:00	0.017	2548.55	-47.75	275.66		
05-01-91	12:02:00	0.033	2515.45	-33.10	275.46		
05-01-91	12:03:00	0.050	2496.84	-18.61	275.15	2080	Csg = 0 PSIG
05-01-91	12:04:00	0.067	2484.87	-11.97	274.82		
05-01-91	12:05:00	0.083	2474.80	-10.08	274.37		DELTA T FROM START OF FLOW.
05-01-91	12:06:00	0.100	2467.69	-7.11	273.99		
05-01-91	12:07:00	0.117	2462.41	-5.28	273.73		
05-01-91	12:08:00	0.133	2458.04	-4.37	273.55		DELTA P FROM PREVIOUS READING.
05-01-91	12:09:00	0.150	2454.54	-3.49	273.45		
05-01-91	12:10:00	0.167	2451.59	-2.95	273.41		1 MIN. SAMPLE RATE
05-01-91	12:11:00	0.183	2449.28	-2.31	273.41		
05-01-91	12:12:00	0.200	2447.16	-2.12	273.45		
05-01-91	12:13:00	0.217	2445.05	-2.11	273.53		
05-01-91	12:14:00	0.233	2442.91	-2.14	273.62		
05-01-91	12:15:00	0.250	2440.85	-2.05	273.72	1935	Csg = 0 PSIG
05-01-91	12:16:00	0.267	2438.65	-2.21	273.84		
05-01-91	12:17:00	0.283	2436.56	-2.09	273.96		
05-01-91	12:18:00	0.300	2434.46	-2.10	274.08		
05-01-91	12:19:00	0.317	2432.29	-2.17	274.22		
05-01-91	12:20:00	0.333	2430.10	-2.19	274.34		
05-01-91	12:21:00	0.350	2428.18	-1.93	274.46		
05-01-91	12:22:00	0.367	2426.30	-1.87	274.57		
05-01-91	12:23:00	0.383	2424.61	-1.69	274.70		
05-01-91	12:24:00	0.400	2422.88	-1.74	274.80		
05-01-91	12:25:00	0.417	2421.33	-1.54	274.91		
05-01-91	12:26:00	0.433	2419.82	-1.52	275.01		
05-01-91	12:27:00	0.450	2418.44	-1.37	275.10		
05-01-91	12:28:00	0.467	2417.16	-1.28	275.19		
05-01-91	12:29:00	0.483	2415.92	-1.24	275.28		
05-01-91	12:30:00	0.500	2414.78	-1.14	275.37	1856	Csg = 0 PSIG
05-01-91	12:31:00	0.517	2413.98	-0.80	275.43		
05-01-91	12:32:00	0.533	2414.26	0.28	275.51		
05-01-91	12:33:00	0.550	2416.65	2.39	275.58		
05-01-91	12:34:00	0.567	2419.97	3.32	275.67		
05-01-91	12:35:00	0.583	2423.45	3.47	275.76		
05-01-91	12:36:00	0.600	2426.01	2.56	275.86		
05-01-91	12:37:00	0.617	2426.23	0.22	275.94		
05-01-91	12:38:00	0.633	2426.53	0.30	276.01		
05-01-91	12:39:00	0.650	2426.67	0.14	276.05		
05-01-91	12:40:00	0.667	2426.98	0.31	276.09		
05-01-91	12:41:00	0.683	2427.69	0.71	276.13		
05-01-91	12:42:00	0.700	2428.09	0.40	276.15		
05-01-91	12:43:00	0.717	2428.49	0.41	276.18		
05-01-91	12:44:00	0.733	2428.85	0.36	276.21		
05-01-91	12:45:00	0.750	2429.33	0.48	276.23		
05-01-91	12:46:00	0.767	2429.78	0.45	276.25		
05-01-91	12:47:00	0.783	2430.34	0.56	276.27		
05-01-91	12:48:00	0.800	2430.89	0.56	276.29		
05-01-91	12:49:00	0.817	2431.55	0.66	276.30		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE FLOW ON 14/64" CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	12:50:00	0.833	2432.19	0.63	276.33		
05-01-91	12:51:00	0.850	2432.85	0.67	276.34		
05-01-91	12:52:00	0.867	2433.63	0.77	276.35		
05-01-91	12:53:00	0.883	2434.29	0.67	276.36		
05-01-91	12:54:00	0.900	2435.10	0.81	276.37		
05-01-91	12:55:00	0.917	2435.78	0.67	276.39		
05-01-91	12:56:00	0.933	2436.55	0.78	276.39		
05-01-91	12:57:00	0.950	2437.31	0.75	276.41		
05-01-91	12:58:00	0.967	2438.08	0.78	276.41		
05-01-91	12:59:00	0.983	2438.85	0.77	276.42		
05-01-91	13:00:00	1.000	2439.53	0.68	276.42	1886	Csg = 0 PSIG
05-01-91	13:01:00	1.017	2440.22	0.69	276.43		
05-01-91	13:02:00	1.033	2440.86	0.65	276.43		
05-01-91	13:03:00	1.050	2441.61	0.75	276.44		
05-01-91	13:04:00	1.067	2442.31	0.70	276.44		
05-01-91	13:05:00	1.083	2442.96	0.65	276.44		5 MIN. SAMPLE RATE.
05-01-91	13:10:00	1.167	2446.14	3.18	276.43		
05-01-91	13:15:00	1.250	2447.79	1.64	276.43		
05-01-91	13:20:00	1.333	2449.13	1.34	276.40		
05-01-91	13:25:00	1.417	2449.18	0.05	276.37		
05-01-91	13:30:00	1.500	2448.88	-0.30	276.36	1926	Csg = 0 PSIG
05-01-91	13:35:00	1.583	2448.09	-0.79	276.35		
05-01-91	13:40:00	1.667	2447.15	-0.93	276.35		
05-01-91	13:45:00	1.750	2446.33	-0.82	276.35		
05-01-91	13:50:00	1.833	2444.80	-1.53	276.37		
05-01-91	13:55:00	1.917	2444.01	-0.79	276.39		
05-01-91	14:00:00	2.000	2443.27	-0.74	276.42	1933	Csg = 0 PSIG
05-01-91	14:05:00	2.083	2443.62	0.35	276.45		
05-01-91	14:10:00	2.167	2443.70	0.08	276.49		
05-01-91	14:15:00	2.250	2444.48	0.77	276.53		
05-01-91	14:20:00	2.333	2444.88	0.40	276.55		
05-01-91	14:25:00	2.417	2445.64	0.76	276.58		
05-01-91	14:30:00	2.500	2446.45	0.82	276.61	1940	Csg = 0 PSIG
05-01-91	14:35:00	2.583	2446.90	0.45	276.64		
05-01-91	14:40:00	2.667	2447.84	0.95	276.66		
05-01-91	14:45:00	2.750	2448.12	0.28	276.69		
05-01-91	14:50:00	2.833	2449.19	1.06	276.70		
05-01-91	14:55:00	2.917	2449.37	0.18	276.72		
05-01-91	15:00:00	3.000	2450.19	0.82	276.76	1940	Csg = 0 PSIG
05-01-91	15:05:00	3.083	2450.58	0.39	276.77		
05-01-91	15:10:00	3.167	2450.90	0.31	276.79		
05-01-91	15:15:00	3.250	2451.06	0.16	276.80		
05-01-91	15:20:00	3.333	2451.35	0.29	276.83		
05-01-91	15:25:00	3.417	2451.80	0.45	276.84		
05-01-91	15:30:00	3.500	2452.08	0.27	276.86	1940	Csg = 0 PSIG
05-01-91	15:35:00	3.583	2452.50	0.42	276.88		
05-01-91	15:40:00	3.667	2452.87	0.37	276.90		
05-01-91	15:45:00	3.750	2453.24	0.37	276.92		
05-01-91	15:50:00	3.833	2453.48	0.24	276.94		
05-01-91	15:55:00	3.917	2453.55	0.07	276.96		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE FLOW ON 14/64" CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	16:00:00	4.000	2453.71	0.16	276.97	1940	Csg = 0 PSIG
05-01-91	16:05:00	4.083	2454.13	0.42	276.99		
05-01-91	16:10:00	4.167	2454.34	0.21	277.01		
05-01-91	16:15:00	4.250	2454.54	0.20	277.03		
05-01-91	16:20:00	4.333	2455.03	0.49	277.05		
05-01-91	16:25:00	4.417	2455.32	0.30	277.06		
05-01-91	16:30:00	4.500	2455.73	0.40	277.08	1941	Csg = 0 PSIG
05-01-91	16:35:00	4.583	2456.22	0.50	277.10		
05-01-91	16:40:00	4.667	2456.64	0.41	277.11		
05-01-91	16:45:00	4.750	2456.88	0.24	277.12		
05-01-91	16:50:00	4.833	2456.97	0.09	277.13		
05-01-91	16:55:00	4.917	2457.21	0.24	277.15		
05-01-91	17:00:00	5.000	2456.75	-0.46	277.16	1942	Csg = 0 PSIG
05-01-91	17:05:00	5.083	2457.12	0.37	277.17		
05-01-91	17:10:00	5.167	2457.69	0.57	277.19		
05-01-91	17:15:00	5.250	2458.40	0.71	277.22		
05-01-91	17:20:00	5.333	2459.25	0.85	277.22		
05-01-91	17:25:00	5.417	2459.96	0.71	277.24		
05-01-91	17:30:00	5.500	2460.67	0.70	277.26	1935	Csg = 0 PSIG
05-01-91	17:35:00	5.583	2461.24	0.57	277.27		
05-01-91	17:40:00	5.667	2461.89	0.66	277.28		
05-01-91	17:45:00	5.750	2462.45	0.55	277.29		
05-01-91	17:50:00	5.833	2463.03	0.58	277.30		
05-01-91	17:55:00	5.917	2463.54	0.52	277.32		
05-01-91	18:00:00	6.000	2464.11	0.57	277.33	1930	Csg = 0 PSIG
05-01-91	18:05:00	6.083	2464.70	0.59	277.35		
05-01-91	18:10:00	6.167	2465.27	0.57	277.35		
05-01-91	18:15:00	6.250	2465.83	0.56	277.37		
05-01-91	18:20:00	6.333	2466.26	0.42	277.38		
05-01-91	18:25:00	6.417	2466.77	0.51	277.39		
05-01-91	18:30:00	6.500	2467.26	0.49	277.40	1920	Csg = 0 PSIG
05-01-91	18:35:00	6.583	2467.82	0.56	277.41		
05-01-91	18:40:00	6.667	2468.54	0.73	277.42		
05-01-91	18:45:00	6.750	2469.18	0.64	277.43		
05-01-91	18:50:00	6.833	2469.59	0.41	277.44		
05-01-91	18:55:00	6.917	2470.13	0.54	277.45		
05-01-91	19:00:00	7.000	2470.45	0.33	277.46	1915	Csg = 0 PSIG
05-01-91	19:05:00	7.083	2470.83	0.38	277.47		
05-01-91	19:10:00	7.167	2471.24	0.41	277.48		
05-01-91	19:15:00	7.250	2471.64	0.40	277.49		
05-01-91	19:20:00	7.333	2471.81	0.17	277.49		
05-01-91	19:25:00	7.417	2471.99	0.18	277.51		
05-01-91	19:30:00	7.500	2472.21	0.22	277.52	1910	Csg = 0 PSIG
05-01-91	19:35:00	7.583	2472.60	0.39	277.53		
05-01-91	19:40:00	7.667	2473.02	0.42	277.54		
05-01-91	19:45:00	7.750	2473.24	0.22	277.55	1905	Csg = 0 PSIG
05-01-91	19:50:00	7.833	2473.42	0.18	277.56		
05-01-91	19:55:00	7.917	2473.73	0.31	277.56		END 1st FLOW PERIOD

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	20:00:00	8.000	2473.93	0.00	277.58	1905	SHUT WELL IN.
05-01-91	20:00:10	8.003	2473.93	0.00	277.59		
05-01-91	20:00:20	8.006	2480.04	6.11	277.59		Csg = 0 PSIG
05-01-91	20:00:30	8.008	2488.30	14.37	277.59		
05-01-91	20:00:40	8.011	2495.49	21.56	277.59		DELTA T FROM START OF ISOCHRONAL.
05-01-91	20:00:50	8.014	2501.80	27.87	277.59		
05-01-91	20:01:00	8.017	2507.59	33.66	277.59		
05-01-91	20:01:10	8.019	2513.11	39.18	277.59		DELTA P FROM SHUT-IN.
05-01-91	20:01:20	8.022	2518.18	44.25	277.59		10 SEC. SAMPLE RATE
05-01-91	20:01:30	8.025	2522.77	48.84	277.59		
05-01-91	20:01:40	8.028	2526.89	52.96	277.59		
05-01-91	20:01:50	8.031	2530.60	56.67	277.59		
05-01-91	20:02:00	8.033	2533.91	59.98	277.59		
05-01-91	20:02:10	8.036	2536.79	62.86	277.59		
05-01-91	20:02:20	8.039	2539.21	65.28	277.59		
05-01-91	20:02:30	8.042	2541.24	67.31	277.59		
05-01-91	20:02:40	8.044	2543.60	69.67	277.59		
05-01-91	20:02:50	8.047	2545.78	71.85	277.59		
05-01-91	20:03:00	8.050	2547.54	73.61	277.59		
05-01-91	20:03:10	8.053	2549.20	75.27	277.59		
05-01-91	20:03:20	8.056	2550.49	76.56	277.59	2006	Csg = 0 PSIG
05-01-91	20:03:30	8.058	2551.64	77.71	277.59		
05-01-91	20:03:40	8.061	2552.59	78.66	277.59		
05-01-91	20:03:50	8.064	2553.44	79.51	277.59		
05-01-91	20:04:00	8.067	2554.17	80.24	277.59		
05-01-91	20:04:10	8.069	2554.86	80.93	277.59		
05-01-91	20:04:20	8.072	2555.35	81.42	277.59		
05-01-91	20:04:30	8.075	2555.83	81.90	277.59		
05-01-91	20:04:40	8.078	2556.27	82.34	277.59		
05-01-91	20:04:50	8.081	2556.70	82.77	277.59		
05-01-91	20:05:00	8.083	2557.01	83.09	277.59	2023	Csg = 0 PSIG
05-01-91	20:05:30	8.092	2557.64	83.71	278.32		
05-01-91	20:06:00	8.100	2558.22	84.29	278.28		30 SEC. SAMPLE RATE
05-01-91	20:06:30	8.108	2558.80	84.87	278.23		
05-01-91	20:07:00	8.117	2559.41	85.48	278.19		
05-01-91	20:07:30	8.125	2560.10	86.17	278.15		
05-01-91	20:08:00	8.133	2560.80	86.87	278.11		
05-01-91	20:08:30	8.142	2561.61	87.68	278.08		
05-01-91	20:09:00	8.150	2562.41	88.48	278.04		
05-01-91	20:09:30	8.158	2563.24	89.31	278.01		
05-01-91	20:10:00	8.167	2563.97	90.04	277.98		
05-01-91	20:10:30	8.175	2564.75	90.82	277.95	2023	Csg = 0 PSIG
05-01-91	20:11:00	8.183	2565.58	91.65	277.93		
05-01-91	20:11:30	8.192	2566.34	92.41	277.90		
05-01-91	20:12:00	8.200	2567.12	93.19	277.87		
05-01-91	20:12:30	8.208	2567.92	93.99	277.85		
05-01-91	20:13:00	8.217	2568.76	94.83	277.82		
05-01-91	20:13:30	8.225	2569.34	95.41	277.80		
05-01-91	20:14:00	8.233	2570.01	96.08	277.78		
05-01-91	20:14:30	8.242	2570.58	96.65	277.75		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMAT: ON: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	20:15:00	8.250	2571.08	97.15	277.73	2043	Csg = 0 PSIG
05-01-91	20:15:30	8.258	2571.46	97.53	277.70		
05-01-91	20:16:00	8.267	2572.16	98.23	277.68		
05-01-91	20:16:30	8.275	2572.96	99.03	277.66		
05-01-91	20:17:00	8.283	2573.72	99.79	277.63		
05-01-91	20:17:30	8.292	2574.62	100.69	277.61		
05-01-91	20:18:00	8.300	2575.25	101.32	277.59		
05-01-91	20:18:30	8.308	2575.90	101.97	277.57		
05-01-91	20:19:00	8.317	2576.55	102.62	277.54		
05-01-91	20:19:30	8.325	2576.99	103.06	277.52		
05-01-91	20:20:00	8.333	2577.54	103.61	277.50		
05-01-91	20:20:30	8.342	2578.00	104.07	277.48		
05-01-91	20:21:00	8.350	2578.39	104.46	277.46		
05-01-91	20:21:30	8.358	2578.82	104.89	277.43		
05-01-91	20:22:00	8.367	2579.20	105.27	277.41		
05-01-91	20:22:30	8.375	2579.51	105.58	277.38		
05-01-91	20:23:00	8.383	2579.71	105.78	277.35		
05-01-91	20:23:30	8.392	2580.01	106.08	277.33		
05-01-91	20:24:00	8.400	2580.21	106.28	277.30		
05-01-91	20:24:30	8.408	2580.43	106.50	277.27		
05-01-91	20:25:00	8.417	2580.69	106.76	277.24		
05-01-91	20:25:30	8.425	2580.98	107.05	277.21		
05-01-91	20:26:00	8.433	2581.14	107.21	277.19		
05-01-91	20:26:30	8.442	2581.70	107.77	277.15		
05-01-91	20:27:00	8.450	2582.60	108.67	277.20		
05-01-91	20:27:30	8.458	2583.54	109.61	277.11		
05-01-91	20:28:00	8.467	2584.51	110.58	277.09		
05-01-91	20:28:30	8.475	2585.37	111.44	277.07		
05-01-91	20:29:00	8.483	2586.35	112.42	277.06		
05-01-91	20:29:30	8.492	2587.31	113.38	277.05		
05-01-91	20:30:00	8.500	2588.45	114.52	277.04	2088	Csg = 0 PSIG 1 MIN. SAMPLE RATE.
05-01-91	20:31:00	8.517	2590.80	116.87	277.02		
05-01-91	20:32:00	8.533	2593.15	119.22	277.02		
05-01-91	20:33:00	8.550	2595.36	121.43	277.03		
05-01-91	20:34:00	8.567	2597.50	123.57	277.04		
05-01-91	20:35:00	8.583	2599.60	125.67	277.05		
05-01-91	20:36:00	8.600	2601.58	127.65	277.07		
05-01-91	20:37:00	8.617	2603.50	129.57	277.08		
05-01-91	20:38:00	8.633	2605.37	131.44	277.08		
05-01-91	20:39:00	8.650	2607.11	133.18	277.09		
05-01-91	20:40:00	8.667	2608.87	134.94	277.09		
05-01-91	20:41:00	8.683	2610.54	136.61	277.09		
05-01-91	20:42:00	8.700	2612.13	138.20	277.10		
05-01-91	20:43:00	8.717	2613.62	139.69	277.11		
05-01-91	20:44:00	8.733	2615.14	141.21	277.11		
05-01-91	20:45:00	8.750	2616.63	142.70	277.10		
05-01-91	20:46:00	8.767	2617.98	144.05	277.10		
05-01-91	20:47:00	8.783	2619.35	145.42	277.10		
05-01-91	20:48:00	8.800	2620.60	146.67	277.10		
05-01-91	20:49:00	8.817	2621.83	147.90	277.10		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	20:50:00	8.833	2623.08	149.15	277.10	2122	Csg = 0 PSIG
05-01-91	20:51:00	8.850	2624.23	150.30	277.10		
05-01-91	20:52:00	8.867	2625.38	151.45	277.09		
05-01-91	20:53:00	8.883	2626.50	152.57	277.08		
05-01-91	20:54:00	8.900	2627.51	153.58	277.08		
05-01-91	20:55:00	8.917	2628.56	154.63	277.07		
05-01-91	20:56:00	8.933	2629.59	155.66	277.06		
05-01-91	20:57:00	8.950	2630.55	156.62	277.06		
05-01-91	20:58:00	8.967	2631.49	157.56	277.05		
05-01-91	20:59:00	8.983	2632.42	158.49	277.05		
05-01-91	21:00:00	9.000	2633.28	159.35	277.04		
05-01-91	21:01:00	9.017	2634.14	160.21	277.04		
05-01-91	21:02:00	9.033	2635.00	161.07	277.03		
05-01-91	21:03:00	9.050	2635.80	161.87	277.02		
05-01-91	21:04:00	9.067	2636.62	162.69	277.02		
05-01-91	21:05:00	9.083	2637.39	163.46	277.01		
05-01-91	21:06:00	9.100	2638.17	164.24	277.00		
05-01-91	21:07:00	9.117	2638.92	164.99	277.00		
05-01-91	21:08:00	9.133	2639.67	165.74	276.99		
05-01-91	21:09:00	9.150	2640.37	166.44	276.98		
05-01-91	21:10:00	9.167	2641.18	167.25	276.98		
05-01-91	21:11:00	9.183	2641.97	168.04	276.97		
05-01-91	21:12:00	9.200	2642.76	168.83	276.97		
05-01-91	21:13:00	9.217	2643.68	169.75	276.97		
05-01-91	21:14:00	9.233	2644.74	170.81	276.96		
05-01-91	21:15:00	9.250	2646.02	172.09	276.96		
05-01-91	21:16:00	9.267	2647.20	173.27	276.96		
05-01-91	21:17:00	9.283	2648.43	174.50	276.96		
05-01-91	21:18:00	9.300	2649.55	175.62	276.97		
05-01-91	21:19:00	9.317	2650.53	176.60	276.97		
05-01-91	21:20:00	9.333	2651.40	177.47	276.96		
05-01-91	21:21:00	9.350	2652.07	178.14	276.97		
05-01-91	21:22:00	9.367	2652.18	178.25	276.96		
05-01-91	21:23:00	9.383	2652.11	178.18	276.95		
05-01-91	21:24:00	9.400	2651.77	177.84	276.94		
05-01-91	21:25:00	9.417	2651.14	177.21	276.93		
05-01-91	21:26:00	9.433	2650.38	176.45	276.91		
05-01-91	21:27:00	9.450	2649.39	175.46	276.89		
05-01-91	21:28:00	9.467	2648.26	174.33	276.86		
05-01-91	21:29:00	9.483	2646.97	173.04	276.84	2130	Csg = 0 PSIG
05-01-91	21:30:00	9.500	2645.51	171.58	276.81		
05-01-91	21:31:00	9.517	2644.04	170.11	276.78		
05-01-91	21:32:00	9.533	2642.49	168.56	276.75		
05-01-91	21:33:00	9.550	2640.91	166.98	276.72		
05-01-91	21:34:00	9.567	2639.37	165.44	276.70		
05-01-91	21:35:00	9.583	2637.84	163.91	276.66		
05-01-91	21:36:00	9.600	2636.29	162.36	276.64		
05-01-91	21:37:00	9.617	2634.88	160.95	276.61		
05-01-91	21:38:00	9.633	2633.39	159.46	276.59		
05-01-91	21:39:00	9.650	2631.97	158.04	276.57		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 05-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
05-01-91	21:40:00	9.667	2630.61	156.68	276.55		
05-01-91	21:41:00	9.683	2629.27	155.34	276.53		
05-01-91	21:42:00	9.700	2628.00	154.07	276.51		
05-01-91	21:43:00	9.717	2626.82	152.89	276.48		
05-01-91	21:44:00	9.733	2625.58	151.65	276.47		
05-01-91	21:45:00	9.750	2624.55	150.62	276.45		
05-01-91	21:46:00	9.767	2623.40	149.47	276.44		
05-01-91	21:47:00	9.783	2622.42	148.49	276.43		
05-01-91	21:48:00	9.800	2621.47	147.54	276.41		
05-01-91	21:49:00	9.817	2620.60	146.67	276.40		
05-01-91	21:50:00	9.833	2619.73	145.80	276.39		
05-01-91	21:51:00	9.850	2618.83	144.90	276.39		
05-01-91	21:52:00	9.867	2618.03	144.10	276.37		
05-01-91	21:53:00	9.883	2617.35	143.42	276.36		
05-01-91	21:54:00	9.900	2616.59	142.66	276.36		
05-01-91	21:55:00	9.917	2616.01	142.08	276.35		
05-01-91	21:56:00	9.933	2615.35	141.42	276.34		
05-01-91	21:57:00	9.950	2614.77	140.84	276.33		
05-01-91	21:58:00	9.967	2614.20	140.27	276.34		
05-01-91	21:59:00	9.983	2613.66	139.73	276.32		
05-01-91	22:00:00	10.000	2613.26	139.33	276.32	2104	Csg = 0 PSIG
05-01-91	22:05:00	10.083	2611.21	137.28	276.30		
05-01-91	22:10:00	10.167	2609.83	135.90	276.29		5 MIN. SAMPLE RATE.
05-01-91	22:15:00	10.250	2608.86	134.93	276.29		
05-01-91	22:20:00	10.333	2608.27	134.34	276.29		
05-01-91	22:25:00	10.417	2608.01	134.08	276.29		
05-01-91	22:30:00	10.500	2607.94	134.01	276.29	2100	Csg = 0 PSIG
05-01-91	22:35:00	10.583	2608.00	134.07	276.29		
05-01-91	22:40:00	10.667	2608.28	134.35	276.31		
05-01-91	22:45:00	10.750	2608.65	134.72	276.30		
05-01-91	22:50:00	10.833	2608.98	135.05	276.31		
05-01-91	22:55:00	10.917	2609.35	135.42	276.31		
05-01-91	23:00:00	11.000	2609.60	135.67	276.31	2100	Csg = 0 PSIG
05-01-91	23:05:00	11.083	2609.71	135.78	276.31		
05-01-91	23:10:00	11.167	2609.64	135.71	276.30		
05-01-91	23:15:00	11.250	2609.54	135.61	276.29		
05-01-91	23:20:00	11.333	2609.30	135.37	276.27		
05-01-91	23:25:00	11.417	2609.02	135.09	276.27		
05-01-91	23:30:00	11.500	2608.66	134.73	276.25	2099	Csg = 0 PSIG
05-01-91	23:35:00	11.583	2608.28	134.35	276.25		
05-01-91	23:40:00	11.667	2607.96	134.03	276.23		
05-01-91	23:45:00	11.750	2607.66	133.73	276.22		
05-01-91	23:50:00	11.833	2607.33	133.40	276.21		
05-01-91	23:55:00	11.917	2607.02	133.09	276.21		
06-01-91	00:00:00	12.000	2606.79	132.86	276.20	2098	Csg = 0 PSIG
06-01-91	00:10:00	12.167	2606.36	132.43	276.21		10 MIN. SAMPLE RATE
06-01-91	00:20:00	12.333	2605.98	132.05	276.19		
06-01-91	00:30:00	12.500	2605.74	131.81	276.17	2096	Csg = 0 PSIG
06-01-91	00:40:00	12.667	2605.44	131.51	276.17		
06-01-91	00:50:00	12.833	2605.21	131.28	276.16		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	01:00:00	13.000	2604.93	131.00	276.16	2095	Csg = 0 PSIG
06-01-91	01:10:00	13.167	2604.73	130.80	276.15		
06-01-91	01:20:00	13.333	2604.49	130.56	276.15		
06-01-91	01:30:00	13.500	2604.19	130.26	276.13	2094	Csg = 0 PSIG
06-01-91	01:40:00	13.667	2603.92	129.99	276.13		
06-01-91	01:50:00	13.833	2603.71	129.78	276.12		
06-01-91	02:00:00	14.000	2603.46	129.53	276.11	2093	Csg = 0 PSIG
06-01-91	02:10:00	14.167	2603.24	129.31	276.12		
06-01-91	02:20:00	14.333	2602.95	129.02	276.11		
06-01-91	02:30:00	14.500	2602.80	128.87	276.11	2098	Csg = 0 PSIG
06-01-91	02:40:00	14.667	2602.69	128.76	276.10		
06-01-91	02:50:00	14.833	2602.43	128.50	276.10		
06-01-91	03:00:00	15.000	2602.27	128.34	276.09	2091	Csg = 0 PSIG
06-01-91	03:10:00	15.167	2602.09	128.16	276.09		
06-01-91	03:20:00	15.333	2601.94	128.00	276.08		
06-01-91	03:30:00	15.500	2601.85	127.92	276.07	2090	Csg = 0 PSIG
06-01-91	03:40:00	15.667	2601.90	127.97	276.07		
06-01-91	03:50:00	15.833	2601.77	127.84	276.06		END 1st SHUT-IN.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	04:00:00	16.000	2601.65	2601.65	276.06		OPEN WELL ON 26/64" CHOKE.
06-01-91	04:01:00	16.017	2546.49	-55.16	276.05		
06-01-91	04:02:00	16.033	2502.56	-43.93	275.83		
06-01-91	04:03:00	16.050	2471.03	-31.53	275.41	2090	Csg = 0 PSIG
06-01-91	04:04:00	16.067	2447.15	-23.87	274.99		
06-01-91	04:05:00	16.083	2427.31	-19.85	274.54	1947	Csg = 0 PSIG
06-01-91	04:06:00	16.100	2391.57	-35.74	274.09		
06-01-91	04:07:00	16.117	2341.30	-50.27	273.62		DELTA T FROM START OF ISOCHRONAL.
06-01-91	04:08:00	16.133	2298.68	-42.63	273.00		
06-01-91	04:09:00	16.150	2264.43	-34.25	272.42		
06-01-91	04:10:00	16.167	2236.89	-27.54	272.00	1740	Csg = 0 PSIG
06-01-91	04:11:00	16.183	2210.58	-26.31	271.75		
06-01-91	04:12:00	16.200	2147.98	-62.59	271.58		DELTA P FROM PREVIOUS READING.
06-01-91	04:13:00	16.217	2092.28	-55.71	271.30		
06-01-91	04:14:00	16.233	2045.12	-47.15	271.01		
06-01-91	04:15:00	16.250	2004.87	-40.25	270.82	1508	Csg = 0 PSIG
06-01-91	04:16:00	16.267	1964.92	-39.95	270.74		
06-01-91	04:17:00	16.283	1919.74	-45.18	270.69		1 MIN. SAMPLE RATE.
06-01-91	04:18:00	16.300	1878.98	-40.76	270.62		
06-01-91	04:19:00	16.317	1852.46	-26.52	270.59		
06-01-91	04:20:00	16.333	1833.27	-19.19	270.64	1350	Csg = 0 PSIG
06-01-91	04:21:00	16.350	1814.86	-18.41	270.77		
06-01-91	04:22:00	16.367	1788.48	-26.38	270.89		
06-01-91	04:23:00	16.383	1765.73	-22.75	270.92		
06-01-91	04:24:00	16.400	1747.49	-18.24	270.91		
06-01-91	04:25:00	16.417	1735.83	-11.66	270.91		
06-01-91	04:26:00	16.433	1727.57	-8.26	270.95		
06-01-91	04:27:00	16.450	1722.52	-5.06	271.00		
06-01-91	04:28:00	16.467	1719.59	-2.93	271.07		
06-01-91	04:29:00	16.483	1717.99	-1.59	271.15		
06-01-91	04:30:00	16.500	1717.15	-0.84	271.20	1270	Csg = 0 PSIG
06-01-91	04:31:00	16.517	1716.95	-0.20	271.25		
06-01-91	04:32:00	16.533	1717.48	0.53	271.27		
06-01-91	04:33:00	16.550	1718.64	1.16	271.28		
06-01-91	04:34:00	16.567	1720.53	1.89	271.26		
06-01-91	04:35:00	16.583	1723.30	2.77	271.23		
06-01-91	04:36:00	16.600	1726.26	2.96	271.18		
06-01-91	04:37:00	16.617	1729.66	3.40	271.12		
06-01-91	04:38:00	16.633	1733.83	4.17	271.05		
06-01-91	04:39:00	16.650	1738.11	4.29	270.97		
06-01-91	04:40:00	16.667	1742.82	4.70	270.90		
06-01-91	04:41:00	16.683	1747.73	4.91	270.81		
06-01-91	04:42:00	16.700	1752.77	5.04	270.72		
06-01-91	04:43:00	16.717	1758.02	5.25	270.62		
06-01-91	04:44:00	16.733	1763.16	5.14	270.52		
06-01-91	04:45:00	16.750	1768.33	5.17	270.42		
06-01-91	04:46:00	16.767	1773.45	5.12	270.32		
06-01-91	04:47:00	16.783	1778.51	5.06	270.22		
06-01-91	04:48:00	16.800	1783.30	4.79	270.13		
06-01-91	04:49:00	16.817	1787.91	4.61	270.03		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	04:50:00	16.833	1792.14	4.22	269.94		
06-01-91	04:51:00	16.850	1796.33	4.20	269.85		
06-01-91	04:52:00	16.867	1800.78	4.45	269.77		
06-01-91	04:53:00	16.883	1804.31	3.53	269.69		
06-01-91	04:54:00	16.900	1807.95	3.64	269.61		
06-01-91	04:55:00	16.917	1811.43	3.48	269.55		
06-01-91	04:56:00	16.933	1815.02	3.59	269.48		
06-01-91	04:57:00	16.950	1817.88	2.87	269.42		
06-01-91	04:58:00	16.967	1820.89	3.00	269.36		
06-01-91	04:59:00	16.983	1823.65	2.77	269.31		
06-01-91	05:00:00	17.000	1826.17	2.51	269.27	1336	Csg = 0 PSIG
06-01-91	05:01:00	17.017	1828.73	2.56	269.22		
06-01-91	05:02:00	17.033	1831.24	2.51	269.18		
06-01-91	05:03:00	17.050	1833.65	2.40	269.15		
06-01-91	05:04:00	17.067	1835.94	2.29	269.11		
06-01-91	05:05:00	17.083	1838.22	2.28	269.09		
06-01-91	05:06:00	17.100	1840.51	2.29	269.07		
06-01-91	05:07:00	17.117	1842.64	2.13	269.05		
06-01-91	05:08:00	17.133	1844.68	2.04	269.03		
06-01-91	05:09:00	17.150	1846.83	2.15	269.01		
06-01-91	05:10:00	17.167	1848.89	2.06	269.00		
06-01-91	05:11:00	17.183	1850.91	2.03	268.99		
06-01-91	05:12:00	17.200	1852.86	1.95	268.98		
06-01-91	05:13:00	17.217	1854.83	1.97	268.97		
06-01-91	05:14:00	17.233	1856.74	1.91	268.97		
06-01-91	05:15:00	17.250	1858.55	1.81	268.97		
06-01-91	05:16:00	17.267	1860.46	1.91	268.97		
06-01-91	05:17:00	17.283	1862.20	1.74	268.96		
06-01-91	05:18:00	17.300	1863.94	1.74	268.97		
06-01-91	05:19:00	17.317	1865.61	1.68	268.97		
06-01-91	05:20:00	17.333	1867.30	1.68	268.97		
06-01-91	05:21:00	17.350	1868.94	1.65	268.98		
06-01-91	05:22:00	17.367	1870.58	1.63	268.98		
06-01-91	05:23:00	17.383	1872.22	1.64	268.98		
06-01-91	05:24:00	17.400	1873.85	1.63	268.99		
06-01-91	05:25:00	17.417	1875.36	1.51	269.00		
06-01-91	05:26:00	17.433	1876.85	1.49	269.00		
06-01-91	05:27:00	17.450	1878.36	1.51	269.01		
06-01-91	05:28:00	17.467	1879.86	1.50	269.01		
06-01-91	05:29:00	17.483	1881.30	1.44	269.02		
06-01-91	05:30:00	17.500	1882.73	1.43	269.04	1380	Csg = 0 PSIG
06-01-91	05:31:00	17.517	1884.07	1.35	269.04		
06-01-91	05:32:00	17.533	1885.45	1.38	269.05		
06-01-91	05:33:00	17.550	1886.85	1.40	269.06		
06-01-91	05:34:00	17.567	1888.16	1.31	269.07		
06-01-91	05:35:00	17.583	1889.55	1.39	269.08		
06-01-91	05:36:00	17.600	1890.85	1.30	269.10		
06-01-91	05:37:00	17.617	1892.19	1.33	269.11		
06-01-91	05:38:00	17.633	1893.50	1.31	269.12		
06-01-91	05:39:00	17.650	1894.77	1.28	269.13		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	04:50:00	16.833	1792.14	-106.43	269.94		
06-01-91	04:51:00	16.850	1796.33	4.20	269.85		
06-01-91	04:52:00	16.867	1800.78	4.45	269.77		
06-01-91	04:53:00	16.883	1804.31	3.53	269.69		
06-01-91	04:54:00	16.900	1807.95	3.64	269.61		
06-01-91	04:55:00	16.917	1811.43	3.48	269.55		
06-01-91	04:56:00	16.933	1815.02	3.59	269.48		
06-01-91	04:57:00	16.950	1817.88	2.87	269.42		
06-01-91	04:58:00	16.967	1820.89	3.00	269.36		
06-01-91	04:59:00	16.983	1823.65	2.77	269.31		
06-01-91	05:00:00	17.000	1826.17	2.51	269.27	1336	Csg = 0 PSIG
06-01-91	05:01:00	17.017	1828.73	2.56	269.22		
06-01-91	05:02:00	17.033	1831.24	2.51	269.18		
06-01-91	05:03:00	17.050	1833.65	2.40	269.15		
06-01-91	05:04:00	17.067	1835.94	2.29	269.11		
06-01-91	05:05:00	17.083	1838.22	2.28	269.09		
06-01-91	05:06:00	17.100	1840.51	2.29	269.07		
06-01-91	05:07:00	17.117	1842.64	2.13	269.05		
06-01-91	05:08:00	17.133	1844.68	2.04	269.03		
06-01-91	05:09:00	17.150	1846.83	2.15	269.01		
06-01-91	05:10:00	17.167	1848.89	2.06	269.00		
06-01-91	05:11:00	17.183	1850.91	2.03	268.99		
06-01-91	05:12:00	17.200	1852.86	1.95	268.98		
06-01-91	05:13:00	17.217	1854.83	1.97	268.97		
06-01-91	05:14:00	17.233	1856.74	1.91	268.97		
06-01-91	05:15:00	17.250	1858.55	1.81	268.97		
06-01-91	05:16:00	17.267	1860.46	1.91	268.97		
06-01-91	05:17:00	17.283	1862.20	1.74	268.96		
06-01-91	05:18:00	17.300	1863.94	1.74	268.97		
06-01-91	05:19:00	17.317	1865.61	1.68	268.97		
06-01-91	05:20:00	17.333	1867.30	1.68	268.97		
06-01-91	05:21:00	17.350	1868.94	1.65	268.98		
06-01-91	05:22:00	17.367	1870.58	1.63	268.98		
06-01-91	05:23:00	17.383	1872.22	1.64	268.98		
06-01-91	05:24:00	17.400	1873.85	1.63	268.99		
06-01-91	05:25:00	17.417	1875.36	1.51	269.00		
06-01-91	05:26:00	17.433	1876.85	1.49	269.00		
06-01-91	05:27:00	17.450	1878.36	1.51	269.01		
06-01-91	05:28:00	17.467	1879.86	1.50	269.01		
06-01-91	05:29:00	17.483	1881.30	1.44	269.02		
06-01-91	05:30:00	17.500	1882.73	1.43	269.04	1380	Csg = 0 PSIG
06-01-91	05:31:00	17.517	1884.07	1.35	269.04		
06-01-91	05:32:00	17.533	1885.45	1.38	269.05		
06-01-91	05:33:00	17.550	1886.85	1.40	269.06		
06-01-91	05:34:00	17.567	1888.16	1.31	269.07		
06-01-91	05:35:00	17.583	1889.55	1.39	269.08		
06-01-91	05:36:00	17.600	1890.85	1.30	269.10		
06-01-91	05:37:00	17.617	1892.19	1.33	269.11		
06-01-91	05:38:00	17.633	1893.50	1.31	269.12		
06-01-91	05:39:00	17.650	1894.77	1.28	269.13		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	05:40:00	17.667	1896.07	1.29	269.15		
06-01-91	05:41:00	17.683	1897.33	1.26	269.17		
06-01-91	05:42:00	17.700	1898.57	1.24	269.18		
06-01-91	05:43:00	17.717	1899.79	1.22	269.20		
06-01-91	05:44:00	17.733	1900.96	1.17	269.21		
06-01-91	05:45:00	17.750	1902.15	1.19	269.22		
06-01-91	05:46:00	17.767	1903.35	1.21	269.23		
06-01-91	05:47:00	17.783	1904.53	1.18	269.25		
06-01-91	05:48:00	17.800	1905.70	1.17	269.26		
06-01-91	05:49:00	17.817	1906.86	1.17	269.28		
06-01-91	05:50:00	17.833	1907.98	1.12	269.29		
06-01-91	05:51:00	17.850	1909.08	1.10	269.31		
06-01-91	05:52:00	17.867	1910.23	1.15	269.32		
06-01-91	05:53:00	17.883	1911.35	1.12	269.34		
06-01-91	05:54:00	17.900	1912.50	1.15	269.36		
06-01-91	05:55:00	17.917	1913.59	1.09	269.37		
06-01-91	05:56:00	17.933	1914.64	1.05	269.39		
06-01-91	05:57:00	17.950	1915.67	1.03	269.40		
06-01-91	05:58:00	17.967	1916.66	0.99	269.42		
06-01-91	05:59:00	17.983	1917.73	1.07	269.43		
06-01-91	06:00:00	18.000	1918.69	0.96	269.45	1409	Csg = 0 PSIG
06-01-91	06:01:00	18.017	1919.72	1.02	269.47		
06-01-91	06:02:00	18.033	1920.71	0.99	269.49		
06-01-91	06:03:00	18.050	1921.60	0.90	269.50		
06-01-91	06:04:00	18.067	1922.53	0.93	269.51		
06-01-91	06:05:00	18.083	1923.48	0.95	269.53		
06-01-91	06:06:00	18.100	1924.41	0.92	269.55		
06-01-91	06:07:00	18.117	1925.27	0.87	269.56		
06-01-91	06:08:00	18.133	1926.15	0.88	269.58		
06-01-91	06:09:00	18.150	1926.98	0.83	269.61		
06-01-91	06:10:00	18.167	1927.83	0.85	269.62		
06-01-91	06:11:00	18.183	1928.72	0.88	269.64		
06-01-91	06:12:00	18.200	1929.58	0.87	269.66		
06-01-91	06:13:00	18.217	1930.53	0.94	269.67		
06-01-91	06:14:00	18.233	1931.51	0.98	269.70		
06-01-91	06:15:00	18.250	1932.45	0.94	269.72		
06-01-91	06:16:00	18.267	1933.30	0.85	269.74		
06-01-91	06:17:00	18.283	1934.16	0.87	269.75		
06-01-91	06:18:00	18.300	1934.98	0.82	269.77		
06-01-91	06:19:00	18.317	1935.76	0.79	269.80		
06-01-91	06:20:00	18.333	1936.59	0.83	269.81		
06-01-91	06:21:00	18.350	1937.33	0.74	269.84		
06-01-91	06:22:00	18.367	1938.19	0.86	269.85		
06-01-91	06:23:00	18.383	1939.00	0.81	269.86		
06-01-91	06:24:00	18.400	1939.77	0.77	269.89		
06-01-91	06:25:00	18.417	1940.60	0.83	269.90		
06-01-91	06:26:00	18.433	1941.37	0.78	269.92		
06-01-91	06:27:00	18.450	1942.13	0.76	269.94		
06-01-91	06:28:00	18.467	1942.89	0.76	269.96		
06-01-91	06:29:00	18.483	1943.65	0.76	269.97		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	06:30:00	18.500	1944.38	0.73	269.99	1429	Csg = 0 PSIG
06-01-91	06:35:00	18.583	1948.13	3.75	270.08		
06-01-91	06:40:00	18.667	1951.71	3.58	270.17		5 MIN. SAMPLE RATE.
06-01-91	06:45:00	18.750	1955.09	3.38	270.25		
06-01-91	06:50:00	18.833	1958.38	3.29	270.32		
06-01-91	06:55:00	18.917	1961.39	3.01	270.40		
06-01-91	07:00:00	19.000	1964.22	2.83	270.47	1446	Csg = 0 PSIG
06-01-91	07:05:00	19.083	1967.06	2.83	270.54		
06-01-91	07:10:00	19.167	1969.87	2.82	270.61		
06-01-91	07:15:00	19.250	1972.58	2.71	270.68		
06-01-91	07:20:00	19.333	1975.06	2.48	270.74		
06-01-91	07:25:00	19.417	1977.60	2.54	270.80		
06-01-91	07:30:00	19.500	1980.06	2.46	270.87	1460	Csg = 0 PSIG
06-01-91	07:35:00	19.583	1982.44	2.38	270.93		
06-01-91	07:40:00	19.667	1984.59	2.15	270.98		
06-01-91	07:45:00	19.750	1986.76	2.16	271.04		
06-01-91	07:50:00	19.833	1988.88	2.12	271.11		
06-01-91	07:55:00	19.917	1990.95	2.07	271.16		
06-01-91	08:00:00	20.000	1992.88	1.93	271.22	1469	Csg = 0 PSIG
06-01-91	08:05:00	20.083	1994.85	1.97	271.28		
06-01-91	08:10:00	20.167	1996.88	2.03	271.32		
06-01-91	08:15:00	20.250	1999.05	2.17	271.38		
06-01-91	08:20:00	20.333	2001.47	2.43	271.43		
06-01-91	08:25:00	20.417	2003.66	2.19	271.48		
06-01-91	08:30:00	20.500	2005.58	1.91	271.53	1479	Csg = 0 PSIG
06-01-91	08:35:00	20.583	2007.49	1.91	271.58		
06-01-91	08:40:00	20.667	2009.28	1.79	271.63		
06-01-91	08:45:00	20.750	2011.15	1.86	271.68		
06-01-91	08:50:00	20.833	2012.86	1.71	271.73		
06-01-91	08:55:00	20.917	2014.13	1.27	271.78		
06-01-91	09:00:00	21.000	2015.72	1.59	271.83	1488	Csg = 0 PSIG
06-01-91	09:05:00	21.083	2017.27	1.55	271.87		
06-01-91	09:10:00	21.167	2018.58	1.31	271.92		
06-01-91	09:15:00	21.250	2019.72	1.14	271.96		
06-01-91	09:20:00	21.333	2021.12	1.40	272.00		
06-01-91	09:25:00	21.417	2022.30	1.18	272.04		
06-01-91	09:30:00	21.500	2023.73	1.43	272.08	1497	Csg = 0 PSIG
06-01-91	09:35:00	21.583	2024.84	1.11	272.12		
06-01-91	09:40:00	21.667	2026.46	1.61	272.16		
06-01-91	09:45:00	21.750	2028.03	1.57	272.21		
06-01-91	09:50:00	21.833	2029.27	1.24	272.25		
06-01-91	09:55:00	21.917	2030.58	1.31	272.29		
06-01-91	10:00:00	22.000	2031.87	1.29	272.33	1501	Csg = 0 PSIG
06-01-91	10:05:00	22.083	2033.12	1.26	272.37		
06-01-91	10:10:00	22.167	2034.52	1.40	272.41		
06-01-91	10:15:00	22.250	2035.70	1.17	272.44		
06-01-91	10:20:00	22.333	2036.94	1.25	272.49		
06-01-91	10:25:00	22.417	2038.10	1.16	272.52		
06-01-91	10:30:00	22.500	2039.36	1.26	272.55	1507	Csg = 0 PSIG
06-01-91	10:35:00	22.583	2040.46	1.10	272.59		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'kb
 COMMENTS : 2nd RATE FLOW ON 26/64 CHOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	10:40:00	22.667	2041.50	1.03	272.63		
06-01-91	10:45:00	22.750	2042.72	1.22	272.66		
06-01-91	10:50:00	22.833	2043.60	0.88	272.70		
06-01-91	10:55:00	22.917	2044.71	1.11	272.73		
06-01-91	11:00:00	23.000	2045.74	1.03	272.77	1513	Csg = 0 PSIG
06-01-91	11:05:00	23.083	2046.36	0.61	272.80		
06-01-91	11:10:00	23.167	2047.39	1.03	272.83		
06-01-91	11:15:00	23.250	2047.83	0.44	272.86		
06-01-91	11:20:00	23.333	2048.58	0.75	272.88		
06-01-91	11:25:00	23.417	2048.86	0.29	272.91		
06-01-91	11:30:00	23.500	2049.78	0.91	272.94	1527	Csg = 0 PSIG
06-01-91	11:35:00	23.583	2051.17	1.40	272.97		
06-01-91	11:40:00	23.667	2052.55	1.37	273.00		
06-01-91	11:45:00	23.750	2053.43	0.88	273.03	1527	Csg = 0 PSIG
06-01-91	11:50:00	23.833	2054.89	1.46	273.06		
06-01-91	11:55:00	23.917	2055.63	0.74	273.09		END 2nd FLOW PERIOD

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	12:00:00	24.000	2056.94	-0.00	273.12		SHUT WELL IN.
06-01-91	12:00:10	24.003	2056.94	-0.00	273.13		
06-01-91	12:00:20	24.006	2072.68	15.74	273.13	1533	Csg = 0 PSIG
06-01-91	12:00:30	24.008	2098.13	41.19	273.13		
06-01-91	12:00:40	24.011	2127.26	70.32	273.13		DELTA T FROM
06-01-91	12:00:50	24.014	2157.94	101.00	273.13		START OF ISOCHRONAL
06-01-91	12:01:00	24.017	2184.67	127.73	273.13		
06-01-91	12:01:10	24.019	2209.70	152.76	273.13		DELTA P FROM
06-01-91	12:01:20	24.022	2233.56	176.62	273.13		SHUT-IN.
06-01-91	12:01:30	24.025	2253.94	197.00	273.13		
06-01-91	12:01:40	24.028	2275.06	218.12	273.13		10 SEC. SAMPLE RATE
06-01-91	12:01:50	24.031	2296.43	239.49	273.13		
06-01-91	12:02:00	24.033	2314.11	257.17	273.13		
06-01-91	12:02:10	24.036	2330.28	273.34	273.13		
06-01-91	12:02:20	24.039	2343.76	286.82	273.13		
06-01-91	12:02:30	24.042	2358.84	301.90	273.13		
06-01-91	12:02:40	24.044	2371.42	314.48	273.13		
06-01-91	12:02:50	24.047	2382.88	325.94	273.13		
06-01-91	12:03:00	24.050	2393.33	336.39	273.13		
06-01-91	12:03:10	24.053	2402.80	345.86	273.13		
06-01-91	12:03:20	24.056	2410.50	353.56	273.13		
06-01-91	12:03:30	24.058	2418.21	361.27	273.13		
06-01-91	12:03:40	24.061	2425.72	368.78	273.13		
06-01-91	12:03:50	24.064	2431.78	374.84	273.13		
06-01-91	12:04:00	24.067	2437.12	380.18	273.13		
06-01-91	12:04:10	24.069	2441.86	384.92	273.13		
06-01-91	12:04:20	24.072	2445.67	388.73	273.13		
06-01-91	12:04:30	24.075	2449.78	392.84	273.13		
06-01-91	12:04:40	24.078	2453.04	396.10	273.13		
06-01-91	12:04:50	24.081	2456.00	399.06	273.13		
06-01-91	12:05:00	24.083	2458.37	401.43	273.13	2006	Csg = 0 PSIG
06-01-91	12:05:30	24.092	2464.82	407.88	276.24		
06-01-91	12:06:00	24.100	2469.30	412.36	276.39		30 SEC. SAMPLE RATE
06-01-91	12:06:30	24.108	2472.60	415.66	276.49		
06-01-91	12:07:00	24.117	2475.10	418.16	276.55		
06-01-91	12:07:30	24.125	2477.23	420.29	276.60		
06-01-91	12:08:00	24.133	2479.06	422.12	276.63		
06-01-91	12:08:30	24.142	2480.65	423.71	276.63		
06-01-91	12:09:00	24.150	2482.11	425.17	276.61		
06-01-91	12:09:30	24.158	2483.64	426.70	276.59		
06-01-91	12:10:00	24.167	2485.11	428.17	276.55	2036	Csg = 0 PSIG
06-01-91	12:10:30	24.175	2486.65	429.71	276.51		
06-01-91	12:11:00	24.183	2488.22	431.28	276.48		
06-01-91	12:11:30	24.192	2489.83	432.89	276.44		
06-01-91	12:12:00	24.200	2491.43	434.49	276.40		
06-01-91	12:12:30	24.208	2493.10	436.16	276.36		
06-01-91	12:13:00	24.217	2494.80	437.86	276.32		
06-01-91	12:13:30	24.225	2496.44	439.50	276.29		
06-01-91	12:14:00	24.233	2498.17	441.23	276.26		
06-01-91	12:14:30	24.242	2499.85	442.91	276.23		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	12:15:00	24.250	2501.58	444.64	276.20	2048	Csg = 0 PSIG
06-01-91	12:15:30	24.258	2503.27	446.33	276.17		
06-01-91	12:16:00	24.267	2504.94	448.00	276.15		
06-01-91	12:16:30	24.275	2506.62	449.68	276.12		
06-01-91	12:17:00	24.283	2508.26	451.32	276.10		
06-01-91	12:17:30	24.292	2509.99	453.05	276.08		
06-01-91	12:18:00	24.300	2511.62	454.68	276.06		
06-01-91	12:18:30	24.308	2513.30	456.36	276.04		
06-01-91	12:19:00	24.317	2515.00	458.06	276.03		
06-01-91	12:19:30	24.325	2516.56	459.62	276.01		
06-01-91	12:20:00	24.333	2518.10	461.16	275.99		
06-01-91	12:20:30	24.342	2519.77	462.83	275.98		
06-01-91	12:21:00	24.350	2521.26	464.32	275.96		
06-01-91	12:21:30	24.358	2522.89	465.95	275.95		
06-01-91	12:22:00	24.367	2524.47	467.53	275.93		
06-01-91	12:22:30	24.375	2526.07	469.13	275.92		
06-01-91	12:23:00	24.383	2527.54	470.60	275.91		
06-01-91	12:23:30	24.392	2529.05	472.11	275.90		
06-01-91	12:24:00	24.400	2530.59	473.65	275.88		
06-01-91	12:24:30	24.408	2532.05	475.11	275.87		
06-01-91	12:25:00	24.417	2533.53	476.59	275.86		
06-01-91	12:25:30	24.425	2535.05	478.11	275.85		
06-01-91	12:26:00	24.433	2536.47	479.53	275.83		
06-01-91	12:26:30	24.442	2537.92	480.98	275.82		
06-01-91	12:27:00	24.450	2539.29	482.35	275.81		
06-01-91	12:27:30	24.458	2540.65	483.71	275.79		
06-01-91	12:28:00	24.467	2542.09	485.15	275.78		
06-01-91	12:28:30	24.475	2543.39	486.45	275.77		
06-01-91	12:29:00	24.483	2544.75	487.81	275.76		
06-01-91	12:29:30	24.492	2546.17	489.23	275.75		
06-01-91	12:30:00	24.500	2547.46	490.52	275.74	2084	
06-01-91	12:31:00	24.517	2550.06	493.12	275.72		
06-01-91	12:32:00	24.533	2552.57	495.63	275.71		
06-01-91	12:33:00	24.550	2555.02	498.08	275.69		
06-01-91	12:34:00	24.567	2557.54	500.60	275.68		
06-01-91	12:35:00	24.583	2559.76	502.82	275.66		
06-01-91	12:36:00	24.600	2562.03	505.09	275.64		
06-01-91	12:37:00	24.617	2564.25	507.31	275.63		
06-01-91	12:38:00	24.633	2566.48	509.54	275.61		
06-01-91	12:39:00	24.650	2568.47	511.53	275.59		
06-01-91	12:40:00	24.667	2570.61	513.67	275.58		
06-01-91	12:41:00	24.683	2572.61	515.67	275.57		
06-01-91	12:42:00	24.700	2574.43	517.49	275.56		
06-01-91	12:43:00	24.717	2576.31	519.37	275.55		
06-01-91	12:44:00	24.733	2578.20	521.26	275.53		
06-01-91	12:45:00	24.750	2580.01	523.07	275.52		
06-01-91	12:46:00	24.767	2581.76	524.82	275.51		
06-01-91	12:47:00	24.783	2583.48	526.54	275.50		
06-01-91	12:48:00	24.800	2585.18	528.24	275.50		
06-01-91	12:49:00	24.817	2586.82	529.88	275.48		

1 MIN. SAMPLE RATE.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	12:50:00	24.833	2588.41	531.47	275.48		
06-01-91	12:51:00	24.850	2589.98	533.04	275.46		
06-01-91	12:52:00	24.867	2591.55	534.61	275.46		
06-01-91	12:53:00	24.883	2593.03	536.09	275.45		
06-01-91	12:54:00	24.900	2594.53	537.59	275.44		
06-01-91	12:55:00	24.917	2595.96	539.02	275.44		
06-01-91	12:56:00	24.933	2597.35	540.41	275.43		
06-01-91	12:57:00	24.950	2598.73	541.79	275.42		
06-01-91	12:58:00	24.967	2600.07	543.13	275.42		
06-01-91	12:59:00	24.983	2601.39	544.45	275.41		
06-01-91	13:00:00	25.000	2602.68	545.74	275.40	2127	Csg = 0 PSIG
06-01-91	13:01:00	25.017	2603.88	546.94	275.40		
06-01-91	13:02:00	25.033	2605.15	548.21	275.39		
06-01-91	13:03:00	25.050	2606.33	549.39	275.38		
06-01-91	13:04:00	25.067	2607.55	550.61	275.38		
06-01-91	13:05:00	25.083	2608.73	551.79	275.37		
06-01-91	13:06:00	25.100	2609.92	552.98	275.37		
06-01-91	13:07:00	25.117	2610.99	554.05	275.36		
06-01-91	13:08:00	25.133	2612.03	555.09	275.35		
06-01-91	13:09:00	25.150	2612.95	556.01	275.35		
06-01-91	13:10:00	25.167	2613.76	556.82	275.34		
06-01-91	13:11:00	25.183	2614.56	557.62	275.34		
06-01-91	13:12:00	25.200	2615.28	558.34	275.33		
06-01-91	13:13:00	25.217	2615.81	558.87	275.32		
06-01-91	13:14:00	25.233	2615.87	558.93	275.31		
06-01-91	13:15:00	25.250	2615.53	558.59	275.30		
06-01-91	13:16:00	25.267	2614.87	557.93	275.28		
06-01-91	13:17:00	25.283	2613.97	557.03	275.26		
06-01-91	13:18:00	25.300	2612.88	555.94	275.24		
06-01-91	13:19:00	25.317	2611.50	554.56	275.21		
06-01-91	13:20:00	25.333	2609.95	553.01	275.18		
06-01-91	13:21:00	25.350	2608.28	551.34	275.15		
06-01-91	13:22:00	25.367	2606.56	549.62	275.12		
06-01-91	13:23:00	25.383	2604.84	547.90	275.09		
06-01-91	13:24:00	25.400	2603.12	546.18	275.06		
06-01-91	13:25:00	25.417	2601.44	544.50	275.03		
06-01-91	13:26:00	25.433	2599.80	542.86	275.00		
06-01-91	13:27:00	25.450	2598.18	541.24	274.98		
06-01-91	13:28:00	25.467	2596.61	539.67	274.95		
06-01-91	13:29:00	25.483	2595.08	538.14	274.92		
06-01-91	13:30:00	25.500	2593.61	536.67	274.90	2121	Csg = 0 PSIG
06-01-91	13:31:00	25.517	2592.25	535.31	274.88		
06-01-91	13:32:00	25.533	2590.92	533.98	274.86		
06-01-91	13:33:00	25.550	2589.63	532.69	274.85		
06-01-91	13:34:00	25.567	2588.42	531.48	274.83		
06-01-91	13:35:00	25.583	2587.29	530.35	274.82		
06-01-91	13:36:00	25.600	2586.22	529.28	274.80		
06-01-91	13:37:00	25.617	2585.17	528.23	274.79		
06-01-91	13:38:00	25.633	2584.18	527.24	274.78		
06-01-91	13:39:00	25.650	2583.30	526.36	274.77		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD.

HP GAUGE S/N: 599

OPERATOR: C.HILDER

GAUGE DEPTH: 7400'KB

LOCATION : THURAKINNA #3

DATE: 06-01-91

TEST: MODIFIED ISOCHRONAL

FORMATION: PATCHAWARRA

PERFORATIONS: 7484'-7720'KB

COMMENTS : 2nd RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	13:40:00	25.667	2582.41	525.47	274.76		
06-01-91	13:41:00	25.683	2581.68	524.73	274.75		
06-01-91	13:42:00	25.700	2580.93	523.99	274.73		
06-01-91	13:43:00	25.717	2580.27	523.33	274.73		
06-01-91	13:44:00	25.733	2579.65	522.71	274.72		
06-01-91	13:45:00	25.750	2579.10	522.16	274.72		
06-01-91	13:46:00	25.767	2578.60	521.66	274.72		
06-01-91	13:47:00	25.783	2578.11	521.17	274.72		
06-01-91	13:48:00	25.800	2577.62	520.68	274.71		
06-01-91	13:49:00	25.817	2577.20	520.26	274.72		
06-01-91	13:50:00	25.833	2576.80	519.86	274.71		
06-01-91	13:51:00	25.850	2576.46	519.52	274.71		
06-01-91	13:52:00	25.867	2576.17	519.23	274.71		
06-01-91	13:53:00	25.883	2575.86	518.92	274.71		
06-01-91	13:54:00	25.900	2575.62	518.68	274.71		
06-01-91	13:55:00	25.917	2575.41	518.47	274.72		
06-01-91	13:56:00	25.933	2575.21	518.27	274.71		
06-01-91	13:57:00	25.950	2575.03	518.09	274.72		
06-01-91	13:58:00	25.967	2574.87	517.93	274.72		
06-01-91	13:59:00	25.983	2574.72	517.78	274.72	2103	Csg = 0 PSIG
06-01-91	14:00:00	26.000	2574.62	517.68	274.72		5 MIN. SAMPLE RATE.
06-01-91	14:05:00	26.083	2574.21	517.27	274.73		
06-01-91	14:10:00	26.167	2573.99	517.05	274.75		
06-01-91	14:15:00	26.250	2574.01	517.07	274.77		
06-01-91	14:20:00	26.333	2574.19	517.25	274.79		
06-01-91	14:25:00	26.417	2574.50	517.56	274.80	2103	Csg = 0 PSIG
06-01-91	14:30:00	26.500	2575.01	518.07	274.82		
06-01-91	14:35:00	26.583	2575.64	518.70	274.84		
06-01-91	14:40:00	26.667	2576.39	519.45	274.86		
06-01-91	14:45:00	26.750	2577.14	520.20	274.88		
06-01-91	14:50:00	26.833	2577.80	520.86	274.89		
06-01-91	14:55:00	26.917	2578.37	521.43	274.90	2105	Csg = 0 PSIG
06-01-91	15:00:00	27.000	2578.92	521.98	274.92		
06-01-91	15:05:00	27.083	2579.25	522.31	274.92		
06-01-91	15:10:00	27.167	2579.42	522.48	274.93		
06-01-91	15:15:00	27.250	2579.47	522.53	274.94		
06-01-91	15:20:00	27.333	2579.52	522.58	274.94		
06-01-91	15:25:00	27.417	2579.49	522.55	274.94	2104	Csg = 0 PSIG
06-01-91	15:30:00	27.500	2579.46	522.52	274.94		
06-01-91	15:35:00	27.583	2579.38	522.44	274.94		
06-01-91	15:40:00	27.667	2579.36	522.42	274.94		
06-01-91	15:45:00	27.750	2579.38	522.44	274.95		
06-01-91	15:50:00	27.833	2579.40	522.46	274.95		
06-01-91	15:55:00	27.917	2579.44	522.50	274.96	2103	Csg = 0 PSIG
06-01-91	16:00:00	28.000	2579.50	522.56	274.96		10 MIN. SAMPLE RATE
06-01-91	16:10:00	28.167	2579.64	522.70	274.97		
06-01-91	16:20:00	28.333	2579.81	522.87	274.98	2103	Csg = 0 PSIG
06-01-91	16:30:00	28.500	2579.99	523.05	274.99		
06-01-91	16:40:00	28.667	2580.22	523.28	275.00		
06-01-91	16:50:00	28.833	2580.51	523.57	275.01		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	17:00:00	29.000	2580.73	523.79	275.02	2103	Csg = 0 PSIG
06-01-91	17:10:00	29.167	2581.03	524.09	275.03		
06-01-91	17:20:00	29.333	2581.28	524.34	275.04		
06-01-91	17:30:00	29.500	2581.53	524.59	275.05	2103	Csg = 0 PSIG
06-01-91	17:40:00	29.667	2581.80	524.86	275.06		
06-01-91	17:50:00	29.833	2582.02	525.08	275.08		
06-01-91	18:00:00	30.000	2582.28	525.34	275.08	2103	Csg = 0 PSIG
06-01-91	18:10:00	30.167	2582.53	525.59	275.09		
06-01-91	18:20:00	30.333	2582.77	525.83	275.10		
06-01-91	18:30:00	30.500	2582.93	525.99	275.11	2103	Csg = 0 PSIG
06-01-91	18:40:00	30.667	2583.16	526.22	275.11		
06-01-91	18:50:00	30.833	2583.37	526.43	275.12		
06-01-91	19:00:00	31.000	2583.59	526.65	275.13	2099	Csg = 0 PSIG
06-01-91	19:10:00	31.167	2583.71	526.77	275.14		
06-01-91	19:20:00	31.333	2583.80	526.86	275.15		
06-01-91	19:30:00	31.500	2583.90	526.96	275.15	2090	Csg = 0 PSIG
06-01-91	19:40:00	31.667	2584.12	527.18	275.16		
06-01-91	19:50:00	31.833	2584.21	527.27	275.17		END 2nd BUILD-UP.

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE FLOW ON 36/64" CROKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	20:00:00	32.000	2584.54	0.33	275.17		WELL FLOWING ON 36/64" CHOKE.
06-01-91	20:01:00	32.017	2520.16	-64.38	275.13		
06-01-91	20:02:00	32.033	2450.16	-70.00	274.86		
06-01-91	20:03:00	32.050	2348.41	-101.75	274.28	2099	Csg = 0 PSIG
06-01-91	20:04:00	32.067	2237.82	-110.59	273.07		
06-01-91	20:05:00	32.083	2152.87	-84.96	271.54	1670	Csg = 0 PSIG
06-01-91	20:06:00	32.100	2085.12	-67.75	270.31		
06-01-91	20:07:00	32.117	1989.49	-95.63	269.45		DELTA T FROM START OF ISOCHRONAL.
06-01-91	20:08:00	32.133	1864.85	-124.64	268.60		
06-01-91	20:09:00	32.150	1761.16	-103.68	267.74		
06-01-91	20:10:00	32.167	1677.35	-83.81	267.08	1170	Csg = 0 PSIG
06-01-91	20:11:00	32.183	1599.88	-77.48	266.68		
06-01-91	20:12:00	32.200	1536.57	-63.31	266.43		DELTA P FROM PREVIOUS READING.
06-01-91	20:13:00	32.217	1492.15	-44.42	266.32		
06-01-91	20:14:00	32.233	1461.42	-30.73	266.33		
06-01-91	20:15:00	32.250	1442.92	-18.50	266.41	929	Csg = 0 PSIG
06-01-91	20:16:00	32.267	1432.22	-10.70	266.52		
06-01-91	20:17:00	32.283	1427.26	-4.96	266.63		1 MIN. SAMPLE RATE.
06-01-91	20:18:00	32.300	1426.16	-1.10	266.72		
06-01-91	20:19:00	32.317	1427.21	1.05	266.77		
06-01-91	20:20:00	32.333	1430.15	2.94	266.79		
06-01-91	20:21:00	32.350	1437.14	6.98	266.77		
06-01-91	20:22:00	32.367	1447.88	10.74	266.71		
06-01-91	20:23:00	32.383	1457.73	9.85	266.61		
06-01-91	20:24:00	32.400	1466.82	9.09	266.47		
06-01-91	20:25:00	32.417	1475.44	8.62	266.31		
06-01-91	20:26:00	32.433	1483.67	8.23	266.12		
06-01-91	20:27:00	32.450	1491.57	7.90	265.92		
06-01-91	20:28:00	32.467	1498.76	7.19	265.71		
06-01-91	20:29:00	32.483	1505.30	6.54	265.49		
06-01-91	20:30:00	32.500	1511.32	6.02	265.27	927	Csg = 0 PSIG
06-01-91	20:31:00	32.517	1516.97	5.64	265.06		
06-01-91	20:32:00	32.533	1522.45	5.48	264.85		
06-01-91	20:33:00	32.550	1527.75	5.30	264.65		
06-01-91	20:34:00	32.567	1532.57	4.82	264.47		
06-01-91	20:35:00	32.583	1537.43	4.86	264.30		
06-01-91	20:36:00	32.600	1542.03	4.60	264.14		
06-01-91	20:37:00	32.617	1546.54	4.51	264.00		
06-01-91	20:38:00	32.633	1550.96	4.42	263.86		
06-01-91	20:39:00	32.650	1555.31	4.35	263.75		
06-01-91	20:40:00	32.667	1559.55	4.24	263.65		
06-01-91	20:41:00	32.683	1563.43	3.88	263.57		
06-01-91	20:42:00	32.700	1567.27	3.84	263.49		
06-01-91	20:43:00	32.717	1571.08	3.81	263.43		
06-01-91	20:44:00	32.733	1574.73	3.65	263.37		
06-01-91	20:45:00	32.750	1578.27	3.53	263.33		
06-01-91	20:46:00	32.767	1581.71	3.45	263.28		
06-01-91	20:47:00	32.783	1584.98	3.27	263.25		
06-01-91	20:48:00	32.800	1588.00	3.02	263.22		
06-01-91	20:49:00	32.817	1591.07	3.07	263.21		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE FLOW ON 36/64" CROKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	20:50:00	32.833	1593.97	2.90	263.19		
06-01-91	20:51:00	32.850	1596.81	2.84	263.18		
06-01-91	20:52:00	32.867	1599.72	2.91	263.17		
06-01-91	20:53:00	32.883	1602.54	2.81	263.17		
06-01-91	20:54:00	32.900	1605.31	2.77	263.18		
06-01-91	20:55:00	32.917	1608.18	2.87	263.19		
06-01-91	20:56:00	32.933	1610.95	2.77	263.21		
06-01-91	20:57:00	32.950	1613.38	2.43	263.22		
06-01-91	20:58:00	32.967	1615.66	2.28	263.24		
06-01-91	20:59:00	32.983	1617.73	2.07	263.26		
06-01-91	21:00:00	33.000	1619.79	2.07	263.27	996	Csg = 0 PSIG
06-01-91	21:01:00	33.017	1621.79	1.99	263.30		
06-01-91	21:02:00	33.033	1623.71	1.92	263.33		
06-01-91	21:03:00	33.050	1625.60	1.89	263.36		
06-01-91	21:04:00	33.067	1627.49	1.89	263.38		
06-01-91	21:05:00	33.083	1629.33	1.84	263.40		
06-01-91	21:06:00	33.100	1631.18	1.85	263.43		
06-01-91	21:07:00	33.117	1633.10	1.93	263.45		
06-01-91	21:08:00	33.133	1634.94	1.84	263.48		
06-01-91	21:09:00	33.150	1636.92	1.98	263.51		
06-01-91	21:10:00	33.167	1638.89	1.96	263.53		
06-01-91	21:11:00	33.183	1640.81	1.92	263.57		
06-01-91	21:12:00	33.200	1642.72	1.91	263.59		
06-01-91	21:13:00	33.217	1644.67	1.96	263.61		
06-01-91	21:14:00	33.233	1646.55	1.88	263.64		
06-01-91	21:15:00	33.250	1648.43	1.88	263.68		
06-01-91	21:16:00	33.267	1650.23	1.80	263.71		
06-01-91	21:17:00	33.283	1652.03	1.79	263.72		
06-01-91	21:18:00	33.300	1653.82	1.79	263.76		
06-01-91	21:19:00	33.317	1655.61	1.79	263.78		
06-01-91	21:20:00	33.333	1657.39	1.78	263.81		
06-01-91	21:21:00	33.350	1659.02	1.64	263.84		
06-01-91	21:22:00	33.367	1660.76	1.74	263.87		
06-01-91	21:23:00	33.383	1662.48	1.71	263.89		
06-01-91	21:24:00	33.400	1664.17	1.69	263.92		
06-01-91	21:25:00	33.417	1665.84	1.67	263.94		
06-01-91	21:26:00	33.433	1667.54	1.70	263.97		
06-01-91	21:27:00	33.450	1669.19	1.65	264.00		
06-01-91	21:28:00	33.467	1670.85	1.65	264.03		
06-01-91	21:29:00	33.483	1672.44	1.59	264.07		
06-01-91	21:30:00	33.500	1673.87	1.43	264.10	1040	Csg = 0 PSIG
06-01-91	21:31:00	33.517	1675.50	1.63	264.12		
06-01-91	21:32:00	33.533	1677.04	1.54	264.15		
06-01-91	21:33:00	33.550	1678.63	1.60	264.18		
06-01-91	21:34:00	33.567	1680.11	1.47	264.20		
06-01-91	21:35:00	33.583	1681.53	1.42	264.23		
06-01-91	21:36:00	33.600	1682.99	1.46	264.26		
06-01-91	21:37:00	33.617	1684.49	1.50	264.29		
06-01-91	21:38:00	33.633	1685.89	1.40	264.32		
06-01-91	21:39:00	33.650	1687.22	1.33	264.36		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 06-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE FLOW ON 36/64" CKOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
06-01-91	21:40:00	33.667	1688.66	1.43	264.39		
06-01-91	21:41:00	33.683	1689.97	1.31	264.42		
06-01-91	21:42:00	33.700	1691.16	1.19	264.46		
06-01-91	21:43:00	33.717	1692.47	1.31	264.49		
06-01-91	21:44:00	33.733	1693.63	1.16	264.53		
06-01-91	21:45:00	33.750	1694.85	1.22	264.56		
06-01-91	21:46:00	33.767	1696.13	1.28	264.59		
06-01-91	21:47:00	33.783	1697.29	1.16	264.63		
06-01-91	21:48:00	33.800	1698.58	1.30	264.66		
06-01-91	21:49:00	33.817	1699.84	1.26	264.69		
06-01-91	21:50:00	33.833	1700.84	1.00	264.72		
06-01-91	21:51:00	33.850	1701.98	1.14	264.76		
06-01-91	21:52:00	33.867	1702.74	0.76	264.79		
06-01-91	21:53:00	33.883	1703.61	0.87	264.82		
06-01-91	21:54:00	33.900	1704.34	0.74	264.84		
06-01-91	21:55:00	33.917	1705.29	0.95	264.87		
06-01-91	21:56:00	33.933	1706.20	0.91	264.90		
06-01-91	21:57:00	33.950	1707.05	0.84	264.93		
06-01-91	21:58:00	33.967	1707.95	0.90	264.96		
06-01-91	21:59:00	33.983	1708.55	0.60	264.98		
06-01-91	22:00:00	34.000	1708.74	0.19	265.01	1067	Csg = 0 PSIG
06-01-91	22:05:00	34.083	1715.95	7.21	265.15		
06-01-91	22:10:00	34.167	1720.69	4.73	265.29		5 MIN. SAMPLE RATE.
06-01-91	22:15:00	34.250	1727.31	6.62	265.43		
06-01-91	22:20:00	34.333	1733.89	6.59	265.58		
06-01-91	22:25:00	34.417	1741.15	7.26	265.74		
06-01-91	22:30:00	34.500	1746.40	5.25	265.89	1075	Csg = 0 PSIG
06-01-91	22:35:00	34.583	1749.39	2.99	266.03		
06-01-91	22:40:00	34.667	1753.31	3.92	266.16		
06-01-91	22:45:00	34.750	1756.04	2.73	266.27		
06-01-91	22:50:00	34.833	1759.29	3.25	266.38		
06-01-91	22:55:00	34.917	1763.08	3.79	266.49		
06-01-91	23:00:00	35.000	1765.10	2.02	266.57	1085	Csg = 0 PSIG
06-01-91	23:05:00	35.083	1767.15	2.05	266.66		
06-01-91	23:10:00	35.167	1768.78	1.63	266.74		
06-01-91	23:15:00	35.250	1772.58	3.80	266.84		
06-01-91	23:20:00	35.333	1775.00	2.41	266.91		
06-01-91	23:25:00	35.417	1779.37	4.37	267.00		
06-01-91	23:30:00	35.500	1782.49	3.12	267.09	1094	Csg = 0 PSIG
06-01-91	23:35:00	35.583	1783.93	1.45	267.17		
06-01-91	23:40:00	35.667	1785.67	1.74	267.24		
06-01-91	23:45:00	35.750	1787.39	1.72	267.32		
06-01-91	23:50:00	35.833	1789.45	2.06	267.38		
06-01-91	23:55:00	35.917	1790.33	0.88	267.44		
07-01-91	00:00:00	36.000	1793.19	2.86	267.51	1106	Csg = 0 PSIG
07-01-91	00:05:00	36.083	1794.77	1.58	267.57		
07-01-91	00:10:00	36.167	1795.45	0.69	267.62		
07-01-91	00:15:00	36.250	1798.12	2.67	267.68		
07-01-91	00:20:00	36.333	1798.55	0.43	267.74		
07-01-91	00:25:00	36.417	1800.64	2.08	267.79		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
COMMENTS : 3rd RATE FLOW ON 36/64" CKOKE.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	00:30:00	36.500	1801.41	0.78	267.84	1115	Csg = 0 PSIG
07-01-91	00:35:00	36.583	1804.20	2.79	267.90		
07-01-91	00:40:00	36.667	1805.50	1.30	267.95		
07-01-91	00:45:00	36.750	1806.85	1.35	268.01		
07-01-91	00:50:00	36.833	1808.61	1.76	268.06		
07-01-91	00:55:00	36.917	1810.26	1.66	268.12		
07-01-91	01:00:00	37.000	1811.53	1.26	268.17	1121	Csg = 0 PSIG
07-01-91	01:05:00	37.083	1812.72	1.20	268.21		
07-01-91	01:10:00	37.167	1813.32	0.59	268.26		
07-01-91	01:15:00	37.250	1814.53	1.22	268.30		
07-01-91	01:20:00	37.333	1816.41	1.88	268.35		
07-01-91	01:25:00	37.417	1817.31	0.90	268.38		
07-01-91	01:30:00	37.500	1818.33	1.02	268.43	1125	Csg = 1 PSIG
07-01-91	01:35:00	37.583	1820.16	1.82	268.48		
07-01-91	01:40:00	37.667	1821.36	1.20	268.52		
07-01-91	01:45:00	37.750	1822.74	1.38	268.56		
07-01-91	01:50:00	37.833	1823.68	0.93	268.60		
07-01-91	01:55:00	37.917	1825.25	1.57	268.65		
07-01-91	02:00:00	38.000	1826.13	0.88	268.68	1132	Csg = 1 PSIG
07-01-91	02:05:00	38.083	1827.20	1.08	268.73		
07-01-91	02:10:00	38.167	1828.52	1.31	268.77		
07-01-91	02:15:00	38.250	1829.56	1.04	268.82		
07-01-91	02:20:00	38.333	1829.86	0.30	268.84		
07-01-91	02:25:00	38.417	1830.96	1.10	268.88		
07-01-91	02:30:00	38.500	1831.89	0.93	268.91	1138	Csg = 2 PSIG
07-01-91	02:35:00	38.583	1832.99	1.10	268.95		
07-01-91	02:40:00	38.667	1833.90	0.91	268.99		
07-01-91	02:45:00	38.750	1834.79	0.89	269.02		
07-01-91	02:50:00	38.833	1835.52	0.74	269.05		
07-01-91	02:55:00	38.917	1836.71	1.19	269.09		
07-01-91	03:00:00	39.000	1838.03	1.32	269.12	1143	Csg = 2 PSIG
07-01-91	03:05:00	39.083	1838.97	0.94	269.16		
07-01-91	03:10:00	39.167	1840.09	1.12	269.20		
07-01-91	03:15:00	39.250	1841.08	0.99	269.23		
07-01-91	03:20:00	39.333	1841.95	0.87	269.27		
07-01-91	03:25:00	39.417	1842.51	0.56	269.29		
07-01-91	03:30:00	39.500	1843.53	1.02	269.33	1147	Csg = 3 PSIG
07-01-91	03:35:00	39.583	1844.71	1.18	269.36		
07-01-91	03:40:00	39.667	1845.67	0.96	269.39		
07-01-91	03:45:00	39.750	1846.29	0.62	269.42	1150	Csg = 3 PSIG
07-01-91	03:50:00	39.833	1847.08	0.79	269.46		
07-01-91	03:55:00	39.917	1847.97	0.89	269.49		END 3rd FLOW PERIOD

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	04:00:00	0.000	1848.58	0.00	269.52		SHUT WELL IN.
07-01-91	04:00:20	0.006	1848.58	0.00	269.53		
07-01-91	04:00:30	0.008	1866.68	18.10	269.53	1150	Csg = 3 PSIG
07-01-91	04:00:40	0.011	1895.02	46.44	269.53		
07-01-91	04:00:50	0.014	1929.86	81.28	269.53		DELTA T FROM SHUT-IN.
07-01-91	04:01:00	0.017	1966.43	117.85	269.53		
07-01-91	04:01:10	0.019	2002.21	153.63	269.53		
07-01-91	04:01:20	0.022	2036.66	188.08	269.53		DELTA P FROM SHUT-IN.
07-01-91	04:01:30	0.025	2069.99	221.41	269.53		
07-01-91	04:01:40	0.028	2102.29	253.71	269.53		
07-01-91	04:01:50	0.031	2132.60	284.02	269.53		10 SEC. SAMPLE RATE
07-01-91	04:02:00	0.033	2160.76	312.18	269.53		
07-01-91	04:02:10	0.036	2187.08	338.50	269.53		
07-01-91	04:02:20	0.039	2211.58	363.00	269.53		
07-01-91	04:02:30	0.042	2234.31	385.73	269.53		
07-01-91	04:02:40	0.044	2255.36	406.78	269.53		
07-01-91	04:02:50	0.047	2274.62	426.04	269.53		
07-01-91	04:03:00	0.050	2290.52	441.94	269.53		
07-01-91	04:03:10	0.053	2308.09	459.51	269.53		
07-01-91	04:03:20	0.056	2322.39	473.81	269.53		
07-01-91	04:03:30	0.058	2335.26	486.68	269.53		
07-01-91	04:03:40	0.061	2345.71	497.13	269.53		
07-01-91	04:03:50	0.064	2357.10	508.52	269.53		
07-01-91	04:04:00	0.067	2366.22	517.64	269.53		
07-01-91	04:04:10	0.069	2374.29	525.71	269.53		
07-01-91	04:04:20	0.072	2381.44	532.86	269.53		
07-01-91	04:04:30	0.075	2387.73	539.15	269.53		
07-01-91	04:04:40	0.078	2392.77	544.19	269.53		
07-01-91	04:04:50	0.081	2398.18	549.60	269.53		
07-01-91	04:05:00	0.083	2402.53	553.95	269.53	1979	Csg = 5 PSIG
07-01-91	04:05:30	0.092	2412.92	564.34	269.53		
07-01-91	04:06:00	0.100	2419.79	571.21	274.12		30 SEC. SAMPLE RATE
07-01-91	04:06:30	0.108	2424.93	576.35	274.30		
07-01-91	04:07:00	0.117	2428.72	580.14	274.42		
07-01-91	04:07:30	0.125	2431.80	583.22	274.51		
07-01-91	04:08:00	0.133	2434.36	585.78	274.56		
07-01-91	04:08:30	0.142	2436.91	588.33	274.58		
07-01-91	04:09:00	0.150	2439.31	590.73	274.58		
07-01-91	04:09:30	0.158	2441.94	593.36	274.55		
07-01-91	04:10:00	0.167	2444.64	596.06	274.52	2017	Csg = 3 PSIG
07-01-91	04:10:30	0.175	2447.32	598.74	274.48		
07-01-91	04:11:00	0.183	2450.15	601.57	274.44		
07-01-91	04:11:30	0.192	2453.06	604.48	274.40		
07-01-91	04:12:00	0.200	2456.00	607.42	274.38		
07-01-91	04:12:30	0.208	2458.78	610.20	274.34		
07-01-91	04:13:00	0.217	2461.80	613.22	274.31		
07-01-91	04:13:30	0.225	2464.69	616.11	274.28		
07-01-91	04:14:00	0.233	2467.60	619.02	274.26		
07-01-91	04:14:30	0.242	2470.44	621.86	274.24		
07-01-91	04:15:00	0.250	2473.28	624.70	274.23	2039	Csg = 3 PSIG

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	04:15:30	0.258	2476.01	627.43	274.20		
07-01-91	04:16:00	0.267	2478.78	630.20	274.19		
07-01-91	04:16:30	0.275	2481.54	632.96	274.18		
07-01-91	04:17:00	0.283	2484.15	635.57	274.16		
07-01-91	04:17:30	0.292	2486.80	638.22	274.15		
07-01-91	04:18:00	0.300	2489.47	640.89	274.14		
07-01-91	04:18:30	0.308	2492.05	643.47	274.12		
07-01-91	04:19:00	0.317	2494.63	646.05	274.12		
07-01-91	04:19:30	0.325	2497.12	648.54	274.10		
07-01-91	04:20:00	0.333	2499.60	651.02	274.10		
07-01-91	04:20:30	0.342	2501.98	653.40	274.09		
07-01-91	04:21:00	0.350	2504.51	655.93	274.08		
07-01-91	04:21:30	0.358	2506.86	658.28	274.08		
07-01-91	04:22:00	0.367	2509.25	660.67	274.06		
07-01-91	04:22:30	0.375	2511.54	662.96	274.06		
07-01-91	04:23:00	0.383	2513.74	665.16	274.05		
07-01-91	04:23:30	0.392	2516.08	667.50	274.04		
07-01-91	04:24:00	0.400	2518.21	669.63	274.03		
07-01-91	04:24:30	0.408	2520.38	671.80	274.03		
07-01-91	04:25:00	0.417	2522.50	673.92	274.01		
07-01-91	04:25:30	0.425	2524.62	676.04	274.01		
07-01-91	04:26:00	0.433	2526.68	678.10	274.00		
07-01-91	04:26:30	0.442	2528.65	680.07	273.99		
07-01-91	04:27:00	0.450	2530.59	682.01	273.98		
07-01-91	04:27:30	0.458	2532.61	684.03	273.97		
07-01-91	04:28:00	0.467	2534.56	685.98	273.96		
07-01-91	04:28:30	0.475	2536.40	687.82	273.96		
07-01-91	04:29:00	0.483	2538.24	689.66	273.95		
07-01-91	04:29:30	0.492	2540.08	691.50	273.95		
07-01-91	04:30:00	0.500	2541.83	693.25	273.94	2089	Csg = 2 PSIG
07-01-91	04:31:00	0.517	2545.31	696.73	273.92		
07-01-91	04:32:00	0.533	2548.67	700.09	273.91		
07-01-91	04:33:00	0.550	2551.88	703.30	273.89		
07-01-91	04:34:00	0.567	2555.01	706.43	273.88		
07-01-91	04:35:00	0.583	2558.02	709.44	273.87		
07-01-91	04:36:00	0.600	2560.98	712.40	273.85		
07-01-91	04:37:00	0.617	2563.88	715.30	273.83		
07-01-91	04:38:00	0.633	2566.65	718.07	273.82		
07-01-91	04:39:00	0.650	2569.49	720.91	273.80		
07-01-91	04:40:00	0.667	2572.10	723.52	273.79		
07-01-91	04:41:00	0.683	2574.57	725.99	273.77		
07-01-91	04:42:00	0.700	2576.94	728.36	273.76		
07-01-91	04:43:00	0.717	2579.11	730.53	273.74		
07-01-91	04:44:00	0.733	2580.91	732.33	273.73		
07-01-91	04:45:00	0.750	2582.18	733.60	273.71		
07-01-91	04:46:00	0.767	2582.64	734.06	273.69		
07-01-91	04:47:00	0.783	2582.42	733.84	273.67		
07-01-91	04:48:00	0.800	2581.70	733.12	273.63		
07-01-91	04:49:00	0.817	2580.57	731.99	273.59		
07-01-91	04:50:00	0.833	2579.17	730.59	273.54		

30 SEC. SAMPLE RATE

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	04:51:00	0.850	2577.55	728.97	273.50		
07-01-91	04:52:00	0.867	2575.86	727.28	273.45		
07-01-91	04:53:00	0.883	2574.17	725.59	273.40		
07-01-91	04:54:00	0.900	2572.44	723.86	273.35		
07-01-91	04:55:00	0.917	2570.79	722.21	273.31		
07-01-91	04:56:00	0.933	2569.15	720.57	273.26		
07-01-91	04:57:00	0.950	2567.57	718.99	273.23		
07-01-91	04:58:00	0.967	2566.07	717.49	273.19		
07-01-91	04:59:00	0.983	2564.66	716.08	273.16		
07-01-91	05:00:00	1.000	2563.32	714.74	273.12	2105	Csg = 0 PSIG
07-01-91	05:01:00	1.017	2562.12	713.54	273.10		
07-01-91	05:02:00	1.033	2560.98	712.40	273.08		
07-01-91	05:03:00	1.050	2559.96	711.38	273.05		
07-01-91	05:04:00	1.067	2559.03	710.45	273.03		
07-01-91	05:05:00	1.083	2558.12	709.54	273.01		
07-01-91	05:06:00	1.100	2557.31	708.73	272.99		
07-01-91	05:07:00	1.117	2556.63	708.05	272.98		
07-01-91	05:08:00	1.133	2556.02	707.44	272.97		
07-01-91	05:09:00	1.150	2555.44	706.86	272.96		
07-01-91	05:10:00	1.167	2554.89	706.31	272.95		
07-01-91	05:11:00	1.183	2554.51	705.93	272.94		
07-01-91	05:12:00	1.200	2554.08	705.50	272.94		
07-01-91	05:13:00	1.217	2553.72	705.14	272.94		
07-01-91	05:14:00	1.233	2553.45	704.87	272.93		
07-01-91	05:15:00	1.250	2553.21	704.63	272.92		
07-01-91	05:16:00	1.267	2553.00	704.42	272.92		
07-01-91	05:17:00	1.283	2552.81	704.23	272.92		
07-01-91	05:18:00	1.300	2552.67	704.09	272.92		
07-01-91	05:19:00	1.317	2552.59	704.01	272.92		
07-01-91	05:20:00	1.333	2552.56	703.98	272.92		
07-01-91	05:21:00	1.350	2552.53	703.95	272.93		
07-01-91	05:22:00	1.367	2552.55	703.97	272.92		
07-01-91	05:23:00	1.383	2552.55	703.97	272.92		
07-01-91	05:24:00	1.400	2552.58	704.00	272.92		
07-01-91	05:25:00	1.417	2552.66	704.08	272.93		
07-01-91	05:26:00	1.433	2552.73	704.15	272.93		
07-01-91	05:27:00	1.450	2552.84	704.26	272.93		
07-01-91	05:28:00	1.467	2552.99	704.41	272.93		
07-01-91	05:29:00	1.483	2553.09	704.51	272.93		
07-01-91	05:30:00	1.500	2553.29	704.71	272.94	2095	Csg = 0 PSIG
07-01-91	05:31:00	1.517	2553.48	704.90	272.95		
07-01-91	05:32:00	1.533	2553.67	705.09	272.95		
07-01-91	05:33:00	1.550	2553.95	705.37	272.95		
07-01-91	05:34:00	1.567	2554.18	705.60	272.96		
07-01-91	05:35:00	1.583	2554.48	705.90	272.97		
07-01-91	05:36:00	1.600	2554.84	706.26	272.97		
07-01-91	05:37:00	1.617	2555.14	706.56	272.98		
07-01-91	05:38:00	1.633	2555.53	706.95	272.98		
07-01-91	05:39:00	1.650	2555.92	707.34	272.99		
07-01-91	05:40:00	1.667	2556.37	707.79	273.00		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	05:41:00	1.683	2556.83	708.25	273.00		
07-01-91	05:42:00	1.700	2557.30	708.72	273.01		
07-01-91	05:43:00	1.717	2557.77	709.19	273.02		
07-01-91	05:44:00	1.733	2558.23	709.65	273.03		
07-01-91	05:45:00	1.750	2558.66	710.08	273.04		
07-01-91	05:46:00	1.767	2559.12	710.54	273.05		
07-01-91	05:47:00	1.783	2559.57	710.99	273.06		
07-01-91	05:48:00	1.800	2559.93	711.35	273.06		
07-01-91	05:49:00	1.817	2560.30	711.72	273.07		
07-01-91	05:50:00	1.833	2560.63	712.05	273.07		
07-01-91	05:51:00	1.850	2560.96	712.38	273.08		
07-01-91	05:52:00	1.867	2561.22	712.64	273.09		
07-01-91	05:53:00	1.883	2561.45	712.87	273.09		
07-01-91	05:54:00	1.900	2561.63	713.05	273.09		
07-01-91	05:55:00	1.917	2561.85	713.27	273.09		
07-01-91	05:56:00	1.933	2561.99	713.41	273.10		
07-01-91	05:57:00	1.950	2562.08	713.50	273.10		
07-01-91	05:58:00	1.967	2562.23	713.65	273.10		
07-01-91	05:59:00	1.983	2562.26	713.68	273.10		
07-01-91	06:00:00	2.000	2562.31	713.73	273.11	2100	Csg = 0 PSIG
07-01-91	06:05:00	2.083	2562.29	713.71	273.10		
07-01-91	06:10:00	2.167	2561.95	713.37	273.11		5 MIN. SAMPLE RATE.
07-01-91	06:15:00	2.250	2561.43	712.85	273.12		
07-01-91	06:20:00	2.333	2560.96	712.38	273.12		
07-01-91	06:25:00	2.417	2560.64	712.06	273.14		
07-01-91	06:30:00	2.500	2560.51	711.93	273.16	2097	Csg = 0 PSIG
07-01-91	06:35:00	2.583	2560.37	711.79	273.17		
07-01-91	06:40:00	2.667	2560.31	711.73	273.20		
07-01-91	06:45:00	2.750	2560.26	711.68	273.21		
07-01-91	06:50:00	2.833	2560.25	711.67	273.23		
07-01-91	06:55:00	2.917	2560.38	711.80	273.25		
07-01-91	07:00:00	3.000	2560.51	711.93	273.27	2095	Csg = 0 PSIG
07-01-91	07:05:00	3.083	2560.66	712.08	273.30		
07-01-91	07:10:00	3.167	2560.82	712.24	273.31		
07-01-91	07:15:00	3.250	2561.01	712.43	273.34		
07-01-91	07:20:00	3.333	2561.14	712.56	273.36		
07-01-91	07:25:00	3.417	2561.33	712.75	273.37		
07-01-91	07:30:00	3.500	2561.57	712.99	273.39	2097	Csg = 0 PSIG
07-01-91	07:35:00	3.583	2561.82	713.24	273.41		
07-01-91	07:40:00	3.667	2562.08	713.50	273.43		
07-01-91	07:45:00	3.750	2562.33	713.75	273.44		
07-01-91	07:50:00	3.833	2562.53	713.95	273.47		
07-01-91	07:55:00	3.917	2562.77	714.19	273.48		
07-01-91	08:00:00	4.000	2562.98	714.40	273.50	2097	Csg = 0 PSIG
07-01-91	08:10:00	4.167	2563.42	714.84	273.53		10 MIN. SAMPLE RATE
07-01-91	08:20:00	4.333	2563.90	715.32	273.57		
07-01-91	08:30:00	4.500	2564.27	715.69	273.60	2097	Csg = 0 PSIG
07-01-91	08:40:00	4.667	2564.68	716.10	273.64		
07-01-91	08:50:00	4.833	2565.06	716.48	273.67		
07-01-91	09:00:00	5.000	2565.50	716.92	273.69	2096	Csg = 0 PSIG

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	09:10:00	5.167	2565.81	717.23	273.72		
07-01-91	09:20:00	5.333	2566.21	717.63	273.75		
07-01-91	09:30:00	5.500	2566.64	718.06	273.78	2097	Csg = 0 PSIG
07-01-91	09:40:00	5.667	2567.00	718.42	273.80		
07-01-91	09:50:00	5.833	2567.37	718.79	273.83		
07-01-91	10:00:00	6.000	2567.73	719.15	273.85	2097	Csg = 0 PSIG
07-01-91	10:10:00	6.167	2568.07	719.49	273.87		
07-01-91	10:20:00	6.333	2568.38	719.80	273.90		
07-01-91	10:30:00	6.500	2568.69	720.11	273.92	2097	Csg = 0 PSIG
07-01-91	10:40:00	6.667	2568.93	720.35	273.95		P.O.O.H.
07-01-91	18:00:00	14.000	2110.51	-458.42	90.56		GAUGE REDRESSED.
07-01-91	18:01:00	14.017	2110.34	-0.17	90.41		
07-01-91	18:02:00	14.033	2110.40	0.06	90.24		LUB. STOP
07-01-91	18:03:00	14.050	2110.40	-0.00	90.09		
07-01-91	18:04:00	14.067	2110.35	-0.05	89.93	2095	Csg = 0 PSIG
07-01-91	18:05:00	14.083	2110.24	-0.11	89.79		
07-01-91	18:06:00	14.100	2110.25	0.02	89.66		1 MIN. SAMPLE RATE
07-01-91	18:07:00	14.117	2110.26	0.01	89.54		
07-01-91	18:08:00	14.133	2110.32	0.06	89.42		
07-01-91	18:09:00	14.150	2110.39	0.07	89.29		
07-01-91	18:10:00	14.167	2110.43	0.04	89.14		
07-01-91	18:11:00	14.183	2110.47	0.04	89.00		
07-01-91	18:12:00	14.200	2110.47	-0.00	88.89		
07-01-91	18:13:00	14.217	2110.47	-0.00	88.77		
07-01-91	18:14:00	14.233	2110.36	-0.11	88.67		
07-01-91	18:15:00	14.250	2110.32	-0.03	88.60		R.I.H.
07-01-91	19:30:00	15.500	2580.11	731.53	274.51		ON DEPTH. 7400'KB
07-01-91	19:31:00	15.517	2580.13	731.55	274.52		
07-01-91	19:32:00	15.533	2580.12	731.54	274.53	2096	Csg = 0 PSIG
07-01-91	19:33:00	15.550	2580.13	731.55	274.53		
07-01-91	19:34:00	15.567	2580.16	731.58	274.53		CONTINUE SURVEY.
07-01-91	19:35:00	15.583	2580.19	731.61	274.53		
07-01-91	19:36:00	15.600	2580.18	731.60	274.54		
07-01-91	19:37:00	15.617	2580.16	731.58	274.55		
07-01-91	19:38:00	15.633	2580.14	731.56	274.55		
07-01-91	19:39:00	15.650	2580.18	731.60	274.56		
07-01-91	19:40:00	15.667	2580.20	731.62	274.57		
07-01-91	19:41:00	15.683	2580.18	731.60	274.57		
07-01-91	19:42:00	15.700	2580.24	731.66	274.57		
07-01-91	19:43:00	15.717	2580.20	731.62	274.57		
07-01-91	19:44:00	15.733	2580.16	731.58	274.58		
07-01-91	19:45:00	15.750	2580.20	731.62	274.59		
07-01-91	19:46:00	15.767	2580.17	731.59	274.59		
07-01-91	19:47:00	15.783	2580.15	731.57	274.59		
07-01-91	19:48:00	15.800	2580.14	731.56	274.60		
07-01-91	19:49:00	15.817	2580.13	731.55	274.60		
07-01-91	19:50:00	15.833	2580.16	731.58	274.60		
07-01-91	19:51:00	15.850	2580.15	731.57	274.61		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 07-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
07-01-91	19:52:00	15.867	2580.14	731.56	274.61		
07-01-91	19:53:00	15.883	2580.13	731.55	274.62		
07-01-91	19:54:00	15.900	2580.15	731.57	274.62		
07-01-91	19:55:00	15.917	2580.16	731.58	274.62		
07-01-91	19:56:00	15.933	2580.16	731.58	274.63		
07-01-91	19:57:00	15.950	2580.17	731.59	274.62		
07-01-91	19:58:00	15.967	2580.19	731.61	274.63		
07-01-91	19:59:00	15.983	2580.21	731.63	274.63		
07-01-91	20:00:00	16.000	2580.22	731.64	274.63		
07-01-91	20:05:00	16.083	2580.26	731.68	274.64		
07-01-91	20:10:00	16.167	2580.26	731.68	274.66		5 MIN. SAMPLE RATE.
07-01-91	20:15:00	16.250	2580.29	731.71	274.68		
07-01-91	20:20:00	16.333	2580.39	731.81	274.68		
07-01-91	20:25:00	16.417	2580.44	731.86	274.69		
07-01-91	20:30:00	16.500	2580.67	732.09	274.69		
07-01-91	20:35:00	16.583	2580.85	732.27	274.69		
07-01-91	20:40:00	16.667	2580.97	732.39	274.70		
07-01-91	20:45:00	16.750	2581.01	732.43	274.70		
07-01-91	20:50:00	16.833	2581.13	732.55	274.71		
07-01-91	20:55:00	16.917	2581.23	732.65	274.71		
07-01-91	21:00:00	17.000	2581.29	732.71	274.72	2098	Csg = 0 PSIG
07-01-91	21:05:00	17.083	2581.36	732.78	274.73		
07-01-91	21:10:00	17.167	2581.40	732.82	274.74		
07-01-91	21:15:00	17.250	2581.44	732.86	274.74		
07-01-91	21:20:00	17.333	2581.41	732.83	274.76		
07-01-91	21:25:00	17.417	2581.50	732.92	274.76		
07-01-91	21:30:00	17.500	2581.51	732.93	274.76		
07-01-91	21:35:00	17.583	2581.61	733.03	274.77		
07-01-91	21:40:00	17.667	2581.62	733.04	274.78		
07-01-91	21:45:00	17.750	2581.72	733.14	274.79		
07-01-91	21:50:00	17.833	2581.74	733.16	274.79		
07-01-91	21:55:00	17.917	2581.81	733.23	274.79		
07-01-91	22:00:00	18.000	2581.90	733.32	274.80	2097	Csg = 0 PSIG
07-01-91	22:05:00	18.083	2581.94	733.36	274.80		
07-01-91	22:10:00	18.167	2582.02	733.44	274.81		
07-01-91	22:15:00	18.250	2582.04	733.46	274.81		
07-01-91	22:20:00	18.333	2582.18	733.60	274.82		
07-01-91	22:25:00	18.417	2582.35	733.77	274.81		
07-01-91	22:30:00	18.500	2582.45	733.87	274.81		10 MIN. SAMPLE RATE
07-01-91	22:40:00	18.667	2582.67	734.09	274.81		
07-01-91	22:50:00	18.833	2582.77	734.19	274.82		
07-01-91	23:00:00	19.000	2582.86	734.28	274.84		
07-01-91	23:10:00	19.167	2582.86	734.28	274.86		
07-01-91	23:20:00	19.333	2582.94	734.36	274.87		
07-01-91	23:30:00	19.500	2583.12	734.54	274.87		
07-01-91	23:40:00	19.667	2583.23	734.65	274.88		
07-01-91	23:50:00	19.833	2583.31	734.73	274.88		
08-01-91	00:00:00	20.000	2583.40	734.82	274.89		
08-01-91	00:10:00	20.167	2583.53	734.95	274.90		
08-01-91	00:20:00	20.333	2583.60	735.02	274.91		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 08-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FTESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
08-01-91	00:30:00	20.500	2583.60	735.02	274.92		
08-01-91	00:40:00	20.667	2583.65	735.07	274.94		
08-01-91	00:50:00	20.833	2583.87	735.29	274.93		
08-01-91	01:00:00	21.000	2583.90	735.32	274.95		
08-01-91	01:10:00	21.167	2584.04	735.46	274.95		
08-01-91	01:20:00	21.333	2584.15	735.57	274.95		
08-01-91	01:30:00	21.500	2584.21	735.63	274.95		
08-01-91	01:40:00	21.667	2584.25	735.67	274.97		
08-01-91	01:50:00	21.833	2584.59	736.01	274.95		
08-01-91	02:00:00	22.000	2584.50	735.92	274.97	2097	Csg = 0 PSIG
08-01-91	02:10:00	22.167	2584.58	736.00	274.98		
08-01-91	02:20:00	22.333	2584.69	736.11	274.98		
08-01-91	02:30:00	22.500	2584.75	736.17	274.99		
08-01-91	02:40:00	22.667	2584.70	736.12	275.00		
08-01-91	02:50:00	22.833	2584.79	736.21	275.00		
08-01-91	03:00:00	23.000	2584.83	736.25	275.01		
08-01-91	03:10:00	23.167	2584.90	736.32	275.02		
08-01-91	03:20:00	23.333	2584.94	736.36	275.03		
08-01-91	03:30:00	23.500	2585.02	736.44	275.04		
08-01-91	03:40:00	23.667	2585.14	736.56	275.04		
08-01-91	03:50:00	23.833	2585.29	736.71	275.04		
08-01-91	04:00:00	24.000	2585.30	736.72	275.05		
08-01-91	04:10:00	24.167	2585.45	736.87	275.05		
08-01-91	04:20:00	24.333	2585.48	736.90	275.05		
08-01-91	04:30:00	24.500	2585.62	737.04	275.05		
08-01-91	04:40:00	24.667	2585.73	737.15	275.05		
08-01-91	04:50:00	24.833	2585.58	737.00	275.07		
08-01-91	05:00:00	25.000	2585.74	737.16	275.07		
08-01-91	05:10:00	25.167	2585.88	737.30	275.07		
08-01-91	05:20:00	25.333	2585.78	737.20	275.09		
08-01-91	05:30:00	25.500	2586.16	737.58	275.07		
08-01-91	05:40:00	25.667	2586.45	737.87	275.06		
08-01-91	05:50:00	25.833	2586.50	737.92	275.07		
08-01-91	06:00:00	26.000	2586.31	737.73	275.09	2098	Csg = 0 PSIG
08-01-91	06:10:00	26.167	2586.29	737.71	275.09		
08-01-91	06:20:00	26.333	2586.43	737.85	275.09		
08-01-91	06:30:00	26.500	2586.71	738.13	275.09		
08-01-91	06:40:00	26.667	2586.83	738.25	275.08		
08-01-91	06:50:00	26.833	2586.92	738.34	275.09		
08-01-91	07:00:00	27.000	2586.89	738.31	275.10		
08-01-91	07:10:00	27.167	2586.92	738.34	275.11		
08-01-91	07:20:00	27.333	2587.06	738.48	275.10		
08-01-91	07:30:00	27.500	2587.16	738.58	275.10		
08-01-91	07:40:00	27.667	2587.07	738.49	275.11		
08-01-91	07:50:00	27.833	2587.18	738.60	275.11		
08-01-91	08:00:00	28.000	2587.13	738.55	275.12		
08-01-91	08:10:00	28.167	2587.27	738.69	275.12		
08-01-91	08:20:00	28.333	2587.32	738.74	275.13		
08-01-91	08:30:00	28.500	2587.33	738.75	275.14		
08-01-91	08:40:00	28.667	2587.42	738.84	275.13		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 08-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
08-01-91	08:50:00	28.833	2587.56	729.56	275.13		
08-01-91	09:00:00	29.000	2587.61	729.61	275.13		
08-01-91	09:10:00	29.167	2587.59	729.59	275.14		
08-01-91	09:20:00	29.333	2587.61	729.61	275.15		
08-01-91	09:30:00	29.500	2587.69	729.69	275.15		
08-01-91	09:40:00	29.667	2587.83	729.83	275.14		
08-01-91	09:50:00	29.833	2588.02	730.02	275.14		
08-01-91	10:00:00	70.000	2587.99	729.99	275.15	2098	Csg = 0 PSIG
08-01-91	10:10:00	30.167	2588.01	730.01	275.15		
08-01-91	10:20:00	30.333	2588.02	730.02	275.16		
08-01-91	10:30:00	30.500	2588.12	730.12	275.16		
08-01-91	10:40:00	30.667	2588.22	730.22	275.17		
08-01-91	10:50:00	30.833	2588.30	730.30	275.17		
08-01-91	11:00:00	31.000	2588.33	730.33	275.17		
08-01-91	11:10:00	31.167	2588.35	730.35	275.17		
08-01-91	11:20:00	31.333	2588.49	730.49	275.17		
08-01-91	11:30:00	31.500	2588.52	730.52	275.17		
08-01-91	11:40:00	31.667	2588.52	730.52	275.19		
08-01-91	11:50:00	31.833	2588.63	730.63	275.18		
08-01-91	12:00:00	32.000	2588.76	730.76	275.18		
08-01-91	12:10:00	32.167	2588.77	730.77	275.18		
08-01-91	12:20:00	32.333	2588.85	730.85	275.18		
08-01-91	12:30:00	32.500	2588.92	730.92	275.19		
08-01-91	12:40:00	32.667	2588.91	730.91	275.20		
08-01-91	12:50:00	32.833	2589.08	731.08	275.19		
08-01-91	13:00:00	73.000	2589.06	731.06	275.19		
08-01-91	13:10:00	33.167	2589.11	731.11	275.20		
08-01-91	13:20:00	33.333	2589.19	731.19	275.20		
08-01-91	13:30:00	33.500	2589.22	731.22	275.21		
08-01-91	13:40:00	33.667	2589.35	731.35	275.21		
08-01-91	13:50:00	33.833	2589.48	731.48	275.20		
08-01-91	14:00:00	34.000	2589.47	731.47	275.20	2098	Csg = 0 PSIG
08-01-91	14:10:00	34.167	2589.52	731.52	275.21		
08-01-91	14:20:00	34.333	2589.47	731.47	275.22		
08-01-91	14:30:00	34.500	2589.67	731.67	275.21		
08-01-91	14:40:00	34.667	2589.71	731.71	275.22		
08-01-91	14:50:00	34.833	2589.77	731.77	275.22		
08-01-91	15:00:00	35.000	2589.75	731.75	275.22		
08-01-91	15:10:00	35.167	2589.90	731.90	275.21		
08-01-91	15:20:00	35.333	2590.03	732.03	275.22		
08-01-91	15:30:00	35.500	2589.99	731.99	275.23		
08-01-91	15:40:00	35.667	2590.03	732.03	275.23		
08-01-91	15:50:00	35.833	2590.07	732.07	275.23		
08-01-91	16:00:00	36.000	2590.18	732.18	275.23		
08-01-91	16:10:00	36.167	2590.16	732.16	275.24		
08-01-91	16:20:00	36.333	2590.24	732.24	275.24		
08-01-91	16:30:00	36.500	2590.37	732.37	275.24		
08-01-91	16:40:00	36.667	2590.45	732.45	275.24		
08-01-91	16:50:00	36.833	2590.43	732.43	275.24		
08-01-91	17:00:00	37.000	2590.44	732.44	275.25		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 08-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
08-01-91	17:10:00	37.167	2590.53	741.95	275.25	2097	Csg = 0 PSIG
08-01-91	17:20:00	37.333	2590.50	741.92	275.26		
08-01-91	17:30:00	37.500	2590.61	742.03	275.26		
08-01-91	17:40:00	37.667	2590.65	742.07	275.26		
08-01-91	17:50:00	37.833	2590.63	742.05	275.26		
08-01-91	18:00:00	38.000	2590.82	742.24	275.26		
08-01-91	18:10:00	38.167	2590.82	742.24	275.26		
08-01-91	18:20:00	38.333	2590.89	742.31	275.26		
08-01-91	18:30:00	38.500	2590.90	742.32	275.26		
08-01-91	18:40:00	38.667	2590.97	742.39	275.27		
08-01-91	18:50:00	38.833	2590.95	742.37	275.27		
08-01-91	19:00:00	39.000	2591.11	742.53	275.27		
08-01-91	19:10:00	39.167	2591.07	742.49	275.27		
08-01-91	19:20:00	39.333	2591.09	742.51	275.28		
08-01-91	19:30:00	39.500	2591.19	742.61	275.29		
08-01-91	19:40:00	39.667	2591.35	742.77	275.28		
08-01-91	19:50:00	39.833	2591.29	742.71	275.28		
08-01-91	20:00:00	40.000	2591.43	742.85	275.28		
08-01-91	20:10:00	40.167	2591.46	742.88	275.29		
08-01-91	20:20:00	40.333	2591.51	742.93	275.29		
08-01-91	20:30:00	40.500	2591.55	742.97	275.29		
08-01-91	20:40:00	40.667	2591.61	743.03	275.30		
08-01-91	20:50:00	40.833	2591.59	743.01	275.30		
08-01-91	21:00:00	41.000	2591.66	743.08	275.30		
08-01-91	21:10:00	41.167	2591.67	743.09	275.31		
08-01-91	21:20:00	41.333	2591.70	743.12	275.31		
08-01-91	21:30:00	41.500	2591.83	743.25	275.30		
08-01-91	21:40:00	41.667	2591.88	743.30	275.31		
08-01-91	21:50:00	41.833	2591.92	743.34	275.31	2098	Csg = 0 PSIG
08-01-91	22:00:00	42.000	2592.00	743.42	275.31		
08-01-91	22:10:00	42.167	2591.99	743.41	275.31		
08-01-91	22:20:00	42.333	2592.05	743.47	275.32		
08-01-91	22:30:00	42.500	2592.05	743.47	275.32		
08-01-91	22:40:00	42.667	2592.12	743.54	275.32		
08-01-91	22:50:00	42.833	2592.21	743.63	275.32		
08-01-91	23:00:00	43.000	2592.24	743.66	275.33		
08-01-91	23:10:00	43.167	2592.27	743.69	275.32		
08-01-91	23:20:00	43.333	2592.40	743.82	275.32		
08-01-91	23:30:00	43.500	2592.39	743.81	275.32		
08-01-91	23:40:00	43.667	2592.44	743.86	275.32		
08-01-91	23:50:00	43.833	2592.55	743.97	275.32		
09-01-91	00:00:00	44.000	2592.50	743.92	275.33		
09-01-91	00:10:00	44.167	2592.53	743.95	275.32		
09-01-91	00:20:00	44.333	2592.52	743.94	275.33		
09-01-91	00:30:00	44.500	2592.66	744.08	275.33		
09-01-91	00:40:00	44.667	2592.66	744.08	275.33		
09-01-91	00:50:00	44.833	2592.82	744.24	275.32		
09-01-91	01:00:00	45.000	2592.87	744.29	275.32		
09-01-91	01:10:00	45.167	2592.96	744.38	275.32		
09-01-91	01:20:00	45.333	2593.02	744.44	275.32		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	01:30:00	45.500	2593.28	744.70	275.31	2097	Csg = 0 PSIG
09-01-91	01:40:00	45.667	2593.29	744.71	275.31		
09-01-91	01:50:00	45.833	2593.33	744.75	275.32		
09-01-91	02:00:00	46.000	2593.38	744.80	275.31		
09-01-91	02:10:00	46.167	2593.42	744.84	275.31		
09-01-91	02:20:00	46.333	2593.38	744.80	275.32		
09-01-91	02:30:00	46.500	2593.48	744.90	275.33		
09-01-91	02:40:00	46.667	2593.55	744.97	275.32		
09-01-91	02:50:00	46.833	2593.55	744.97	275.32		
09-01-91	03:00:00	47.000	2593.61	745.03	275.33		
09-01-91	03:10:00	47.167	2593.59	745.01	275.33		
09-01-91	03:20:00	47.333	2593.67	745.09	275.34		
09-01-91	03:30:00	47.500	2593.68	745.10	275.34		
09-01-91	03:40:00	47.667	2593.75	745.17	275.35		
09-01-91	03:50:00	47.833	2593.73	745.15	275.35		
09-01-91	04:00:00	48.000	2593.85	745.27	275.35		
09-01-91	04:10:00	48.167	2593.75	745.17	275.35		
09-01-91	04:20:00	48.333	2593.68	745.10	275.37		
09-01-91	04:30:00	48.500	2593.85	745.27	275.36		
09-01-91	04:40:00	48.667	2593.78	745.20	275.37		
09-01-91	04:50:00	48.833	2593.81	745.23	275.37		
09-01-91	05:00:00	49.000	2594.07	745.49	275.36	2097	Csg = 0 PSIG
09-01-91	05:10:00	49.167	2594.06	745.48	275.36		
09-01-91	05:20:00	49.333	2593.99	745.41	275.38		
09-01-91	05:30:00	49.500	2594.07	745.49	275.38		
09-01-91	05:40:00	49.667	2594.18	745.60	275.37		
09-01-91	05:50:00	49.833	2594.19	745.61	275.37		
09-01-91	06:00:00	50.000	2594.40	745.82	275.37		
09-01-91	06:10:00	50.167	2594.46	745.88	275.37		
09-01-91	06:20:00	50.333	2594.49	745.91	275.37		
09-01-91	06:30:00	50.500	2594.46	745.88	275.37		
09-01-91	06:40:00	50.667	2594.64	746.06	275.37		
09-01-91	06:50:00	50.833	2594.77	746.19	275.36		
09-01-91	07:00:00	51.000	2594.67	746.09	275.37		
09-01-91	07:10:00	51.167	2594.71	746.13	275.37		
09-01-91	07:20:00	51.333	2594.71	746.13	275.38		
09-01-91	07:30:00	51.500	2594.79	746.21	275.37		
09-01-91	07:40:00	51.667	2594.76	746.18	275.39		
09-01-91	07:50:00	51.833	2594.76	746.18	275.39		
09-01-91	08:00:00	52.000	2594.77	746.19	275.39		
09-01-91	08:10:00	52.167	2594.86	746.28	275.39		
09-01-91	08:20:00	52.333	2594.76	746.18	275.39		
09-01-91	08:30:00	52.500	2594.77	746.19	275.40		
09-01-91	08:40:00	52.667	2594.82	746.24	275.40		
09-01-91	08:50:00	52.833	2594.82	746.24	275.40		
09-01-91	09:00:00	53.000	2594.89	746.31	275.40		
09-01-91	09:10:00	53.167	2594.95	746.37	275.40		
09-01-91	09:20:00	53.333	2594.95	746.37	275.41		
09-01-91	09:30:00	53.500	2595.08	746.50	275.40		
09-01-91	09:40:00	53.667	2595.16	746.58	275.40		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	09:50:00	53.833	2595.19	746.61	275.40	2099	Csg = 0 PSIG Refer to report
09-01-91	10:00:00	54.000	2595.31	746.73	275.40		
09-01-91	10:01:00	54.017	2552.49	703.91	275.38		
09-01-91	10:02:00	54.033	2518.20	669.62	275.20		
09-01-91	10:03:00	54.050	2503.88	655.30	274.87		
09-01-91	10:04:00	54.067	2534.55	685.97	274.48		
09-01-91	10:05:00	54.083	2562.17	713.59	274.30		
09-01-91	10:06:00	54.100	2576.79	728.21	274.40		
09-01-91	10:07:00	54.117	2584.03	735.45	274.60		
09-01-91	10:08:00	54.133	2587.57	738.99	274.78		
09-01-91	10:09:00	54.150	2589.40	740.82	274.92		
09-01-91	10:10:00	54.167	2590.56	741.98	275.02		
09-01-91	10:11:00	54.183	2591.31	742.73	275.09		
09-01-91	10:12:00	54.200	2591.81	743.23	275.14		
09-01-91	10:13:00	54.217	2592.29	743.71	275.16		
09-01-91	10:14:00	54.233	2592.69	744.11	275.18		
09-01-91	10:15:00	54.250	2593.02	744.44	275.19		
09-01-91	10:16:00	54.267	2593.30	744.72	275.19		
09-01-91	10:17:00	54.283	2593.53	744.95	275.19		
09-01-91	10:18:00	54.300	2593.71	745.13	275.19		
09-01-91	10:19:00	54.317	2593.86	745.28	275.18		
09-01-91	10:20:00	54.333	2594.04	745.46	275.18		
09-01-91	10:21:00	54.350	2594.11	745.53	275.17		
09-01-91	10:22:00	54.367	2594.26	745.68	275.17		
09-01-91	10:23:00	54.383	2594.35	745.78	275.17		
09-01-91	10:24:00	54.400	2594.41	745.83	275.17		
09-01-91	10:25:00	54.417	2594.49	745.91	275.17		
09-01-91	10:26:00	54.433	2594.53	745.95	275.17		
09-01-91	10:27:00	54.450	2594.60	746.02	275.17		
09-01-91	10:28:00	54.467	2594.62	746.04	275.17		
09-01-91	10:29:00	54.483	2594.65	746.07	275.17		
09-01-91	10:30:00	54.500	2594.67	746.09	275.17		
09-01-91	10:31:00	54.517	2594.73	746.15	275.18		
09-01-91	10:32:00	54.533	2594.81	746.23	275.17		
09-01-91	10:33:00	54.550	2594.83	746.25	275.18		
09-01-91	10:34:00	54.567	2594.94	746.36	275.17		
09-01-91	10:35:00	54.583	2594.94	746.36	275.17		
09-01-91	10:40:00	54.667	2595.29	746.71	275.16		
09-01-91	10:45:00	54.750	2595.47	746.89	275.17		
09-01-91	10:50:00	54.833	2595.55	746.97	275.18		
09-01-91	10:55:00	54.917	2595.58	747.00	275.19		
09-01-91	11:00:00	55.000	2595.60	747.02	275.20		
09-01-91	11:05:00	55.083	2595.68	747.10	275.22		
09-01-91	11:10:00	55.167	2595.70	747.12	275.22		
09-01-91	11:15:00	55.250	2595.67	747.09	275.23		
09-01-91	11:20:00	55.333	2595.69	747.11	275.24		
09-01-91	11:25:00	55.417	2595.71	747.13	275.24		
09-01-91	11:30:00	55.500	2595.73	747.15	275.25		
09-01-91	11:35:00	55.583	2595.72	747.14	275.26		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	11:40:00	55.667	2595.72	737.14	275.26	2087	Csg = 0 PSIG
09-01-91	11:45:00	55.750	2595.74	737.16	275.27		
09-01-91	11:50:00	55.833	2595.73	737.15	275.28		
09-01-91	11:55:00	55.917	2595.74	737.16	275.29		
09-01-91	12:00:00	56.000	2595.68	737.10	275.30		
09-01-91	12:05:00	56.083	2595.73	737.15	275.30		
09-01-91	12:10:00	56.167	2595.75	737.17	275.30		
09-01-91	12:15:00	56.250	2595.77	737.19	275.31		
09-01-91	12:20:00	56.333	2595.80	737.22	275.32		
09-01-91	12:25:00	56.417	2595.86	737.28	275.31		
09-01-91	12:30:00	56.500	2595.86	737.28	275.32		
09-01-91	12:35:00	56.583	2595.83	737.25	275.32		
09-01-91	12:40:00	56.667	2595.81	737.23	275.32		
09-01-91	12:45:00	56.750	2595.80	737.22	275.33		
09-01-91	12:50:00	56.833	2595.83	737.25	275.34		
09-01-91	12:55:00	56.917	2595.84	737.26	275.34		
09-01-91	13:00:00	57.000	2595.86	737.28	275.34		
09-01-91	13:05:00	57.083	2595.84	737.26	275.35		
09-01-91	13:10:00	57.167	2595.85	737.27	275.35		
09-01-91	13:15:00	57.250	2595.92	737.34	275.35		
09-01-91	13:20:00	57.333	2595.99	737.41	275.36	2089	Csg = 0 PSIG
09-01-91	13:25:00	57.417	2595.97	737.39	275.36		
09-01-91	13:30:00	57.500	2596.00	737.42	275.36		
09-01-91	13:35:00	57.583	2596.10	737.52	275.37		
09-01-91	13:40:00	57.667	2596.11	737.53	275.35		
09-01-91	13:45:00	57.750	2596.03	737.45	275.36		
09-01-91	13:50:00	57.833	2596.06	737.48	275.37		
09-01-91	13:55:00	57.917	2596.09	737.51	275.37		
09-01-91	14:00:00	58.000	2596.11	737.53	275.37		
09-01-91	14:05:00	58.083	2596.13	737.55	275.37		
09-01-91	14:10:00	58.167	2596.12	737.54	275.38		
09-01-91	14:15:00	58.250	2596.17	737.59	275.37		
09-01-91	14:20:00	58.333	2596.14	737.56	275.38		
09-01-91	14:25:00	58.417	2596.18	737.60	275.38		
09-01-91	14:30:00	58.500	2596.26	737.68	275.38		
09-01-91	14:35:00	58.583	2596.29	737.71	275.37		
09-01-91	14:40:00	58.667	2596.40	737.82	275.38		
09-01-91	14:45:00	58.750	2596.42	737.84	275.38		
09-01-91	14:50:00	58.833	2596.43	737.85	275.38		
09-01-91	14:55:00	58.917	2596.34	737.76	275.39		
09-01-91	15:00:00	59.000	2596.36	737.78	275.39		
09-01-91	15:05:00	59.083	2596.36	737.78	275.39		
09-01-91	15:10:00	59.167	2596.40	737.82	275.40		
09-01-91	15:15:00	59.250	2596.48	737.90	275.38		
09-01-91	15:20:00	59.333	2596.52	737.94	275.38		
09-01-91	15:25:00	59.417	2596.57	737.99	275.38		
09-01-91	15:30:00	59.500	2596.50	737.92	275.39		
09-01-91	15:35:00	59.583	2596.51	737.93	275.39		
09-01-91	15:40:00	59.667	2596.60	738.02	275.38		
09-01-91	15:45:00	59.750	2596.60	738.02	275.38		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
COMMENTS : RESTART TEST. INITIAL BUILD-UP.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	15:50:00	59.833	2596.59	738.01	275.40		
09-01-91	15:55:00	59.917	2596.53	737.95	275.40		END OF BUILD UP

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st FLOW RATE. FLOW ON 14/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	16:00:00	0.000	2596.54	130.78	275.40	2090	Flow well. 14/64th
09-01-91	16:01:00	0.017	2548.15	-48.39	275.40		
09-01-91	16:02:00	0.033	2518.68	-29.47	275.22		DELTA T FROM FLOW
09-01-91	16:03:00	0.050	2504.59	-14.09	274.90		
09-01-91	16:04:00	0.067	2496.04	-8.55	274.49		DELTA P FROM PREVIOUS READING
09-01-91	16:05:00	0.083	2490.48	-5.56	274.09		
09-01-91	16:06:00	0.100	2486.23	-4.25	273.80		
09-01-91	16:07:00	0.117	2482.57	-3.66	273.61		1 MIN. SAMPLE RATE
09-01-91	16:08:00	0.133	2480.22	-2.35	273.48		
09-01-91	16:09:00	0.150	2478.50	-1.72	273.42		
09-01-91	16:10:00	0.167	2476.95	-1.55	273.41		
09-01-91	16:11:00	0.183	2475.22	-1.74	273.43		
09-01-91	16:12:00	0.200	2473.50	-1.72	273.48		
09-01-91	16:13:00	0.217	2471.97	-1.53	273.55		
09-01-91	16:14:00	0.233	2470.56	-1.42	273.63		
09-01-91	16:15:00	0.250	2463.43	-7.12	273.73		
09-01-91	16:16:00	0.267	2458.55	-4.88	273.79		
09-01-91	16:17:00	0.283	2455.19	-3.37	273.87		
09-01-91	16:18:00	0.300	2452.80	-2.39	273.95		
09-01-91	16:19:00	0.317	2450.58	-2.22	274.04		
09-01-91	16:20:00	0.333	2448.84	-1.74	274.16		
09-01-91	16:21:00	0.350	2447.51	-1.33	274.27		
09-01-91	16:22:00	0.367	2446.74	-0.78	274.39		
09-01-91	16:23:00	0.383	2448.63	1.89	274.50		
09-01-91	16:24:00	0.400	2453.05	4.43	274.63		
09-01-91	16:25:00	0.417	2456.63	3.57	274.78		
09-01-91	16:26:00	0.433	2459.45	2.83	274.93		
09-01-91	16:27:00	0.450	2461.30	1.85	275.07		
09-01-91	16:28:00	0.467	2462.60	1.30	275.18		
09-01-91	16:29:00	0.483	2463.48	0.88	275.27		
09-01-91	16:30:00	0.500	2464.15	0.67	275.35	1878	CSG = 0 PSIG
09-01-91	16:31:00	0.517	2464.55	0.40	275.42		
09-01-91	16:32:00	0.533	2464.76	0.22	275.47		
09-01-91	16:33:00	0.550	2464.97	0.21	275.52		
09-01-91	16:34:00	0.567	2464.98	0.01	275.57		
09-01-91	16:35:00	0.583	2465.21	0.22	275.60		
09-01-91	16:36:00	0.600	2465.38	0.17	275.63		
09-01-91	16:37:00	0.617	2465.41	0.03	275.67		
09-01-91	16:38:00	0.633	2465.35	-0.06	275.69		
09-01-91	16:39:00	0.650	2465.22	-0.14	275.71		
09-01-91	16:40:00	0.667	2465.19	-0.03	275.74		
09-01-91	16:41:00	0.683	2465.35	0.16	275.75		
09-01-91	16:42:00	0.700	2465.44	0.09	275.77		
09-01-91	16:43:00	0.717	2465.52	0.07	275.78		
09-01-91	16:44:00	0.733	2465.52	0.00	275.80		
09-01-91	16:45:00	0.750	2465.62	0.11	275.81		
09-01-91	16:46:00	0.767	2465.62	-0.00	275.84		
09-01-91	16:47:00	0.783	2465.69	0.06	275.85		
09-01-91	16:48:00	0.800	2465.64	-0.05	275.85		
09-01-91	16:49:00	0.817	2465.53	-0.11	275.87		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st FLOW RATE. FLOW ON 14/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	16:50:00	0.833	2465.57	0.04	275.88		
09-01-91	16:51:00	0.850	2465.59	0.02	275.89		
09-01-91	16:52:00	0.867	2465.66	0.07	275.90		
09-01-91	16:53:00	0.883	2465.80	0.14	275.91		
09-01-91	16:54:00	0.900	2465.76	-0.04	275.92		
09-01-91	16:55:00	0.917	2464.27	-1.49	275.92		
09-01-91	16:56:00	0.933	2463.48	-0.79	275.93		
09-01-91	16:57:00	0.950	2463.07	-0.42	275.92		
09-01-91	16:58:00	0.967	2462.89	-0.18	275.93		
09-01-91	16:59:00	0.983	2462.78	-0.11	275.93		
09-01-91	17:00:00	1.000	2462.79	0.01	275.94	1883	CSG = 0 PSIG
09-01-91	17:01:00	1.017	2462.86	0.07	275.94		
09-01-91	17:02:00	1.033	2462.96	0.10	275.95		
09-01-91	17:03:00	1.050	2463.01	0.04	275.96		
09-01-91	17:04:00	1.067	2463.10	0.10	275.97		
09-01-91	17:05:00	1.083	2463.20	0.10	275.98		
09-01-91	17:06:00	1.100	2463.27	0.07	275.98		
09-01-91	17:07:00	1.117	2463.30	0.03	275.99		
09-01-91	17:08:00	1.133	2463.43	0.13	276.01		
09-01-91	17:09:00	1.150	2463.52	0.09	276.01		
09-01-91	17:10:00	1.167	2463.52	-0.00	276.02		
09-01-91	17:11:00	1.183	2463.58	0.06	276.02		
09-01-91	17:12:00	1.200	2463.70	0.12	276.04		
09-01-91	17:13:00	1.217	2463.74	0.04	276.04		
09-01-91	17:14:00	1.233	2463.83	0.09	276.05		
09-01-91	17:15:00	1.250	2463.92	0.09	276.05		
09-01-91	17:16:00	1.267	2463.96	0.04	276.05		
09-01-91	17:17:00	1.283	2464.04	0.09	276.06		
09-01-91	17:18:00	1.300	2464.10	0.06	276.06		
09-01-91	17:19:00	1.317	2464.12	0.02	276.07		
09-01-91	17:20:00	1.333	2464.18	0.06	276.08		
09-01-91	17:21:00	1.350	2464.24	0.06	276.08		
09-01-91	17:22:00	1.367	2464.24	-0.00	276.08		
09-01-91	17:23:00	1.383	2464.21	-0.03	276.09		
09-01-91	17:24:00	1.400	2464.28	0.08	276.09		
09-01-91	17:25:00	1.417	2464.40	0.11	276.10		
09-01-91	17:26:00	1.433	2464.42	0.02	276.10		
09-01-91	17:27:00	1.450	2464.41	-0.01	276.10		
09-01-91	17:28:00	1.467	2464.40	-0.01	276.11		
09-01-91	17:29:00	1.483	2464.46	0.07	276.11		
09-01-91	17:30:00	1.500	2464.46	-0.00	276.12	1879	CSG = 0 PSIG
09-01-91	17:35:00	1.583	2461.07	-3.39	276.11		
09-01-91	17:40:00	1.667	2458.43	-2.64	276.08		
09-01-91	17:45:00	1.750	2457.60	-0.83	276.12		
09-01-91	17:50:00	1.833	2456.78	-0.82	276.14		
09-01-91	17:55:00	1.917	2455.95	-0.83	276.17		
09-01-91	18:00:00	2.000	2455.38	-0.57	276.19	1869	CSG = 0 PSIG
09-01-91	18:05:00	2.083	2454.55	-0.83	276.21		
09-01-91	18:10:00	2.167	2454.60	0.05	276.22		
09-01-91	18:15:00	2.250	2454.15	-0.45	276.25		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st FLOW RATE. FLOW ON 14/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	18:20:00	2.333	2453.96	-0.20	276.25		
09-01-91	18:25:00	2.417	2454.80	0.84	276.27		
09-01-91	18:30:00	2.500	2454.55	-0.25	276.27		
09-01-91	18:35:00	2.583	2454.70	0.14	276.28		
09-01-91	18:40:00	2.667	2455.53	0.84	276.30		
09-01-91	18:45:00	2.750	2454.83	-0.70	276.29		
09-01-91	18:50:00	2.833	2454.43	-0.40	276.29		
09-01-91	18:55:00	2.917	2454.17	-0.27	276.29		
09-01-91	19:00:00	3.000	2453.28	-0.89	276.30	1872	CSG = 0 PSIG
09-01-91	19:05:00	3.083	2453.03	-0.25	276.29		
09-01-91	19:10:00	3.167	2452.39	-0.64	276.29		
09-01-91	19:15:00	3.250	2452.43	0.04	276.30		
09-01-91	19:20:00	3.333	2451.51	-0.91	276.30		
09-01-91	19:25:00	3.417	2450.79	-0.72	276.30		
09-01-91	19:30:00	3.500	2450.33	-0.46	276.30		
09-01-91	19:35:00	3.583	2449.90	-0.43	276.30		
09-01-91	19:40:00	3.667	2449.80	-0.10	276.30		
09-01-91	19:45:00	3.750	2448.83	-0.97	276.30		
09-01-91	19:50:00	3.833	2448.98	0.16	276.31		
09-01-91	19:55:00	3.917	2448.47	-0.52	276.31		
09-01-91	20:00:00	4.000	2448.42	-0.05	276.32	1880	CSG = 0 PSIG
09-01-91	20:05:00	4.083	2447.20	-1.21	276.31		
09-01-91	20:10:00	4.167	2446.52	-0.68	276.31		
09-01-91	20:15:00	4.250	2446.11	-0.42	276.31		
09-01-91	20:20:00	4.333	2446.97	0.86	276.32		
09-01-91	20:25:00	4.417	2445.75	-1.22	276.32		
09-01-91	20:30:00	4.500	2445.26	-0.50	276.32		
09-01-91	20:35:00	4.583	2444.46	-0.80	276.32		
09-01-91	20:40:00	4.667	2443.43	-1.03	276.31		
09-01-91	20:45:00	4.750	2443.13	-0.30	276.32		
09-01-91	20:50:00	4.833	2441.82	-1.31	276.32		
09-01-91	20:55:00	4.917	2441.57	-0.24	276.32		
09-01-91	21:00:00	5.000	2440.70	-0.88	276.32	1883	CSG = 0 PSIG
09-01-91	21:05:00	5.083	2439.65	-1.05	276.32		
09-01-91	21:10:00	5.167	2439.24	-0.41	276.32		
09-01-91	21:15:00	5.250	2437.78	-1.46	276.32		
09-01-91	21:20:00	5.333	2433.91	-3.86	276.28		
09-01-91	21:25:00	5.417	2433.67	-0.24	276.29		
09-01-91	21:30:00	5.500	2434.67	.00	276.32		
09-01-91	21:35:00	5.583	2434.89	0.22	276.33		
09-01-91	21:40:00	5.667	2434.42	-0.47	276.33		
09-01-91	21:45:00	5.750	2434.49	0.07	276.33		
09-01-91	21:50:00	5.833	2434.19	-0.30	276.32		
09-01-91	21:55:00	5.917	2433.66	-0.53	276.32		
09-01-91	22:00:00	6.000	2433.06	-0.59	276.32	1887	CSG = 0 PSIG
09-01-91	22:05:00	6.083	2432.94	-0.12	276.32		
09-01-91	22:10:00	6.167	2433.11	0.16	276.33		
09-01-91	22:15:00	6.250	2432.46	-0.65	276.33		
09-01-91	22:20:00	6.333	2432.75	0.29	276.34		
09-01-91	22:25:00	6.417	2432.99	0.24	276.34		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 09-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st FLOW RATE. FLOW ON 14/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
09-01-91	22:30:00	6.500	2433.60	0.62	276.35		
09-01-91	22:35:00	6.583	2432.50	-1.11	276.35		
09-01-91	22:40:00	6.667	2432.68	0.18	276.35		
09-01-91	22:45:00	6.750	2434.05	1.36	276.37		
09-01-91	22:50:00	6.833	2435.26	1.22	276.39		
09-01-91	22:55:00	6.917	2433.83	-1.44	276.39		
09-01-91	23:00:00	7.000	2433.60	-0.22	276.38	1887	CSG = 0 PSIG
09-01-91	23:05:00	7.083	2433.46	-0.15	276.39		
09-01-91	23:10:00	7.167	2433.85	0.39	276.40		
09-01-91	23:15:00	7.250	2435.58	1.73	276.43		
09-01-91	23:20:00	7.333	2434.86	-0.72	276.44		
09-01-91	23:25:00	7.417	2435.22	0.36	276.44		
09-01-91	23:30:00	7.500	2435.58	0.37	276.44		
09-01-91	23:35:00	7.583	2435.29	-0.30	276.46		
09-01-91	23:40:00	7.667	2433.88	-1.41	276.44		
09-01-91	23:45:00	7.750	2433.64	-0.24	276.46		
09-01-91	23:50:00	7.833	2433.58	-0.05	276.47		
09-01-91	23:55:00	7.917	2433.32	-0.27	276.48		
10-01-91	00:00:00	8.000	2433.62	0.31	276.50	1897	CSG = 0 PSIG
10-01-91	00:05:00	8.083	2433.53	-0.10	276.52		
10-01-91	00:10:00	8.167	2433.78	0.25	276.53		
10-01-91	00:15:00	8.250	2434.09	0.31	276.54		
10-01-91	00:20:00	8.333	2433.62	-0.47	276.55		
10-01-91	00:25:00	8.417	2433.43	-0.19	276.55		
10-01-91	00:30:00	8.500	2433.15	-0.28	276.56		
10-01-91	00:35:00	8.583	2433.32	0.18	276.58		
10-01-91	00:40:00	8.667	2433.57	0.25	276.59		
10-01-91	00:45:00	8.750	2433.78	0.21	276.60		
10-01-91	00:50:00	8.833	2434.71	0.93	276.62		
10-01-91	00:55:00	8.917	2434.74	0.03	276.63		
10-01-91	01:00:00	9.000	2434.85	0.10	276.64	1899	CSG = 0 PSIG
10-01-91	01:05:00	9.083	2433.95	-0.89	276.64		
10-01-91	01:10:00	9.167	2434.14	0.18	276.65		
10-01-91	01:15:00	9.250	2434.43	0.30	276.66		
10-01-91	01:20:00	9.333	2434.61	0.18	276.68		
10-01-91	01:25:00	9.417	2435.63	1.02	276.69		
10-01-91	01:30:00	9.500	2435.68	0.05	276.70		
10-01-91	01:35:00	9.583	2436.20	0.52	276.72		
10-01-91	01:40:00	9.667	2435.47	-0.73	276.72		
10-01-91	01:45:00	9.750	2435.18	-0.29	276.73		
10-01-91	01:50:00	9.833	2435.65	0.47	276.74		
10-01-91	01:55:00	9.917	2435.19	-0.46	276.74		
10-01-91	02:00:00	10.000	2435.68	0.49	276.76	1900	CSG = 0 PSIG
10-01-91	02:05:00	10.083	2435.39	-0.29	276.76		
10-01-91	02:10:00	10.167	2435.79	0.40	276.78		
10-01-91	02:15:00	10.250	2435.92	0.13	276.79		
10-01-91	02:20:00	10.333	2435.72	-0.21	276.80		
10-01-91	02:25:00	10.417	2435.94	0.23	276.81		
10-01-91	02:30:00	10.500	2435.62	-0.32	276.81		
10-01-91	02:35:00	10.583	2436.05	0.43	276.83		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 1st FLOW RATE. FLOW ON 14/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	02:40:00	10.667	2435.62	-0.44	276.83		
10-01-91	02:45:00	10.750	2435.62	0.00	276.85		
10-01-91	02:50:00	10.833	2436.14	0.52	276.86		
10-01-91	02:55:00	10.917	2436.02	-0.12	276.87		
10-01-91	03:00:00	11.000	2436.70	0.68	276.88	1900	CSG = 0 PSIG
10-01-91	03:05:00	11.083	2436.55	-0.15	276.89		
10-01-91	03:10:00	11.167	2436.70	0.15	276.90		
10-01-91	03:15:00	11.250	2436.66	-0.04	276.91		
10-01-91	03:20:00	11.333	2437.01	0.35	276.92		
10-01-91	03:25:00	11.417	2437.32	0.32	276.92		
10-01-91	03:30:00	11.500	2436.46	-0.87	276.93		
10-01-91	03:35:00	11.583	2437.09	0.64	276.94		
10-01-91	03:40:00	11.667	2437.20	0.10	276.95		
10-01-91	03:45:00	11.750	2437.34	0.14	276.95		
10-01-91	03:50:00	11.833	2437.18	-0.16	276.97		
10-01-91	03:55:00	11.917	2437.27	0.09	276.97		END OF 1st RATE

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 1st RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	04:00:00	0.000	2437.98	0.00	276.98	1901	SHUT IN WELL
10-01-91	04:00:10	0.003	2437.98	0.00	276.99		
10-01-91	04:00:20	0.006	2438.15	0.17	276.99		DELTA T FROM S.I.
10-01-91	04:00:30	0.008	2448.95	10.97	276.99		
10-01-91	04:00:40	0.011	2458.76	20.78	276.99		DELTA P FROM S.I.
10-01-91	04:00:50	0.014	2467.67	29.69	276.99		
10-01-91	04:01:00	0.017	2476.70	38.72	276.99		10 SEC. SAMPLE RATE
10-01-91	04:01:10	0.019	2483.41	45.43	276.99		
10-01-91	04:01:20	0.022	2490.25	52.27	276.99		
10-01-91	04:01:30	0.025	2496.50	58.52	276.99		
10-01-91	04:01:40	0.028	2498.78	60.80	276.99		
10-01-91	04:01:50	0.031	2507.45	69.47	276.99		
10-01-91	04:02:00	0.033	2512.12	74.14	276.99		
10-01-91	04:02:10	0.036	2516.40	78.42	276.99		
10-01-91	04:02:20	0.039	2520.62	82.64	276.99		
10-01-91	04:02:30	0.042	2524.05	86.07	276.99		
10-01-91	04:02:40	0.044	2526.85	88.87	276.99		
10-01-91	04:02:50	0.047	2529.67	91.69	276.99		
10-01-91	04:03:00	0.050	2532.22	94.24	276.99		
10-01-91	04:03:10	0.053	2534.48	96.50	276.99		
10-01-91	04:03:20	0.056	2536.49	98.51	276.99		
10-01-91	04:03:30	0.058	2538.38	100.40	276.99		
10-01-91	04:03:40	0.061	2540.04	102.06	276.99		
10-01-91	04:03:50	0.064	2541.65	103.67	276.99		
10-01-91	04:04:00	0.067	2542.85	104.87	276.99		
10-01-91	04:04:10	0.069	2544.05	106.07	276.99		
10-01-91	04:04:20	0.072	2545.12	107.14	276.99		
10-01-91	04:04:30	0.075	2546.15	108.17	276.99		
10-01-91	04:04:40	0.078	2546.90	108.92	276.99		
10-01-91	04:04:50	0.081	2547.67	109.69	276.99		
10-01-91	04:05:00	0.083	2548.41	110.43	276.99		30 SEC. SAMPLE RATE
10-01-91	04:05:30	0.092	2550.58	112.60	278.24		
10-01-91	04:06:00	0.100	2552.71	114.73	278.25		
10-01-91	04:06:30	0.108	2553.51	115.53	278.24		
10-01-91	04:07:00	0.117	2556.99	119.01	278.22		
10-01-91	04:07:30	0.125	2559.13	121.15	278.19		
10-01-91	04:08:00	0.133	2561.24	123.26	278.15		
10-01-91	04:08:30	0.142	2563.32	125.34	278.11		
10-01-91	04:09:00	0.150	2565.23	127.25	278.07		
10-01-91	04:09:30	0.158	2567.32	129.34	278.03		
10-01-91	04:10:00	0.167	2569.28	131.30	278.00		
10-01-91	04:10:30	0.175	2571.30	133.32	277.97		
10-01-91	04:11:00	0.183	2573.20	135.22	277.94		
10-01-91	04:11:30	0.192	2575.39	137.41	277.92		
10-01-91	04:12:00	0.200	2577.28	139.30	277.89		
10-01-91	04:12:30	0.208	2579.16	141.18	277.87		
10-01-91	04:13:00	0.217	2581.06	143.08	277.86		
10-01-91	04:13:30	0.225	2582.77	144.79	277.84		
10-01-91	04:14:00	0.233	2584.56	146.58	277.83		
10-01-91	04:14:30	0.242	2586.07	148.09	277.81		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 1st RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	04:15:00	0.250	2587.76	149.78	277.79	2075	CSG = 0 PSIG
10-01-91	04:15:30	0.258	2589.34	151.36	277.77		
10-01-91	04:16:00	0.267	2590.80	152.82	277.76		
10-01-91	04:16:30	0.275	2592.13	154.15	277.75		
10-01-91	04:17:00	0.283	2593.34	155.36	277.73		
10-01-91	04:17:30	0.292	2594.46	156.48	277.72		
10-01-91	04:18:00	0.300	2595.43	157.45	277.70		
10-01-91	04:18:30	0.308	2596.55	158.57	277.68		
10-01-91	04:19:00	0.317	2597.74	159.76	277.66		
10-01-91	04:19:30	0.325	2598.75	160.77	277.64		
10-01-91	04:20:00	0.333	2599.74	161.76	277.62		
10-01-91	04:20:30	0.342	2600.74	162.76	277.60		
10-01-91	04:21:00	0.350	2601.64	163.66	277.59		
10-01-91	04:21:30	0.358	2602.35	164.37	277.57		
10-01-91	04:22:00	0.367	2603.01	165.03	277.55		
10-01-91	04:22:30	0.375	2603.90	165.92	277.53		
10-01-91	04:23:00	0.383	2604.83	166.85	277.51		
10-01-91	04:23:30	0.392	2605.58	167.60	277.49		
10-01-91	04:24:00	0.400	2606.40	168.42	277.48		
10-01-91	04:24:30	0.408	2607.23	169.25	277.46		
10-01-91	04:25:00	0.417	2608.16	170.18	277.45		
10-01-91	04:25:30	0.425	2609.08	171.10	277.43		
10-01-91	04:26:00	0.433	2610.02	172.04	277.42		
10-01-91	04:26:30	0.442	2611.00	173.02	277.40		
10-01-91	04:27:00	0.450	2612.00	174.02	277.39		
10-01-91	04:27:30	0.458	2613.00	175.02	277.38		
10-01-91	04:28:00	0.467	2613.96	175.98	277.37		
10-01-91	04:28:30	0.475	2614.85	176.87	277.37		
10-01-91	04:29:00	0.483	2615.72	177.74	277.36		
10-01-91	04:29:30	0.492	2616.53	178.55	277.34		
10-01-91	04:30:00	0.500	2617.26	179.28	277.33	2121	CSG = 0 PSIG 1 MIN. SAMPLE RATE
10-01-91	04:31:00	0.517	2618.62	180.64	277.30		
10-01-91	04:32:00	0.533	2619.25	181.27	277.28		
10-01-91	04:33:00	0.550	2621.18	183.20	277.25		
10-01-91	04:34:00	0.567	2622.47	184.49	277.22		
10-01-91	04:35:00	0.583	2623.74	185.76	277.19		
10-01-91	04:36:00	0.600	2625.03	187.05	277.16		
10-01-91	04:37:00	0.617	2626.13	188.15	277.14		
10-01-91	04:38:00	0.633	2627.48	189.50	277.11		
10-01-91	04:39:00	0.650	2629.12	191.14	277.09		
10-01-91	04:40:00	0.667	2630.93	192.95	277.07		CSG = 0 PSIG
10-01-91	04:41:00	0.683	2632.91	194.93	277.07		
10-01-91	04:42:00	0.700	2635.00	197.02	277.06		
10-01-91	04:43:00	0.717	2637.50	199.52	277.07		
10-01-91	04:44:00	0.733	2640.13	202.15	277.07		
10-01-91	04:45:00	0.750	2642.87	204.89	277.08	2149	
10-01-91	04:46:00	0.767	2645.40	207.42	277.10		
10-01-91	04:47:00	0.783	2647.98	210.00	277.11		
10-01-91	04:48:00	0.800	2650.39	212.40	277.12		
10-01-91	04:49:00	0.817	2652.68	214.70	277.13		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 1st RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	04:50:00	0.833	2654.88	216.90	277.13		
10-01-91	04:51:00	0.850	2656.87	218.89	277.13		
10-01-91	04:52:00	0.867	2658.68	220.70	277.14		
10-01-91	04:53:00	0.883	2659.92	221.94	277.13		
10-01-91	04:54:00	0.900	2660.62	222.64	277.13		
10-01-91	04:55:00	0.917	2660.64	222.66	277.11		
10-01-91	04:56:00	0.933	2660.22	222.24	277.09		
10-01-91	04:57:00	0.950	2659.44	221.46	277.07		
10-01-91	04:58:00	0.967	2658.48	220.50	277.03		
10-01-91	04:59:00	0.983	2657.18	219.20	277.00		
10-01-91	05:00:00	1.000	2655.69	217.71	276.96	2157	CSG = 0 PSIG
10-01-91	05:01:00	1.017	2654.04	216.06	276.93		
10-01-91	05:02:00	1.033	2652.44	214.46	276.88		
10-01-91	05:03:00	1.050	2650.73	212.75	276.85		
10-01-91	05:04:00	1.067	2649.14	211.16	276.81		
10-01-91	05:05:00	1.083	2647.47	209.49	276.77		
10-01-91	05:06:00	1.100	2645.78	207.80	276.74		
10-01-91	05:07:00	1.117	2644.21	206.23	276.70		
10-01-91	05:08:00	1.133	2642.68	204.70	276.68		
10-01-91	05:09:00	1.150	2641.24	203.26	276.65		
10-01-91	05:10:00	1.167	2639.78	201.80	276.62		
10-01-91	05:11:00	1.183	2638.47	200.49	276.59		
10-01-91	05:12:00	1.200	2637.10	199.12	276.56		
10-01-91	05:13:00	1.217	2635.84	197.86	276.54		
10-01-91	05:14:00	1.233	2634.58	196.60	276.52		
10-01-91	05:15:00	1.250	2633.47	195.49	276.50		
10-01-91	05:16:00	1.267	2632.28	194.30	276.48		
10-01-91	05:17:00	1.283	2631.22	193.24	276.46		
10-01-91	05:18:00	1.300	2630.16	192.18	276.44		
10-01-91	05:19:00	1.317	2629.26	191.28	276.43		
10-01-91	05:20:00	1.333	2628.29	190.31	276.41		
10-01-91	05:21:00	1.350	2627.42	189.44	276.40		
10-01-91	05:22:00	1.367	2626.57	188.59	276.38		
10-01-91	05:23:00	1.383	2625.74	187.76	276.37		
10-01-91	05:24:00	1.400	2625.03	187.05	276.36		
10-01-91	05:25:00	1.417	2624.26	186.28	276.34		
10-01-91	05:26:00	1.433	2623.55	185.57	276.34		
10-01-91	05:27:00	1.450	2622.94	184.96	276.33		
10-01-91	05:28:00	1.467	2622.27	184.29	276.32		
10-01-91	05:29:00	1.483	2621.66	183.68	276.31		
10-01-91	05:30:00	1.500	2621.13	183.15	276.30	2128	CSG = 0 PSIG
10-01-91	05:31:00	1.517	2620.63	182.65	276.30		
10-01-91	05:32:00	1.533	2620.11	182.13	276.29		
10-01-91	05:33:00	1.550	2619.65	181.67	276.29		
10-01-91	05:34:00	1.567	2590.11	152.13	276.27		
10-01-91	05:35:00	1.583	2618.91	180.93	276.27		
10-01-91	05:36:00	1.600	2618.46	180.48	276.27		
10-01-91	05:37:00	1.617	2618.11	180.14	276.26		
10-01-91	05:38:00	1.633	2617.82	179.84	276.26		
10-01-91	05:39:00	1.650	2617.51	179.53	276.26		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: C.HILDER
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 1st RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	05:40:00	1.667	2617.28	179.30	276.25		
10-01-91	05:41:00	1.683	2617.09	179.11	276.25		
10-01-91	05:42:00	1.700	2616.85	178.88	276.25		
10-01-91	05:43:00	1.717	2616.68	178.70	276.25		
10-01-91	05:44:00	1.733	2616.54	178.56	276.25		
10-01-91	05:45:00	1.750	2616.41	178.43	276.25		
10-01-91	05:46:00	1.767	2616.30	178.32	276.25		
10-01-91	05:47:00	1.783	2616.22	178.24	276.24		
10-01-91	05:48:00	1.800	2616.14	178.16	276.25		
10-01-91	05:49:00	1.817	2616.08	178.10	276.24		
10-01-91	05:50:00	1.833	2616.08	178.10	276.24		
10-01-91	05:51:00	1.850	2616.03	178.05	276.24		
10-01-91	05:52:00	1.867	2616.04	178.06	276.24		
10-01-91	05:53:00	1.883	2616.00	178.02	276.24		
10-01-91	05:54:00	1.900	2616.00	178.02	276.24		
10-01-91	05:55:00	1.917	2616.02	178.04	276.25		
10-01-91	05:56:00	1.933	2616.04	178.06	276.25		
10-01-91	05:57:00	1.950	2616.08	178.10	276.25		
10-01-91	05:58:00	1.967	2616.10	178.12	276.25		
10-01-91	05:59:00	1.983	2616.09	178.11	276.25		
10-01-91	06:00:00	2.000	2616.17	178.19	276.25	2124	CSG = 0 PSIG
10-01-91	06:05:00	2.083	2616.12	178.14	276.24		
10-01-91	06:10:00	2.167	2615.70	177.72	276.24		5 MIN. SAMPLE RATE
10-01-91	06:15:00	2.250	2614.97	176.99	276.23		
10-01-91	06:20:00	2.333	2613.95	175.97	276.21		
10-01-91	06:25:00	2.417	2612.77	174.79	276.19		
10-01-91	06:30:00	2.500	2611.48	173.50	276.17		
10-01-91	06:35:00	2.583	2610.27	172.29	276.15		
10-01-91	06:40:00	2.667	2609.19	171.21	276.12		
10-01-91	06:45:00	2.750	2608.26	170.28	276.11		
10-01-91	06:50:00	2.833	2607.50	169.52	276.09		
10-01-91	06:55:00	2.917	2606.79	168.81	276.09		
10-01-91	07:00:00	3.000	2606.18	168.20	276.08	2115	CSG = 0 PSIG
10-01-91	07:05:00	3.083	2605.67	167.69	276.08		
10-01-91	07:10:00	3.167	2605.21	167.23	276.07		
10-01-91	07:15:00	3.250	2604.77	166.79	276.07		
10-01-91	07:20:00	3.333	2604.44	166.46	276.07		
10-01-91	07:25:00	3.417	2604.08	166.10	276.07		
10-01-91	07:30:00	3.500	2603.71	165.73	276.07		
10-01-91	07:35:00	3.583	2603.45	165.47	276.07		
10-01-91	07:40:00	3.667	2603.19	165.21	276.07		
10-01-91	07:45:00	3.750	2602.97	164.99	276.07		
10-01-91	07:50:00	3.833	2602.82	164.84	276.06		
10-01-91	07:55:00	3.917	2602.66	164.68	276.05		
10-01-91	08:00:00	4.000	2602.56	164.58	276.04	2110	CSG = 0 PSIG
10-01-91	08:05:00	4.083	2602.41	164.43	276.04		
10-01-91	08:10:00	4.167	2602.25	164.27	276.04		
10-01-91	08:15:00	4.250	2602.20	164.22	276.03		
10-01-91	08:20:00	4.333	2602.04	164.06	276.03		
10-01-91	08:25:00	4.417	2602.05	164.07	276.02		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER FIRST RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	08:30:00	4.500	2602.02	164.04	276.02		
10-01-91	08:35:00	4.583	2601.96	163.98	276.00		
10-01-91	08:40:00	4.667	2601.88	163.90	276.01		
10-01-91	08:45:00	4.750	2601.82	163.84	276.01		
10-01-91	08:50:00	4.833	2601.80	163.82	276.00		
10-01-91	08:55:00	4.917	2601.81	163.83	275.99		
10-01-91	09:00:00	5.000	2601.74	163.76	275.98	2110	CSG = 0 PSIG
10-01-91	09:10:00	5.167	2601.60	163.62	275.97		
10-01-91	09:15:00	5.250	2601.52	163.54	275.97		
10-01-91	09:20:00	5.333	2601.39	163.41	275.97		
10-01-91	09:25:00	5.417	2601.35	163.37	275.96		
10-01-91	09:30:00	5.500	2601.21	163.23	275.97		
10-01-91	09:35:00	5.583	2601.09	163.11	275.96		
10-01-91	09:40:00	5.667	2601.03	163.05	275.96		
10-01-91	09:45:00	5.750	2600.91	162.93	275.96		
10-01-91	09:50:00	5.833	2600.81	162.83	275.95		
10-01-91	09:55:00	5.917	2600.62	162.64	275.96		
10-01-91	10:00:00	6.000	2600.59	162.61	275.95	2110	CSG = 0 PSIG
10-01-91	10:05:00	6.083	2600.51	162.53	275.95		
10-01-91	10:10:00	6.167	2600.44	162.46	275.94		
10-01-91	10:15:00	6.250	2600.38	162.40	275.94		
10-01-91	10:20:00	6.333	2600.30	162.32	275.94		
10-01-91	10:25:00	6.417	2600.19	162.21	275.94		
10-01-91	10:30:00	6.500	2600.15	162.17	275.93		
10-01-91	10:35:00	6.583	2600.10	162.12	275.93		
10-01-91	10:40:00	6.667	2600.03	162.05	275.93		
10-01-91	10:45:00	6.750	2600.01	162.03	275.93		
10-01-91	10:50:00	6.833	2599.96	161.98	275.92		
10-01-91	10:55:00	6.917	2599.90	161.92	275.92		
10-01-91	11:00:00	7.000	2599.80	161.82	275.93	2109	CSG = 0 PSIG
10-01-91	11:05:00	7.083	2599.77	161.79	275.92		
10-01-91	11:10:00	7.167	2599.80	161.82	275.92		
10-01-91	11:15:00	7.250	2599.76	161.78	275.91		
10-01-91	11:20:00	7.333	2599.73	161.75	275.91		
10-01-91	11:25:00	7.417	2599.69	161.71	275.91		
10-01-91	11:30:00	7.500	2599.65	161.67	275.90		
10-01-91	11:35:00	7.583	2599.58	161.60	275.91		
10-01-91	11:40:00	7.667	2599.58	161.60	275.91		
10-01-91	11:45:00	7.750	2599.50	161.52	275.91		
10-01-91	11:50:00	7.833	2599.44	161.46	275.90		
10-01-91	11:55:00	7.917	2599.40	161.42	275.90		
10-01-91	12:00:00	8.000	2599.48	161.50	275.90	2108	CSG = 0 PSIG
10-01-91	12:10:00	8.167	2599.37	161.39	275.90		
10-01-91	12:20:00	8.333	2599.30	161.32	275.89		
10-01-91	12:30:00	8.500	2599.26	161.28	275.89		
10-01-91	12:40:00	8.667	2599.21	161.23	275.89		
10-01-91	12:50:00	8.833	2598.94	160.96	275.89		
10-01-91	13:00:00	9.000	2598.87	160.89	275.90	2106	CSG = 0 PSIG
10-01-91	13:10:00	9.167	2598.70	160.72	275.91		
10-01-91	13:20:00	9.333	2598.77	160.79	275.90		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER FIRST RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	13:30:00	9.500	2598.65	160.67	275.90		
10-01-91	13:40:00	9.667	2598.69	160.71	275.89		
10-01-91	13:50:00	9.833	2598.81	160.83	275.88		
10-01-91	14:00:00	10.000	2598.87	160.89	275.88	2109	CSG = 0 PSIG
10-01-91	14:10:00	10.167	2598.79	160.81	275.88		
10-01-91	14:20:00	10.333	2598.65	160.67	275.89		
10-01-91	14:30:00	10.500	2598.62	160.64	275.89		
10-01-91	14:40:00	10.667	2598.62	160.64	275.88		
10-01-91	14:50:00	10.833	2598.59	160.61	275.88		
10-01-91	15:00:00	11.000	2598.62	160.64	275.88	2106	CSG = 0 PSIG
10-01-91	15:10:00	11.167	2598.57	160.59	275.88		
10-01-91	15:20:00	11.333	2598.57	160.59	275.87		
10-01-91	15:30:00	11.500	2598.55	160.57	275.87		
10-01-91	15:40:00	11.667	2598.69	160.71	275.87		
10-01-91	15:50:00	11.833	2598.50	160.52	275.88	2105	END OF 1st BUILD UP

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION : PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	16:00:00	0.000	2598.33	2598.33	275.88	2105	OPEN WELL
10-01-91	16:01:00	0.017	2517.40	-80.93	275.88		
10-01-91	16:02:00	0.033	2336.34	-181.06	275.41		DELTA T FROM FLOW
10-01-91	16:03:00	0.050	2209.46	-126.88	273.74		
10-01-91	16:04:00	0.067	2120.39	-89.07	271.84		DELTA P FROM PREVIOUS READING
10-01-91	16:05:00	0.083	2056.93	-63.46	270.47		
10-01-91	16:06:00	0.100	2008.28	-48.64	269.68		
10-01-91	16:07:00	0.117	1968.70	-39.59	269.31		1 MIN. SAMPLE RATE
10-01-91	16:08:00	0.133	1937.09	-31.61	269.27		
10-01-91	16:09:00	0.150	1910.56	-26.53	269.44		
10-01-91	16:10:00	0.167	1891.99	-18.57	269.68		
10-01-91	16:11:00	0.183	1882.93	-9.06	269.98		
10-01-91	16:12:00	0.200	1875.30	-7.63	270.30		
10-01-91	16:13:00	0.217	1865.71	-9.59	270.58		
10-01-91	16:14:00	0.233	1854.46	-11.25	270.81		
10-01-91	16:15:00	0.250	1842.34	-12.12	270.97		
10-01-91	16:16:00	0.267	1829.32	-13.02	271.06		
10-01-91	16:17:00	0.283	1815.80	-13.51	271.10		
10-01-91	16:18:00	0.300	1801.97	-13.83	271.09		
10-01-91	16:19:00	0.317	1788.66	-13.32	271.04		
10-01-91	16:20:00	0.333	1776.14	-12.51	270.97		
10-01-91	16:21:00	0.350	1765.54	-10.60	270.88		
10-01-91	16:22:00	0.367	1757.14	-8.40	270.79		
10-01-91	16:23:00	0.383	1751.00	-6.14	270.69		
10-01-91	16:24:00	0.400	1746.81	-4.19	270.62		
10-01-91	16:25:00	0.417	1744.26	-2.55	270.55		
10-01-91	16:26:00	0.433	1743.21	-1.05	270.47		
10-01-91	16:27:00	0.450	1743.21	-0.00	270.40		
10-01-91	16:28:00	0.467	1744.00	0.79	270.33		
10-01-91	16:29:00	0.483	1745.50	1.50	270.26		
10-01-91	16:30:00	0.500	1747.44	1.95	270.18	1276	CSG = 0 PSIG
10-01-91	16:31:00	0.517	1749.88	2.44	270.11		
10-01-91	16:32:00	0.533	1752.59	2.71	270.01		
10-01-91	16:33:00	0.550	1755.37	2.78	269.92		
10-01-91	16:34:00	0.567	1757.93	2.56	269.82		
10-01-91	16:35:00	0.583	1760.25	2.32	269.72		
10-01-91	16:36:00	0.600	1762.45	2.19	269.59		
10-01-91	16:37:00	0.617	1764.54	2.09	269.48		
10-01-91	16:38:00	0.633	1766.15	1.61	269.36		
10-01-91	16:39:00	0.650	1767.67	1.52	269.24		
10-01-91	16:40:00	0.667	1769.11	1.44	269.13		
10-01-91	16:41:00	0.683	1770.62	1.52	269.02		
10-01-91	16:42:00	0.700	1772.05	1.42	268.92		
10-01-91	16:43:00	0.717	1773.16	1.12	268.82		
10-01-91	16:44:00	0.733	1774.22	1.06	268.72		
10-01-91	16:45:00	0.750	1775.48	1.25	268.62		
10-01-91	16:46:00	0.767	1776.86	1.39	268.54		
10-01-91	16:47:00	0.783	1778.39	1.53	268.46		
10-01-91	16:48:00	0.800	1780.10	1.71	268.39		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	16:49:00	0.817	1781.59	1.49	268.33		
10-01-91	16:50:00	0.833	1783.03	1.44	268.28		
10-01-91	16:51:00	0.850	1784.43	1.40	268.23		
10-01-91	16:52:00	0.867	1785.73	1.29	268.18		
10-01-91	16:53:00	0.883	1787.13	1.40	268.14		
10-01-91	16:54:00	0.900	1788.76	1.64	268.10		
10-01-91	16:55:00	0.917	1790.53	1.76	268.07		
10-01-91	16:56:00	0.933	1792.34	1.81	268.05		
10-01-91	16:57:00	0.950	1794.03	1.69	268.02		
10-01-91	16:58:00	0.967	1795.79	1.76	268.00		
10-01-91	16:59:00	0.983	1797.47	1.68	267.98		
10-01-91	17:00:00	1.000	1799.10	1.63	267.97	1221	CSG = 0 PSIG
10-01-91	17:01:00	1.017	1800.81	1.71	267.95		
10-01-91	17:02:00	1.033	1802.57	1.76	267.94		
10-01-91	17:03:00	1.050	1804.48	1.91	267.92		
10-01-91	17:04:00	1.067	1806.38	1.90	267.92		
10-01-91	17:05:00	1.083	1808.38	2.00	267.91		
10-01-91	17:06:00	1.100	1810.43	2.05	267.91		
10-01-91	17:07:00	1.117	1812.38	1.95	267.90		
10-01-91	17:08:00	1.133	1814.12	1.74	267.89		
10-01-91	17:09:00	1.150	1815.75	1.64	267.89		
10-01-91	17:10:00	1.167	1817.44	1.68	267.89		
10-01-91	17:11:00	1.183	1819.09	1.65	267.88		
10-01-91	17:12:00	1.200	1820.80	1.71	267.89		
10-01-91	17:13:00	1.217	1822.67	1.87	267.89		
10-01-91	17:14:00	1.233	1824.44	1.77	267.89		
10-01-91	17:15:00	1.250	1826.23	1.79	267.89		
10-01-91	17:16:00	1.267	1827.86	1.62	267.90		
10-01-91	17:17:00	1.283	1829.42	1.56	267.90		
10-01-91	17:18:00	1.300	1830.84	1.42	267.90		
10-01-91	17:19:00	1.317	1832.20	1.36	267.91		
10-01-91	17:20:00	1.333	1833.57	1.36	267.91		
10-01-91	17:21:00	1.350	1834.90	1.34	267.92		
10-01-91	17:22:00	1.367	1836.37	1.47	267.92		
10-01-91	17:23:00	1.383	1837.94	1.57	267.93		
10-01-91	17:24:00	1.400	1839.49	1.56	267.94		
10-01-91	17:25:00	1.417	1841.02	1.53	267.94		
10-01-91	17:26:00	1.433	1842.36	1.34	267.96		
10-01-91	17:27:00	1.450	1843.72	1.35	267.96		
10-01-91	17:28:00	1.467	1845.02	1.31	267.97		
10-01-91	17:29:00	1.483	1846.35	1.32	267.98		
10-01-91	17:30:00	1.500	1847.76	1.41	267.98	1357	CSG = 0 PSIG
10-01-91	17:31:00	1.517	1849.27	1.51	268.00		
10-01-91	17:32:00	1.533	1850.79	1.52	268.01		
10-01-91	17:33:00	1.550	1852.22	1.43	268.04		
10-01-91	17:34:00	1.567	1853.46	1.24	268.05		
10-01-91	17:35:00	1.583	1854.67	1.21	268.06		
10-01-91	17:36:00	1.600	1855.81	1.14	268.07		
10-01-91	17:37:00	1.617	1856.89	1.08	268.08		
10-01-91	17:38:00	1.633	1857.94	1.05	268.10		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	17:39:00	1.650	1859.16	1.23	268.11		
10-01-91	17:40:00	1.667	1860.46	1.29	268.12		
10-01-91	17:41:00	1.683	1861.64	1.19	268.14		
10-01-91	17:42:00	1.700	1862.76	1.12	268.16		
10-01-91	17:43:00	1.717	1863.72	0.96	268.17		
10-01-91	17:44:00	1.733	1864.64	0.92	268.19		
10-01-91	17:45:00	1.750	1865.51	0.87	268.20		
10-01-91	17:46:00	1.767	1866.38	0.88	268.22		
10-01-91	17:47:00	1.783	1867.25	0.87	268.22		
10-01-91	17:48:00	1.800	1868.25	1.00	268.24		
10-01-91	17:49:00	1.817	1869.44	1.19	268.25		
10-01-91	17:50:00	1.833	1870.77	1.33	268.27		
10-01-91	17:51:00	1.850	1871.93	1.16	268.30		
10-01-91	17:52:00	1.867	1873.05	1.12	268.31		
10-01-91	17:53:00	1.883	1874.03	0.97	268.33		
10-01-91	17:54:00	1.900	1874.95	0.92	268.35		
10-01-91	17:55:00	1.917	1875.87	0.93	268.36		
10-01-91	17:56:00	1.933	1876.73	0.86	268.38		
10-01-91	17:57:00	1.950	1877.81	1.08	268.39		
10-01-91	17:58:00	1.967	1878.88	1.07	268.40		
10-01-91	17:59:00	1.983	1880.04	1.16	268.42		
10-01-91	18:00:00	2.000	1881.08	1.04	268.44	1381	CSG = 0 PSIG
10-01-91	18:01:00	2.017	1882.08	.00	268.47		
10-01-91	18:02:00	2.033	1882.90	0.82	268.48		
10-01-91	18:03:00	2.050	1883.75	0.85	268.50		
10-01-91	18:04:00	2.067	1884.45	0.70	268.52		
10-01-91	18:05:00	2.083	1885.29	0.84	268.54		
10-01-91	18:06:00	2.100	1886.31	1.02	268.56		
10-01-91	18:07:00	2.117	1887.30	0.99	268.57		
10-01-91	18:08:00	2.133	1888.35	1.05	268.60		
10-01-91	18:09:00	2.150	1889.26	0.92	268.61		
10-01-91	18:10:00	2.167	1890.07	0.81	268.63		
10-01-91	18:11:00	2.183	1890.84	0.77	268.65		
10-01-91	18:12:00	2.200	1891.47	0.64	268.66		
10-01-91	18:13:00	2.217	1892.17	0.69	268.68		
10-01-91	18:14:00	2.233	1892.86	0.69	268.70		
10-01-91	18:15:00	2.250	1893.62	0.76	268.72		
10-01-91	18:16:00	2.267	1894.43	0.82	268.74		
10-01-91	18:17:00	2.283	1895.29	0.86	268.76		
10-01-91	18:18:00	2.300	1896.19	0.91	268.77		
10-01-91	18:19:00	2.317	1896.99	0.80	268.80		
10-01-91	18:20:00	2.333	1897.60	0.61	268.82		
10-01-91	18:21:00	2.350	1898.22	0.61	268.84		
10-01-91	18:22:00	2.367	1898.88	0.66	268.85		
10-01-91	18:23:00	2.383	1899.48	0.60	268.88		
10-01-91	18:24:00	2.400	1900.21	0.72	268.89		
10-01-91	18:25:00	2.417	1901.15	0.94	268.91		
10-01-91	18:26:00	2.433	1902.08	0.93	268.93		
10-01-91	18:27:00	2.450	1903.00	0.92	268.95		
10-01-91	18:28:00	2.467	1903.84	0.84	268.97		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	18:29:00	2.483	1904.50	0.66	268.99		
10-01-91	18:30:00	2.500	1905.12	0.61	269.01		
10-01-91	18:31:00	2.517	1905.69	0.58	269.02		
10-01-91	18:32:00	2.533	1906.33	0.64	269.04		
10-01-91	18:33:00	2.550	1907.08	0.74	269.05		
10-01-91	18:34:00	2.567	1907.89	0.81	269.08		
10-01-91	18:35:00	2.583	1908.79	0.90	269.09		
10-01-91	18:36:00	2.600	1909.66	0.87	269.11		
10-01-91	18:37:00	2.617	1910.37	0.71	269.13		
10-01-91	18:38:00	2.633	1910.98	0.61	269.14		
10-01-91	18:39:00	2.650	1911.55	0.57	269.16		
10-01-91	18:40:00	2.667	1912.06	0.52	269.18		
10-01-91	18:41:00	2.683	1912.52	0.46	269.19		
10-01-91	18:42:00	2.700	1913.11	0.59	269.20		
10-01-91	18:43:00	2.717	1913.86	0.75	269.21		
10-01-91	18:44:00	2.733	1914.67	0.81	269.23		
10-01-91	18:45:00	2.750	1915.39	0.72	269.25		
10-01-91	18:46:00	2.767	1916.10	0.71	269.27		
10-01-91	18:47:00	2.783	1916.73	0.63	269.28		
10-01-91	18:48:00	2.800	1917.23	0.51	269.30		
10-01-91	18:49:00	2.817	1917.70	0.47	269.31		
10-01-91	18:50:00	2.833	1918.24	0.54	269.33		
10-01-91	18:51:00	2.850	1918.75	0.51	269.34		
10-01-91	18:52:00	2.867	1919.33	0.58	269.36		
10-01-91	18:53:00	2.883	1920.04	0.71	269.37		
10-01-91	18:54:00	2.900	1920.78	0.74	269.38		
10-01-91	18:55:00	2.917	1921.57	0.79	269.40		
10-01-91	18:56:00	2.933	1922.37	0.80	269.41		
10-01-91	18:57:00	2.950	1922.97	0.61	269.43		
10-01-91	18:58:00	2.967	1923.58	0.60	269.45		
10-01-91	18:59:00	2.983	1924.08	0.50	269.47		
10-01-91	19:00:00	3.000	1924.58	0.50	269.47	1421	CSG = 0 PSIG
10-01-91	19:05:00	3.083	1927.96	3.38	269.55		
10-01-91	19:10:00	3.167	1930.49	2.52	269.62		
10-01-91	19:15:00	3.250	1933.56	3.08	269.70		5 MIN. SAMPLE RATE
10-01-91	19:20:00	3.333	1935.77	2.21	269.76		
10-01-91	19:25:00	3.417	1938.61	2.84	269.83		
10-01-91	19:30:00	3.500	1941.34	2.73	269.89		
10-01-91	19:35:00	3.583	1944.99	3.65	269.96		
10-01-91	19:40:00	3.667	1947.75	2.76	270.02		
10-01-91	19:45:00	3.750	1950.44	2.68	270.09		
10-01-91	19:50:00	3.833	1952.61	2.17	270.16		
10-01-91	19:55:00	3.917	1954.22	1.61	270.21		
10-01-91	20:00:00	4.000	1955.69	1.47	270.28	1448	CSG = 0 PSIG
10-01-91	20:05:00	4.083	1957.42	1.73	270.34		
10-01-91	20:10:00	4.167	1958.87	1.45	270.40		
10-01-91	20:15:00	4.250	1961.18	2.31	270.45		
10-01-91	20:20:00	4.333	1963.28	2.11	270.50		
10-01-91	20:25:00	4.417	1965.82	2.54	270.56		
10-01-91	20:30:00	4.500	1968.38	2.57	270.63		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 10-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
10-01-91	20:35:00	4.583	1970.63	2.25	270.68		
10-01-91	20:40:00	4.667	1972.85	2.22	270.74		
10-01-91	20:45:00	4.750	1974.66	1.81	270.79		
10-01-91	20:50:00	4.833	1976.66	2.00	270.84		
10-01-91	20:55:00	4.917	1977.92	1.27	270.90		
10-01-91	21:00:00	5.000	1979.53	1.61	270.95	1465	CSG = 0 PSIG
10-01-91	21:05:00	5.083	1980.72	1.19	271.00		
10-01-91	21:10:00	5.167	1982.56	1.83	271.05		
10-01-91	21:15:00	5.250	1983.65	1.09	271.09		
10-01-91	21:20:00	5.333	1985.57	1.92	271.14		
10-01-91	21:25:00	5.417	1986.66	1.09	271.18		
10-01-91	21:30:00	5.500	1988.61	1.95	271.23		
10-01-91	21:35:00	5.583	1989.34	0.73	271.27		
10-01-91	21:40:00	5.667	1991.13	1.79	271.31		
10-01-91	21:45:00	5.750	1991.95	0.82	271.35		
10-01-91	21:50:00	5.833	1993.70	1.75	271.40		
10-01-91	21:55:00	5.917	1994.80	1.10	271.44		
10-01-91	22:00:00	6.000	1997.33	2.53	271.48	1484	CSG = 0 PSIG
10-01-91	22:05:00	6.083	1998.37	1.03	271.53		
10-01-91	22:10:00	6.167	1999.83	1.47	271.57		
10-01-91	22:15:00	6.250	2000.63	0.79	271.61		
10-01-91	22:20:00	6.333	2002.25	1.63	271.65		
10-01-91	22:25:00	6.417	2003.82	1.57	271.70		
10-01-91	22:30:00	6.500	2005.82	1.99	271.73		
10-01-91	22:35:00	6.583	2006.42	0.60	271.76		
10-01-91	22:40:00	6.667	2008.19	1.77	271.81		
10-01-91	22:45:00	6.750	2009.09	0.91	271.85		
10-01-91	22:50:00	6.833	2010.83	1.73	271.89		
10-01-91	22:55:00	6.917	2012.43	1.61	271.93		
10-01-91	23:00:00	7.000	2013.44	1.01	271.97	1492	CSG = 0 PSIG
10-01-91	23:05:00	7.083	2014.12	0.68	272.00		
10-01-91	23:10:00	7.167	2015.25	1.13	272.03		
10-01-91	23:15:00	7.250	2015.92	0.67	272.07		
10-01-91	23:20:00	7.333	2020.15	4.23	272.12		
10-01-91	23:25:00	7.417	2019.00	-1.15	272.15		
10-01-91	23:30:00	7.500	2019.71	0.71	272.17		
10-01-91	23:35:00	7.583	2020.63	0.92	272.21		
10-01-91	23:40:00	7.667	2021.43	0.80	272.24		
10-01-91	23:45:00	7.750	2023.14	1.71	272.28		
10-01-91	23:50:00	7.833	2023.20	0.06	272.30		
10-01-91	23:55:00	7.917	2023.94	0.75	272.33		
11-01-91	00:00:00	8.000	2024.82	0.87	272.36	1502	CSG = 0 PSIG
11-01-91	00:05:00	8.083	2025.95	1.13	272.39		
11-01-91	00:10:00	8.167	2026.74	0.79	272.41		
11-01-91	00:15:00	8.250	2027.80	1.06	272.45		
11-01-91	00:20:00	8.333	2028.97	1.17	272.48		
11-01-91	00:25:00	8.417	2030.21	1.24	272.51		
11-01-91	00:30:00	8.500	2030.65	0.44	272.53		
11-01-91	00:35:00	8.583	2031.64	0.99	272.57		
11-01-91	00:40:00	8.667	2032.11	0.47	272.59		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 2nd RATE. FLOW ON 26/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	00:45:00	8.750	2033.22	1.11	272.62		
11-01-91	00:50:00	8.833	2034.06	0.84	272.64		
11-01-91	00:55:00	8.917	2035.02	0.97	272.68		
11-01-91	01:00:00	9.000	2035.55	0.53	272.70	1510	CSG = 0 PSIG
11-01-91	01:05:00	9.083	2036.30	0.75	272.72		
11-01-91	01:10:00	9.167	2036.44	0.14	272.74		
11-01-91	01:15:00	9.250	2037.31	0.88	272.78		
11-01-91	01:20:00	9.333	2037.38	0.06	272.79		
11-01-91	01:25:00	9.417	2038.81	1.44	272.82		
11-01-91	01:30:00	9.500	2038.95	0.14	272.84		
11-01-91	01:35:00	9.583	2040.04	1.09	272.86		
11-01-91	01:40:00	9.667	2040.65	0.61	272.89		
11-01-91	01:45:00	9.750	2041.63	0.98	272.91		
11-01-91	01:50:00	9.833	2042.86	1.22	272.93		
11-01-91	01:55:00	9.917	2043.38	0.52	272.96		
11-01-91	02:00:00	10.000	2044.30	0.92	272.98	1516	CSG = 0 PSIG
11-01-91	02:05:00	10.083	2044.80	0.50	273.00		
11-01-91	02:10:00	10.167	2045.24	0.44	273.03		
11-01-91	02:15:00	10.250	2045.52	0.28	273.05		
11-01-91	02:20:00	10.333	2046.10	0.58	273.06		
11-01-91	02:25:00	10.417	2047.08	0.98	273.09		
11-01-91	02:30:00	10.500	2047.47	0.40	273.12		
11-01-91	02:35:00	10.583	2047.99	0.52	273.13		
11-01-91	02:40:00	10.667	2048.80	0.80	273.16		
11-01-91	02:45:00	10.750	2049.34	0.54	273.18		
11-01-91	02:50:00	10.833	2049.40	0.06	273.20		
11-01-91	02:55:00	10.917	2050.20	0.80	273.22		
11-01-91	03:00:00	11.000	2050.37	0.17	273.24	1524	CSG = 0 PSIG
11-01-91	03:05:00	11.083	2051.35	0.98	273.25		
11-01-91	03:10:00	11.167	2051.54	0.20	273.27		
11-01-91	03:15:00	11.250	2053.05	1.51	273.30		
11-01-91	03:20:00	11.333	2052.73	-0.32	273.31		
11-01-91	03:25:00	11.417	2053.81	1.08	273.34		
11-01-91	03:30:00	11.500	2053.99	0.18	273.36		
11-01-91	03:35:00	11.583	2054.88	0.90	273.37		
11-01-91	03:40:00	11.667	2055.53	0.65	273.39		
11-01-91	03:45:00	11.750	2056.66	1.13	273.42		
11-01-91	03:50:00	11.833	2056.41	-0.25	273.43		
11-01-91	03:55:00	11.917	2056.75	0.33	273.45	1529	END OF 2nd RATE

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 2nd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	04:00:00	0.000	2057.17	-0.00	273.47	1529	SHUT IN WELL
11-01-91	04:00:10	0.003	2057.17	-0.00	273.48		CSG = 3 PSIG
11-01-91	04:00:20	0.006	2057.68	0.51	273.48		
11-01-91	04:00:30	0.008	2072.00	14.83	273.48		DELTA T FROM S.I.
11-01-91	04:00:40	0.011	2099.97	42.80	273.48		
11-01-91	04:00:50	0.014	2126.64	69.47	273.48		DELTA P FROM S.I.
11-01-91	04:01:00	0.017	2157.76	100.59	273.48		
11-01-91	04:01:10	0.019	2184.92	127.75	273.48		10 SEC. SAMPLE RATE
11-01-91	04:01:20	0.022	2210.38	153.21	273.48		
11-01-91	04:01:30	0.025	2236.44	179.27	273.48		
11-01-91	04:01:40	0.028	2256.67	199.50	273.48		
11-01-91	04:01:50	0.031	2277.55	220.38	273.48		
11-01-91	04:02:00	0.033	2296.37	239.20	273.48		
11-01-91	04:02:10	0.036	2313.56	256.39	273.48		
11-01-91	04:02:20	0.039	2329.21	272.04	273.48		
11-01-91	04:02:30	0.042	2342.03	284.86	273.48		
11-01-91	04:02:40	0.044	2356.25	299.08	273.48		
11-01-91	04:02:50	0.047	2368.02	310.85	273.48		
11-01-91	04:03:00	0.050	2377.66	320.49	273.48		
11-01-91	04:03:10	0.053	2388.23	331.06	273.48		
11-01-91	04:03:20	0.056	2396.78	339.61	273.48		
11-01-91	04:03:30	0.058	2404.41	347.24	273.48		
11-01-91	04:03:40	0.061	2411.14	353.97	273.48		
11-01-91	04:03:50	0.064	2417.07	359.90	273.48		
11-01-91	04:04:00	0.067	2422.23	365.06	273.48		
11-01-91	04:04:10	0.069	2426.78	369.61	273.48		
11-01-91	04:04:20	0.072	2430.80	373.63	273.48		
11-01-91	04:04:30	0.075	2434.04	376.87	273.48		
11-01-91	04:04:40	0.078	2437.49	380.32	273.48		
11-01-91	04:04:50	0.081	2440.26	383.09	273.48		
11-01-91	04:05:00	0.083	2442.74	385.57	273.48		30 SEC. SAMPLE RATE
11-01-91	04:05:30	0.092	2448.56	391.39	276.51		
11-01-91	04:06:00	0.100	2452.51	395.34	276.63		
11-01-91	04:06:30	0.108	2455.61	398.44	276.72		
11-01-91	04:07:00	0.117	2457.98	400.81	276.77		
11-01-91	04:07:30	0.125	2460.22	403.05	276.80		
11-01-91	04:08:00	0.133	2462.72	405.55	276.80		
11-01-91	04:08:30	0.142	2465.35	408.19	276.80		
11-01-91	04:09:00	0.150	2467.99	410.82	276.79		
11-01-91	04:09:30	0.158	2470.60	413.43	276.78		
11-01-91	04:10:00	0.167	2473.24	416.07	276.76		
11-01-91	04:10:30	0.175	2476.06	418.89	276.75		
11-01-91	04:11:00	0.183	2478.76	421.59	276.74		
11-01-91	04:11:30	0.192	2481.40	424.23	276.72		
11-01-91	04:12:00	0.200	2484.03	426.86	276.70		
11-01-91	04:12:30	0.208	2486.57	429.40	276.68		
11-01-91	04:13:00	0.217	2489.20	432.03	276.65		
11-01-91	04:13:30	0.225	2491.72	434.55	276.63		
11-01-91	04:14:00	0.233	2494.13	436.96	276.61		
11-01-91	04:14:30	0.242	2496.65	439.48	276.59		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION : PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 2nd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	04:15:00	0.250	2499.12	441.95	276.57	2070	CSG = 3 PSIG
11-01-91	04:15:30	0.258	2501.53	444.36	276.55		
11-01-91	04:16:00	0.267	2503.88	446.71	276.53		
11-01-91	04:16:30	0.275	2506.25	449.08	276.51		
11-01-91	04:17:00	0.283	2508.47	451.30	276.49		
11-01-91	04:17:30	0.292	2510.82	453.65	276.47		
11-01-91	04:18:00	0.300	2512.98	455.81	276.45		
11-01-91	04:18:30	0.308	2515.08	457.91	276.43		
11-01-91	04:19:00	0.317	2517.17	460.00	276.42		
11-01-91	04:19:30	0.325	2519.25	462.08	276.40		
11-01-91	04:20:00	0.333	2521.31	464.14	276.39		
11-01-91	04:20:30	0.342	2523.30	466.13	276.37		
11-01-91	04:21:00	0.350	2525.28	468.11	276.35		
11-01-91	04:21:30	0.358	2527.22	470.05	276.34		
11-01-91	04:22:00	0.367	2528.98	471.81	276.33		
11-01-91	04:22:30	0.375	2530.85	473.68	276.32		
11-01-91	04:23:00	0.383	2532.72	475.55	276.30		
11-01-91	04:23:30	0.392	2534.50	477.33	276.28		
11-01-91	04:24:00	0.400	2536.27	479.10	276.27		
11-01-91	04:24:30	0.408	2538.02	480.85	276.26		
11-01-91	04:25:00	0.417	2539.69	482.52	276.24		
11-01-91	04:25:30	0.425	2541.32	484.15	276.22		
11-01-91	04:26:00	0.433	2542.98	485.81	276.21		
11-01-91	04:26:30	0.442	2544.65	487.48	276.20		
11-01-91	04:27:00	0.450	2546.15	488.98	276.18		
11-01-91	04:27:30	0.458	2547.73	490.56	276.16		
11-01-91	04:28:00	0.467	2549.28	492.11	276.14		
11-01-91	04:28:30	0.475	2550.71	493.54	276.13		
11-01-91	04:29:00	0.483	2552.18	495.01	276.11		
11-01-91	04:29:30	0.492	2553.62	496.45	276.09		
11-01-91	04:30:00	0.500	2555.01	497.84	276.07	2107	CSG = 1 PSIG
11-01-91	04:31:00	0.517	2557.68	500.51	276.03		1 MIN. SAMPLE RATE
11-01-91	04:32:00	0.533	2560.26	503.09	275.99		
11-01-91	04:33:00	0.550	2562.74	505.57	275.95		
11-01-91	04:34:00	0.567	2565.18	508.01	275.91		
11-01-91	04:35:00	0.583	2567.54	510.37	275.88		
11-01-91	04:36:00	0.600	2569.80	512.63	275.85		
11-01-91	04:37:00	0.617	2572.02	514.85	275.83		
11-01-91	04:38:00	0.633	2574.11	516.94	275.81		
11-01-91	04:39:00	0.650	2576.15	518.98	275.79		
11-01-91	04:40:00	0.667	2578.25	521.08	275.77		
11-01-91	04:41:00	0.683	2580.23	523.06	275.75		2133 CSG = 0 PSIG
11-01-91	04:42:00	0.700	2582.04	524.87	275.73		
11-01-91	04:43:00	0.717	2583.79	526.62	275.71		
11-01-91	04:44:00	0.733	2585.68	528.51	275.70		
11-01-91	04:45:00	0.750	2587.42	530.25	275.69		
11-01-91	04:46:00	0.767	2588.61	531.44	275.67		
11-01-91	04:47:00	0.783	2589.21	532.04	275.65		
11-01-91	04:48:00	0.800	2589.43	532.26	275.63		
11-01-91	04:49:00	0.817	2589.11	531.94	275.60		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION : PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 2nd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	04:50:00	0.833	2588.51	531.34	275.56		
11-01-91	04:51:00	0.850	2587.62	530.45	275.53		
11-01-91	04:52:00	0.867	2586.65	529.48	275.49		
11-01-91	04:53:00	0.883	2585.57	528.40	275.45		
11-01-91	04:54:00	0.900	2584.45	527.28	275.41		
11-01-91	04:55:00	0.917	2583.32	526.15	275.37		
11-01-91	04:56:00	0.933	2582.11	524.94	275.33		
11-01-91	04:57:00	0.950	2580.94	523.77	275.30		
11-01-91	04:58:00	0.967	2579.78	522.61	275.27		
11-01-91	04:59:00	0.983	2578.65	521.48	275.23		
11-01-91	05:00:00	1.000	2577.52	520.35	275.20	2122	CSG = 0 PSIG
11-01-91	05:01:00	1.017	2576.45	519.28	275.17		
11-01-91	05:02:00	1.033	2575.41	518.24	275.13		
11-01-91	05:03:00	1.050	2574.39	517.22	275.11		
11-01-91	05:04:00	1.067	2573.42	516.25	275.09		
11-01-91	05:05:00	1.083	2572.51	515.34	275.06		
11-01-91	05:06:00	1.100	2571.61	514.44	275.04		
11-01-91	05:07:00	1.117	2570.87	513.70	275.02		
11-01-91	05:08:00	1.133	2570.10	512.93	275.00		
11-01-91	05:09:00	1.150	2569.34	512.17	274.98		
11-01-91	05:10:00	1.167	2568.72	511.55	274.96		
11-01-91	05:11:00	1.183	2568.12	510.95	274.94		
11-01-91	05:12:00	1.200	2567.49	510.32	274.93		
11-01-91	05:13:00	1.217	2567.03	509.86	274.92		
11-01-91	05:14:00	1.233	2566.57	509.40	274.90		
11-01-91	05:15:00	1.250	2566.08	508.91	274.89		
11-01-91	05:16:00	1.267	2565.66	508.49	274.89		
11-01-91	05:17:00	1.283	2565.30	508.13	274.88		
11-01-91	05:18:00	1.300	2565.01	507.84	274.87		
11-01-91	05:19:00	1.317	2564.77	507.60	274.86		
11-01-91	05:20:00	1.333	2564.50	507.33	274.85		
11-01-91	05:21:00	1.350	2564.30	507.13	274.84		
11-01-91	05:22:00	1.367	2564.14	506.97	274.84		
11-01-91	05:23:00	1.383	2563.95	506.78	274.83		
11-01-91	05:24:00	1.400	2563.88	506.71	274.82		
11-01-91	05:25:00	1.417	2563.75	506.58	274.81		
11-01-91	05:26:00	1.433	2563.68	506.51	274.82		
11-01-91	05:27:00	1.450	2563.65	506.48	274.81		
11-01-91	05:28:00	1.467	2563.65	506.48	274.80		
11-01-91	05:29:00	1.483	2563.61	506.44	274.80		
11-01-91	05:30:00	1.500	2563.67	506.50	274.80	2110	CSG = 0 PSIG
11-01-91	05:31:00	1.517	2563.68	506.51	274.80		
11-01-91	05:32:00	1.533	2563.79	506.62	274.80		
11-01-91	05:33:00	1.550	2563.88	506.71	274.80		
11-01-91	05:34:00	1.567	2564.03	506.86	274.80		
11-01-91	05:35:00	1.583	2564.18	507.01	274.79		
11-01-91	05:36:00	1.600	2564.38	507.21	274.79		
11-01-91	05:37:00	1.617	2564.54	507.37	274.80		
11-01-91	05:38:00	1.633	2564.75	507.58	274.80		
11-01-91	05:39:00	1.650	2564.97	507.80	274.80		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 2nd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	05:40:00	1.667	2565.19	508.02	274.80		
11-01-91	05:41:00	1.683	2565.39	508.22	274.79		
11-01-91	05:42:00	1.700	2565.55	508.38	274.80		
11-01-91	05:43:00	1.717	2565.76	508.59	274.79		
11-01-91	05:44:00	1.733	2565.94	508.77	274.79		
11-01-91	05:45:00	1.750	2566.18	509.01	274.80		
11-01-91	05:46:00	1.767	2566.29	509.12	274.80		
11-01-91	05:47:00	1.783	2566.41	509.24	274.80		
11-01-91	05:48:00	1.800	2566.55	509.38	274.80		
11-01-91	05:49:00	1.817	2566.60	509.43	274.80		
11-01-91	05:50:00	1.833	2566.71	509.54	274.80		
11-01-91	05:51:00	1.850	2566.79	509.62	274.80		
11-01-91	05:52:00	1.867	2566.88	509.71	274.80		
11-01-91	05:53:00	1.883	2566.91	509.74	274.79		
11-01-91	05:54:00	1.900	2566.96	509.79	274.79		
11-01-91	05:55:00	1.917	2566.98	509.81	274.79		
11-01-91	05:56:00	1.933	2567.05	509.88	274.78		
11-01-91	05:57:00	1.950	2567.05	509.88	274.78		
11-01-91	05:58:00	1.967	2567.09	509.92	274.78		
11-01-91	05:59:00	1.983	2567.09	509.92	274.78		
11-01-91	06:00:00	2.000	2567.06	509.89	274.78	2111	CSG = 0 PSIG
11-01-91	06:05:00	2.083	2566.94	509.77	274.76		
11-01-91	06:10:00	2.167	2566.55	509.38	274.76		5 MIN. SAMPLE RATE
11-01-91	06:15:00	2.250	2566.17	509.00	274.74		
11-01-91	06:20:00	2.333	2565.85	508.68	274.73		
11-01-91	06:25:00	2.417	2565.64	508.47	274.73		
11-01-91	06:30:00	2.500	2565.63	508.46	274.72		
11-01-91	06:35:00	2.583	2565.57	508.40	274.73		
11-01-91	06:40:00	2.667	2565.54	508.37	274.73		
11-01-91	06:45:00	2.750	2565.59	508.42	274.73		
11-01-91	06:50:00	2.833	2565.72	508.55	274.74		
11-01-91	07:00:00	3.000	2565.96	508.79	274.74	2108	CSG = 0 PSIG
11-01-91	07:05:00	3.083	2566.11	508.94	274.76		
11-01-91	07:10:00	3.167	2566.22	509.05	274.75		
11-01-91	07:15:00	3.250	2566.36	509.19	274.76		
11-01-91	07:20:00	3.333	2566.53	509.36	274.77		
11-01-91	07:25:00	3.417	2566.69	509.52	274.77		
11-01-91	07:30:00	3.500	2566.82	509.65	274.78		
11-01-91	07:35:00	3.583	2566.99	509.82	274.78		
11-01-91	07:50:00	3.833	2567.53	510.36	274.80		
11-01-91	07:55:00	3.917	2567.70	510.53	274.80		
11-01-91	08:00:00	4.000	2567.88	510.71	274.80	2105	CSG = 0 PSIG
11-01-91	08:05:00	4.083	2568.01	510.84	274.81		
11-01-91	08:10:00	4.167	2568.23	511.06	274.81		
11-01-91	08:15:00	4.250	2568.35	511.18	274.81		
11-01-91	08:20:00	4.333	2568.55	511.38	274.82		
11-01-91	08:25:00	4.417	2568.75	511.58	274.82		
11-01-91	08:30:00	4.500	2568.91	511.74	274.82		
11-01-91	08:35:00	4.583	2569.07	511.90	274.83		
11-01-91	08:40:00	4.667	2569.23	512.06	274.83		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 2nd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	08:45:00	4.750	2569.46	512.29	274.84		
11-01-91	08:50:00	4.833	2569.58	512.41	274.84		
11-01-91	08:55:00	4.917	2569.72	512.55	274.84		
11-01-91	09:00:00	5.000	2569.92	512.75	274.85	2104	CSG = 0 PSIG
11-01-91	09:05:00	5.083	2570.10	512.93	274.85		
11-01-91	09:10:00	5.167	2570.32	513.15	274.85		
11-01-91	09:15:00	5.250	2570.42	513.25	274.85		
11-01-91	09:20:00	5.333	2570.59	513.42	274.86		
11-01-91	09:25:00	5.417	2570.75	513.58	274.86		
11-01-91	09:30:00	5.500	2570.88	513.71	274.86		
11-01-91	09:35:00	5.583	2571.01	513.84	274.87		
11-01-91	09:40:00	5.667	2571.18	514.01	274.87		
11-01-91	09:45:00	5.750	2571.30	514.13	274.87		
11-01-91	09:50:00	5.833	2571.42	514.25	274.88		
11-01-91	09:55:00	5.917	2571.56	514.39	274.88		
11-01-91	10:00:00	6.000	2571.69	514.52	274.88	2106	CSG = 0 PSIG
11-01-91	10:10:00	6.167	2571.95	514.78	274.89		
11-01-91	10:20:00	6.333	2572.14	514.97	274.90		
11-01-91	10:30:00	6.500	2572.32	515.15	274.91		
11-01-91	10:40:00	6.667	2572.57	515.40	274.92		
11-01-91	10:50:00	6.833	2572.79	515.62	274.93		
11-01-91	11:00:00	7.000	2573.01	515.84	274.93	2105	CSG = 0 PSIG
11-01-91	11:10:00	7.167	2573.21	516.04	274.94		
11-01-91	11:20:00	7.333	2573.41	516.24	274.94		
11-01-91	11:30:00	7.500	2573.60	516.43	274.95		
11-01-91	11:40:00	7.667	2573.82	516.65	274.95		
11-01-91	11:50:00	7.833	2574.04	516.87	274.96		
11-01-91	12:00:00	8.000	2574.26	517.09	274.97	2104	CSG = 0 PSIG
11-01-91	12:10:00	8.167	2574.50	517.33	274.97		
11-01-91	12:20:00	8.333	2574.70	517.53	274.97		
11-01-91	12:30:00	8.500	2574.85	517.68	274.97		
11-01-91	12:40:00	8.667	2575.07	517.90	274.98		
11-01-91	12:50:00	8.833	2575.29	518.12	274.99		
11-01-91	13:00:00	9.000	2575.44	518.27	274.99	2106	CSG = 0 PSIG
11-01-91	13:10:00	9.167	2575.69	518.52	274.99		
11-01-91	13:20:00	9.333	2575.84	518.67	275.00		
11-01-91	13:30:00	9.500	2576.02	518.85	275.01		
11-01-91	13:40:00	9.667	2576.25	519.08	275.01		
11-01-91	13:50:00	9.833	2576.38	519.21	275.01		
11-01-91	14:00:00	10.000	2576.62	519.45	275.02	2107	CSG = 0 PSIG
11-01-91	14:10:00	10.167	2576.75	519.58	275.02		
11-01-91	14:20:00	10.333	2576.89	519.72	275.02		
11-01-91	14:30:00	10.500	2577.09	519.92	275.03		
11-01-91	14:40:00	10.667	2577.28	520.11	275.04		
11-01-91	14:50:00	10.833	2577.39	520.21	275.03		
11-01-91	15:00:00	11.000	2577.65	520.48	275.04	2108	CSG = 0 PSIG
11-01-91	15:10:00	11.167	2577.78	520.61	275.04		
11-01-91	15:20:00	11.333	2578.01	520.84	275.05		
11-01-91	15:30:00	11.500	2578.13	520.96	275.05		
11-01-91	15:40:00	11.667	2578.35	521.18	275.05		
11-01-91	15:50:00	11.833	2578.47	521.30	275.05	2109	END OF 2nd BUILD UP

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION : PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	15:00:00	0.000	2578.61	0.14	275.06	2109	OPEN WELL
11-01-91	15:01:00	0.017	2481.62	-96.99	275.05		
11-01-91	15:02:00	0.033	2214.70	-266.92	274.29		DELTA T FROM FLOW
11-01-91	15:03:00	0.050	2002.80	-211.90	271.60		
11-01-91	15:04:00	0.067	1865.03	-137.77	268.83		DELTA P FROM PREVIOUS READING
11-01-91	15:05:00	0.083	1772.37	-92.67	267.07		
11-01-91	15:06:00	0.100	1705.02	-67.35	266.28		
11-01-91	15:07:00	0.117	1662.98	-42.04	266.13		1 MIN. SAMPLE RATE
11-01-91	15:08:00	0.133	1634.61	-28.37	266.33		
11-01-91	15:09:00	0.150	1606.63	-27.98	266.62		
11-01-91	15:10:00	0.167	1578.41	-28.22	266.83		
11-01-91	15:11:00	0.183	1550.48	-27.93	266.93		
11-01-91	15:12:00	0.200	1524.37	-26.11	266.92		
11-01-91	15:13:00	0.217	1502.20	-22.17	266.84		
11-01-91	15:14:00	0.233	1485.37	-16.84	266.72		
11-01-91	15:15:00	0.250	1474.16	-11.20	266.61		
11-01-91	15:16:00	0.267	1467.26	-6.90	266.47		
11-01-91	15:17:00	0.283	1463.70	-3.57	266.37		
11-01-91	15:18:00	0.300	1462.92	-0.77	266.26		
11-01-91	15:19:00	0.317	1464.59	1.67	266.16		
11-01-91	15:20:00	0.333	1468.03	3.44	266.04		
11-01-91	15:21:00	0.350	1472.63	4.60	265.91		
11-01-91	15:22:00	0.367	1477.81	5.18	265.75		
11-01-91	15:23:00	0.383	1483.21	5.40	265.57		
11-01-91	15:24:00	0.400	1488.56	5.35	265.35		
11-01-91	15:25:00	0.417	1493.89	5.33	265.13		
11-01-91	15:26:00	0.433	1499.35	5.46	264.89		
11-01-91	15:27:00	0.450	1504.54	5.19	264.65		
11-01-91	15:28:00	0.467	1509.45	4.90	264.44		
11-01-91	15:29:00	0.483	1513.92	4.48	264.23		
11-01-91	15:30:00	0.500	1518.09	4.17	264.02	960	CSG = 0 PSIG
11-01-91	15:31:00	0.517	1522.01	3.92	263.83		
11-01-91	15:32:00	0.533	1526.01	3.99	263.66		
11-01-91	15:33:00	0.550	1530.00	3.99	263.50		
11-01-91	15:34:00	0.567	1533.94	3.94	263.38		
11-01-91	15:35:00	0.583	1537.75	3.81	263.28		
11-01-91	15:36:00	0.600	1541.70	3.95	263.18		
11-01-91	15:37:00	0.617	1545.59	3.89	263.11		
11-01-91	15:38:00	0.633	1549.47	3.88	263.05		
11-01-91	15:39:00	0.650	1553.31	3.84	263.02		
11-01-91	15:40:00	0.667	1557.14	3.83	262.98		
11-01-91	15:41:00	0.683	1560.95	3.81	262.95		
11-01-91	15:42:00	0.700	1564.64	3.69	262.94		
11-01-91	15:43:00	0.717	1568.28	3.64	262.92		
11-01-91	15:44:00	0.733	1571.94	3.66	262.91		
11-01-91	15:45:00	0.750	1575.44	3.50	262.91		
11-01-91	15:46:00	0.767	1578.98	3.54	262.91		
11-01-91	15:47:00	0.783	1582.24	3.27	262.91		
11-01-91	15:48:00	0.800	1585.36	3.12	262.92		
11-01-91	15:49:00	0.817	1588.44	3.08	262.93		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	15:50:00	0.833	1591.35	2.91	262.95		
11-01-91	15:51:00	0.850	1594.26	2.92	262.96		
11-01-91	15:52:00	0.867	1596.96	2.69	262.97		
11-01-91	15:53:00	0.883	1599.64	2.68	262.98		
11-01-91	15:54:00	0.900	1602.21	2.57	263.01		
11-01-91	15:55:00	0.917	1604.79	2.58	263.03		
11-01-91	15:56:00	0.933	1607.27	2.48	263.06		
11-01-91	15:57:00	0.950	1609.66	2.39	263.07		
11-01-91	15:58:00	0.967	1611.98	2.32	263.10		
11-01-91	15:59:00	0.983	1614.14	2.16	263.12		
11-01-91	17:00:00	1.000	1616.21	2.07	263.15	1002	CSG = 0 PSIG
11-01-91	17:01:00	1.017	1618.33	2.12	263.18		
11-01-91	17:02:00	1.033	1620.46	2.13	263.22		
11-01-91	17:03:00	1.050	1622.50	2.04	263.25		
11-01-91	17:04:00	1.067	1624.52	2.02	263.29		
11-01-91	17:05:00	1.083	1626.63	2.11	263.33		
11-01-91	17:06:00	1.100	1628.89	2.26	263.37		
11-01-91	17:07:00	1.117	1631.08	2.19	263.41		
11-01-91	17:08:00	1.133	1633.11	2.03	263.45		
11-01-91	17:09:00	1.150	1635.09	1.98	263.50		
11-01-91	17:10:00	1.167	1637.05	1.96	263.54		
11-01-91	17:11:00	1.183	1638.69	1.64	263.58		
11-01-91	17:12:00	1.200	1640.33	1.64	263.61		
11-01-91	17:13:00	1.217	1641.92	1.58	263.65		
11-01-91	17:14:00	1.233	1643.49	1.57	263.69		
11-01-91	17:15:00	1.250	1644.95	1.46	263.73		
11-01-91	17:16:00	1.267	1646.55	1.61	263.75		
11-01-91	17:17:00	1.283	1648.10	1.55	263.79		
11-01-91	17:18:00	1.300	1649.45	1.35	263.83		
11-01-91	17:19:00	1.317	1650.83	1.38	263.86		
11-01-91	17:20:00	1.333	1652.22	1.39	263.90		
11-01-91	17:21:00	1.350	1653.50	1.28	263.93		
11-01-91	17:22:00	1.367	1654.89	1.39	263.97		
11-01-91	17:23:00	1.383	1656.21	1.32	264.00		
11-01-91	17:24:00	1.400	1657.63	1.41	264.03		
11-01-91	17:25:00	1.417	1659.01	1.38	264.06		
11-01-91	17:26:00	1.433	1660.35	1.34	264.09		
11-01-91	17:27:00	1.450	1661.70	1.34	264.12		
11-01-91	17:28:00	1.467	1663.03	1.34	264.14		
11-01-91	17:29:00	1.483	1664.25	1.22	264.17		
11-01-91	17:30:00	1.500	1665.51	1.26	264.20	1035	CSG = 0 PSIG
11-01-91	17:31:00	1.517	1666.74	1.23	264.22		
11-01-91	17:32:00	1.533	1668.04	1.30	264.25		
11-01-91	17:33:00	1.550	1669.47	1.43	264.28		
11-01-91	17:34:00	1.567	1670.82	1.35	264.30		
11-01-91	17:35:00	1.583	1672.24	1.43	264.32		
11-01-91	17:36:00	1.600	1673.41	1.17	264.35		
11-01-91	17:37:00	1.617	1674.73	1.32	264.37		
11-01-91	17:38:00	1.633	1675.94	1.21	264.39		
11-01-91	17:39:00	1.650	1676.89	0.95	264.42		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE : 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	17:40:00	1.667	1678.05	1.16	264.44		
11-01-91	17:41:00	1.683	1679.05	.00	264.47		
11-01-91	17:42:00	1.700	1679.96	0.91	264.49		
11-01-91	17:43:00	1.717	1680.99	1.03	264.52		
11-01-91	17:44:00	1.733	1682.05	1.06	264.55		
11-01-91	17:45:00	1.750	1683.18	1.13	264.58		
11-01-91	17:46:00	1.767	1684.45	1.27	264.61		
11-01-91	17:47:00	1.783	1685.41	0.96	264.64		
11-01-91	17:48:00	1.800	1686.69	1.28	264.68		
11-01-91	17:49:00	1.817	1687.67	0.98	264.70		
11-01-91	17:50:00	1.833	1688.50	0.82	264.73		
11-01-91	17:51:00	1.850	1689.32	0.82	264.76		
11-01-91	17:52:00	1.867	1690.23	0.91	264.79		
11-01-91	17:53:00	1.883	1691.08	0.85	264.82		
11-01-91	17:54:00	1.900	1691.92	0.84	264.84		
11-01-91	17:55:00	1.917	1692.68	0.76	264.87		
11-01-91	17:56:00	1.933	1693.76	1.08	264.90		
11-01-91	17:57:00	1.950	1694.74	0.98	264.92		
11-01-91	17:58:00	1.967	1695.74	.00	264.95		
11-01-91	17:59:00	1.983	1696.72	0.99	264.98		
11-01-91	18:00:00	2.000	1697.70	0.98	265.01	1056	CSG = 0 PSIG
11-01-91	18:01:00	2.017	1698.67	0.97	265.04		
11-01-91	18:02:00	2.033	1700.15	1.48	265.07		
11-01-91	18:03:00	2.050	1701.34	1.19	265.09		
11-01-91	18:04:00	2.067	1703.25	1.91	265.13		
11-01-91	18:05:00	2.083	1705.35	2.10	265.16		
11-01-91	18:06:00	2.100	1707.40	2.05	265.19		
11-01-91	18:07:00	2.117	1708.69	1.28	265.23		
11-01-91	18:08:00	2.133	1709.90	1.21	265.25		
11-01-91	18:09:00	2.150	1711.23	1.33	265.28		
11-01-91	18:10:00	2.167	1712.31	1.08	265.32		
11-01-91	18:11:00	2.183	1713.76	1.45	265.35		
11-01-91	18:12:00	2.200	1715.45	1.69	265.38		
11-01-91	18:13:00	2.217	1716.72	1.27	265.41		
11-01-91	18:14:00	2.233	1718.36	1.64	265.44		
11-01-91	18:15:00	2.250	1719.53	1.17	265.47		
11-01-91	18:16:00	2.267	1721.73	2.19	265.51		
11-01-91	18:17:00	2.283	1723.31	1.58	265.54		
11-01-91	18:18:00	2.300	1724.13	0.82	265.58		
11-01-91	18:19:00	2.317	1725.92	1.79	265.61		
11-01-91	18:20:00	2.333	1727.20	1.28	265.65		
11-01-91	18:21:00	2.350	1728.51	1.31	265.68		
11-01-91	18:22:00	2.367	1729.43	0.92	265.72		
11-01-91	18:23:00	2.383	1730.64	1.21	265.75		
11-01-91	18:24:00	2.400	1732.37	1.73	265.78		
11-01-91	18:25:00	2.417	1733.12	0.75	265.81		
11-01-91	18:26:00	2.433	1733.74	0.62	265.84		
11-01-91	18:27:00	2.450	1734.09	0.35	265.87		
11-01-91	18:28:00	2.467	1735.55	1.46	265.90		
11-01-91	18:29:00	2.483	1737.40	1.85	265.93		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE : 11-01-91 HP GAUGE S/N : 599
LOCATION : THURAKINNA #3 TEST : MODIFIED ISOCHRONAL OPERATOR : HUW JAMES
FORMATION : PATCHAWARRA PERFORATIONS : 7484'-7720'KB GAUGE DEPTH : 7400'KB
COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	18:30:00	2.500	1738.72	1.32	265.97		
11-01-91	18:31:00	2.517	1739.60	0.88	266.00		
11-01-91	18:32:00	2.533	1739.59	-0.01	266.03		
11-01-91	18:33:00	2.550	1740.66	1.07	266.05		
11-01-91	18:34:00	2.567	1741.17	0.51	266.08		
11-01-91	18:35:00	2.583	1743.05	1.88	266.11		
11-01-91	18:36:00	2.600	1744.07	1.02	266.14		
11-01-91	18:37:00	2.617	1744.75	0.68	266.18		
11-01-91	18:38:00	2.633	1746.29	1.54	266.21		
11-01-91	18:39:00	2.650	1746.64	0.35	266.23		
11-01-91	18:40:00	2.667	1746.40	-0.24	266.26		
11-01-91	18:41:00	2.683	1746.65	0.25	266.28		
11-01-91	18:42:00	2.700	1747.78	1.13	266.30		
11-01-91	18:43:00	2.717	1748.58	0.80	266.33		
11-01-91	18:44:00	2.733	1749.94	1.36	266.35		
11-01-91	18:45:00	2.750	1750.07	0.14	266.38		
11-01-91	18:46:00	2.767	1749.98	-0.09	266.41		
11-01-91	18:47:00	2.783	1750.38	0.40	266.42		
11-01-91	18:48:00	2.800	1751.01	0.63	266.45		
11-01-91	18:49:00	2.817	1751.01	0.01	266.46		
11-01-91	18:50:00	2.833	1752.01	.00	266.48		
11-01-91	18:51:00	2.850	1753.47	1.45	266.51		
11-01-91	18:52:00	2.867	1754.48	1.01	266.53		
11-01-91	18:53:00	2.883	1754.18	-0.30	266.55		
11-01-91	18:54:00	2.900	1754.73	0.55	266.58		
11-01-91	18:55:00	2.917	1755.25	0.52	266.60		
11-01-91	18:56:00	2.933	1755.90	0.65	266.61		
11-01-91	18:57:00	2.950	1756.22	0.32	266.63		
11-01-91	18:58:00	2.967	1756.69	0.47	266.65		
11-01-91	18:59:00	2.983	1756.91	0.22	266.67		
11-01-91	19:00:00	3.000	1757.55	0.64	266.69	1075	CSG = 0 PSIG
11-01-91	19:05:00	3.083	1759.53	1.99	266.77		
11-01-91	19:10:00	3.167	1762.99	3.45	266.86		5 MIN. SAMPLE RATE
11-01-91	19:15:00	3.250	1764.66	1.67	266.95		
11-01-91	19:20:00	3.333	1767.08	2.41	267.03		
11-01-91	19:25:00	3.417	1769.27	2.19	267.10		
11-01-91	19:30:00	3.500	1769.44	0.17	267.16		
11-01-91	19:35:00	3.583	1771.34	1.90	267.24		
11-01-91	19:40:00	3.667	1772.78	1.44	267.30		
11-01-91	19:45:00	3.750	1774.99	2.20	267.37		
11-01-91	19:50:00	3.833	1776.18	1.19	267.42		
11-01-91	19:55:00	3.917	1779.01	2.83	267.50		
11-01-91	20:00:00	4.000	1780.62	1.61	267.55	1093	CSG = 1 PSIG
11-01-91	20:05:00	4.083	1781.60	0.98	267.60		
11-01-91	20:10:00	4.167	1783.39	1.79	267.67		
11-01-91	20:15:00	4.250	1783.97	0.59	267.71		
11-01-91	20:20:00	4.333	1787.16	3.19	267.78		
11-01-91	20:25:00	4.417	1787.37	0.21	267.82		
11-01-91	20:30:00	4.500	1789.43	2.05	267.87		
11-01-91	20:35:00	4.583	1790.64	1.21	267.92		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 11-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
11-01-91	20:40:00	4.667	1792.73	2.09	267.98		
11-01-91	20:45:00	4.750	1793.50	0.77	268.02		
11-01-91	20:50:00	4.833	1797.04	3.54	268.08		
11-01-91	20:55:00	4.917	1796.30	-0.74	268.12		
11-01-91	21:00:00	5.000	1798.00	1.69	268.18	1110	CSG = 2 PSIG
11-01-91	21:05:00	5.083	1799.44	1.44	268.23		
11-01-91	21:10:00	5.167	1799.64	0.20	268.27		
11-01-91	21:15:00	5.250	1800.80	1.15	268.31		
11-01-91	21:20:00	5.333	1802.12	1.32	268.36		
11-01-91	21:25:00	5.417	1802.98	0.86	268.39		
11-01-91	21:30:00	5.500	1804.52	1.54	268.43		
11-01-91	21:35:00	5.583	1805.95	1.43	268.48		
11-01-91	21:40:00	5.667	1807.36	1.41	268.53		
11-01-91	21:45:00	5.750	1807.88	0.53	268.57		
11-01-91	21:50:00	5.833	1809.93	2.05	268.61		
11-01-91	21:55:00	5.917	1810.00	0.07	268.65		
11-01-91	22:00:00	6.000	1812.84	2.84	268.69	1120	CSG = 3 PSIG
11-01-91	22:05:00	6.083	1812.06	-0.78	268.73		
11-01-91	22:10:00	6.167	1812.55	0.49	268.76		
11-01-91	22:15:00	6.250	1814.07	1.52	268.79		
11-01-91	22:20:00	6.333	1814.31	0.24	268.82		
11-01-91	22:25:00	6.417	1815.31	.00	268.85		
11-01-91	22:30:00	6.500	1816.25	0.94	268.88		
11-01-91	22:35:00	6.583	1817.83	1.58	268.92		
11-01-91	22:40:00	6.667	1818.48	0.65	268.96		
11-01-91	22:45:00	6.750	1819.03	0.55	268.99		
11-01-91	22:50:00	6.833	1820.85	1.82	269.02		
11-01-91	22:55:00	6.917	1821.92	1.07	269.06		
11-01-91	23:00:00	7.000	1821.83	-0.09	269.09	1129	CSG = 3 PSIG
11-01-91	23:05:00	7.083	1822.75	0.92	269.12		
11-01-91	23:10:00	7.167	1823.95	1.20	269.16		
11-01-91	23:15:00	7.250	1825.57	1.61	269.19		
11-01-91	23:20:00	7.333	1825.91	0.35	269.23		
11-01-91	23:25:00	7.417	1826.46	0.54	269.25		
11-01-91	23:30:00	7.500	1827.30	0.84	269.29		
11-01-91	23:35:00	7.583	1827.59	0.29	269.31		
11-01-91	23:40:00	7.667	1828.56	0.98	269.35		
11-01-91	23:45:00	7.750	1829.58	1.02	269.37		
11-01-91	23:50:00	7.833	1829.78	0.19	269.40		
11-01-91	23:55:00	7.917	1830.09	0.31	269.42		
12-01-91	00:00:00	8.000	1831.71	1.62	269.45	1138	CSG = 5 PSIG
12-01-91	00:05:00	8.083	1832.06	0.35	269.47		
12-01-91	00:10:00	8.167	1832.45	0.39	269.50		
12-01-91	00:15:00	8.250	1833.21	0.76	269.52		
12-01-91	00:20:00	8.333	1834.45	1.24	269.55		
12-01-91	00:25:00	8.417	1834.95	0.51	269.58		
12-01-91	00:30:00	8.500	1835.29	0.34	269.60		
12-01-91	00:35:00	8.583	1836.71	1.41	269.63		
12-01-91	00:40:00	8.667	1836.90	0.20	269.66		
12-01-91	00:45:00	8.750	1837.56	0.66	269.68		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 3rd RATE. FLOW ON 36/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	00:50:00	8.833	1837.81	0.25	269.70	1146	CSG = 6 PSIG
12-01-91	00:55:00	8.917	1839.09	1.28	269.73		
12-01-91	01:00:00	9.000	1839.43	0.33	269.75		
12-01-91	01:05:00	9.083	1839.90	0.48	269.77		
12-01-91	01:10:00	9.167	1840.26	0.35	269.79		
12-01-91	01:15:00	9.250	1840.27	0.01	269.81		
12-01-91	01:20:00	9.333	1840.99	0.72	269.83		
12-01-91	01:25:00	9.417	1842.26	1.27	269.86		
12-01-91	01:30:00	9.500	1843.01	0.76	269.88		
12-01-91	01:35:00	9.583	1843.23	0.21	269.91		
12-01-91	01:40:00	9.667	1843.36	0.13	269.92		
12-01-91	01:45:00	9.750	1844.10	0.75	269.95		
12-01-91	01:50:00	9.833	1845.04	0.94	269.97	1151	CSG = 6 PSIG
12-01-91	01:55:00	9.917	1845.74	0.70	269.99		
12-01-91	02:00:00	10.000	1846.33	0.58	270.01		
12-01-91	02:05:00	10.083	1846.65	0.32	270.04		
12-01-91	02:10:00	10.167	1847.06	0.41	270.06		
12-01-91	02:15:00	10.250	1847.54	0.49	270.08		
12-01-91	02:20:00	10.333	1847.66	0.11	270.09		
12-01-91	02:25:00	10.417	1848.16	0.51	270.11		
12-01-91	02:30:00	10.500	1849.21	1.05	270.14		
12-01-91	02:35:00	10.583	1849.69	0.48	270.16		
12-01-91	02:40:00	10.667	1849.86	0.17	270.17		
12-01-91	02:45:00	10.750	1850.35	0.50	270.20	1157	CSG = 7 PSIG
12-01-91	02:50:00	10.833	1850.82	0.47	270.22		
12-01-91	02:55:00	10.917	1851.03	0.21	270.23		
12-01-91	03:00:00	11.000	1851.55	0.53	270.25		
12-01-91	03:05:00	11.083	1852.24	0.68	270.26		
12-01-91	03:10:00	11.167	1852.70	0.46	270.29		
12-01-91	03:15:00	11.250	1852.89	0.19	270.30		
12-01-91	03:20:00	11.333	1853.05	0.16	270.31		
12-01-91	03:25:00	11.417	1853.44	0.39	270.33		
12-01-91	03:30:00	11.500	1854.25	0.80	270.36		
12-01-91	03:35:00	11.583	1854.82	0.58	270.37		
12-01-91	03:40:00	11.667	1855.20	0.38	270.39	1161	CSG = 8 PSIG END OF 3rd RATE
12-01-91	03:45:00	11.750	1856.08	0.87	270.41		
12-01-91	03:50:00	11.833	1856.18	0.10	270.42		
12-01-91	03:55:00	11.917	1857.01	0.83	270.45		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 3rd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	04:00:00	0.000	1857.14	-0.00	270.46	1161	SHUT IN WELL
12-01-91	04:00:10	0.003	1857.14	-0.00	270.47		CSG = 8 PSIG
12-01-91	04:00:20	0.006	1857.36	0.22	270.47		
12-01-91	04:00:30	0.008	1866.75	9.61	270.47		DELTA T FROM S.I.
12-01-91	04:00:40	0.011	1892.57	35.43	270.47		
12-01-91	04:00:50	0.014	1927.80	70.66	270.47		DELTA P FROM S.I.
12-01-91	04:01:00	0.017	1965.94	108.80	270.47		
12-01-91	04:01:10	0.019	2003.37	146.23	270.47		10 SEC.SAMPLE RATE
12-01-91	04:01:20	0.022	2039.11	181.97	270.47		
12-01-91	04:01:30	0.025	2073.43	216.29	270.47		
12-01-91	04:01:40	0.028	2105.75	248.61	270.47		
12-01-91	04:01:50	0.031	2135.50	278.36	270.47		
12-01-91	04:02:00	0.033	2162.81	305.67	270.47		
12-01-91	04:02:10	0.036	2188.05	330.91	270.47		
12-01-91	04:02:20	0.039	2211.46	354.32	270.47		
12-01-91	04:02:30	0.042	2232.95	375.81	270.47		
12-01-91	04:02:40	0.044	2252.58	395.44	270.47		
12-01-91	04:02:50	0.047	2268.61	411.47	270.47		
12-01-91	04:03:00	0.050	2286.29	429.15	270.47		
12-01-91	04:03:10	0.053	2300.49	443.35	270.47		
12-01-91	04:03:20	0.056	2313.07	455.93	270.47		
12-01-91	04:03:30	0.058	2324.28	467.14	270.47		
12-01-91	04:03:40	0.061	2334.21	477.07	270.47		
12-01-91	04:03:50	0.064	2342.82	485.68	270.47		
12-01-91	04:04:00	0.067	2350.45	493.31	270.47		
12-01-91	04:04:10	0.069	2357.04	499.90	270.47		
12-01-91	04:04:20	0.072	2362.77	505.63	270.47		
12-01-91	04:04:30	0.075	2367.86	510.72	270.47		
12-01-91	04:04:40	0.078	2372.30	515.16	270.47		
12-01-91	04:04:50	0.081	2375.79	518.65	270.47		
12-01-91	04:05:00	0.083	2379.63	522.49	270.47		30 SEC.SAMPLE RATE
12-01-91	04:05:30	0.092	2387.69	530.55	274.85		
12-01-91	04:06:00	0.100	2392.98	535.84	275.05		
12-01-91	04:06:30	0.108	2396.99	539.85	275.17		
12-01-91	04:07:00	0.117	2400.02	542.88	275.26		
12-01-91	04:07:30	0.125	2402.94	545.80	275.31		
12-01-91	04:08:00	0.133	2405.38	548.24	275.33		
12-01-91	04:08:30	0.142	2407.82	550.68	275.32		
12-01-91	04:09:00	0.150	2410.44	553.30	275.30		
12-01-91	04:09:30	0.158	2413.19	556.05	275.27		
12-01-91	04:10:00	0.167	2416.09	558.95	275.24		
12-01-91	04:10:30	0.175	2418.91	561.77	275.21		
12-01-91	04:11:00	0.183	2421.74	564.60	275.18		
12-01-91	04:11:30	0.192	2424.57	567.43	275.14		
12-01-91	04:12:00	0.200	2427.41	570.27	275.10		
12-01-91	04:12:30	0.208	2430.13	572.99	275.07		
12-01-91	04:13:00	0.217	2432.90	575.76	275.04		
12-01-91	04:13:30	0.225	2435.68	578.54	275.00		
12-01-91	04:14:00	0.233	2438.45	581.31	274.97		
12-01-91	04:14:30	0.242	2441.17	584.03	274.94		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 3rd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	04:15:00	0.250	2443.82	586.68	274.92	2033	CSG = 5 PSIG
12-01-91	04:15:30	0.258	2446.49	589.35	274.89		
12-01-91	04:16:00	0.267	2449.11	591.97	274.87		
12-01-91	04:16:30	0.275	2451.71	594.57	274.86		
12-01-91	04:17:00	0.283	2454.26	597.12	274.83		
12-01-91	04:17:30	0.292	2456.66	599.52	274.82		
12-01-91	04:18:00	0.300	2459.13	601.99	274.80		
12-01-91	04:18:30	0.308	2461.51	604.37	274.79		
12-01-91	04:19:00	0.317	2463.88	606.74	274.77		
12-01-91	04:19:30	0.325	2466.16	609.02	274.77		
12-01-91	04:20:00	0.333	2468.54	611.40	274.75		
12-01-91	04:20:30	0.342	2470.67	613.53	274.74		
12-01-91	04:21:00	0.350	2472.85	615.71	274.73		
12-01-91	04:21:30	0.358	2474.96	617.82	274.72		
12-01-91	04:22:00	0.367	2477.14	620.00	274.71		
12-01-91	04:22:30	0.375	2479.25	622.11	274.70		
12-01-91	04:23:00	0.383	2481.23	624.09	274.69		
12-01-91	04:23:30	0.392	2483.24	626.10	274.68		
12-01-91	04:24:00	0.400	2485.25	628.11	274.67		
12-01-91	04:24:30	0.408	2487.16	630.02	274.66		
12-01-91	04:25:00	0.417	2489.11	631.97	274.65		
12-01-91	04:25:30	0.425	2490.91	633.77	274.64		
12-01-91	04:26:00	0.433	2492.73	635.59	274.62		
12-01-91	04:26:30	0.442	2494.51	637.37	274.61		
12-01-91	04:27:00	0.450	2496.21	639.07	274.60		
12-01-91	04:27:30	0.458	2497.98	640.84	274.59		
12-01-91	04:28:00	0.467	2499.66	642.52	274.58		
12-01-91	04:28:30	0.475	2501.32	644.18	274.56		
12-01-91	04:29:00	0.483	2502.95	645.81	274.55		
12-01-91	04:29:30	0.492	2504.52	647.38	274.54		
12-01-91	04:30:00	0.500	2506.10	648.96	274.52	2080	CSG = 4 PSIG
12-01-91	04:31:00	0.517	2509.10	651.96	274.49		1 MIN. SAMPLE RATE
12-01-91	04:32:00	0.533	2512.01	654.87	274.47		
12-01-91	04:33:00	0.550	2514.90	657.76	274.44		
12-01-91	04:34:00	0.567	2517.79	660.65	274.41		
12-01-91	04:35:00	0.583	2520.43	663.29	274.39		
12-01-91	04:36:00	0.600	2522.92	665.78	274.36		
12-01-91	04:37:00	0.617	2525.44	668.30	274.34		
12-01-91	04:38:00	0.633	2527.59	670.45	274.31		
12-01-91	04:39:00	0.650	2528.92	671.78	274.28		
12-01-91	04:40:00	0.667	2529.71	672.57	274.24		
12-01-91	04:41:00	0.683	2530.14	673.00	274.21		2095 CSG = 3 PSIG
12-01-91	04:42:00	0.700	2530.03	672.89	274.17		
12-01-91	04:43:00	0.717	2529.69	672.55	274.12		
12-01-91	04:44:00	0.733	2529.17	672.03	274.07		
12-01-91	04:45:00	0.750	2528.51	671.37	274.02		
12-01-91	04:46:00	0.767	2527.84	670.70	273.96		
12-01-91	04:47:00	0.783	2527.10	669.96	273.91		
12-01-91	04:48:00	0.800	2526.46	669.32	273.86		
12-01-91	04:49:00	0.817	2525.80	668.66	273.81		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 3rd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	04:50:00	0.833	2525.26	668.12	273.77		
12-01-91	04:51:00	0.850	2524.60	667.46	273.73		
12-01-91	04:52:00	0.867	2524.03	666.89	273.69		
12-01-91	04:53:00	0.883	2523.49	666.35	273.65		
12-01-91	04:54:00	0.900	2523.01	665.87	273.62		
12-01-91	04:55:00	0.917	2522.53	665.39	273.59		
12-01-91	04:56:00	0.933	2522.11	664.97	273.57		
12-01-91	04:57:00	0.950	2521.76	664.62	273.55		
12-01-91	04:58:00	0.967	2521.47	664.33	273.52		
12-01-91	04:59:00	0.983	2521.22	664.08	273.50		
12-01-91	05:00:00	1.000	2521.00	663.86	273.48	2088	CSG = 2 PSIG
12-01-91	05:01:00	1.017	2520.83	663.69	273.46		
12-01-91	05:02:00	1.033	2520.66	663.52	273.45		
12-01-91	05:03:00	1.050	2520.46	663.32	273.44		
12-01-91	05:04:00	1.067	2520.38	663.24	273.42		
12-01-91	05:05:00	1.083	2520.29	663.15	273.42		
12-01-91	05:06:00	1.100	2520.24	663.10	273.40		
12-01-91	05:07:00	1.117	2520.21	663.07	273.40		
12-01-91	05:08:00	1.133	2520.19	663.05	273.39		
12-01-91	05:09:00	1.150	2520.18	663.04	273.37		
12-01-91	05:10:00	1.167	2520.13	662.99	273.36		
12-01-91	05:11:00	1.183	2520.16	663.02	273.36		
12-01-91	05:12:00	1.200	2520.27	663.13	273.35		
12-01-91	05:13:00	1.217	2520.39	663.25	273.34		
12-01-91	05:14:00	1.233	2520.40	663.26	273.34		
12-01-91	05:15:00	1.250	2520.45	663.31	273.33		
12-01-91	05:16:00	1.267	2520.53	663.39	273.33		
12-01-91	05:17:00	1.283	2520.69	663.55	273.32		
12-01-91	05:18:00	1.300	2520.86	663.72	273.32		
12-01-91	05:19:00	1.317	2521.00	663.86	273.32		
12-01-91	05:20:00	1.333	2521.17	664.03	273.31		
12-01-91	05:21:00	1.350	2521.26	664.12	273.31		
12-01-91	05:22:00	1.367	2521.55	664.41	273.30		
12-01-91	05:23:00	1.383	2521.74	664.60	273.30		
12-01-91	05:24:00	1.400	2521.98	664.84	273.30		
12-01-91	05:25:00	1.417	2522.25	665.11	273.30		
12-01-91	05:26:00	1.433	2522.48	665.34	273.29		
12-01-91	05:27:00	1.450	2522.74	665.60	273.29		
12-01-91	05:28:00	1.467	2523.11	665.97	273.29		
12-01-91	05:29:00	1.483	2523.43	666.29	273.29		
12-01-91	05:30:00	1.500	2523.76	666.62	273.30	2088	CSG = 1 PSIG
12-01-91	05:35:00	1.583	2525.57	668.43	273.30		
12-01-91	05:40:00	1.667	2526.97	669.83	273.31		5 MIN. SAMPLE RATE
12-01-91	05:45:00	1.750	2527.99	670.85	273.30		
12-01-91	05:50:00	1.833	2528.65	671.51	273.30		
12-01-91	05:55:00	1.917	2528.95	671.81	273.30		
12-01-91	06:00:00	2.000	2528.91	671.77	273.29	2090	CSG = 0 PSIG
12-01-91	06:05:00	2.083	2528.83	671.69	273.28		
12-01-91	06:10:00	2.167	2528.80	671.66	273.28		
12-01-91	06:15:00	2.250	2528.95	671.81	273.29		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : BUILD UP AFTER 3rd RATE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	06:20:00	2.333	2529.16	672.02	273.30		
12-01-91	06:25:00	2.417	2529.55	672.41	273.31		
12-01-91	06:30:00	2.500	2529.94	672.80	273.31		
12-01-91	06:35:00	2.583	2530.39	673.25	273.32		
12-01-91	06:40:00	2.667	2530.85	673.71	273.34		
12-01-91	06:45:00	2.750	2531.27	674.13	273.36		
12-01-91	06:50:00	2.833	2531.68	674.54	273.37		
12-01-91	06:55:00	2.917	2532.05	674.91	273.38		
12-01-91	07:00:00	3.000	2532.38	675.24	273.39	2089	CSG = 0 PSIG
12-01-91	07:05:00	3.083	2532.83	675.69	273.40		
12-01-91	07:10:00	3.167	2533.21	676.07	273.42		
12-01-91	07:15:00	3.250	2533.63	676.49	273.43		
12-01-91	07:20:00	3.333	2534.09	676.95	273.45		
12-01-91	07:25:00	3.417	2534.54	677.40	273.45		
12-01-91	07:30:00	3.500	2534.93	677.79	273.47		
12-01-91	07:35:00	3.583	2535.34	678.20	273.48		
12-01-91	07:40:00	3.667	2535.70	678.56	273.49		
12-01-91	07:45:00	3.750	2536.10	678.96	273.50		
12-01-91	07:50:00	3.833	2536.46	679.32	273.52		
12-01-91	07:55:00	3.917	2536.78	679.64	273.53		
12-01-91	08:00:00	4.000	2537.17	680.03	273.54	2090	CSG = 0 PSIG
12-01-91	08:05:00	4.083	2537.51	680.37	273.56		
12-01-91	08:10:00	4.167	2537.82	680.68	273.56		
12-01-91	08:15:00	4.250	2538.19	681.05	273.58		
12-01-91	08:20:00	4.333	2538.55	681.41	273.59		
12-01-91	08:25:00	4.417	2538.90	681.76	273.59		
12-01-91	08:30:00	4.500	2539.26	682.12	273.61		
12-01-91	08:35:00	4.583	2539.53	682.39	273.62		
12-01-91	08:40:00	4.667	2539.94	682.80	273.63		
12-01-91	08:45:00	4.750	2540.18	683.04	273.63		
12-01-91	08:50:00	4.833	2540.54	683.40	273.65		
12-01-91	08:55:00	4.917	2540.87	683.73	273.66		
12-01-91	09:00:00	5.000	2541.19	684.05	273.67	2090	CSG = 0 PSIG
12-01-91	09:05:00	5.083	2541.51	684.37	273.68		
12-01-91	09:10:00	5.167	2541.83	684.69	273.69		
12-01-91	09:15:00	5.250	2542.10	684.96	273.70		
12-01-91	09:20:00	5.333	2542.40	685.26	273.71		
12-01-91	09:25:00	5.417	2542.68	685.54	273.72		
12-01-91	09:30:00	5.500	2542.99	685.85	273.73		
12-01-91	09:35:00	5.583	2543.26	686.12	273.74		
12-01-91	09:40:00	5.667	2543.63	686.49	273.74		
12-01-91	09:45:00	5.750	2543.96	686.82	273.74		
12-01-91	09:50:00	5.833	2544.20	687.06	273.75		
12-01-91	09:55:00	5.917	2544.49	687.35	273.77		
12-01-91	10:00:00	6.000	2544.73	687.59	273.77	2091	CSG = 0 PSIG
12-01-91	10:05:00	6.083	2545.00	687.86	273.78		
12-01-91	10:10:00	6.167	2545.22	688.08	273.79		
12-01-91	10:15:00	6.250	2545.40	688.26	273.81		
12-01-91	10:20:00	6.333	2545.72	688.58	273.81		
12-01-91	10:25:00	6.417	2546.01	688.87	273.81		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD.
 LOCATION : THURAKINNA #3
 FORMATION : PATCHAWARRA
 COMMENTS : BUILD UP AFTER 3rd RATE

DATE : 12-01-91
 TEST : MODIFIED ISOCHRONAL
 PERFORATIONS : 7484'-7720'KB

HP GAUGE S/N: 599
 OPERATOR: HUW JAMES
 GAUGE DEPTH: 7400'KB

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	10:30:00	6.500	2546.33	689.19	273.81		
12-01-91	10:35:00	6.583	2546.49	689.35	273.80		
12-01-91	10:40:00	6.667	2546.73	689.59	273.81		
12-01-91	10:45:00	6.750	2546.97	689.83	273.82		
12-01-91	10:50:00	6.833	2547.18	690.04	273.83		
12-01-91	10:55:00	6.917	2547.41	690.27	273.83		
12-01-91	11:00:00	7.000	2547.60	690.46	273.84	2093	CSG = 0 PSIG
12-01-91	11:10:00	7.167	2548.02	690.88	273.86		10 MIN. SAMPLE RATE
12-01-91	11:20:00	7.333	2548.49	691.35	273.87		
12-01-91	11:30:00	7.500	2548.89	691.75	273.88		
12-01-91	11:40:00	7.667	2549.26	692.12	273.89		
12-01-91	11:50:00	7.833	2549.58	692.44	273.91	2093	CSG = 0 PSIG
12-01-91	12:00:00	8.000	2550.00	692.86	273.92		
12-01-91	12:10:00	8.167	2550.31	693.17	273.94		
12-01-91	12:20:00	8.333	2550.63	693.49	273.94		
12-01-91	12:30:00	8.500	2551.00	693.86	273.96		
12-01-91	12:40:00	8.667	2551.35	694.21	273.97		
12-01-91	12:50:00	8.833	2551.68	694.54	273.99	2093	CSG = 0 PSIG
12-01-91	13:00:00	9.000	2552.02	694.88	274.00		
12-01-91	13:10:00	9.167	2552.25	695.11	274.00		
12-01-91	13:20:00	9.333	2552.64	695.50	274.02		
12-01-91	13:30:00	9.500	2552.91	695.77	274.03		
12-01-91	13:40:00	9.667	2553.25	696.11	274.04		
12-01-91	13:50:00	9.833	2553.53	696.39	274.06	2095	CSG = 0 PSIG
12-01-91	14:00:00	10.000	2553.78	696.64	274.06		
12-01-91	14:10:00	10.167	2554.09	696.95	274.07		
12-01-91	14:20:00	10.333	2554.39	697.25	274.08		
12-01-91	14:30:00	10.500	2554.63	697.49	274.09		
12-01-91	14:40:00	10.667	2554.89	697.75	274.10		
12-01-91	14:50:00	10.833	2555.23	698.09	274.12	2097	CSG = 0 PSIG
12-01-91	15:00:00	11.000	2555.39	698.25	274.13		
12-01-91	15:10:00	11.167	2555.68	698.54	274.14		
12-01-91	15:20:00	11.333	2555.91	698.77	274.15		
12-01-91	15:30:00	11.500	2556.22	699.08	274.16		
12-01-91	15:40:00	11.667	2556.45	699.31	274.17	2097	END OF 3rd BUILD UP
12-01-91	15:50:00	11.833	2556.76	699.62	274.18		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE : 12-01-91 HP GAUGE S/N : 599
LOCATION : THURAKINNA #3 TEST : MODIFIED ISOCHRONAL OPERATOR : HUW JAMES
FORMATION : PATCHAWARRA PERFORATIONS : 7484'-7720'KB GAUGE DEPTH : 7400'KB
COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	16:00:00	0.000	2557.03	0.00	274.19	2097	OPEN WELL
12-01-91	16:01:00	0.017	2450.96	-106.07	274.17		
12-01-91	16:02:00	0.033	2296.77	-154.19	273.57		DELTA T FROM FLOW
12-01-91	16:03:00	0.050	2065.84	-230.92	271.63		
12-01-91	16:04:00	0.067	1869.93	-195.92	268.77		DELTA P FROM PREVIOUS READING
12-01-91	16:05:00	0.083	1743.44	-126.48	266.56		
12-01-91	16:06:00	0.100	1660.66	-82.79	265.39		
12-01-91	16:07:00	0.117	1613.86	-46.79	265.10		
12-01-91	16:08:00	0.133	1577.97	-35.89	265.20		
12-01-91	16:09:00	0.150	1547.08	-30.89	265.39		
12-01-91	16:10:00	0.167	1519.06	-28.02	265.53		
12-01-91	16:11:00	0.183	1493.46	-25.60	265.60		
12-01-91	16:12:00	0.200	1470.74	-22.72	265.56		
12-01-91	16:13:00	0.217	1452.62	-18.12	265.44		
12-01-91	16:14:00	0.233	1441.83	-10.79	265.28		
12-01-91	16:15:00	0.250	1436.72	-5.11	265.12		
12-01-91	16:16:00	0.267	1435.10	-1.63	264.96		
12-01-91	16:17:00	0.283	1435.86	0.76	264.79		
12-01-91	16:18:00	0.300	1438.49	2.63	264.62		
12-01-91	16:19:00	0.317	1442.81	4.32	264.41		
12-01-91	16:20:00	0.333	1448.17	5.35	264.18		
12-01-91	16:21:00	0.350	1454.19	6.02	263.92		
12-01-91	16:22:00	0.367	1460.47	6.28	263.65		
12-01-91	16:23:00	0.383	1466.87	6.40	263.37		
12-01-91	16:24:00	0.400	1473.58	6.71	263.10		
12-01-91	16:25:00	0.417	1480.58	7.00	262.84		
12-01-91	16:26:00	0.433	1487.61	7.04	262.60		
12-01-91	16:27:00	0.450	1494.53	6.92	262.39		
12-01-91	16:28:00	0.467	1501.06	6.52	262.18		
12-01-91	16:29:00	0.483	1507.26	6.21	262.00		
12-01-91	16:30:00	0.500	1512.89	5.63	261.84	856	CSG = 0 PSIG
12-01-91	16:31:00	0.517	1518.37	5.48	261.72		
12-01-91	16:32:00	0.533	1523.55	5.18	261.61		
12-01-91	16:33:00	0.550	1528.66	5.11	261.54		
12-01-91	16:34:00	0.567	1533.53	4.87	261.48		
12-01-91	16:35:00	0.583	1538.41	4.88	261.45		
12-01-91	16:36:00	0.600	1543.14	4.73	261.43		
12-01-91	16:37:00	0.617	1547.61	4.47	261.43		
12-01-91	16:38:00	0.633	1551.92	4.31	261.44		
12-01-91	16:39:00	0.650	1556.06	4.15	261.47		
12-01-91	16:40:00	0.667	1560.04	3.98	261.52		
12-01-91	16:41:00	0.683	1563.83	3.79	261.56		
12-01-91	16:42:00	0.700	1567.29	3.46	261.60		
12-01-91	16:43:00	0.717	1570.71	3.42	261.66		
12-01-91	16:44:00	0.733	1574.26	3.55	261.71		
12-01-91	16:45:00	0.750	1577.51	3.26	261.78		
12-01-91	16:46:00	0.767	1580.65	3.13	261.84		
12-01-91	16:47:00	0.783	1583.52	2.88	261.90		
12-01-91	16:48:00	0.800	1586.36	2.83	261.96		
12-01-91	16:49:00	0.817	1588.99	2.63	262.02		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	16:50:00	0.833	1591.56	2.57	262.08	887	CSG = 0 PSIG
12-01-91	16:51:00	0.850	1594.06	2.50	262.14		
12-01-91	16:52:00	0.867	1596.49	2.44	262.20		
12-01-91	16:53:00	0.883	1598.81	2.32	262.26		
12-01-91	16:54:00	0.900	1601.12	2.31	262.32		
12-01-91	16:55:00	0.917	1603.27	2.15	262.38		
12-01-91	16:56:00	0.933	1605.44	2.17	262.43		
12-01-91	16:57:00	0.950	1607.43	1.99	262.49		
12-01-91	16:58:00	0.967	1609.43	2.00	262.54		
12-01-91	16:59:00	0.983	1611.43	1.99	262.60		
12-01-91	17:00:00	1.000	1613.30	1.87	262.65		
12-01-91	17:01:00	1.017	1615.14	1.84	262.70		
12-01-91	17:02:00	1.033	1616.89	1.76	262.76		
12-01-91	17:03:00	1.050	1618.62	1.73	262.81		
12-01-91	17:04:00	1.067	1620.28	1.65	262.87		
12-01-91	17:05:00	1.083	1621.90	1.63	262.92		
12-01-91	17:06:00	1.100	1623.51	1.61	262.96		
12-01-91	17:07:00	1.117	1625.09	1.58	263.02		
12-01-91	17:08:00	1.133	1626.79	1.70	263.07		
12-01-91	17:09:00	1.150	1628.40	1.62	263.11		
12-01-91	17:10:00	1.167	1629.90	1.49	263.17		
12-01-91	17:11:00	1.183	1631.35	1.45	263.21		
12-01-91	17:12:00	1.200	1632.82	1.46	263.26		
12-01-91	17:13:00	1.217	1634.32	1.51	263.30		
12-01-91	17:14:00	1.233	1635.78	1.46	263.35		
12-01-91	17:15:00	1.250	1637.15	1.37	263.40		
12-01-91	17:16:00	1.267	1638.60	1.45	263.44		
12-01-91	17:17:00	1.283	1639.98	1.38	263.50		
12-01-91	17:18:00	1.300	1641.28	1.30	263.55		
12-01-91	17:19:00	1.317	1642.73	1.45	263.61		
12-01-91	17:20:00	1.333	1644.06	1.33	263.65		
12-01-91	17:21:00	1.350	1645.39	1.33	263.69		
12-01-91	17:22:00	1.367	1646.59	1.19	263.74		
12-01-91	17:23:00	1.383	1647.90	1.32	263.79		
12-01-91	17:24:00	1.400	1649.02	1.12	263.83		
12-01-91	17:25:00	1.417	1650.11	1.09	263.88		
12-01-91	17:26:00	1.433	1651.15	1.04	263.92		
12-01-91	17:27:00	1.450	1652.14	0.99	263.96		
12-01-91	17:28:00	1.467	1653.09	0.94	264.00		
12-01-91	17:29:00	1.483	1654.09	1.00	264.05	914	CSG = 0 PSIG
12-01-91	17:30:00	1.500	1655.00	0.91	264.08		
12-01-91	17:31:00	1.517	1656.00	1.00	264.12		
12-01-91	17:32:00	1.533	1656.97	0.97	264.15		
12-01-91	17:33:00	1.550	1657.93	0.96	264.19		
12-01-91	17:34:00	1.567	1658.90	0.97	264.22		
12-01-91	17:35:00	1.583	1659.97	1.07	264.26		
12-01-91	17:36:00	1.600	1660.91	0.94	264.31		
12-01-91	17:37:00	1.617	1661.85	0.94	264.33		
12-01-91	17:38:00	1.633	1662.88	1.03	264.37		
12-01-91	17:39:00	1.650	1663.73	0.85	264.39		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	17:40:00	1.667	1664.67	0.93	264.43		
12-01-91	17:41:00	1.683	1665.51	0.85	264.45		
12-01-91	17:42:00	1.700	1666.33	0.81	264.49		
12-01-91	17:43:00	1.717	1667.22	0.90	264.52		
12-01-91	17:44:00	1.733	1668.13	0.90	264.54		
12-01-91	17:45:00	1.750	1668.99	0.87	264.58		
12-01-91	17:46:00	1.767	1669.74	0.74	264.61		
12-01-91	17:47:00	1.783	1670.57	0.83	264.64		
12-01-91	17:48:00	1.800	1671.46	0.89	264.67		
12-01-91	17:49:00	1.817	1672.28	0.82	264.70		
12-01-91	17:50:00	1.833	1673.15	0.87	264.74		
12-01-91	17:51:00	1.850	1674.05	0.90	264.76		
12-01-91	17:52:00	1.867	1674.84	0.79	264.80		
12-01-91	17:53:00	1.883	1675.42	0.58	264.83		
12-01-91	17:54:00	1.900	1676.13	0.71	264.85		
12-01-91	17:55:00	1.917	1676.87	0.74	264.87		
12-01-91	17:56:00	1.933	1677.59	0.72	264.91		
12-01-91	17:57:00	1.950	1678.52	0.93	264.94		
12-01-91	17:58:00	1.967	1679.29	0.77	264.97		
12-01-91	17:59:00	1.983	1680.15	0.86	265.01		
12-01-91	18:00:00	2.000	1680.89	0.74	265.03	927	CSG = 0 PSIG
12-01-91	18:01:00	2.017	1681.74	0.85	265.07		
12-01-91	18:02:00	2.033	1682.44	0.71	265.10		
12-01-91	18:03:00	2.050	1683.00	0.56	265.13		
12-01-91	18:04:00	2.067	1683.95	0.94	265.15		
12-01-91	18:05:00	2.083	1684.52	0.58	265.18		
12-01-91	18:06:00	2.100	1685.10	0.57	265.21		
12-01-91	18:07:00	2.117	1685.88	0.78	265.24		
12-01-91	18:08:00	2.133	1686.61	0.73	265.27		
12-01-91	18:09:00	2.150	1687.32	0.71	265.28		
12-01-91	18:10:00	2.167	1687.72	0.40	265.30		
12-01-91	18:11:00	2.183	1688.48	0.77	265.32		
12-01-91	18:12:00	2.200	1689.12	0.63	265.34		
12-01-91	18:13:00	2.217	1689.82	0.71	265.36		
12-01-91	18:14:00	2.233	1690.45	0.62	265.39		
12-01-91	18:15:00	2.250	1691.34	0.89	265.41		
12-01-91	18:16:00	2.267	1691.79	0.46	265.43		
12-01-91	18:17:00	2.283	1692.46	0.66	265.45		
12-01-91	18:18:00	2.300	1693.05	0.59	265.48		
12-01-91	18:19:00	2.317	1693.57	0.52	265.50		
12-01-91	18:20:00	2.333	1694.31	0.74	265.52		
12-01-91	18:21:00	2.350	1694.70	0.39	265.54		
12-01-91	18:22:00	2.367	1695.22	0.52	265.56		
12-01-91	18:23:00	2.383	1695.83	0.61	265.58		
12-01-91	18:24:00	2.400	1696.53	0.70	265.60		
12-01-91	18:25:00	2.417	1696.99	0.46	265.62		
12-01-91	18:26:00	2.433	1697.62	0.63	265.64		
12-01-91	18:27:00	2.450	1698.06	0.45	265.66		
12-01-91	18:28:00	2.467	1698.64	0.58	265.68		
12-01-91	18:29:00	2.483	1699.17	0.53	265.71		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	18:30:00	2.500	1699.96	0.79	265.73		
12-01-91	18:31:00	2.517	1700.37	0.41	265.75		
12-01-91	18:32:00	2.533	1700.94	0.57	265.77		
12-01-91	18:33:00	2.550	1701.45	0.51	265.79		
12-01-91	18:34:00	2.567	1701.75	0.31	265.81		
12-01-91	18:35:00	2.583	1702.19	0.44	265.82		
12-01-91	18:36:00	2.600	1702.81	0.62	265.85		
12-01-91	18:37:00	2.617	1703.41	0.59	265.86		
12-01-91	18:38:00	2.633	1704.09	0.68	265.88		
12-01-91	18:39:00	2.650	1704.58	0.49	265.90		
12-01-91	18:40:00	2.667	1705.47	0.89	265.92		
12-01-91	18:41:00	2.683	1705.70	0.23	265.95		
12-01-91	18:42:00	2.700	1706.19	0.49	265.96		
12-01-91	18:43:00	2.717	1706.88	0.69	265.98		
12-01-91	18:44:00	2.733	1707.72	0.84	265.99		
12-01-91	18:45:00	2.750	1708.56	0.84	266.02		
12-01-91	18:46:00	2.767	1709.12	0.55	266.04		
12-01-91	18:47:00	2.783	1709.55	0.44	266.06		
12-01-91	18:48:00	2.800	1710.56	1.01	266.08		
12-01-91	18:49:00	2.817	1711.26	0.70	266.10		
12-01-91	18:50:00	2.833	1712.21	0.95	266.12		
12-01-91	18:51:00	2.850	1712.94	0.73	266.14		
12-01-91	18:52:00	2.867	1713.83	0.89	266.16		
12-01-91	18:53:00	2.883	1714.77	0.93	266.18		
12-01-91	18:54:00	2.900	1715.40	0.63	266.20		
12-01-91	18:55:00	2.917	1716.27	0.87	266.23		
12-01-91	18:56:00	2.933	1717.61	1.34	266.25		
12-01-91	18:57:00	2.950	1718.55	0.94	266.27		
12-01-91	18:58:00	2.967	1719.46	0.91	266.29		
12-01-91	18:59:00	2.983	1720.55	1.09	266.31		
12-01-91	19:00:00	3.000	1721.76	1.21	266.34	946	CSG = 0 PSIG
12-01-91	19:05:00	3.083	1724.54	2.78	266.45		
12-01-91	19:10:00	3.167	1728.28	3.74	266.56		
12-01-91	19:15:00	3.250	1729.84	1.56	266.66		
12-01-91	19:20:00	3.333	1735.52	5.68	266.77		
12-01-91	19:25:00	3.417	1735.17	-0.35	266.85		
12-01-91	19:30:00	3.500	1736.67	1.50	266.92		
12-01-91	19:35:00	3.583	1740.61	3.94	267.01		
12-01-91	19:40:00	3.667	1741.82	1.22	267.08		
12-01-91	19:45:00	3.750	1745.01	3.19	267.16		
12-01-91	19:50:00	3.833	1746.39	1.38	267.24		
12-01-91	19:55:00	3.917	1747.59	1.21	267.30		
12-01-91	20:00:00	4.000	1748.36	0.77	267.36	957	CSG = 3 PSIG
12-01-91	20:05:00	4.083	1749.51	1.15	267.42		
12-01-91	20:10:00	4.167	1751.59	2.08	267.46		
12-01-91	20:15:00	4.250	1752.56	0.98	267.52		
12-01-91	20:20:00	4.333	1754.15	1.59	267.57		
12-01-91	20:25:00	4.417	1756.95	2.80	267.65		
12-01-91	20:30:00	4.500	1756.52	-0.44	267.68		
12-01-91	20:35:00	4.583	1759.70	3.18	267.74		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 12-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
12-01-91	20:40:00	4.667	1758.61	-1.09	267.78		
12-01-91	20:45:00	4.750	1760.04	1.43	267.83		
12-01-91	20:50:00	4.833	1760.94	0.91	267.87		
12-01-91	20:55:00	4.917	1762.46	1.51	267.92		
12-01-91	21:00:00	5.000	1763.41	0.96	267.95	969	CSG = 3 PSIG
12-01-91	21:05:00	5.083	1764.68	1.26	268.00		
12-01-91	21:10:00	5.167	1765.96	1.28	268.05		
12-01-91	21:15:00	5.250	1766.43	0.47	268.09		
12-01-91	21:20:00	5.333	1767.26	0.83	268.13		
12-01-91	21:25:00	5.417	1768.66	1.40	268.16		
12-01-91	21:30:00	5.500	1769.46	0.80	268.20		
12-01-91	21:35:00	5.583	1770.09	0.64	268.24		
12-01-91	21:40:00	5.667	1771.05	0.95	268.28		
12-01-91	21:45:00	5.750	1772.57	1.53	268.31		
12-01-91	21:50:00	5.833	1773.01	0.43	268.35		
12-01-91	21:55:00	5.917	1774.45	1.45	268.39		
12-01-91	22:00:00	6.000	1774.27	-0.18	268.42	977	CSG = 5 PSIG
12-01-91	22:05:00	6.083	1774.91	0.64	268.45		
12-01-91	22:10:00	6.167	1775.51	0.60	268.48		
12-01-91	22:15:00	6.250	1776.19	0.68	268.51		
12-01-91	22:20:00	6.333	1776.89	0.71	268.53		
12-01-91	22:25:00	6.417	1777.71	0.81	268.56		
12-01-91	22:30:00	6.500	1778.43	0.73	268.59		
12-01-91	22:35:00	6.583	1779.37	0.94	268.62		
12-01-91	22:40:00	6.667	1779.99	0.62	268.65		
12-01-91	22:45:00	6.750	1780.65	0.66	268.68		
12-01-91	22:50:00	6.833	1781.16	0.51	268.71		
12-01-91	22:55:00	6.917	1782.02	0.86	268.73		
12-01-91	23:00:00	7.000	1782.68	0.66	268.77	984	CSG = 5 PSIG
12-01-91	23:05:00	7.083	1783.25	0.57	268.80		
12-01-91	23:10:00	7.167	1783.74	0.49	268.82		
12-01-91	23:15:00	7.250	1784.33	0.59	268.85		
12-01-91	23:20:00	7.333	1784.89	0.55	268.88		
12-01-91	23:25:00	7.417	1785.50	0.61	268.90		
12-01-91	23:30:00	7.500	1786.03	0.53	268.93		
12-01-91	23:35:00	7.583	1786.66	0.63	268.95		
12-01-91	23:40:00	7.667	1787.00	0.34	268.97		
12-01-91	23:45:00	7.750	1787.54	0.53	269.00		
12-01-91	23:50:00	7.833	1788.27	0.73	269.02		
12-01-91	23:55:00	7.917	1788.81	0.54	269.04		
13-01-91	00:00:00	8.000	1789.28	0.47	269.06	991	CSG = 7 PSIG
13-01-91	00:05:00	8.083	1789.66	0.38	269.09		
13-01-91	00:10:00	8.167	1790.02	0.36	269.11		
13-01-91	00:15:00	8.250	1790.40	0.38	269.13		
13-01-91	00:20:00	8.333	1790.96	0.56	269.15		
13-01-91	00:25:00	8.417	1791.39	0.43	269.17		
13-01-91	00:30:00	8.500	1791.74	0.35	269.19		
13-01-91	00:35:00	8.583	1792.18	0.44	269.21		
13-01-91	00:40:00	8.667	1792.69	0.52	269.23		
13-01-91	00:45:00	8.750	1793.21	0.52	269.25		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : 4th RATE. FLOW ON 42/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	00:50:00	8.833	1793.45	0.24	269.27	997	CSG = 8 PSIG
13-01-91	00:55:00	8.917	1793.85	0.40	269.29		
13-01-91	01:00:00	9.000	1794.27	0.42	269.31		
13-01-91	01:05:00	9.083	1794.63	0.37	269.33		
13-01-91	01:10:00	9.167	1795.13	0.50	269.36		
13-01-91	01:15:00	9.250	1795.50	0.37	269.38		
13-01-91	01:20:00	9.333	1795.93	0.43	269.39		
13-01-91	01:25:00	9.417	1796.27	0.33	269.41		
13-01-91	01:30:00	9.500	1796.80	0.54	269.42		
13-01-91	01:35:00	9.583	1797.08	0.28	269.44		
13-01-91	01:40:00	9.667	1797.56	0.48	269.45		
13-01-91	01:45:00	9.750	1797.80	0.24	269.47		
13-01-91	01:50:00	9.833	1798.15	0.35	269.49	1000	CSG = 7 PSIG
13-01-91	01:55:00	9.917	1798.54	0.38	269.51		
13-01-91	02:00:00	10.000	1798.82	0.29	269.52		
13-01-91	02:05:00	10.083	1799.21	0.39	269.53		
13-01-91	02:10:00	10.167	1799.52	0.31	269.56		
13-01-91	02:15:00	10.250	1799.81	0.29	269.58		
13-01-91	02:20:00	10.333	1800.18	0.37	269.60		
13-01-91	02:25:00	10.417	1800.53	0.35	269.61		
13-01-91	02:30:00	10.500	1800.79	0.26	269.63		
13-01-91	02:35:00	10.583	1801.09	0.31	269.64		
13-01-91	02:40:00	10.667	1801.36	0.27	269.65		
13-01-91	02:45:00	10.750	1801.76	0.40	269.67	1004	CSG = 9 PSIG
13-01-91	02:50:00	10.833	1802.13	0.37	269.68		
13-01-91	02:55:00	10.917	1802.40	0.27	269.69		
13-01-91	03:00:00	11.000	1802.67	0.27	269.72		
13-01-91	03:05:00	11.083	1802.98	0.31	269.72		
13-01-91	03:10:00	11.167	1803.24	0.26	269.74		
13-01-91	03:15:00	11.250	1803.57	0.33	269.76		
13-01-91	03:20:00	11.333	1803.98	0.41	269.77		
13-01-91	03:25:00	11.417	1804.30	0.31	269.79		
13-01-91	03:30:00	11.500	1804.50	0.21	269.80		
13-01-91	03:35:00	11.583	1804.74	0.24	269.82		
13-01-91	03:40:00	11.667	1804.93	0.19	269.83	1007	CSG = 10 PSIG END 4th RATE
13-01-91	03:45:00	11.750	1805.21	0.29	269.84		
13-01-91	03:50:00	11.833	1805.57	0.36	269.85		
13-01-91	03:55:00	11.917	1805.72	0.15	269.87		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD DATE: HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	04:00:00	0.000	1805.88	1805.88	269.88		START EXTENDED FLOW
13-01-91	04:01:00	0.017	1823.85	17.97	269.89		
13-01-91	04:02:00	0.033	1855.86	32.01	270.02		DELTA T FROM START
13-01-91	04:03:00	0.050	1876.08	20.22	270.21		EXTENDED FLOW
13-01-91	04:04:00	0.067	1888.12	12.05	270.36		
13-01-91	04:05:00	0.083	1895.09	6.96	270.45		DELTA P FROM
13-01-91	04:06:00	0.100	1899.48	4.39	270.53		PREVIOUS READING
13-01-91	04:07:00	0.117	1902.25	2.77	270.58		
13-01-91	04:08:00	0.133	1904.11	1.86	270.62		
13-01-91	04:09:00	0.150	1905.50	1.39	270.66		
13-01-91	04:10:00	0.167	1906.49	0.99	270.71		
13-01-91	04:11:00	0.183	1907.31	0.82	270.77		
13-01-91	04:12:00	0.200	1907.92	0.61	270.84		
13-01-91	04:13:00	0.217	1908.41	0.49	270.91		
13-01-91	04:14:00	0.233	1908.77	0.36	270.98		
13-01-91	04:15:00	0.250	1909.09	0.32	271.04		
13-01-91	04:16:00	0.267	1909.34	0.25	271.11		
13-01-91	04:17:00	0.283	1909.52	0.17	271.17		
13-01-91	04:18:00	0.300	1909.69	0.17	271.22		
13-01-91	04:19:00	0.317	1909.91	0.21	271.27		
13-01-91	04:20:00	0.333	1910.11	0.21	271.32		
13-01-91	04:21:00	0.350	1910.20	0.09	271.37		
13-01-91	04:22:00	0.367	1910.32	0.11	271.40		
13-01-91	04:23:00	0.383	1910.40	0.08	271.43		
13-01-91	04:24:00	0.400	1910.51	0.11	271.46		
13-01-91	04:25:00	0.417	1910.67	0.16	271.48		
13-01-91	04:26:00	0.433	1910.75	0.09	271.51		
13-01-91	04:27:00	0.450	1910.88	0.13	271.53		
13-01-91	04:28:00	0.467	1910.94	0.06	271.55		
13-01-91	04:29:00	0.483	1911.03	0.09	271.58		
13-01-91	04:30:00	0.500	1911.12	0.09	271.59	1249	CSG = 11 PSIG
13-01-91	04:31:00	0.517	1911.21	0.09	271.61		
13-01-91	04:32:00	0.533	1911.35	0.14	271.63		
13-01-91	04:33:00	0.550	1911.47	0.12	271.64		
13-01-91	04:34:00	0.567	1911.61	0.14	271.65		
13-01-91	04:35:00	0.583	1911.74	0.13	271.67		
13-01-91	04:36:00	0.600	1911.81	0.06	271.68		
13-01-91	04:37:00	0.617	1911.88	0.07	271.69		
13-01-91	04:38:00	0.633	1911.95	0.07	271.70		
13-01-91	04:39:00	0.650	1912.07	0.11	271.71		
13-01-91	04:40:00	0.667	1912.15	0.08	271.73		
13-01-91	04:41:00	0.683	1912.27	0.13	271.73		
13-01-91	04:42:00	0.700	1912.39	0.12	271.75		
13-01-91	04:43:00	0.717	1912.46	0.06	271.76		
13-01-91	04:44:00	0.733	1912.62	0.16	271.76		
13-01-91	04:45:00	0.750	1912.70	0.07	271.77		
13-01-91	04:46:00	0.767	1912.82	0.12	271.78		
13-01-91	04:47:00	0.783	1912.94	0.12	271.79		
13-01-91	04:48:00	0.800	1913.04	0.10	271.79		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	04:49:00	0.817	1913.11	0.07	271.80		
13-01-91	04:50:00	0.833	1913.16	0.05	271.81		
13-01-91	04:51:00	0.850	1913.30	0.14	271.81		
13-01-91	04:52:00	0.867	1913.38	0.08	271.82		
13-01-91	04:53:00	0.883	1913.48	0.09	271.83		
13-01-91	04:54:00	0.900	1913.52	0.04	271.83		
13-01-91	04:55:00	0.917	1913.64	0.12	271.84		
13-01-91	04:56:00	0.933	1913.73	0.09	271.84		
13-01-91	04:57:00	0.950	1913.86	0.13	271.85		
13-01-91	04:58:00	0.967	1913.95	0.09	271.86		
13-01-91	04:59:00	0.983	1913.97	0.02	271.87		
13-01-91	05:00:00	1.000	1914.02	0.05	271.87	1252	CSG = 11 PSIG
13-01-91	05:05:00	1.083	1914.45	0.43	271.89		
13-01-91	05:10:00	1.167	1914.80	0.36	271.92		5 MIN.SAMPLE RATE
13-01-91	05:15:00	1.250	1915.01	0.21	271.94		
13-01-91	05:20:00	1.333	1915.30	0.29	271.96		
13-01-91	05:25:00	1.417	1915.54	0.24	271.98		
13-01-91	05:30:00	1.500	1915.95	0.41	272.01	1253	CSG = 11 PSIG
13-01-91	05:35:00	1.583	1916.18	0.24	272.02		
13-01-91	05:40:00	1.667	1916.46	0.27	272.04		
13-01-91	05:45:00	1.750	1916.55	0.09	272.05		
13-01-91	05:50:00	1.833	1917.02	0.47	272.07		
13-01-91	05:55:00	1.917	1917.47	0.45	272.09		
13-01-91	06:00:00	2.000	1917.60	0.13	272.10	1253	CSG = 11 PSIG
13-01-91	06:05:00	2.083	1918.02	0.42	272.12		
13-01-91	06:10:00	2.167	1918.14	0.12	272.13		
13-01-91	06:15:00	2.250	1918.55	0.41	272.15		
13-01-91	06:20:00	2.333	1918.67	0.12	272.16		
13-01-91	06:25:00	2.417	1919.00	0.33	272.18		
13-01-91	06:30:00	2.500	1919.31	0.31	272.19		
13-01-91	06:35:00	2.583	1919.59	0.28	272.20		
13-01-91	06:40:00	2.667	1919.73	0.14	272.21		
13-01-91	06:45:00	2.750	1919.91	0.18	272.23		
13-01-91	06:50:00	2.833	1920.26	0.35	272.25		
13-01-91	06:55:00	2.917	1920.55	0.29	272.26		
13-01-91	07:00:00	3.000	1920.55	0.01	272.27	1255	CSG = 11 PSIG
13-01-91	07:05:00	3.083	1920.89	0.33	272.28		
13-01-91	07:10:00	3.167	1920.90	0.02	272.29		
13-01-91	07:15:00	3.250	1921.18	0.28	272.30		
13-01-91	07:20:00	3.333	1921.30	0.12	272.31		
13-01-91	07:25:00	3.417	1921.56	0.26	272.33		
13-01-91	07:30:00	3.500	1921.72	0.16	272.33		
13-01-91	07:35:00	3.583	1921.95	0.23	272.34		
13-01-91	07:40:00	3.667	1921.81	-0.14	272.36		
13-01-91	07:45:00	3.750	1922.22	0.41	272.37		
13-01-91	07:50:00	3.833	1922.40	0.17	272.37		
13-01-91	07:55:00	3.917	1922.49	0.09	272.39		
13-01-91	08:00:00	4.000	1922.55	0.06	272.40	1255	CSG = 11 PSIG
13-01-91	08:05:00	4.083	1922.90	0.35	272.40		
13-01-91	08:10:00	4.167	1923.00	0.10	272.41		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	08:15:00	4.250	1922.99	-0.02	272.43		
13-01-91	08:20:00	4.333	1923.30	0.32	272.44		
13-01-91	08:25:00	4.417	1923.16	-0.14	272.45		
13-01-91	08:30:00	4.500	1923.44	0.28	272.45		
13-01-91	08:35:00	4.583	1923.70	0.26	272.46		
13-01-91	08:40:00	4.667	1923.62	-0.08	272.47		
13-01-91	08:45:00	4.750	1924.20	0.58	272.48		
13-01-91	08:50:00	4.833	1924.19	-0.00	272.49		
13-01-91	08:55:00	4.917	1924.62	0.43	272.51		
13-01-91	09:00:00	5.000	1924.96	0.33	272.52	1259	CSG = 12 PSIG
13-01-91	09:05:00	5.083	1924.90	-0.06	272.52		
13-01-91	09:10:00	5.167	1925.41	0.51	272.54		
13-01-91	09:15:00	5.250	1925.57	0.16	272.54		
13-01-91	09:20:00	5.333	1925.65	0.07	272.55		
13-01-91	09:25:00	5.417	1925.69	0.04	272.57		
13-01-91	09:30:00	5.500	1925.89	0.20	272.57		
13-01-91	09:35:00	5.583	1926.16	0.27	272.58		
13-01-91	09:40:00	5.667	1926.23	0.07	272.59		
13-01-91	09:45:00	5.750	1926.33	0.10	272.60		
13-01-91	09:50:00	5.833	1926.35	0.02	272.61		
13-01-91	09:55:00	5.917	1926.67	0.31	272.62		
13-01-91	10:00:00	6.000	1926.95	0.28	272.63	1261	CSG = 13 PSIG
13-01-91	10:05:00	6.083	1926.97	0.03	272.64		
13-01-91	10:10:00	6.167	1927.10	0.13	272.65		
13-01-91	10:15:00	6.250	1927.22	0.12	272.65		
13-01-91	10:20:00	6.333	1927.41	0.19	272.67		
13-01-91	10:25:00	6.417	1927.75	0.35	272.67		
13-01-91	10:30:00	6.500	1927.66	-0.09	272.68		
13-01-91	10:35:00	6.583	1928.25	0.59	272.69		
13-01-91	10:40:00	6.667	1928.41	0.16	272.70		
13-01-91	10:45:00	6.750	1928.56	0.14	272.70		
13-01-91	10:50:00	6.833	1928.93	0.37	272.72		
13-01-91	10:55:00	6.917	1929.04	0.11	272.72		
13-01-91	11:00:00	7.000	1929.26	0.23	272.74	1262	CSG = 14 PSIG
13-01-91	11:05:00	7.083	1929.21	-0.05	272.74		
13-01-91	11:10:00	7.167	1929.37	0.15	272.75		
13-01-91	11:15:00	7.250	1929.48	0.11	272.76		
13-01-91	11:20:00	7.333	1929.69	0.21	272.76		
13-01-91	11:25:00	7.417	1929.71	0.03	272.77		
13-01-91	11:30:00	7.500	1929.88	0.17	272.79		
13-01-91	11:35:00	7.583	1929.91	0.03	272.79		
13-01-91	11:40:00	7.667	1930.10	0.19	272.80		
13-01-91	11:45:00	7.750	1930.35	0.25	272.81		
13-01-91	11:50:00	7.833	1930.55	0.20	272.82		
13-01-91	11:55:00	7.917	1930.74	0.18	272.82		
13-01-91	12:00:00	8.000	1930.75	0.01	272.83	1264	CSG = 15 PSIG
13-01-91	12:05:00	8.083	1930.92	0.17	272.84		
13-01-91	12:10:00	8.167	1931.21	0.29	272.84		
13-01-91	12:15:00	8.250	1931.33	0.12	272.85		
13-01-91	12:20:00	8.333	1931.46	0.12	272.86		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	12:25:00	8.417	1931.76	0.31	272.87		
13-01-91	12:30:00	8.500	1931.75	-0.01	272.88		
13-01-91	12:35:00	8.583	1931.83	0.08	272.89		
13-01-91	12:40:00	8.667	1932.30	0.46	272.90		
13-01-91	12:45:00	8.750	1932.42	0.12	272.91		
13-01-91	12:50:00	8.833	1932.50	0.08	272.91		
13-01-91	12:55:00	8.917	1932.70	0.21	272.92		
13-01-91	13:00:00	9.000	1932.98	0.28	272.93	1265	CSG = 15 PSIG
13-01-91	13:05:00	9.083	1933.22	0.24	272.93		
13-01-91	13:10:00	9.167	1933.26	0.04	272.94		
13-01-91	13:15:00	9.250	1933.59	0.33	272.95		
13-01-91	13:20:00	9.333	1933.63	0.04	272.96		
13-01-91	13:25:00	9.417	1933.86	0.23	272.96		
13-01-91	13:30:00	9.500	1934.34	0.48	272.98		
13-01-91	13:35:00	9.583	1934.27	-0.07	272.98		
13-01-91	13:40:00	9.667	1934.50	0.23	272.99		
13-01-91	13:45:00	9.750	1934.78	0.28	273.00		
13-01-91	13:50:00	9.833	1934.69	-0.09	273.01		
13-01-91	13:55:00	9.917	1934.64	-0.05	273.02		
13-01-91	14:00:00	10.000	1935.22	0.59	273.03	1267	CSG = 15 PSIG
13-01-91	14:05:00	10.083	1935.14	-0.09	273.03		
13-01-91	14:10:00	10.167	1935.20	0.07	273.04		
13-01-91	14:15:00	10.250	1935.18	-0.02	273.04		
13-01-91	14:20:00	10.333	1935.28	0.09	273.05		
13-01-91	14:25:00	10.417	1935.24	-0.04	273.05		
13-01-91	14:30:00	10.500	1935.49	0.26	273.06		
13-01-91	14:35:00	10.583	1935.56	0.07	273.07		
13-01-91	14:40:00	10.667	1935.81	0.25	273.08		
13-01-91	14:45:00	10.750	1935.94	0.13	273.08		
13-01-91	14:50:00	10.833	1936.18	0.24	273.08		
13-01-91	14:55:00	10.917	1936.24	0.05	273.10		
13-01-91	15:00:00	11.000	1936.37	0.13	273.11	1269	CSG = 15 PSIG
13-01-91	15:05:00	11.083	1936.43	0.06	273.11		
13-01-91	15:10:00	11.167	1936.73	0.31	273.12		
13-01-91	15:15:00	11.250	1936.78	0.05	273.12		
13-01-91	15:20:00	11.333	1936.76	-0.02	273.13		
13-01-91	15:25:00	11.417	1936.85	0.09	273.14		
13-01-91	15:30:00	11.500	1937.02	0.17	273.15		
13-01-91	15:35:00	11.583	1937.01	-0.01	273.15		
13-01-91	15:40:00	11.667	1937.00	-0.01	273.15		
13-01-91	15:45:00	11.750	1937.08	0.08	273.17		
13-01-91	15:50:00	11.833	1937.36	0.28	273.17		
13-01-91	15:55:00	11.917	1937.54	0.17	273.17		
13-01-91	16:00:00	12.000	1937.61	0.07	273.18	1271	CSG = 16 PSIG
13-01-91	16:05:00	12.083	1937.67	0.06	273.19		
13-01-91	16:10:00	12.167	1937.67	-0.00	273.19		
13-01-91	16:15:00	12.250	1937.82	0.15	273.20		
13-01-91	16:20:00	12.333	1937.85	0.03	273.20		
13-01-91	16:25:00	12.417	1937.66	-0.19	273.21		
13-01-91	16:30:00	12.500	1937.76	0.10	273.22		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	16:35:00	12.583	1937.67	-0.10	273.22	1271	CSG = 16 PSIG
13-01-91	16:40:00	12.667	1938.05	0.39	273.23		
13-01-91	16:45:00	12.750	1938.23	0.18	273.24		
13-01-91	16:50:00	12.833	1938.00	-0.23	273.23		
13-01-91	16:55:00	12.917	1938.25	0.25	273.25		
13-01-91	17:00:00	13.000	1938.38	0.14	273.25		
13-01-91	17:05:00	13.083	1938.26	-0.12	273.25		
13-01-91	17:10:00	13.167	1938.63	0.37	273.26		
13-01-91	17:15:00	13.250	1938.56	-0.07	273.27		
13-01-91	17:20:00	13.333	1938.44	-0.12	273.27		
13-01-91	17:25:00	13.417	1938.71	0.27	273.27		
13-01-91	17:30:00	13.500	1938.65	-0.06	273.29		
13-01-91	17:40:00	13.667	1939.13	0.48	273.29		
13-01-91	17:45:00	13.750	1939.18	0.05	273.30		
13-01-91	17:50:00	13.833	1939.11	-0.07	273.30	1272	CSG = 16 PSIG
13-01-91	17:55:00	13.917	1939.22	0.11	273.31		
13-01-91	18:00:00	14.000	1939.46	0.24	273.32		
13-01-91	18:05:00	14.083	1939.43	-0.03	273.32		
13-01-91	18:10:00	14.167	1939.23	-0.20	273.32		
13-01-91	18:15:00	14.250	1939.65	0.42	273.33		
13-01-91	18:20:00	14.333	1939.40	-0.25	273.33		
13-01-91	18:25:00	14.417	1939.77	0.37	273.34		
13-01-91	18:30:00	14.500	1939.77	-0.01	273.34		
13-01-91	18:35:00	14.583	1939.79	0.02	273.35		
13-01-91	18:40:00	14.667	1939.86	0.07	273.36		
13-01-91	18:45:00	14.750	1939.74	-0.12	273.36		
13-01-91	18:50:00	14.833	1939.73	-0.01	273.36		
13-01-91	18:55:00	14.917	1939.93	0.20	273.37	1272	CSG = 17 PSIG
13-01-91	19:00:00	15.000	1939.97	0.05	273.38		
13-01-91	19:05:00	15.083	1939.97	-0.00	273.38		
13-01-91	19:10:00	15.167	1940.13	0.15	273.38		
13-01-91	19:15:00	15.250	1940.10	-0.03	273.39		
13-01-91	19:20:00	15.333	1939.94	-0.16	273.39		
13-01-91	19:25:00	15.417	1940.19	0.25	273.39		
13-01-91	19:30:00	15.500	1940.05	-0.15	273.39		
13-01-91	19:35:00	15.583	1940.10	0.06	273.40		
13-01-91	19:40:00	15.667	1940.47	0.37	273.41		
13-01-91	19:45:00	15.750	1940.83	0.36	273.42		
13-01-91	19:50:00	15.833	1940.68	-0.16	273.42		
13-01-91	19:55:00	15.917	1940.84	0.16	273.42	1272	CSG = 17 PSIG
13-01-91	20:00:00	16.000	1941.09	0.25	273.44		
13-01-91	20:05:00	16.083	1941.07	-0.02	273.44		
13-01-91	20:10:00	16.167	1941.19	0.12	273.44		
13-01-91	20:15:00	16.250	1941.17	-0.02	273.44		
13-01-91	20:20:00	16.333	1941.00	-0.17	273.46		
13-01-91	20:25:00	16.417	1941.00	-0.00	273.46		
13-01-91	20:30:00	16.500	1941.24	0.24	273.46		
13-01-91	20:35:00	16.583	1941.29	0.04	273.47		
13-01-91	20:40:00	16.667	1941.13	-0.16	273.48		
13-01-91	20:45:00	16.750	1941.18	0.05	273.48		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 13-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
13-01-91	20:50:00	16.833	1941.47	0.29	273.48		
13-01-91	20:55:00	16.917	1941.23	-0.23	273.48		
13-01-91	21:00:00	17.000	1941.41	0.17	273.49	1273	CSG = 18 PSIG
13-01-91	21:05:00	17.083	1941.49	0.08	273.49		
13-01-91	21:10:00	17.167	1941.38	-0.10	273.50		
13-01-91	21:15:00	17.250	1941.67	0.29	273.50		
13-01-91	21:20:00	17.333	1941.51	-0.17	273.50		
13-01-91	21:25:00	17.417	1941.55	0.04	273.51		
13-01-91	21:30:00	17.500	1942.06	0.51	273.52		
13-01-91	21:35:00	17.583	1942.10	0.05	273.52		
13-01-91	21:40:00	17.667	1942.06	-0.04	273.53		
13-01-91	21:45:00	17.750	1942.14	0.07	273.54		
13-01-91	21:50:00	17.833	1941.82	-0.32	273.53		
13-01-91	21:55:00	17.917	1942.08	0.26	273.54		
13-01-91	22:00:00	18.000	1942.15	0.08	273.54	1273	CSG = 18 PSIG
13-01-91	22:05:00	18.083	1941.97	-0.19	273.55		
13-01-91	22:10:00	18.167	1942.21	0.24	273.55		
13-01-91	22:15:00	18.250	1942.05	-0.16	273.56		
13-01-91	22:20:00	18.333	1942.19	0.14	273.56		
13-01-91	22:25:00	18.417	1942.11	-0.09	273.56		
13-01-91	22:30:00	18.500	1942.47	0.36	273.56		
13-01-91	22:35:00	18.583	1942.27	-0.20	273.57		
13-01-91	22:40:00	18.667	1942.28	0.01	273.57		
13-01-91	22:45:00	18.750	1942.44	0.16	273.58		
13-01-91	22:50:00	18.833	1942.36	-0.08	273.58		
13-01-91	22:55:00	18.917	1942.70	0.34	273.58		
13-01-91	23:00:00	19.000	1942.47	-0.23	273.59	1272	CSG = 18 PSIG
13-01-91	23:05:00	19.083	1942.63	0.15	273.60		
13-01-91	23:10:00	19.167	1942.59	-0.04	273.60		
13-01-91	23:15:00	19.250	1942.54	-0.05	273.61		
13-01-91	23:20:00	19.333	1942.59	0.05	273.61		
13-01-91	23:25:00	19.417	1942.49	-0.10	273.61		
13-01-91	23:30:00	19.500	1942.63	0.14	273.62		
13-01-91	23:35:00	19.583	1942.88	0.25	273.62		
13-01-91	23:40:00	19.667	1942.95	0.06	273.63		
13-01-91	23:45:00	19.750	1942.86	-0.09	273.64		
13-01-91	23:50:00	19.833	1942.98	0.13	273.63		
13-01-91	23:55:00	19.917	1943.03	0.04	273.64		
14-01-91	00:00:00	20.000	1942.98	-0.05	273.65	1273	CSG = 19 PSIG
14-01-91	00:05:00	20.083	1943.00	0.02	273.64		
14-01-91	00:10:00	20.167	1943.12	0.12	273.65		
14-01-91	00:15:00	20.250	1943.11	-0.01	273.65		
14-01-91	00:20:00	20.333	1942.91	-0.20	273.65		
14-01-91	00:25:00	20.417	1942.98	0.07	273.66		
14-01-91	00:30:00	20.500	1943.05	0.07	273.67		
14-01-91	00:35:00	20.583	1943.21	0.16	273.67		
14-01-91	00:40:00	20.667	1943.19	-0.02	273.67		
14-01-91	00:45:00	20.750	1943.27	0.07	273.68		
14-01-91	00:50:00	20.833	1943.27	-0.00	273.68		
14-01-91	00:55:00	20.917	1943.06	-0.20	273.68		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : EXTENDED FLOW - 34/64th CHOKE

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	01:00:00	21.000	1943.18	0.11	273.69	1274	CSG = 19 PSIG
14-01-91	01:05:00	21.083	1943.28	0.10	273.70		
14-01-91	01:10:00	21.167	1943.25	-0.03	273.69		
14-01-91	01:15:00	21.250	1943.39	0.13	273.69		
14-01-91	01:20:00	21.333	1943.39	-0.00	273.70		
14-01-91	01:25:00	21.417	1943.36	-0.03	273.70		
14-01-91	01:30:00	21.500	1943.52	0.16	273.70		
14-01-91	01:35:00	21.583	1943.43	-0.09	273.71		
14-01-91	01:40:00	21.667	1943.29	-0.14	273.72		
14-01-91	01:45:00	21.750	1943.35	0.06	273.71		
14-01-91	01:50:00	21.833	1943.55	0.20	273.72		
14-01-91	01:55:00	21.917	1943.53	-0.02	273.72		
14-01-91	02:00:00	22.000	1943.63	0.09	273.73	1274	CSG = 20 PSIG
14-01-91	02:05:00	22.083	1943.51	-0.11	273.72		
14-01-91	02:10:00	22.167	1943.84	0.33	273.73		
14-01-91	02:15:00	22.250	1943.84	0.00	273.73		
14-01-91	02:20:00	22.333	1943.89	0.05	273.74		
14-01-91	02:25:00	22.417	1943.75	-0.15	273.75		
14-01-91	02:30:00	22.500	1943.99	0.24	273.75		
14-01-91	02:35:00	22.583	1943.98	-0.01	273.75		
14-01-91	02:40:00	22.667	1944.13	0.16	273.75		
14-01-91	02:45:00	22.750	1944.13	-0.00	273.76		
14-01-91	02:50:00	22.833	1944.10	-0.03	273.76		
14-01-91	02:55:00	22.917	1944.05	-0.05	273.77		
14-01-91	03:00:00	23.000	1944.28	0.23	273.77	1275	CSG = 20 PSIG
14-01-91	03:05:00	23.083	1944.05	-0.23	273.77		
14-01-91	03:10:00	23.167	1943.98	-0.07	273.77		
14-01-91	03:15:00	23.250	1944.24	0.26	273.78		
14-01-91	03:20:00	23.333	1944.32	0.08	273.79		
14-01-91	03:25:00	23.417	1944.42	0.10	273.80		
14-01-91	03:30:00	23.500	1944.40	-0.02	273.79		
14-01-91	03:35:00	23.583	1944.53	0.13	273.80		
14-01-91	03:40:00	23.667	1944.40	-0.13	273.80		
14-01-91	03:45:00	23.750	1944.62	0.21	273.80		
14-01-91	03:50:00	23.833	1944.63	0.01	273.81		
14-01-91	03:55:00	23.917	1944.69	0.07	273.81	1276	CSG = 20 PSIG END OF EXT.FLOW

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	04:00:00	0.000	1944.47	-0.00	273.81		SHUT IN WELL
14-01-91	04:00:10	0.003	1944.47	-0.00	273.82		
14-01-91	04:00:20	0.006	1944.79	0.32	273.82		DELTA T FROM S.I.
14-01-91	04:00:30	0.008	1959.92	15.45	273.82		
14-01-91	04:00:40	0.011	1989.60	45.13	273.82		DELTA P FROM S.I.
14-01-91	04:00:50	0.014	2024.59	80.12	273.82		
14-01-91	04:01:00	0.017	2058.89	114.42	273.82		10 SEC.SAMPLE RATE
14-01-91	04:01:10	0.019	2090.88	146.41	273.82		
14-01-91	04:01:20	0.022	2120.56	176.09	273.82		
14-01-91	04:01:30	0.025	2144.53	200.06	273.82		
14-01-91	04:01:40	0.028	2168.13	223.66	273.82		
14-01-91	04:01:50	0.031	2188.91	244.44	273.82		
14-01-91	04:02:00	0.033	2208.76	264.29	273.82		
14-01-91	04:02:10	0.036	2224.30	279.83	273.82		
14-01-91	04:02:20	0.039	2237.78	293.31	273.82		
14-01-91	04:02:30	0.042	2249.42	304.95	273.82		
14-01-91	04:02:40	0.044	2259.44	314.97	273.82		
14-01-91	04:02:50	0.047	2267.30	322.83	273.82		
14-01-91	04:03:00	0.050	2274.86	330.39	273.82		
14-01-91	04:03:10	0.053	2281.36	336.89	273.82		
14-01-91	04:03:20	0.056	2287.53	343.06	273.82		
14-01-91	04:03:30	0.058	2291.83	347.36	273.82		
14-01-91	04:03:40	0.061	2295.99	351.52	273.82		
14-01-91	04:03:50	0.064	2299.92	355.45	273.82		
14-01-91	04:04:00	0.067	2303.01	358.54	273.82		
14-01-91	04:04:10	0.069	2305.66	361.19	273.82		
14-01-91	04:04:20	0.072	2308.01	363.54	273.82		
14-01-91	04:04:30	0.075	2309.89	365.42	273.82		
14-01-91	04:04:40	0.078	2311.76	367.29	273.82		
14-01-91	04:04:50	0.081	2313.46	368.99	273.82		
14-01-91	04:05:00	0.083	2314.97	370.50	273.82		30 SEC.SAMPLE RATE
14-01-91	04:05:30	0.092	2318.65	374.18	276.80		
14-01-91	04:06:00	0.100	2321.99	377.52	276.87		
14-01-91	04:06:30	0.108	2325.43	380.96	276.91		
14-01-91	04:07:00	0.117	2328.88	384.41	276.93		
14-01-91	04:07:30	0.125	2332.35	387.88	276.94		
14-01-91	04:08:00	0.133	2335.96	391.49	276.94		
14-01-91	04:08:30	0.142	2339.46	394.99	276.93		
14-01-91	04:09:00	0.150	2343.00	398.53	276.93		
14-01-91	04:09:30	0.158	2346.37	401.90	276.92		
14-01-91	04:10:00	0.167	2349.78	405.31	276.91		
14-01-91	04:10:30	0.175	2353.17	408.70	276.90		
14-01-91	04:11:00	0.183	2356.35	411.88	276.89		
14-01-91	04:11:30	0.192	2359.63	415.16	276.88		
14-01-91	04:12:00	0.200	2362.67	418.20	276.87		
14-01-91	04:12:30	0.208	2365.74	421.27	276.87		
14-01-91	04:13:00	0.217	2368.82	424.35	276.87		
14-01-91	04:13:30	0.225	2371.75	427.28	276.86		
14-01-91	04:14:00	0.233	2374.60	430.13	276.85		
14-01-91	04:14:30	0.242	2377.38	432.91	276.85		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	04:15:00	0.250	2380.10	435.63	276.84	1989	CSG = 15 PSIG
14-01-91	04:15:30	0.258	2382.83	438.36	276.83		
14-01-91	04:16:00	0.267	2385.42	440.95	276.83		
14-01-91	04:16:30	0.275	2387.90	443.43	276.82		
14-01-91	04:17:00	0.283	2390.38	445.91	276.81		
14-01-91	04:17:30	0.292	2392.73	448.26	276.81		
14-01-91	04:18:00	0.300	2395.21	450.74	276.80		
14-01-91	04:18:30	0.308	2397.58	453.11	276.79		
14-01-91	04:19:00	0.317	2399.83	455.36	276.79		
14-01-91	04:19:30	0.325	2402.08	457.61	276.77		
14-01-91	04:20:00	0.333	2404.26	459.79	276.76		
14-01-91	04:20:30	0.342	2406.44	461.97	276.76		
14-01-91	04:21:00	0.350	2408.53	464.06	276.75		
14-01-91	04:21:30	0.358	2410.61	466.14	276.73		
14-01-91	04:22:00	0.367	2412.56	468.09	276.72		
14-01-91	04:22:30	0.375	2414.53	470.06	276.71		
14-01-91	04:23:00	0.383	2416.48	472.01	276.69		
14-01-91	04:23:30	0.392	2418.29	473.82	276.68		
14-01-91	04:24:00	0.400	2420.13	475.66	276.67		
14-01-91	04:24:30	0.408	2421.88	477.41	276.65		
14-01-91	04:25:00	0.417	2423.61	479.14	276.63		
14-01-91	04:25:30	0.425	2425.29	480.82	276.61		
14-01-91	04:26:00	0.433	2426.77	482.30	276.59		
14-01-91	04:26:30	0.442	2428.13	483.66	276.57		
14-01-91	04:27:00	0.450	2429.31	484.84	276.54		
14-01-91	04:27:30	0.458	2430.37	485.90	276.52		
14-01-91	04:28:00	0.467	2431.25	486.78	276.50		
14-01-91	04:28:30	0.475	2431.93	487.46	276.48		
14-01-91	04:29:00	0.483	2432.57	488.10	276.46		
14-01-91	04:29:30	0.492	2433.07	488.60	276.43		
14-01-91	04:30:00	0.500	2433.53	489.06	276.40	2030	CSG = 13 PSIG
14-01-91	04:31:00	0.517	2434.09	489.62	276.35		1 MIN. SAMPLE RATE
14-01-91	04:32:00	0.533	2434.37	489.90	276.29		
14-01-91	04:33:00	0.550	2434.60	490.13	276.23		
14-01-91	04:34:00	0.567	2434.71	490.24	276.17		
14-01-91	04:35:00	0.583	2434.55	490.08	276.10		
14-01-91	04:36:00	0.600	2434.38	489.91	276.05		
14-01-91	04:37:00	0.617	2434.12	489.65	275.99		
14-01-91	04:38:00	0.633	2433.87	489.40	275.94		
14-01-91	04:39:00	0.650	2433.56	489.09	275.88		
14-01-91	04:40:00	0.667	2433.31	488.84	275.83		
14-01-91	04:41:00	0.683	2433.09	488.62	275.78		2027 CSG = 11 PSIG
14-01-91	04:42:00	0.700	2432.90	488.43	275.73		
14-01-91	04:43:00	0.717	2432.78	488.31	275.69		
14-01-91	04:44:00	0.733	2432.66	488.19	275.65		
14-01-91	04:45:00	0.750	2432.61	488.14	275.60		
14-01-91	04:46:00	0.767	2432.65	488.18	275.57		
14-01-91	04:47:00	0.783	2432.68	488.21	275.54		
14-01-91	04:48:00	0.800	2432.77	488.30	275.51		
14-01-91	04:49:00	0.817	2432.98	488.51	275.47		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	04:50:00	0.833	2433.17	488.70	275.45		
14-01-91	04:51:00	0.850	2433.45	488.98	275.42		
14-01-91	04:52:00	0.867	2433.76	489.29	275.40		
14-01-91	04:53:00	0.883	2434.09	489.62	275.37		
14-01-91	04:54:00	0.900	2434.47	490.00	275.34		
14-01-91	04:55:00	0.917	2434.92	490.45	275.32		
14-01-91	04:56:00	0.933	2435.37	490.90	275.30		
14-01-91	04:57:00	0.950	2435.86	491.39	275.28		
14-01-91	04:58:00	0.967	2436.28	491.81	275.27		
14-01-91	04:59:00	0.983	2436.78	492.31	275.25		
14-01-91	05:00:00	1.000	2437.21	492.74	275.23	2029	CSG = 8 PSIG
14-01-91	05:01:00	1.017	2437.63	493.16	275.22		
14-01-91	05:02:00	1.033	2438.04	493.57	275.21		
14-01-91	05:03:00	1.050	2438.52	494.05	275.19		
14-01-91	05:04:00	1.067	2438.90	494.43	275.18		
14-01-91	05:05:00	1.083	2439.28	494.81	275.17		
14-01-91	05:06:00	1.100	2439.69	495.22	275.15		
14-01-91	05:07:00	1.117	2440.11	495.64	275.14		
14-01-91	05:08:00	1.133	2440.45	495.98	275.12		
14-01-91	05:09:00	1.150	2440.82	496.35	275.11		
14-01-91	05:10:00	1.167	2441.19	496.72	275.10		
14-01-91	05:11:00	1.183	2441.55	497.08	275.09		
14-01-91	05:12:00	1.200	2441.84	497.37	275.08		
14-01-91	05:13:00	1.217	2442.10	497.63	275.07		
14-01-91	05:14:00	1.233	2442.43	497.96	275.06		
14-01-91	05:15:00	1.250	2442.71	498.24	275.05	2033	CSG = 7 PSIG
14-01-91	05:16:00	1.267	2442.99	498.52	275.03		
14-01-91	05:17:00	1.283	2443.22	498.75	275.03		
14-01-91	05:18:00	1.300	2443.49	499.02	275.02		
14-01-91	05:19:00	1.317	2443.69	499.22	275.00		
14-01-91	05:20:00	1.333	2443.87	499.40	274.99		
14-01-91	05:21:00	1.350	2444.05	499.58	274.98		
14-01-91	05:22:00	1.367	2444.19	499.72	274.98		
14-01-91	05:23:00	1.383	2444.34	499.87	274.96		
14-01-91	05:24:00	1.400	2444.51	500.04	274.96		
14-01-91	05:25:00	1.417	2444.71	500.24	274.94		
14-01-91	05:26:00	1.433	2444.83	500.36	274.94		
14-01-91	05:27:00	1.450	2444.99	500.52	274.92		
14-01-91	05:28:00	1.467	2445.15	500.68	274.92		
14-01-91	05:29:00	1.483	2445.30	500.83	274.91		
14-01-91	05:30:00	1.500	2445.42	500.95	274.90	2035	CSG = 7 PSIG
14-01-91	05:35:00	1.583	2446.34	501.87	274.86		
14-01-91	05:40:00	1.667	2447.24	502.77	274.82		5 MIN. SAMPLE RATE
14-01-91	05:45:00	1.750	2448.18	503.71	274.80	2035	CSG = 5 PSIG
14-01-91	05:50:00	1.833	2449.10	504.63	274.78		
14-01-91	05:55:00	1.917	2449.97	505.50	274.77		
14-01-91	06:00:00	2.000	2450.89	506.42	274.74	2037	CSG = 5 PSIG
14-01-91	06:05:00	2.083	2501.11	556.64	274.73		
14-01-91	06:10:00	2.167	2452.56	508.09	274.71		
14-01-91	06:15:00	2.250	2453.34	508.87	274.70		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	06:20:00	2.333	2454.14	509.67	274.68		
14-01-91	06:25:00	2.417	2454.88	510.41	274.68		
14-01-91	06:30:00	2.500	2455.60	511.13	274.67		
14-01-91	06:35:00	2.583	2456.38	511.91	274.66		
14-01-91	06:40:00	2.667	2457.05	512.58	274.65		
14-01-91	06:45:00	2.750	2457.78	513.31	274.64		
14-01-91	06:50:00	2.833	2458.46	513.99	274.64		
14-01-91	06:55:00	2.917	2459.10	514.63	274.64		
14-01-91	07:00:00	3.000	2459.78	515.31	274.63	2040	CSG = 3 PSIG
14-01-91	07:05:00	3.083	2460.38	515.91	274.62		
14-01-91	07:10:00	3.167	2461.07	516.60	274.61		
14-01-91	07:15:00	3.250	2461.64	517.17	274.61		
14-01-91	07:20:00	3.333	2462.27	517.80	274.60		
14-01-91	07:25:00	3.417	2462.86	518.39	274.60		
14-01-91	07:30:00	3.500	2463.47	519.00	274.60		
14-01-91	07:35:00	3.583	2464.02	519.55	274.59		
14-01-91	07:40:00	3.667	2464.55	520.08	274.59		
14-01-91	07:45:00	3.750	2465.15	520.68	274.58		
14-01-91	07:50:00	3.833	2465.65	521.18	274.58		
14-01-91	07:55:00	3.917	2466.23	521.76	274.58		
14-01-91	08:00:00	4.000	2466.72	522.25	274.57	2045	CSG = 2 PSIG
14-01-91	08:05:00	4.083	2467.26	522.79	274.57		
14-01-91	08:10:00	4.167	2467.78	523.31	274.57		
14-01-91	08:15:00	4.250	2468.30	523.83	274.57		
14-01-91	08:20:00	4.333	2468.79	524.32	274.57		
14-01-91	08:25:00	4.417	2469.27	524.80	274.56		
14-01-91	08:30:00	4.500	2469.82	525.35	274.56		
14-01-91	08:35:00	4.583	2470.24	525.77	274.56		
14-01-91	08:40:00	4.667	2470.75	526.28	274.56		
14-01-91	08:45:00	4.750	2471.15	526.68	274.56		
14-01-91	08:50:00	4.833	2471.62	527.15	274.56		
14-01-91	08:55:00	4.917	2472.12	527.65	274.56		
14-01-91	09:00:00	5.000	2472.55	528.08	274.55	2047	CSG = 1 PSIG
14-01-91	09:05:00	5.083	2472.99	528.52	274.55		
14-01-91	09:10:00	5.167	2473.41	528.94	274.55		
14-01-91	09:15:00	5.250	2473.79	529.32	274.55		
14-01-91	09:20:00	5.333	2474.19	529.72	274.55		
14-01-91	09:25:00	5.417	2474.57	530.10	274.55		
14-01-91	09:30:00	5.500	2474.94	530.47	274.55		
14-01-91	09:35:00	5.583	2475.35	530.88	274.55		
14-01-91	09:40:00	5.667	2475.75	531.28	274.54		
14-01-91	09:45:00	5.750	2476.11	531.64	274.55		
14-01-91	09:50:00	5.833	2476.46	531.99	274.54		
14-01-91	09:55:00	5.917	2476.86	532.39	274.55		
14-01-91	10:00:00	6.000	2477.21	532.74	274.55	2050	CSG = 1 PSIG
14-01-91	10:10:00	6.167	2477.91	533.44	274.54		
14-01-91	10:20:00	6.333	2478.54	534.07	274.54		
14-01-91	10:30:00	6.500	2479.17	534.70	274.54		
14-01-91	10:40:00	6.667	2479.82	535.35	274.54		
14-01-91	10:50:00	6.833	2480.44	535.97	274.54		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	11:00:00	7.000	2481.09	536.62	274.54		
14-01-91	11:10:00	7.167	2481.69	537.22	274.54		
14-01-91	11:20:00	7.333	2482.25	537.78	274.54		
14-01-91	11:30:00	7.500	2482.92	538.45	274.53		
14-01-91	11:40:00	7.667	2483.47	539.00	274.53		
14-01-91	11:50:00	7.833	2484.08	539.61	274.54		
14-01-91	12:00:00	8.000	2484.60	540.13	274.54		
14-01-91	12:10:00	8.167	2485.25	540.78	274.54		
14-01-91	12:20:00	8.333	2485.81	541.34	274.54		
14-01-91	12:30:00	8.500	2486.28	541.81	274.55		
14-01-91	12:40:00	8.667	2486.88	542.41	274.54		
14-01-91	12:50:00	8.833	2487.42	542.95	274.55		
14-01-91	13:00:00	9.000	2487.96	543.49	274.55		
14-01-91	13:10:00	9.167	2488.43	543.96	274.55		
14-01-91	13:20:00	9.333	2488.97	544.50	274.55		
14-01-91	13:30:00	9.500	2489.48	545.01	274.55		
14-01-91	13:40:00	9.667	2490.00	545.53	274.55		
14-01-91	13:50:00	9.833	2490.50	546.03	274.55		
14-01-91	14:00:00	10.000	2490.97	546.50	274.55	2058	CSG = 0 PSIG
14-01-91	14:10:00	10.167	2491.43	546.96	274.56		
14-01-91	14:20:00	10.333	2491.85	547.38	274.56		
14-01-91	14:30:00	10.500	2492.36	547.89	274.56		
14-01-91	14:40:00	10.667	2492.83	548.36	274.56		
14-01-91	14:50:00	10.833	2493.28	548.81	274.56		
14-01-91	15:00:00	11.000	2493.70	549.23	274.56		
14-01-91	15:10:00	11.167	2494.16	549.69	274.56		
14-01-91	15:20:00	11.333	2494.58	550.11	274.57		
14-01-91	15:30:00	11.500	2494.98	550.51	274.57		
14-01-91	15:40:00	11.667	2495.43	550.96	274.56		
14-01-91	15:50:00	11.833	2495.83	551.36	274.57		
14-01-91	16:00:00	12.000	2496.27	551.80	274.57		
14-01-91	16:10:00	12.167	2496.62	552.15	274.57		
14-01-91	16:20:00	12.333	2496.98	552.51	274.58		
14-01-91	16:30:00	12.500	2497.42	552.95	274.58		
14-01-91	16:40:00	12.667	2497.83	553.36	274.59		
14-01-91	16:50:00	12.833	2498.21	553.74	274.58		
14-01-91	17:00:00	13.000	2498.54	554.07	274.58		
14-01-91	17:10:00	13.167	2498.89	554.42	274.59		
14-01-91	17:20:00	13.333	2499.27	554.80	274.59		
14-01-91	17:30:00	13.500	2499.64	555.17	274.59		
14-01-91	17:40:00	13.667	2499.99	555.52	274.60		
14-01-91	17:50:00	13.833	2500.31	555.84	274.60		
14-01-91	18:00:00	14.000	2500.65	556.18	274.60	2057	CSG = 0 PSIG
14-01-91	18:10:00	14.167	2501.05	556.58	274.61		
14-01-91	18:20:00	14.333	2501.41	556.94	274.60		
14-01-91	18:30:00	14.500	2501.70	557.23	274.60		
14-01-91	18:40:00	14.667	2502.11	557.64	274.61		
14-01-91	18:50:00	14.833	2502.42	557.95	274.61		
14-01-91	19:00:00	15.000	2502.73	558.26	274.61		
14-01-91	19:10:00	15.167	2503.14	558.67	274.60		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 14-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
14-01-91	19:20:00	15.333	2503.39	558.92	274.61		
14-01-91	19:30:00	15.500	2503.73	559.26	274.62		
14-01-91	19:40:00	15.667	2504.03	559.56	274.61		
14-01-91	19:50:00	15.833	2504.37	559.90	274.62		
14-01-91	20:00:00	16.000	2504.69	560.22	274.62		
14-01-91	20:10:00	16.167	2505.02	560.55	274.62		
14-01-91	20:20:00	16.333	2505.26	560.79	274.63		
14-01-91	20:30:00	16.500	2505.59	561.12	274.62		
14-01-91	20:40:00	16.667	2505.86	561.39	274.63		
14-01-91	20:50:00	16.833	2506.09	561.62	274.63		
14-01-91	21:00:00	17.000	2506.44	561.97	274.63		
14-01-91	21:10:00	17.167	2506.75	562.28	274.63		
14-01-91	21:20:00	17.333	2507.02	562.55	274.64		
14-01-91	21:30:00	17.500	2507.28	562.81	274.64		
14-01-91	21:40:00	17.667	2507.57	563.10	274.63		
14-01-91	21:50:00	17.833	2507.83	563.36	274.64		
14-01-91	22:00:00	18.000	2508.12	563.65	274.64	2057	CSG = 0 PSIG
14-01-91	22:10:00	18.167	2508.39	563.92	274.64		
14-01-91	22:20:00	18.333	2508.69	564.22	274.64		
14-01-91	22:30:00	18.500	2508.92	564.45	274.65		
14-01-91	22:40:00	18.667	2509.18	564.71	274.66		
14-01-91	22:50:00	18.833	2509.42	564.95	274.65		
14-01-91	23:00:00	19.000	2509.68	565.21	274.66		
14-01-91	23:10:00	19.167	2509.93	565.46	274.65		
14-01-91	23:20:00	19.333	2510.15	565.68	274.67		
14-01-91	23:30:00	19.500	2510.46	565.99	274.66		
14-01-91	23:40:00	19.667	2510.73	566.26	274.67		
14-01-91	23:50:00	19.833	2510.97	566.50	274.66		
15-01-91	00:00:00	20.000	2511.15	566.68	274.66		
15-01-91	00:10:00	20.167	2511.43	566.96	274.67		
15-01-91	00:20:00	20.333	2511.67	567.20	274.67		
15-01-91	00:30:00	20.500	2511.93	567.46	274.67		
15-01-91	00:40:00	20.667	2512.12	567.65	274.68		
15-01-91	00:50:00	20.833	2512.34	567.87	274.67		
15-01-91	01:00:00	21.000	2512.57	568.10	274.69		
15-01-91	01:10:00	21.167	2512.81	568.34	274.68		
15-01-91	01:20:00	21.333	2512.99	568.52	274.68		
15-01-91	01:30:00	21.500	2513.21	568.74	274.68		
15-01-91	01:40:00	21.667	2513.42	568.95	274.68		
15-01-91	01:50:00	21.833	2513.71	569.24	274.69		
15-01-91	02:00:00	22.000	2513.87	569.40	274.69	2057	CSG = 0 PSIG
15-01-91	02:10:00	22.167	2514.22	569.75	274.66		
15-01-91	02:20:00	22.333	2514.65	570.18	274.68		
15-01-91	02:30:00	22.500	2514.92	570.45	274.69		
15-01-91	02:40:00	22.667	2515.64	571.17	274.69		
15-01-91	02:50:00	22.833	2515.94	571.47	274.70		MANUAL TEMP.OVERRIDE
15-01-91	03:00:00	23.000	2516.16	571.69	274.70		
15-01-91	03:10:00	23.167	2516.38	571.91	274.70		
15-01-91	03:20:00	23.333	2516.57	572.10	274.70		
15-01-91	03:30:00	23.500	2516.78	572.31	274.70		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 15-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
15-01-91	03:40:00	23.667	2516.94	572.47	274.70		
15-01-91	03:50:00	23.833	2517.15	572.68	274.70		
15-01-91	04:00:00	24.000	2517.34	572.87	274.70		
15-01-91	04:10:00	24.167	2517.54	573.07	274.70		
15-01-91	04:20:00	24.333	2517.73	573.26	274.70		
15-01-91	04:30:00	24.500	2517.90	573.43	274.70		
15-01-91	04:40:00	24.667	2518.12	573.65	274.70		
15-01-91	04:50:00	24.833	2518.36	573.89	274.70		
15-01-91	05:00:00	25.000	2518.50	574.03	274.70		
15-01-91	05:10:00	25.167	2518.68	574.21	274.70		
15-01-91	05:20:00	25.333	2518.93	574.46	274.70		
15-01-91	05:30:00	25.500	2519.11	574.64	274.70		
15-01-91	05:40:00	25.667	2519.24	574.77	274.70		
15-01-91	05:50:00	25.833	2519.47	575.00	274.70		
15-01-91	06:00:00	26.000	2519.67	575.20	274.70	2059	CSG = 0 PSIG
15-01-91	06:10:00	26.167	2519.81	575.34	274.70		
15-01-91	06:20:00	26.333	2520.02	575.55	274.70		
15-01-91	06:30:00	26.500	2529.13	584.66	274.70		
15-01-91	06:40:00	26.667	2520.43	575.96	274.67		
15-01-91	06:50:00	26.833	2520.49	576.02	274.67		
15-01-91	07:00:00	27.000	2520.71	576.24	274.67		
15-01-91	07:10:00	27.167	2520.89	576.42	274.67		
15-01-91	07:20:00	27.333	2521.03	576.56	274.67		
15-01-91	07:30:00	27.500	2521.24	576.77	274.67		
15-01-91	07:40:00	27.667	2521.41	576.94	274.67		
15-01-91	07:50:00	27.833	2521.58	577.11	274.67		
15-01-91	08:00:00	28.000	2521.74	577.27	274.67		
15-01-91	08:10:00	28.167	2521.91	577.44	274.67		
15-01-91	08:20:00	28.333	2522.08	577.61	274.67		
15-01-91	08:30:00	28.500	2522.20	577.73	274.67		
15-01-91	08:40:00	28.667	2522.35	577.88	274.67		
15-01-91	08:50:00	28.833	2522.52	578.05	274.67		
15-01-91	09:00:00	29.000	2522.74	578.27	274.67		
15-01-91	09:10:00	29.167	2522.87	578.40	274.67		
15-01-91	09:20:00	29.333	2523.06	578.59	274.67		
15-01-91	09:30:00	29.500	2523.24	578.77	274.67		
15-01-91	09:40:00	29.667	2523.37	578.90	274.67		
15-01-91	09:50:00	29.833	2523.57	579.10	274.67		
15-01-91	10:00:00	30.000	2523.72	579.25	274.67	2061	CSG = 0 PSIG
15-01-91	10:10:00	30.167	2523.80	579.33	274.67		
15-01-91	10:20:00	30.333	2523.96	579.49	274.67		
15-01-91	10:30:00	30.500	2524.12	579.65	274.67		
15-01-91	10:40:00	30.667	2524.24	579.77	274.67		
15-01-91	10:50:00	30.833	2524.43	579.96	274.67		
15-01-91	11:00:00	31.000	2524.55	580.08	274.67		
15-01-91	11:10:00	31.167	2524.73	580.26	274.67		
15-01-91	11:20:00	31.333	2524.87	580.40	274.67		
15-01-91	11:30:00	31.500	2525.05	580.58	274.67		
15-01-91	11:40:00	31.667	2525.23	580.76	274.67		
15-01-91	11:50:00	31.833	2525.34	580.87	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 15-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
15-01-91	12:00:00	32.000	2525.45	580.98	274.67		
15-01-91	12:10:00	32.167	2525.66	581.19	274.67		
15-01-91	12:20:00	32.333	2525.72	581.25	274.67		
15-01-91	12:30:00	32.500	2525.90	581.42	274.67		
15-01-91	12:40:00	32.667	2526.05	581.58	274.67		
15-01-91	12:50:00	32.833	2526.13	581.66	274.67		
15-01-91	13:00:00	33.000	2526.26	581.79	274.67		
15-01-91	13:10:00	33.167	2526.40	581.93	274.67		
15-01-91	13:20:00	33.333	2526.62	582.15	274.67		
15-01-91	13:30:00	33.500	2526.75	582.28	274.67		
15-01-91	13:40:00	33.667	2526.83	582.36	274.67		
15-01-91	13:50:00	33.833	2527.01	582.54	274.67		
15-01-91	14:00:00	34.000	2527.09	582.62	274.67	2065	CSG = 0 PSIG
15-01-91	14:10:00	34.167	2527.26	582.79	274.67		
15-01-91	14:20:00	34.333	2527.36	582.89	274.67		
15-01-91	14:30:00	34.500	2527.49	583.02	274.67		
15-01-91	14:40:00	34.667	2527.61	583.14	274.67		
15-01-91	14:50:00	34.833	2527.76	583.29	274.67		
15-01-91	15:00:00	35.000	2527.86	583.39	274.67		
15-01-91	15:10:00	35.167	2527.99	583.52	274.67		
15-01-91	15:20:00	35.333	2528.14	583.67	274.67		
15-01-91	15:30:00	35.500	2528.24	583.77	274.67		
15-01-91	15:40:00	35.667	2528.42	583.95	274.67		
15-01-91	15:50:00	35.833	2528.50	584.03	274.67		
15-01-91	16:00:00	36.000	2528.67	584.20	274.67		
15-01-91	16:10:00	36.167	2528.79	584.32	274.67		
15-01-91	16:20:00	36.333	2528.95	584.48	274.67		
15-01-91	16:30:00	36.500	2529.05	584.58	274.67		
15-01-91	16:40:00	36.667	2529.22	584.75	274.67		
15-01-91	16:50:00	36.833	2529.30	584.83	274.67		
15-01-91	17:00:00	37.000	2529.46	584.99	274.67		
15-01-91	17:10:00	37.167	2529.54	585.07	274.67		
15-01-91	17:20:00	37.333	2529.64	585.17	274.67		
15-01-91	17:30:00	37.500	2529.81	585.34	274.67		
15-01-91	17:40:00	37.667	2529.92	585.45	274.67		
15-01-91	17:50:00	37.833	2530.04	585.57	274.67		
15-01-91	18:00:00	38.000	2530.20	585.73	274.67	2065	CSG = 0 PSIG
15-01-91	18:10:00	38.167	2530.30	585.83	274.67		
15-01-91	18:20:00	38.333	2530.40	585.93	274.67		
15-01-91	18:30:00	38.500	2530.53	586.06	274.67		
15-01-91	18:40:00	38.667	2530.68	586.21	274.67		
15-01-91	18:50:00	38.833	2530.76	586.29	274.67		
15-01-91	19:00:00	39.000	2530.90	586.43	274.67		
15-01-91	19:10:00	39.167	2530.97	586.50	274.67		
15-01-91	19:20:00	39.333	2531.10	586.63	274.67		
15-01-91	19:30:00	39.500	2531.28	586.81	274.67		
15-01-91	19:40:00	39.667	2531.34	586.87	274.67		
15-01-91	19:50:00	39.833	2531.44	586.97	274.67		
15-01-91	20:00:00	40.000	2531.60	587.13	274.67		
15-01-91	20:10:00	40.167	2531.71	587.24	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 15-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
15-01-91	20:20:00	40.333	2531.80	587.33	274.67		
15-01-91	20:30:00	40.500	2531.92	587.45	274.67		
15-01-91	20:40:00	40.667	2532.04	587.57	274.67		
15-01-91	20:50:00	40.833	2532.17	587.70	274.67		
15-01-91	21:00:00	41.000	2532.22	587.75	274.67		
15-01-91	21:10:00	41.167	2532.36	587.89	274.67		
15-01-91	21:20:00	41.333	2532.49	588.02	274.67		
15-01-91	21:30:00	41.500	2532.60	588.13	274.67		
15-01-91	21:40:00	41.667	2532.72	588.25	274.67		
15-01-91	21:50:00	41.833	2532.87	588.40	274.67		
15-01-91	22:00:00	42.000	2532.95	588.48	274.67	2063	CSG = 0 PSIG
15-01-91	22:10:00	42.167	2533.06	588.59	274.67		
15-01-91	22:20:00	42.333	2533.17	588.70	274.67		
15-01-91	22:30:00	42.500	2533.25	588.78	274.67		
15-01-91	22:40:00	42.667	2533.40	588.93	274.67		
15-01-91	22:50:00	42.833	2533.50	589.03	274.67		
15-01-91	23:00:00	43.000	2533.56	589.09	274.67		
15-01-91	23:10:00	43.167	2533.67	589.20	274.67		
15-01-91	23:20:00	43.333	2533.77	589.30	274.67		
15-01-91	23:30:00	43.500	2533.94	589.47	274.67		
15-01-91	23:40:00	43.667	2534.01	589.54	274.67		
15-01-91	23:50:00	43.833	2534.15	589.68	274.67		
16-01-91	00:00:00	44.000	2534.21	589.74	274.67		
16-01-91	00:10:00	44.167	2534.38	589.91	274.67		
16-01-91	00:20:00	44.333	2534.48	590.01	274.67		
16-01-91	00:30:00	44.500	2534.53	590.06	274.67		
16-01-91	00:40:00	44.667	2534.58	590.11	274.67		
16-01-91	00:50:00	44.833	2534.73	590.26	274.67		
16-01-91	01:00:00	45.000	2534.86	590.39	274.67		
16-01-91	01:10:00	45.167	2534.95	590.48	274.67		
16-01-91	01:20:00	45.333	2535.12	590.65	274.67		
16-01-91	01:30:00	45.500	2535.15	590.68	274.67		
16-01-91	01:40:00	45.667	2535.28	590.81	274.67		
16-01-91	01:50:00	45.833	2535.34	590.87	274.67		
16-01-91	02:00:00	46.000	2535.44	590.97	274.67	2065	CSG = 0 PSIG
16-01-91	02:10:00	46.167	2535.57	591.10	274.67		
16-01-91	02:20:00	46.333	2535.64	591.17	274.67		
16-01-91	02:30:00	46.500	2535.72	591.25	274.67		
16-01-91	02:40:00	46.667	2535.84	591.37	274.67		
16-01-91	02:50:00	46.833	2535.94	591.47	274.67		
16-01-91	03:00:00	47.000	2536.09	591.62	274.67		
16-01-91	03:10:00	47.167	2536.19	591.72	274.67		
16-01-91	03:20:00	47.333	2536.22	591.75	274.67		
16-01-91	03:30:00	47.500	2536.36	591.89	274.67		
16-01-91	03:40:00	47.667	2536.47	592.00	274.67		
16-01-91	03:50:00	47.833	2536.56	592.09	274.67		
16-01-91	04:00:00	48.000	2536.63	592.16	274.67		
16-01-91	04:10:00	48.167	2536.72	592.25	274.67		
16-01-91	04:20:00	48.333	2536.82	592.35	274.67		
16-01-91	04:30:00	48.500	2536.92	592.45	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 16-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
16-01-91	04:40:00	48.667	2537.01	592.54	274.67		
16-01-91	04:50:00	48.833	2537.10	592.63	274.67		
16-01-91	05:00:00	49.000	2537.22	592.75	274.67		
16-01-91	05:10:00	49.167	2537.32	592.85	274.67		
16-01-91	05:20:00	49.333	2537.37	592.90	274.67		
16-01-91	05:30:00	49.500	2537.48	593.01	274.67		
16-01-91	05:40:00	49.667	2537.57	593.10	274.67		
16-01-91	05:50:00	49.833	2537.71	593.24	274.67		
16-01-91	06:00:00	50.000	2537.79	593.32	274.67	2065	CSG = 0 PSIG
16-01-91	06:10:00	50.167	2537.81	593.34	274.67		
16-01-91	06:20:00	50.333	2538.00	593.53	274.67		
16-01-91	06:30:00	50.500	2538.07	593.60	274.67		
16-01-91	06:40:00	50.667	2538.12	593.65	274.67		
16-01-91	06:50:00	50.833	2538.19	593.72	274.67		
16-01-91	07:00:00	51.000	2538.31	593.84	274.67		
16-01-91	07:10:00	51.167	2538.48	594.01	274.67		
16-01-91	07:20:00	51.333	2538.52	594.05	274.67		
16-01-91	07:30:00	51.500	2538.63	594.16	274.67		
16-01-91	07:40:00	51.667	2538.66	594.19	274.67		
16-01-91	07:50:00	51.833	2538.76	594.29	274.67		
16-01-91	08:00:00	52.000	2538.84	594.37	274.67		
16-01-91	08:10:00	52.167	2538.96	594.49	274.67		
16-01-91	08:20:00	52.333	2539.01	594.54	274.67		
16-01-91	08:30:00	52.500	2539.16	594.69	274.67		
16-01-91	08:40:00	52.667	2539.22	594.75	274.67		
16-01-91	08:50:00	52.833	2539.32	594.85	274.67		
16-01-91	09:00:00	53.000	2539.41	594.94	274.67		
16-01-91	09:10:00	53.167	2539.46	594.99	274.67		
16-01-91	09:20:00	53.333	2539.63	595.16	274.67		
16-01-91	09:30:00	53.500	2539.67	595.20	274.67		
16-01-91	09:40:00	53.667	2539.76	595.29	274.67		
16-01-91	09:50:00	53.833	2539.87	595.40	274.67		
16-01-91	10:00:00	54.000	2539.92	595.45	274.67	2072	CSG = 0 PSIG
16-01-91	10:10:00	54.167	2540.06	595.59	274.67		
16-01-91	10:20:00	54.333	2540.11	595.64	274.67		
16-01-91	10:30:00	54.500	2540.21	595.74	274.67		
16-01-91	10:40:00	54.667	2540.32	595.85	274.67		
16-01-91	10:50:00	54.833	2540.42	595.95	274.67		
16-01-91	11:00:00	55.000	2540.47	596.00	274.67		
16-01-91	11:10:00	55.167	2540.53	596.06	274.67		
16-01-91	11:20:00	55.333	2540.66	596.19	274.67		
16-01-91	11:30:00	55.500	2540.67	596.20	274.67		
16-01-91	11:40:00	55.667	2540.81	596.34	274.67		
16-01-91	11:50:00	55.833	2540.81	596.34	274.67		
16-01-91	12:00:00	56.000	2540.97	596.50	274.67		
16-01-91	12:10:00	56.167	2541.07	596.60	274.67		
16-01-91	12:20:00	56.333	2541.15	596.68	274.67		
16-01-91	12:30:00	56.500	2541.24	596.77	274.67		
16-01-91	12:40:00	56.667	2541.31	596.84	274.67		
16-01-91	12:50:00	56.833	2541.40	596.93	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 16-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
16-01-91	13:00:00	57.000	2541.50	597.03	274.67	2073	CSG = 0 PSIG
16-01-91	13:10:00	57.167	2541.56	597.09	274.67		
16-01-91	13:20:00	57.333	2541.66	597.19	274.67		
16-01-91	13:30:00	57.500	2541.78	597.31	274.67		
16-01-91	13:40:00	57.667	2541.84	597.37	274.67		
16-01-91	13:50:00	57.833	2541.92	597.45	274.67		
16-01-91	14:00:00	58.000	2541.92	597.45	274.67		
16-01-91	14:10:00	58.167	2542.07	597.60	274.67		
16-01-91	14:20:00	58.333	2542.17	597.70	274.67		
16-01-91	14:30:00	58.500	2542.20	597.73	274.67		
16-01-91	14:40:00	58.667	2542.34	597.87	274.67		
16-01-91	14:50:00	58.833	2542.42	597.95	274.67		
16-01-91	15:00:00	59.000	2542.43	597.96	274.67		
16-01-91	15:10:00	59.167	2542.51	598.04	274.67		
16-01-91	15:20:00	59.333	2542.64	598.17	274.67		
16-01-91	15:30:00	59.500	2542.67	598.20	274.67		
16-01-91	15:40:00	59.667	2542.81	598.34	274.67		
16-01-91	15:50:00	59.833	2542.88	598.41	274.67		
16-01-91	16:00:00	60.000	2542.95	598.48	274.67		
16-01-91	16:10:00	60.167	2543.06	598.59	274.67		
16-01-91	16:20:00	60.333	2543.13	598.66	274.67	2075	CSG = 0 PSIG
16-01-91	16:30:00	60.500	2543.23	598.76	274.67		
16-01-91	16:40:00	60.667	2543.29	598.82	274.67		
16-01-91	16:50:00	60.833	2543.37	598.90	274.67		
16-01-91	17:00:00	61.000	2543.44	598.97	274.67		
16-01-91	17:10:00	61.167	2543.50	599.03	274.67		
16-01-91	17:20:00	61.333	2543.61	599.14	274.67		
16-01-91	17:30:00	61.500	2543.62	599.15	274.67		
16-01-91	17:40:00	61.667	2543.76	599.29	274.67		
16-01-91	17:50:00	61.833	2543.88	599.41	274.67		
16-01-91	18:00:00	62.000	2543.90	599.43	274.67		
16-01-91	18:10:00	62.167	2544.02	599.55	274.67		
16-01-91	18:20:00	62.333	2544.10	599.63	274.67		
16-01-91	18:30:00	62.500	2544.19	599.72	274.67		
16-01-91	18:40:00	62.667	2544.24	599.77	274.67		
16-01-91	18:50:00	62.833	2544.30	599.83	274.67		
16-01-91	19:00:00	63.000	2544.37	599.90	274.67		
16-01-91	19:10:00	63.167	2544.41	599.94	274.67		
16-01-91	19:20:00	63.333	2544.55	600.08	274.67		
16-01-91	19:30:00	63.500	2544.61	600.14	274.67		
16-01-91	19:40:00	63.667	2544.70	600.23	274.67		
16-01-91	19:50:00	63.833	2544.74	600.27	274.67		
16-01-91	20:00:00	64.000	2544.81	600.34	274.67		
16-01-91	20:10:00	64.167	2544.90	600.43	274.67		
16-01-91	20:20:00	64.333	2544.98	600.51	274.67		
16-01-91	20:30:00	64.500	2545.05	600.58	274.67		
16-01-91	20:40:00	64.667	2545.09	600.62	274.67		
16-01-91	20:50:00	64.833	2545.22	600.75	274.67		
16-01-91	21:00:00	65.000	2545.25	600.78	274.67		
16-01-91	21:10:00	65.167	2545.38	600.91	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 16-01-91 HP GAUGE S/N: 599
LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB
COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
16-01-91	21:20:00	65.333	2545.46	600.99	274.67	2069	CSG = 0 PSIG
16-01-91	21:30:00	65.500	2545.54	601.07	274.67		
16-01-91	21:40:00	65.667	2545.63	601.16	274.67		
16-01-91	21:50:00	65.833	2545.63	601.16	274.67		
16-01-91	22:00:00	66.000	2545.71	601.24	274.67		
16-01-91	22:10:00	66.167	2545.80	601.33	274.67		
16-01-91	22:20:00	66.333	2545.87	601.40	274.67		
16-01-91	22:30:00	66.500	2546.02	601.55	274.67		
16-01-91	22:40:00	66.667	2546.08	601.61	274.67		
16-01-91	22:50:00	66.833	2546.14	601.67	274.67		
16-01-91	23:00:00	67.000	2546.18	601.71	274.67		
16-01-91	23:10:00	67.167	2546.25	601.78	274.67		
16-01-91	23:20:00	67.333	2546.35	601.88	274.67		
16-01-91	23:30:00	67.500	2546.45	601.98	274.67		
16-01-91	23:40:00	67.667	2546.48	602.01	274.67		
16-01-91	23:50:00	67.833	2546.54	602.07	274.67	2070	CSG = 0 PSIG
17-01-91	00:00:00	68.000	2546.64	602.17	274.67		
17-01-91	00:10:00	68.167	2546.74	602.27	274.67		
17-01-91	00:20:00	68.333	2546.76	602.29	274.67		
17-01-91	00:30:00	68.500	2546.86	602.39	274.67		
17-01-91	00:40:00	68.667	2546.90	602.43	274.67		
17-01-91	00:50:00	68.833	2547.03	602.56	274.67		
17-01-91	01:00:00	69.000	2547.09	602.62	274.67		
17-01-91	01:10:00	69.167	2547.11	602.64	274.67		
17-01-91	01:20:00	69.333	2547.26	602.79	274.67		
17-01-91	01:30:00	69.500	2547.30	602.83	274.67		
17-01-91	01:40:00	69.667	2547.34	602.87	274.67		
17-01-91	01:50:00	69.833	2547.48	603.01	274.67		
17-01-91	02:00:00	70.000	2547.54	603.07	274.67		
17-01-91	02:10:00	70.167	2547.56	603.09	274.67		
17-01-91	02:20:00	70.333	2547.69	603.22	274.67		
17-01-91	02:30:00	70.500	2547.75	603.28	274.67		
17-01-91	02:40:00	70.667	2547.84	603.37	274.67		
17-01-91	02:50:00	70.833	2547.94	603.47	274.67		
17-01-91	03:00:00	71.000	2548.03	603.56	274.67		
17-01-91	03:10:00	71.167	2548.14	603.67	274.67		
17-01-91	03:20:00	71.333	2548.14	603.67	274.67		
17-01-91	03:30:00	71.500	2548.21	603.74	274.67		
17-01-91	03:40:00	71.667	2548.27	603.80	274.67		
17-01-91	03:50:00	71.833	2548.31	603.84	274.67		
17-01-91	04:00:00	72.000	2548.46	603.99	274.67		
17-01-91	04:10:00	72.167	2548.48	604.01	274.67		
17-01-91	04:20:00	72.333	2548.54	604.07	274.67		
17-01-91	04:30:00	72.500	2548.63	604.16	274.67		
17-01-91	04:40:00	72.667	2548.72	604.25	274.67		
17-01-91	04:50:00	72.833	2548.76	604.29	274.67		
17-01-91	05:00:00	73.000	2548.81	604.34	274.67		
17-01-91	05:10:00	73.167	2548.87	604.40	274.67		
17-01-91	05:20:00	73.333	2548.93	604.46	274.67		
17-01-91	05:30:00	73.500	2549.05	604.58	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 17-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB.
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
17-01-91	05:40:00	73.667	2549.11	604.64	274.67	2071	CSG = 0 PSIG
17-01-91	05:50:00	73.833	2549.21	604.74	274.67		
17-01-91	06:00:00	74.000	2549.29	604.82	274.67		
17-01-91	06:10:00	74.167	2549.35	604.88	274.67		
17-01-91	06:20:00	74.333	2549.36	604.89	274.67		
17-01-91	06:30:00	74.500	2549.44	604.97	274.67		
17-01-91	06:40:00	74.667	2549.57	605.10	274.67		
17-01-91	06:50:00	74.833	2549.62	605.15	274.67		
17-01-91	07:00:00	75.000	2549.64	605.17	274.67		
17-01-91	07:10:00	75.167	2549.77	605.30	274.67		
17-01-91	07:20:00	75.333	2549.83	605.36	274.67		
17-01-91	07:30:00	75.500	2549.89	605.42	274.67		
17-01-91	07:40:00	75.667	2549.98	605.51	274.67		
17-01-91	07:50:00	75.833	2550.06	605.59	274.67		
17-01-91	08:00:00	76.000	2550.09	605.62	274.67		
17-01-91	08:10:00	76.167	2550.15	605.68	274.67		
17-01-91	08:20:00	76.333	2550.20	605.73	274.67		
17-01-91	08:30:00	76.500	2550.28	605.81	274.67		
17-01-91	08:40:00	76.667	2550.36	605.89	274.67		
17-01-91	08:50:00	76.833	2550.38	605.91	274.67		
17-01-91	09:00:00	77.000	2550.46	605.99	274.67	2073	CSG = 0 PSIG
17-01-91	09:10:00	77.167	2550.54	606.07	274.67		
17-01-91	09:20:00	77.333	2550.68	606.21	274.67		
17-01-91	09:30:00	77.500	2550.70	606.23	274.67		
17-01-91	09:40:00	77.667	2550.78	606.31	274.67		
17-01-91	09:50:00	77.833	2550.83	606.36	274.67		
17-01-91	10:00:00	78.000	2550.88	606.41	274.67		
17-01-91	10:10:00	78.167	2550.97	606.50	274.67		
17-01-91	10:20:00	78.333	2551.09	606.62	274.67		
17-01-91	10:30:00	78.500	2551.09	606.62	274.67		
17-01-91	10:40:00	78.667	2551.18	606.71	274.67		
17-01-91	10:50:00	78.833	2551.21	606.74	274.67		
17-01-91	11:00:00	79.000	2551.29	606.82	274.67		
17-01-91	11:10:00	79.167	2551.33	606.86	274.67		
17-01-91	11:20:00	79.333	2551.39	606.92	274.67		
17-01-91	11:30:00	79.500	2551.53	607.06	274.67		
17-01-91	11:40:00	79.667	2551.57	607.10	274.67		
17-01-91	11:50:00	79.833	2551.63	607.16	274.67		
17-01-91	12:00:00	80.000	2551.67	607.20	274.67		
17-01-91	12:10:00	80.167	2551.76	607.29	274.67		
17-01-91	12:20:00	80.333	2551.86	607.39	274.67		
17-01-91	12:30:00	80.500	2551.92	607.45	274.67		
17-01-91	12:40:00	80.667	2551.94	607.47	274.67		
17-01-91	12:50:00	80.833	2552.06	607.59	274.67		
17-01-91	13:00:00	81.000	2552.10	607.63	274.67		
17-01-91	13:10:00	81.167	2552.16	607.69	274.67		
17-01-91	13:20:00	81.333	2552.25	607.78	274.67		
17-01-91	13:30:00	81.500	2552.30	607.83	274.67		
17-01-91	13:40:00	81.667	2552.36	607.89	274.67		
17-01-91	13:50:00	81.833	2552.42	607.95	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 17-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB.
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
17-01-91	14:00:00	82.000	2552.49	608.02	274.67		
17-01-91	14:10:00	82.167	2552.62	608.15	274.67		
17-01-91	14:20:00	82.333	2552.64	608.17	274.67		
17-01-91	14:30:00	82.500	2552.69	608.22	274.67		
17-01-91	14:40:00	82.667	2552.75	608.28	274.67		
17-01-91	14:50:00	82.833	2552.79	608.32	274.67		
17-01-91	15:00:00	83.000	2552.85	608.38	274.67		
17-01-91	15:10:00	83.167	2552.92	608.45	274.67		
17-01-91	15:20:00	83.333	2552.98	608.51	274.67		
17-01-91	15:30:00	83.500	2553.08	608.61	274.67	2078	CSG = 0 PSIG
17-01-91	15:40:00	83.667	2553.10	608.63	274.67		
17-01-91	15:50:00	83.833	2553.17	608.70	274.67		
17-01-91	16:00:00	84.000	2553.23	608.76	274.67		
17-01-91	16:10:00	84.167	2553.33	608.86	274.67		
17-01-91	16:20:00	84.333	2553.31	608.84	274.67		
17-01-91	16:30:00	84.500	2553.41	608.94	274.67		
17-01-91	16:40:00	84.667	2553.55	609.08	274.67		
17-01-91	16:50:00	84.833	2553.57	609.10	274.67		
17-01-91	17:00:00	85.000	2553.61	609.14	274.67		
17-01-91	17:10:00	85.167	2553.59	609.12	274.67		
17-01-91	17:20:00	85.333	2553.71	609.24	274.67		
17-01-91	17:30:00	85.500	2553.82	609.35	274.67		
17-01-91	17:40:00	85.667	2553.91	609.44	274.67		
17-01-91	17:50:00	85.833	2553.98	609.51	274.67		
17-01-91	18:00:00	86.000	2554.03	609.56	274.67	2082	CSG = 0 PSIG
17-01-91	18:10:00	86.167	2554.04	609.57	274.67		
17-01-91	18:20:00	86.333	2554.15	609.68	274.67		
17-01-91	18:30:00	86.500	2554.11	609.64	274.67		
17-01-91	18:40:00	86.667	2554.22	609.75	274.67		
17-01-91	18:50:00	86.833	2554.24	609.77	274.67		
17-01-91	19:00:00	87.000	2554.31	609.84	274.67		
17-01-91	19:10:00	87.167	2554.39	609.92	274.67		
17-01-91	19:20:00	87.333	2554.42	609.95	274.67		
17-01-91	19:30:00	87.500	2554.49	610.02	274.67		
17-01-91	19:40:00	87.667	2554.59	610.12	274.67		
17-01-91	19:50:00	87.833	2554.66	610.19	274.67		
17-01-91	20:00:00	88.000	2554.71	610.24	274.67		
17-01-91	20:10:00	88.167	2554.73	610.26	274.67		
17-01-91	20:20:00	88.333	2554.83	610.36	274.67		
17-01-91	20:30:00	88.500	2554.80	610.33	274.67		
17-01-91	20:40:00	88.667	2554.86	610.39	274.67		
17-01-91	20:50:00	88.833	2554.99	610.52	274.67		
17-01-91	21:00:00	89.000	2555.06	610.59	274.67		
17-01-91	21:10:00	89.167	2555.11	610.64	274.67		
17-01-91	21:20:00	89.333	2555.18	610.71	274.67		
17-01-91	21:30:00	89.500	2555.19	610.72	274.67		
17-01-91	21:40:00	89.667	2555.34	610.87	274.67		
17-01-91	21:50:00	89.833	2555.50	611.03	274.67		
17-01-91	22:00:00	90.000	2555.58	611.11	274.67	2078	CSG = 0 PSIG
17-01-91	22:10:00	90.167	2555.69	611.22	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 17-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB.
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
17-01-91	22:20:00	90.333	2555.79	611.32	274.67		
17-01-91	22:30:00	90.500	2555.82	611.35	274.67		
17-01-91	22:40:00	90.667	2555.89	611.42	274.67		
17-01-91	22:50:00	90.833	2555.99	611.52	274.67		
17-01-91	23:00:00	91.000	2556.05	611.58	274.67		
17-01-91	23:10:00	91.167	2556.09	611.62	274.67		
17-01-91	23:20:00	91.333	2556.14	611.67	274.67		
17-01-91	23:30:00	91.500	2556.27	611.80	274.67		
17-01-91	23:40:00	91.667	2556.36	611.89	274.67		
17-01-91	23:50:00	91.833	2556.40	611.93	274.67		
18-01-91	00:00:00	92.000	2556.50	612.03	274.67		
18-01-91	00:10:00	92.167	2556.50	612.03	274.67		
18-01-91	00:20:00	92.333	2556.56	612.09	274.67		
18-01-91	00:30:00	92.500	2556.64	612.17	274.67		
18-01-91	00:40:00	92.667	2556.71	612.24	274.67		
18-01-91	00:50:00	92.833	2556.78	612.31	274.67		
18-01-91	01:00:00	93.000	2556.79	612.32	274.67		
18-01-91	01:10:00	93.167	2556.83	612.36	274.67		
18-01-91	01:20:00	93.333	2556.93	612.46	274.67		
18-01-91	01:30:00	93.500	2557.00	612.53	274.67		
18-01-91	01:40:00	93.667	2557.11	612.64	274.67		
18-01-91	01:50:00	93.833	2557.07	612.60	274.67		
18-01-91	02:00:00	94.000	2557.11	612.64	274.67	2077	CSG = 0 PSIG
18-01-91	02:10:00	94.167	2557.22	612.75	274.67		
18-01-91	02:20:00	94.333	2557.29	612.82	274.67		
18-01-91	02:30:00	94.500	2557.35	612.88	274.67		
18-01-91	02:40:00	94.667	2557.42	612.95	274.67		
18-01-91	02:50:00	94.833	2557.48	613.01	274.67		
18-01-91	03:00:00	95.000	2557.50	613.03	274.67		
18-01-91	03:10:00	95.167	2557.57	613.10	274.67		
18-01-91	03:20:00	95.333	2557.66	613.19	274.67		
18-01-91	03:30:00	95.500	2557.68	613.21	274.67		
18-01-91	03:40:00	95.667	2557.74	613.27	274.67		
18-01-91	03:50:00	95.833	2557.81	613.34	274.67		
18-01-91	04:00:00	96.000	2557.80	613.33	274.67		
18-01-91	04:10:00	96.167	2557.94	613.47	274.67		
18-01-91	04:20:00	96.333	2558.04	613.57	274.67		
18-01-91	04:30:00	96.500	2558.01	613.54	274.67		
18-01-91	04:40:00	96.667	2558.12	613.65	274.67		
18-01-91	04:50:00	96.833	2558.21	613.74	274.67		
18-01-91	05:00:00	97.000	2558.19	613.72	274.67		
18-01-91	05:10:00	97.167	2558.31	613.84	274.67		
18-01-91	05:20:00	97.333	2558.38	613.91	274.67		
18-01-91	05:30:00	97.500	2558.39	613.92	274.67		
18-01-91	05:40:00	97.667	2558.41	613.94	274.67		
18-01-91	05:50:00	97.833	2558.51	614.04	274.67		
18-01-91	06:00:00	98.000	2558.57	614.10	274.67	2077	CSG = 0 PSIG
18-01-91	06:10:00	98.167	2558.60	614.13	274.67		
18-01-91	06:20:00	98.333	2558.60	614.13	274.67		
18-01-91	06:30:00	98.500	2558.74	614.27	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE : 18-01-91 HP GAUGE S/N : 599
LOCATION : THURAKINNA #3 TEST : MODIFIED ISOCHRONAL OPERATOR : HUW JAMES
FORMATION : PATCHAWARRA PERFORATIONS : 7484'-7720'KB GAUGE DEPTH : 7400'KB.
COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
18-01-91	06:40:00	98.667	2558.81	614.34	274.67		
18-01-91	06:50:00	98.833	2558.83	614.36	274.67		
18-01-91	07:00:00	99.000	2558.95	614.48	274.67		
18-01-91	07:10:00	99.167	2558.95	614.48	274.67		
18-01-91	07:20:00	99.333	2559.00	614.53	274.67		
18-01-91	07:30:00	99.500	2559.02	614.55	274.67		
18-01-91	07:40:00	99.667	2559.10	614.63	274.67		
18-01-91	07:50:00	99.833	2559.20	614.73	274.67		
18-01-91	08:00:00	100.000	2559.24	614.77	274.67		
18-01-91	08:10:00	100.167	2559.34	614.87	274.67		
18-01-91	08:20:00	100.333	2559.31	614.84	274.67		
18-01-91	08:30:00	100.500	2559.37	614.90	274.67		
18-01-91	08:40:00	100.667	2559.46	614.99	274.67		
18-01-91	08:50:00	100.833	2559.57	615.10	274.67		
18-01-91	09:00:00	101.000	2559.57	615.10	274.67		
18-01-91	09:10:00	101.167	2559.54	615.07	274.67		
18-01-91	09:20:00	101.333	2559.69	615.22	274.67		
18-01-91	09:30:00	101.500	2559.73	615.26	274.67		
18-01-91	09:40:00	101.667	2559.75	615.28	274.67		
18-01-91	09:50:00	101.833	2559.82	615.35	274.67		
18-01-91	10:00:00	102.000	2559.92	615.45	274.67	2080	CSG = 0 PSIG
18-01-91	10:10:00	102.167	2559.95	615.48	274.67		
18-01-91	10:20:00	102.333	2559.99	615.52	274.67		
18-01-91	10:30:00	102.500	2560.04	615.57	274.67		
18-01-91	10:40:00	102.667	2560.14	615.67	274.67		
18-01-91	10:50:00	102.833	2560.15	615.68	274.67		
18-01-91	11:00:00	103.000	2560.24	615.77	274.67		
18-01-91	11:10:00	103.167	2560.28	615.81	274.67		
18-01-91	11:20:00	103.333	2560.30	615.83	274.67		
18-01-91	11:30:00	103.500	2560.36	615.89	274.67		
18-01-91	11:40:00	103.667	2560.39	615.92	274.67		
18-01-91	11:50:00	103.833	2560.52	616.05	274.67		
18-01-91	12:00:00	104.000	2560.61	616.15	274.67		
18-01-91	12:10:00	104.167	2560.59	616.12	274.67		
18-01-91	12:20:00	104.333	2560.66	616.19	274.67		
18-01-91	12:30:00	104.500	2560.71	616.24	274.67		
18-01-91	12:40:00	104.667	2560.75	616.28	274.67		
18-01-91	12:50:00	104.833	2560.79	616.32	274.67		
18-01-91	13:00:00	105.000	2560.83	616.36	274.67		
18-01-91	13:10:00	105.167	2560.92	616.45	274.67		
18-01-91	13:20:00	105.333	2560.96	616.49	274.67		
18-01-91	13:30:00	105.500	2561.00	616.53	274.67		
18-01-91	13:40:00	105.667	2561.04	616.57	274.67		
18-01-91	13:50:00	105.833	2561.10	616.63	274.67		
18-01-91	14:00:00	106.000	2561.19	616.72	274.67		
18-01-91	14:10:00	106.167	2561.30	616.83	274.67		
18-01-91	14:20:00	106.333	2561.28	616.81	274.67		
18-01-91	14:30:00	106.500	2561.32	616.85	274.67		
18-01-91	14:40:00	106.667	2561.37	616.90	274.67		
18-01-91	14:50:00	106.833	2561.41	616.94	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 18-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB.
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
18-01-91	15:00:00	107.000	2561.47	617.00	274.67		
18-01-91	15:10:00	107.167	2561.53	617.06	274.67		
18-01-91	15:20:00	107.333	2561.57	617.10	274.67		
18-01-91	15:30:00	107.500	2561.62	617.15	274.67		
18-01-91	15:40:00	107.667	2561.69	617.22	274.67		
18-01-91	15:50:00	107.833	2561.78	617.31	274.67		
18-01-91	16:00:00	108.000	2561.79	617.32	274.67		
18-01-91	16:10:00	108.167	2561.84	617.37	274.67		
18-01-91	16:20:00	108.333	2561.92	617.45	274.67		
18-01-91	16:30:00	108.500	2562.02	617.55	274.67		
18-01-91	16:40:00	108.667	2562.03	617.56	274.67		
18-01-91	16:50:00	108.833	2562.14	617.67	274.67		
18-01-91	17:00:00	109.000	2562.08	617.61	274.67		
18-01-91	17:10:00	109.167	2562.19	617.72	274.67		
18-01-91	17:20:00	109.333	2562.23	617.76	274.67		
18-01-91	17:30:00	109.500	2562.25	617.78	274.67		
18-01-91	17:40:00	109.667	2562.35	617.89	274.67		
18-01-91	17:50:00	109.833	2562.35	617.88	274.67		
18-01-91	18:00:00	110.000	2562.47	618.00	274.67	2085	CSG = 0 PSIG
18-01-91	18:10:00	110.167	2562.44	617.97	274.67		
18-01-91	18:20:00	110.333	2562.56	618.09	274.67		
18-01-91	18:30:00	110.500	2562.59	618.12	274.67		
18-01-91	18:40:00	110.667	2562.68	618.21	274.67		
18-01-91	18:50:00	110.833	2562.70	618.23	274.67		
18-01-91	19:00:00	111.000	2562.79	618.32	274.67		
18-01-91	19:10:00	111.167	2562.81	618.34	274.67		
18-01-91	19:20:00	111.333	2562.89	618.42	274.67		
18-01-91	19:30:00	111.500	2563.03	618.56	274.67		
18-01-91	19:40:00	111.667	2563.08	618.61	274.67		
18-01-91	19:50:00	111.833	2563.10	618.63	274.67		
18-01-91	20:00:00	112.000	2563.11	618.64	274.67		
18-01-91	20:10:00	112.167	2563.09	618.62	274.67		
18-01-91	20:20:00	112.333	2563.16	618.69	274.67		
18-01-91	20:30:00	112.500	2563.19	618.72	274.67		
18-01-91	20:40:00	112.667	2563.24	618.77	274.67		
18-01-91	20:50:00	112.833	2563.38	618.91	274.67		
18-01-91	21:00:00	113.000	2563.41	618.94	274.67		
18-01-91	21:10:00	113.167	2563.45	618.98	274.67		
18-01-91	21:20:00	113.333	2563.56	619.09	274.67		
18-01-91	21:30:00	113.500	2563.54	619.07	274.67		
18-01-91	21:40:00	113.667	2563.62	619.15	274.67		
18-01-91	21:50:00	113.833	2563.71	619.24	274.67		
18-01-91	22:00:00	114.000	2563.75	619.28	274.67	2082	CSG = 0 PSIG
18-01-91	22:10:00	114.167	2563.82	619.35	274.67		
18-01-91	22:20:00	114.333	2563.86	619.39	274.67		
18-01-91	22:30:00	114.500	2563.94	619.47	274.67		
18-01-91	22:40:00	114.667	2563.99	619.52	274.67		
18-01-91	22:50:00	114.833	2564.06	619.59	274.67		
18-01-91	23:00:00	115.000	2564.10	619.63	274.67		
18-01-91	23:10:00	115.167	2564.15	619.68	274.67		

EXPERTEST PTY. LTD.

CUSTOMER : SANTOS LTD. DATE: 18-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: 7400'KB.
 COMMENTS : FINAL BUILD UP

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
18-01-91	23:20:00	115.333	2564.22	619.75	274.67		
18-01-91	23:30:00	115.500	2564.26	619.79	274.67		
18-01-91	23:40:00	115.667	2564.34	619.87	274.67		
18-01-91	23:50:00	115.833	2564.42	619.95	274.67		
19-01-91	00:00:00	116.000	2564.45	619.98	274.67		
19-01-91	00:10:00	116.167	2564.51	620.04	274.67		
19-01-91	00:20:00	116.333	2564.54	620.07	274.67		
19-01-91	00:30:00	116.500	2564.61	620.14	274.67		
19-01-91	00:40:00	116.667	2564.70	620.23	274.67		
19-01-91	00:50:00	116.833	2564.73	620.26	274.67		
19-01-91	01:00:00	117.000	2564.77	620.30	274.67		
19-01-91	01:10:00	117.167	2564.84	620.37	274.67		
19-01-91	01:20:00	117.333	2564.85	620.38	274.67		
19-01-91	01:30:00	117.500	2564.95	620.48	274.67		
19-01-91	01:40:00	117.667	2564.95	620.48	274.67		
19-01-91	01:50:00	117.833	2565.05	620.58	274.67		
19-01-91	02:00:00	118.000	2565.12	620.65	274.67	2082	CSG = 0 PSIG
19-01-91	02:10:00	118.167	2565.10	620.63	274.67		
19-01-91	02:20:00	118.333	2565.13	620.66	274.67		
19-01-91	02:30:00	118.500	2565.23	620.76	274.67		
19-01-91	02:40:00	118.667	2565.22	620.75	274.67		
19-01-91	02:50:00	118.833	2565.29	620.82	274.67		
19-01-91	03:00:00	119.000	2565.39	620.92	274.67		
19-01-91	03:10:00	119.167	2565.44	620.97	274.67		
19-01-91	03:20:00	119.333	2565.49	621.02	274.67		
19-01-91	03:30:00	119.500	2565.53	621.06	274.67		
19-01-91	03:40:00	119.667	2565.60	621.13	274.67		
19-01-91	03:50:00	119.833	2565.67	621.20	274.67		
19-01-91	04:00:00	120.000	2565.71	621.24	274.67		
19-01-91	04:10:00	120.167	2565.77	621.30	274.67		
19-01-91	04:20:00	120.333	2565.78	621.31	274.67		
19-01-91	04:30:00	120.500	2565.85	621.38	274.67		
19-01-91	04:40:00	120.667	2565.85	621.38	274.67		
19-01-91	04:50:00	120.833	2565.86	621.39	274.67		
19-01-91	05:00:00	121.000	2565.97	621.50	274.67		
19-01-91	05:10:00	121.167	2566.04	621.57	274.67		
19-01-91	05:20:00	121.333	2566.09	621.62	274.67		
19-01-91	05:30:00	121.500	2566.13	621.66	274.67		
19-01-91	05:40:00	121.667	2566.16	621.69	274.67		
19-01-91	05:50:00	121.833	2566.17	621.70	274.67		CSG = 0 PSIG
19-01-91	06:00:00	122.000	2566.28	621.81	274.67	2082	END OF BUILD-UP.

EXPERTEST PTY. LTD.

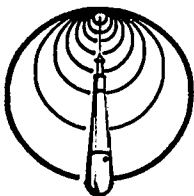
CUSTOMER : SANTOS LTD. DATE: 19-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: GRADIENT.
 COMMENTS : STATIC GRADIENT SURVEY.

DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
19-01-91	06:43:00	122.717	2598.97	2598.97	274.67		AT 7760'KB.
19-01-91	06:44:00	122.733	2598.93	-0.04	274.67		
19-01-91	06:45:00	122.750	2598.92	-0.01	274.67		
19-01-91	06:46:00	122.767	2598.95	0.03	274.67		
19-01-91	06:47:00	122.783	2598.94	-0.01	274.67		GRADIENT=.1101
19-01-91	07:11:00	123.183	2580.84	-18.09	274.67		AT 7596'KB.
19-01-91	07:12:00	123.200	2580.82	-0.03	274.67		
19-01-91	07:13:00	123.217	2580.86	0.05	274.67		
19-01-91	07:14:00	123.233	2580.83	-0.04	274.67		
19-01-91	07:15:00	123.250	2580.82	-0.01	274.67		
19-01-91	07:16:00	123.267	2580.85	0.04	274.67		
19-01-91	07:17:00	123.283	2580.81	-0.05	274.67		
19-01-91	07:18:00	123.300	2580.86	0.06	274.67		
19-01-91	07:19:00	123.317	2580.90	0.04	274.67		
19-01-91	07:20:00	123.333	2580.88	-0.02	274.67		
19-01-91	07:21:00	123.350	2580.92	0.04	274.67		
19-01-91	07:22:00	123.367	2580.85	-0.07	274.67		
19-01-91	07:23:00	123.383	2580.88	0.03	274.67		
19-01-91	07:24:00	123.400	2580.92	0.04	274.67		
19-01-91	07:25:00	123.417	2580.92	0.00	274.67		
19-01-91	07:26:00	123.433	2580.89	-0.03	274.67		GRADIENT=.0701
19-01-91	07:41:00	123.683	2567.16	-13.74	274.67		AT 7400'KB.
19-01-91	07:42:00	123.700	2567.14	-0.02	274.67		
19-01-91	07:43:00	123.717	2567.15	0.01	274.67		
19-01-91	07:44:00	123.733	2567.15	0.00	274.67		
19-01-91	07:45:00	123.750	2567.16	0.01	274.67		
19-01-91	07:46:00	123.767	2567.15	-0.01	274.67		GRADIENT=.0650
19-01-91	08:10:00	124.167	2541.08	-26.07	274.67		AT 7000'KB.
19-01-91	08:11:00	124.183	2541.09	0.01	274.67		
19-01-91	08:12:00	124.200	2541.15	0.06	274.67		
19-01-91	08:13:00	124.217	2541.15	0.01	274.67		
19-01-91	08:14:00	124.233	2541.12	-0.04	274.67		
19-01-91	08:15:00	124.250	2541.15	0.03	274.67		GRADIENT=.0674
19-01-91	08:42:00	124.700	2507.48	-33.67	274.67		AT 6500'KB.
19-01-91	08:43:00	124.717	2507.48	0.00	274.67		
19-01-91	08:44:00	124.733	2507.48	0.00	274.67		
19-01-91	08:45:00	124.750	2507.46	-0.02	274.67		
19-01-91	08:46:00	124.767	2507.46	0.00	274.67		GRADIENT=.0609
19-01-91	09:12:00	125.200	2477.02	-30.44	274.67		AT 6000'KB.
19-01-91	09:13:00	125.217	2477.03	0.01	274.67		
19-01-91	09:14:00	125.233	2477.03	0.00	274.67		
19-01-91	09:15:00	125.250	2476.99	-0.04	274.67		
19-01-91	09:16:00	125.267	2476.97	-0.02	274.67		
19-01-91	09:17:00	125.283	2477.03	0.06	274.67		GRADIENT=.0590
19-01-91	09:41:00	125.683	2418.05	-58.98	274.67		AT 5000'KB.
19-01-91	09:42:00	125.700	2417.99	-0.07	274.67		
19-01-91	09:43:00	125.717	2418.01	0.03	274.67		
19-01-91	09:44:00	125.733	2418.00	-0.02	274.67		
19-01-91	09:45:00	125.750	2418.05	0.06	274.67		
19-01-91	09:46:00	125.767	2418.03	-0.02	274.67		GRADIENT=.0609

EXPERTEST PTY. LTD.

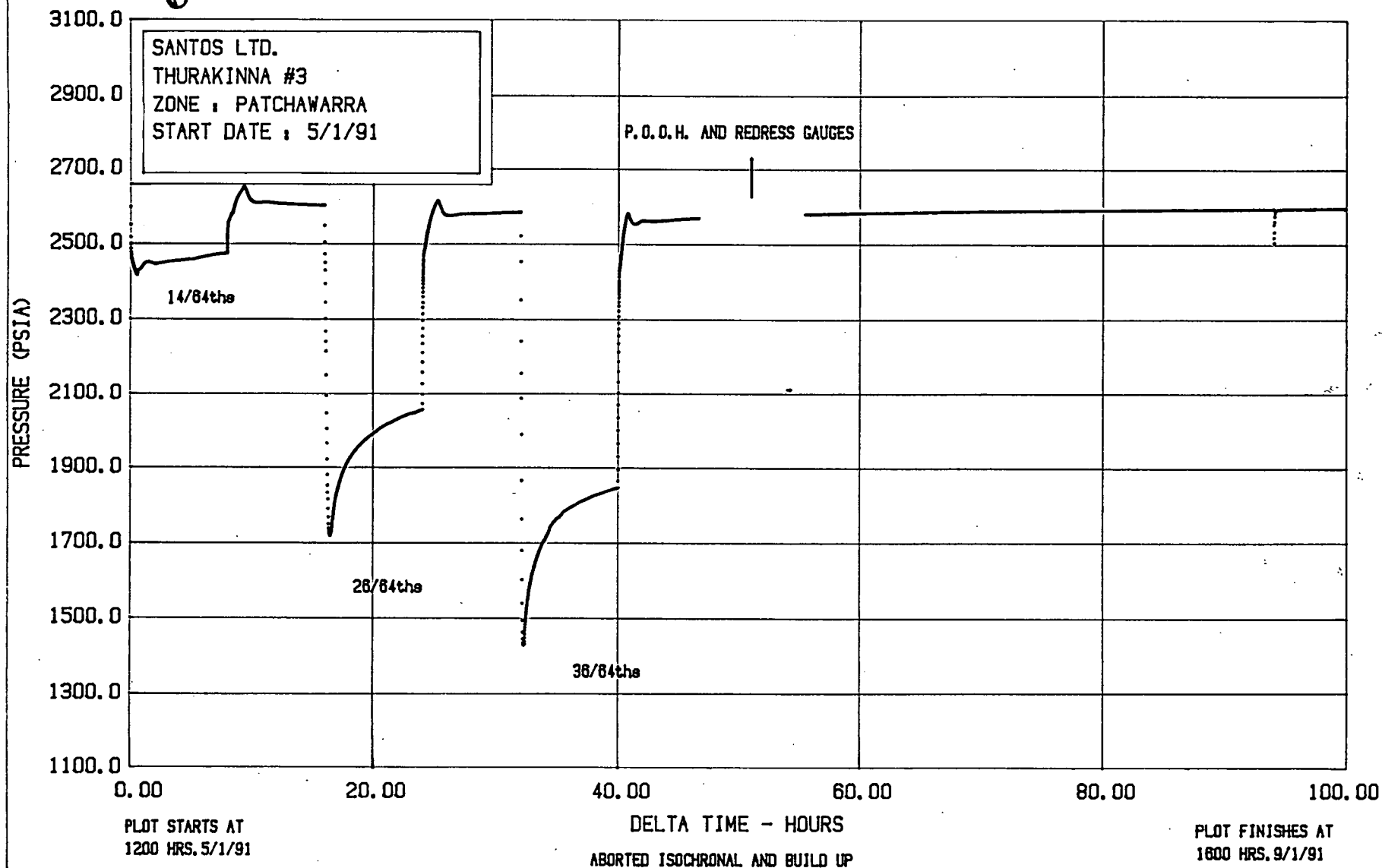
CUSTOMER : SANTOS LTD. DATE: 19-01-91 HP GAUGE S/N: 599
 LOCATION : THURAKINNA #3 TEST: MODIFIED ISOCHRONAL OPERATOR: HUW JAMES
 FORMATION: PATCHAWARRA PERFORATIONS: 7484'-7720'KB GAUGE DEPTH: GRADIENT.
 COMMENTS : STATIC GRADIENT SURVEY.

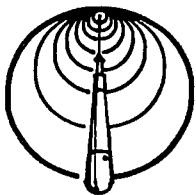
DATE	REAL TIME	DELTA T (HRS)	B.H.P. (PSIA)	DELTA P (PSI)	TEMP (°F)	SURFACE (PSIG)	REMARKS
19-01-91	10:20:00	126.333	2357.20	-60.84	274.67		AT 4000'KB.
19-01-91	10:21:00	126.350	2357.16	-0.04	274.67		
19-01-91	10:22:00	126.367	2357.17	0.01	274.67		
19-01-91	10:23:00	126.383	2357.09	-0.08	274.67		
19-01-91	10:24:00	126.400	2357.11	0.02	274.67		GRADIENT=.0652
19-01-91	10:46:00	126.767	2291.90	-65.21	274.67		AT 3000'KB.
19-01-91	10:47:00	126.783	2291.88	-0.02	274.67		
19-01-91	10:48:00	126.800	2291.93	0.05	274.67		
19-01-91	10:49:00	126.817	2291.90	-0.03	274.67		
19-01-91	10:50:00	126.833	2291.93	0.03	274.67		GRADIENT=.0695
19-01-91	11:13:00	127.217	2222.50	-69.42	274.67		AT 2000'KB.
19-01-91	11:14:00	127.233	2222.47	-0.04	274.67		
19-01-91	11:15:00	127.250	2222.43	-0.04	274.67		
19-01-91	11:16:00	127.267	2222.42	-0.01	274.67		
19-01-91	11:17:00	127.283	2222.39	-0.03	274.67		GRADIENT=.0740
19-01-91	11:52:00	127.867	2148.46	-73.92	274.67		AT 1000'KB.
19-01-91	11:53:00	127.883	2148.47	0.01	274.67		
19-01-91	11:54:00	127.900	2148.37	-0.11	274.67		
19-01-91	11:55:00	127.917	2148.39	0.02	274.67		
19-01-91	11:56:00	127.933	2148.35	-0.04	274.67		GRADIENT=.0726
19-01-91	12:35:00	128.583	2075.93	-72.42	274.67		IN LUBRICATOR.
19-01-91	12:36:00	128.600	2075.88	-0.05	274.67		
19-01-91	12:37:00	128.617	2075.88	0.00	274.67		
19-01-91	12:38:00	128.633	2075.88	0.00	274.67		
19-01-91	12:39:00	128.650	2075.87	-0.01	274.67		
19-01-91	12:40:00	128.667	2075.88	0.01	274.67		
19-01-91	12:41:00	128.683	2075.96	0.08	274.67		
19-01-91	12:42:00	128.700	2075.92	-0.04	274.67		
19-01-91	12:43:00	128.717	2075.89	-0.03	274.67		
19-01-91	12:44:00	128.733	2075.82	-0.07	274.67		
19-01-91	12:45:00	128.750	2075.81	-0.02	274.67		
19-01-91	12:46:00	128.767	2075.75	-0.06	274.67		
19-01-91	12:47:00	128.783	2075.72	-0.03	274.67		
19-01-91	12:48:00	128.800	2075.79	0.07	274.67		
19-01-91	12:49:00	128.817	2075.79	0.00	274.67		
19-01-91	12:50:00	128.833	2075.72	-0.07	274.67		END OF GRADIENT.



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

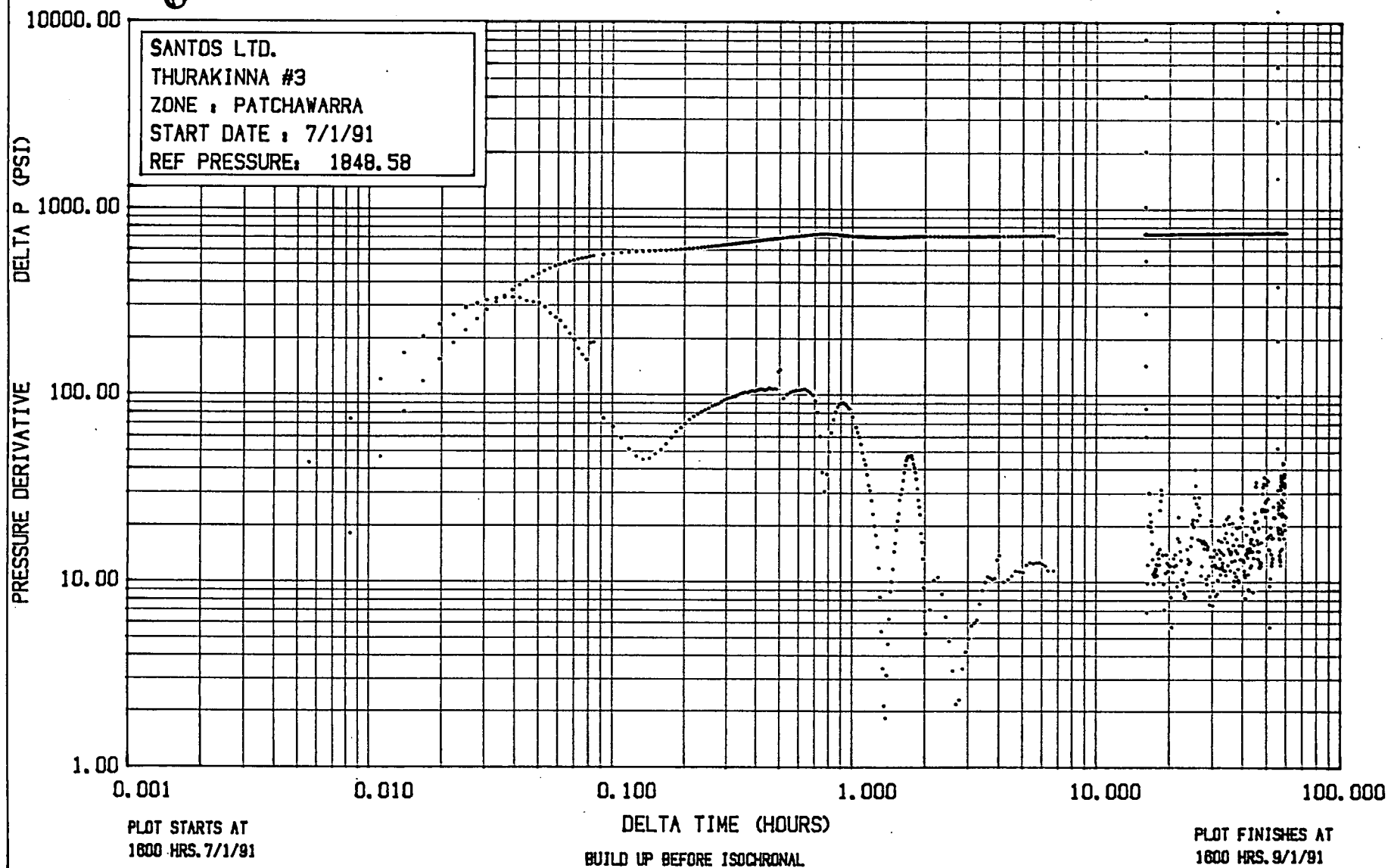
LINEAR PLOT



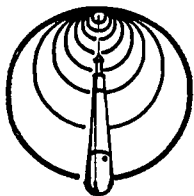


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

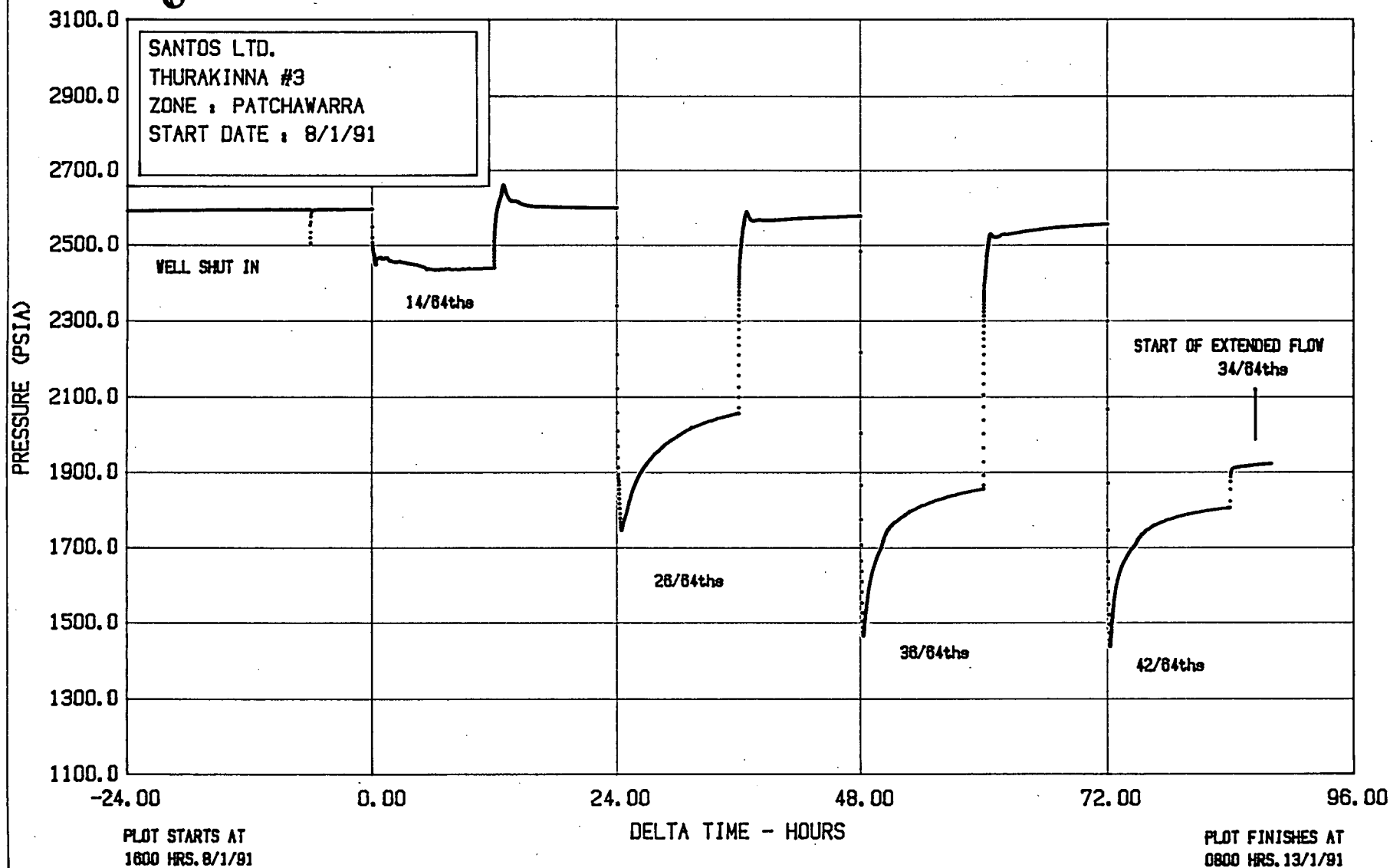
LOG-LOG PLOT

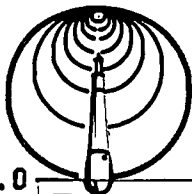


00145



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE LINEAR PLOT

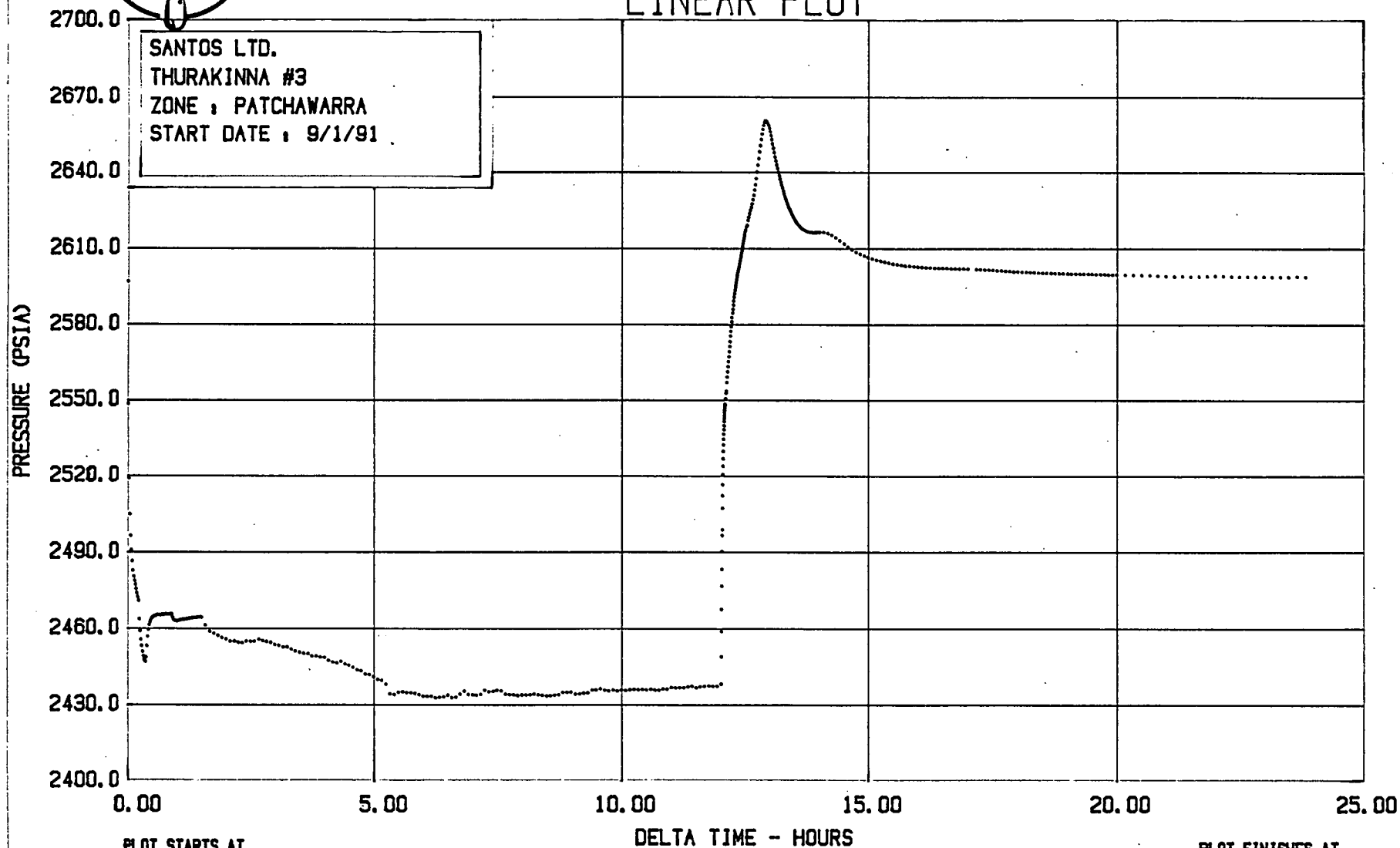




EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT

SANTOS LTD.
THURAKINNA #3
ZONE : PATCHAWARRA
START DATE : 9/1/91

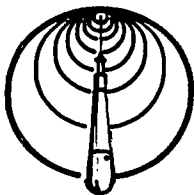


PLOT STARTS AT
1800 HRS. 9/1/91

1st FLOW RATE AND BUILD UP - 14/84th CHOKE

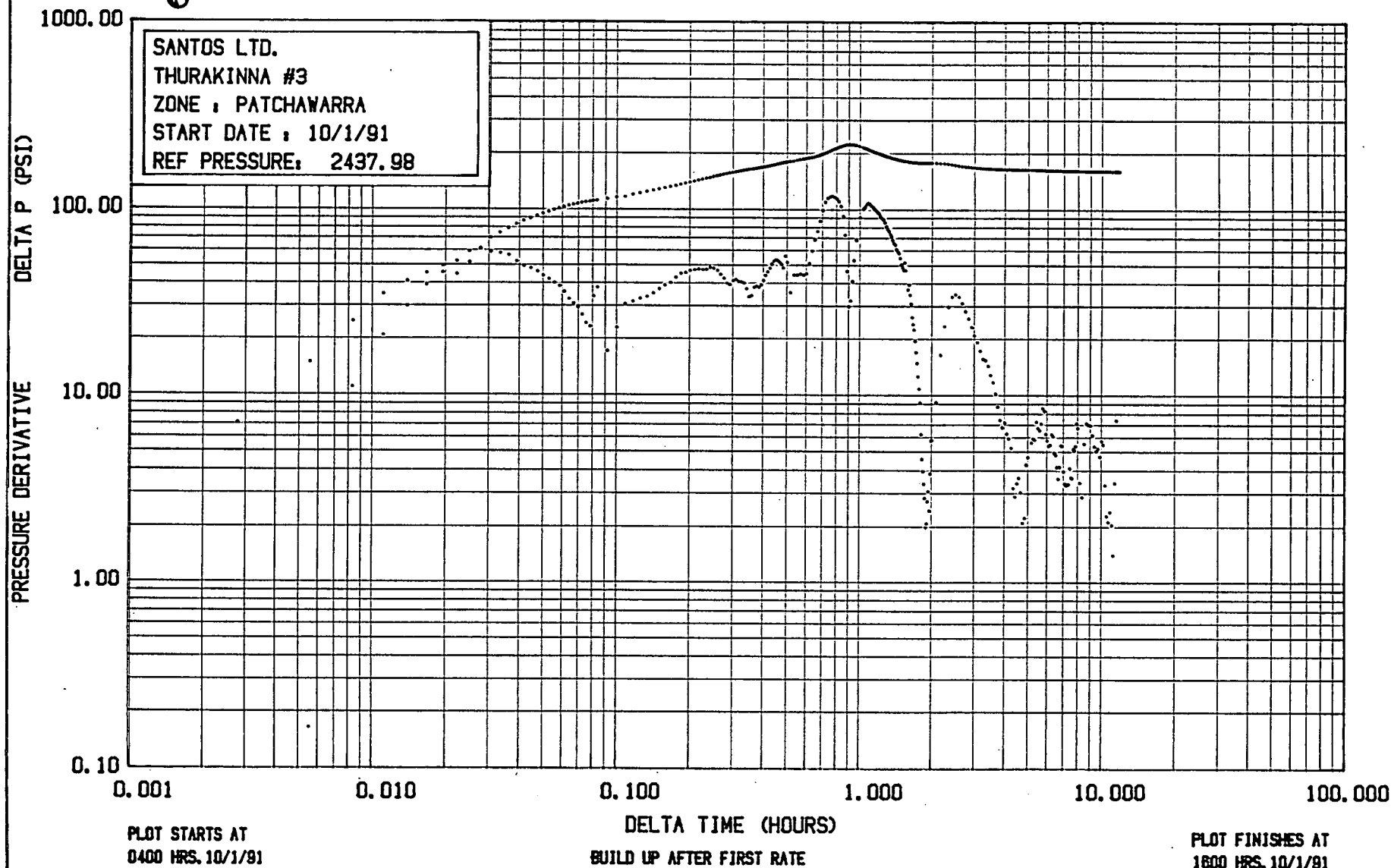
PLOT FINISHES AT
1800 HRS. 10/1/91

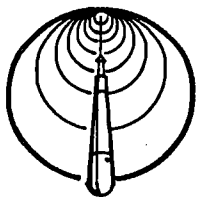
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EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

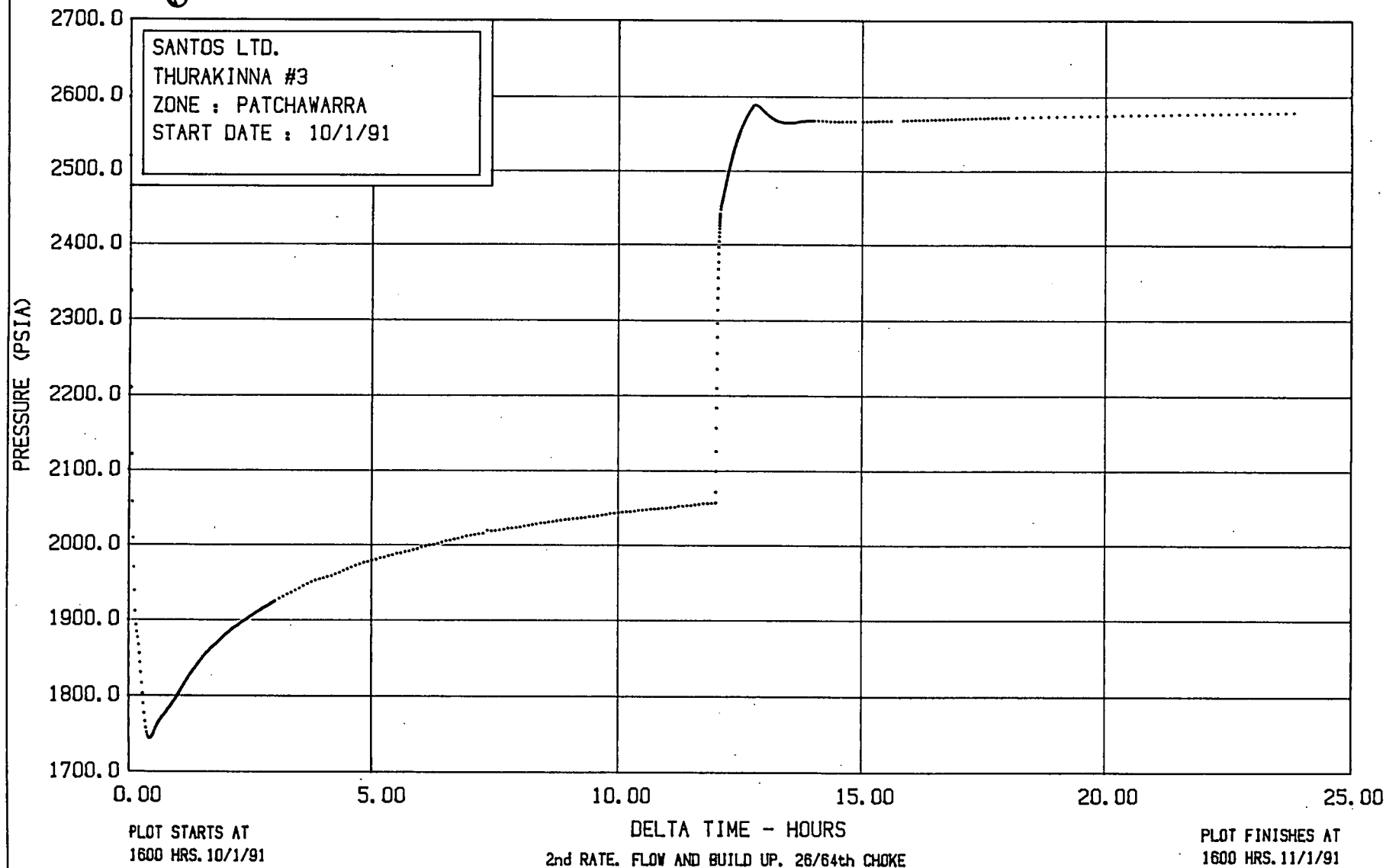
LOG-LOG PLOT



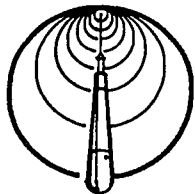


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT

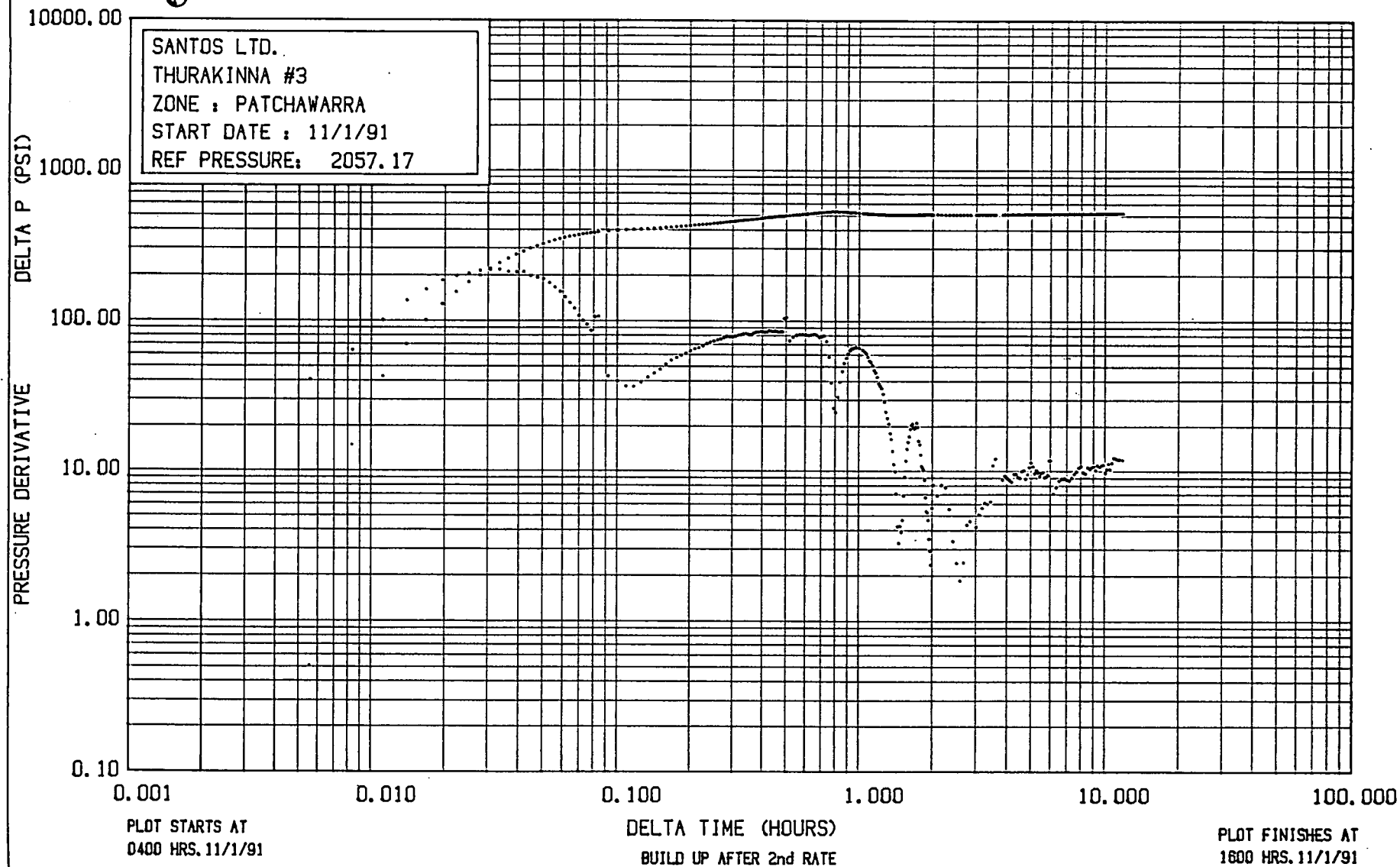


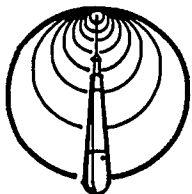
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EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

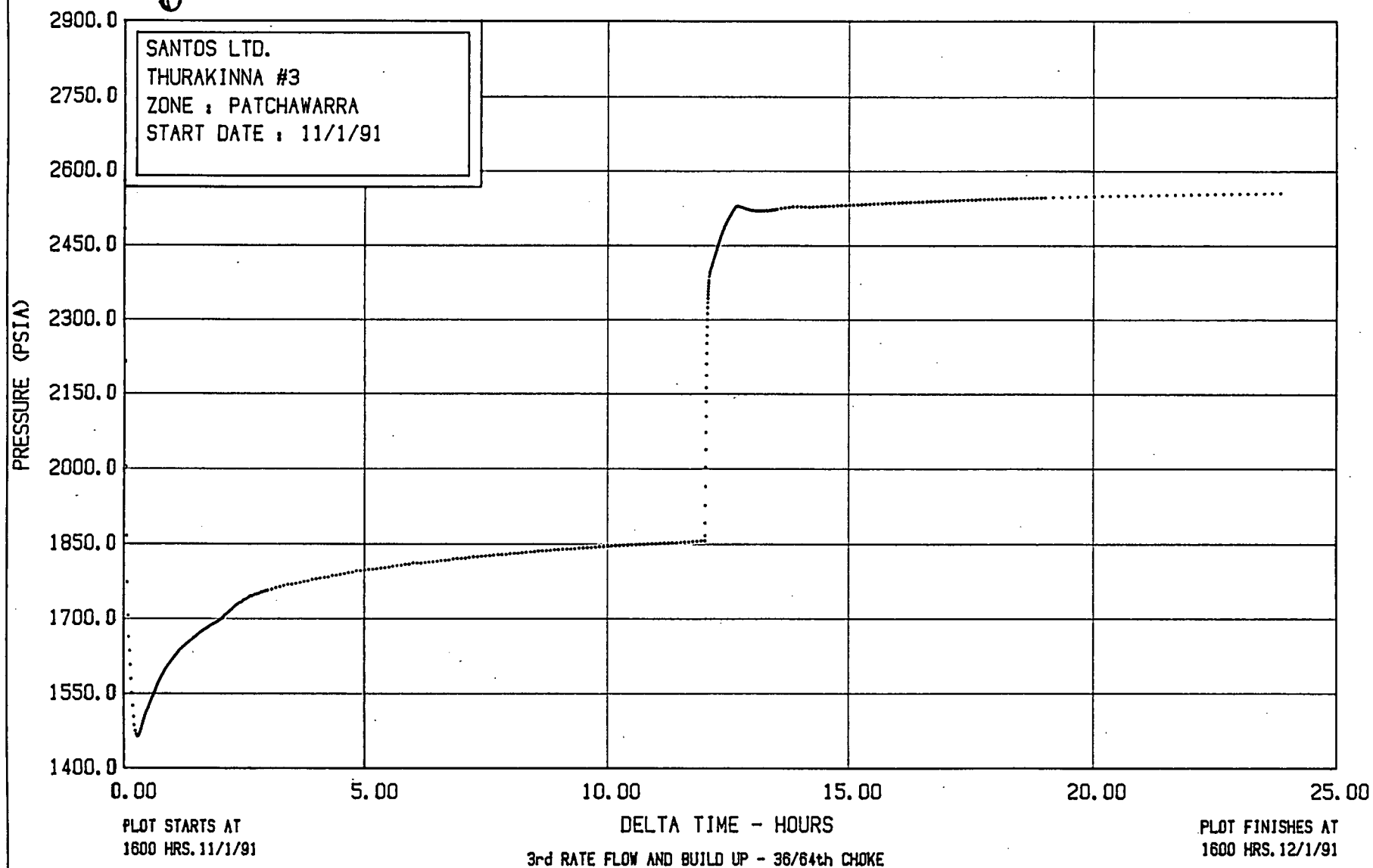
LOG-LOG PLOT



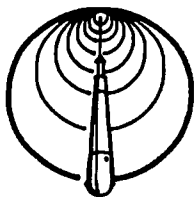


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT

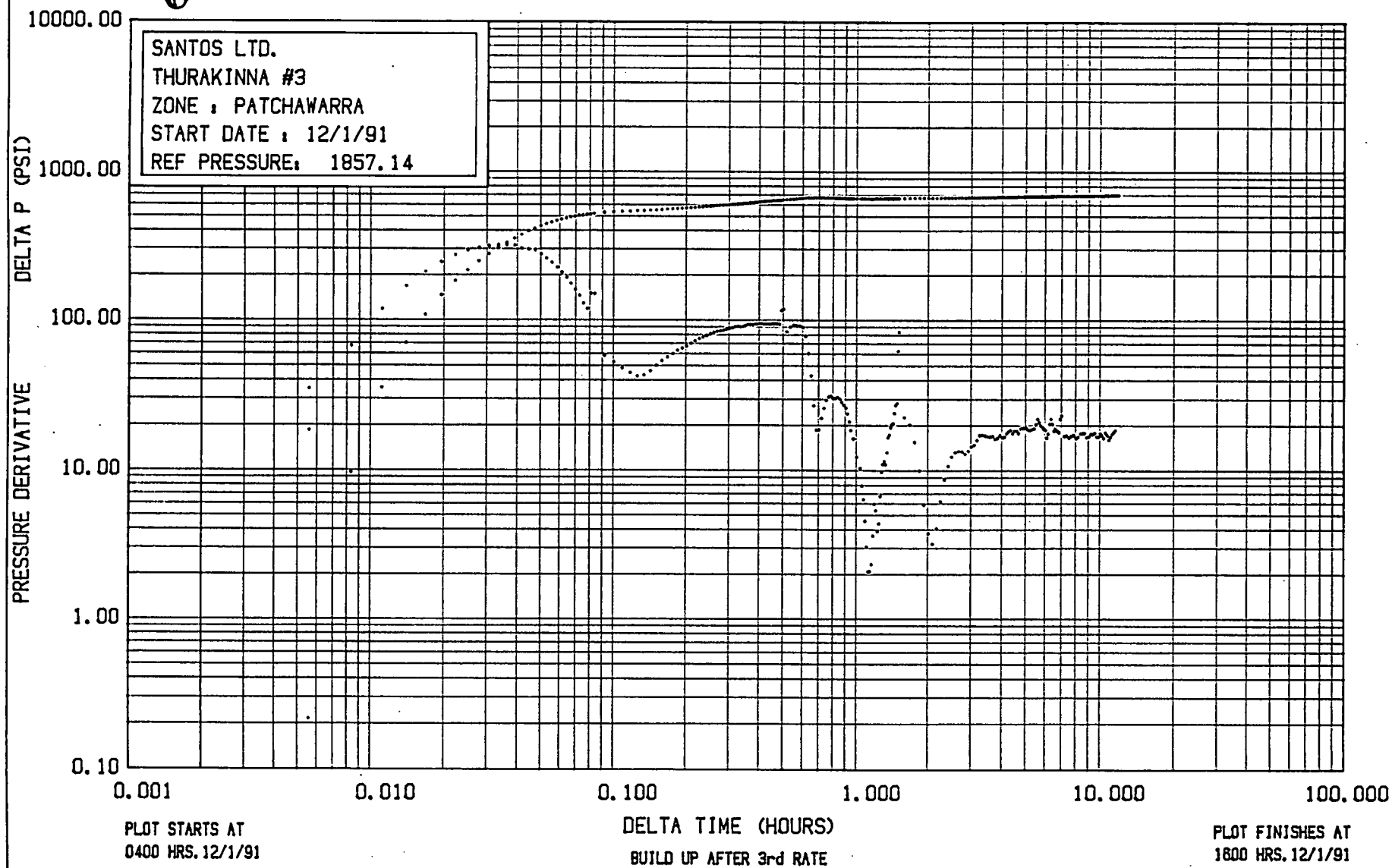


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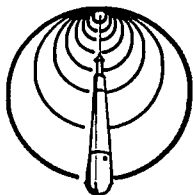


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LOG-LOG PLOT

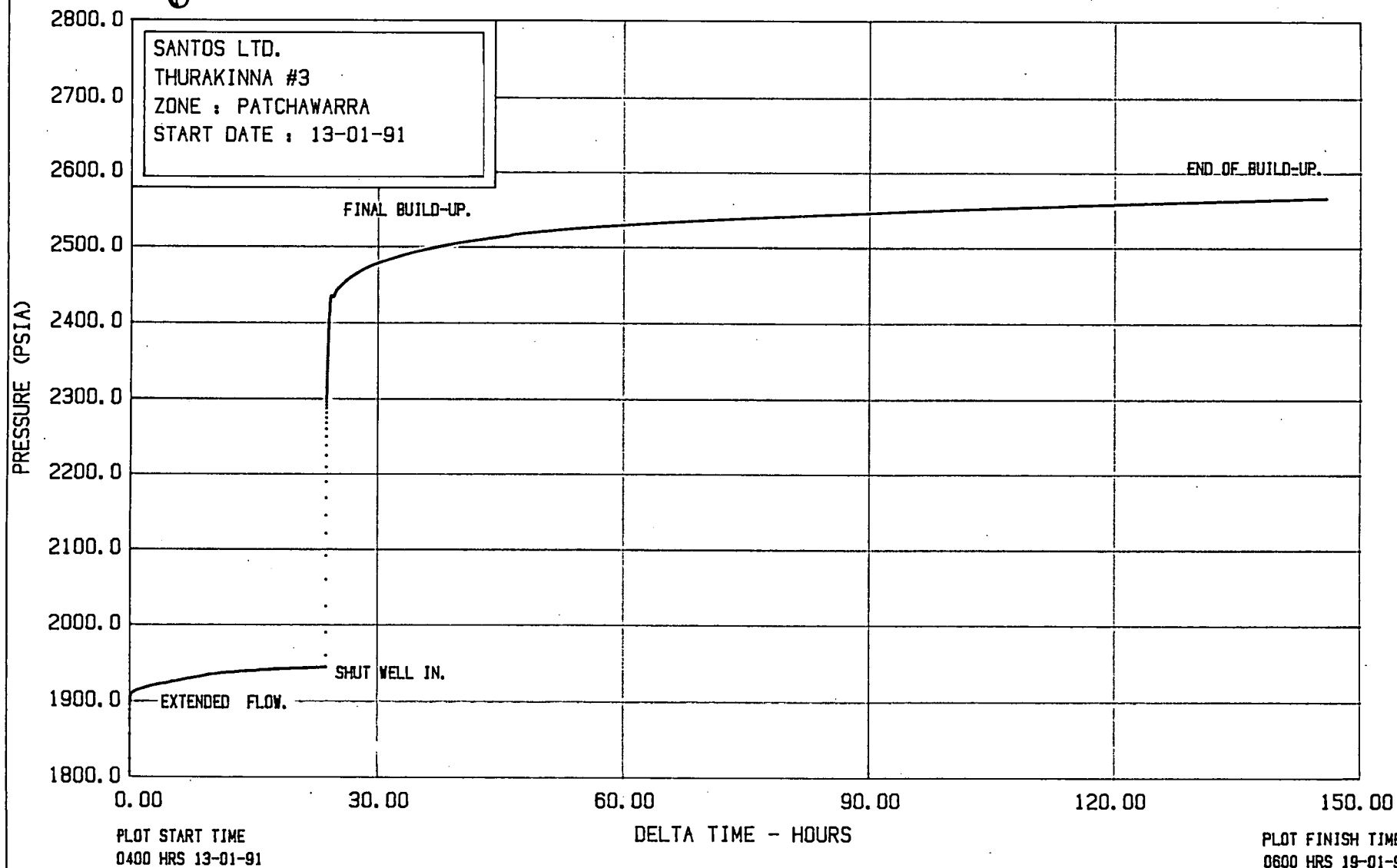


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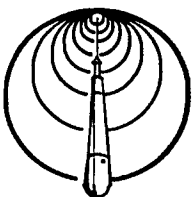


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LINEAR PLOT

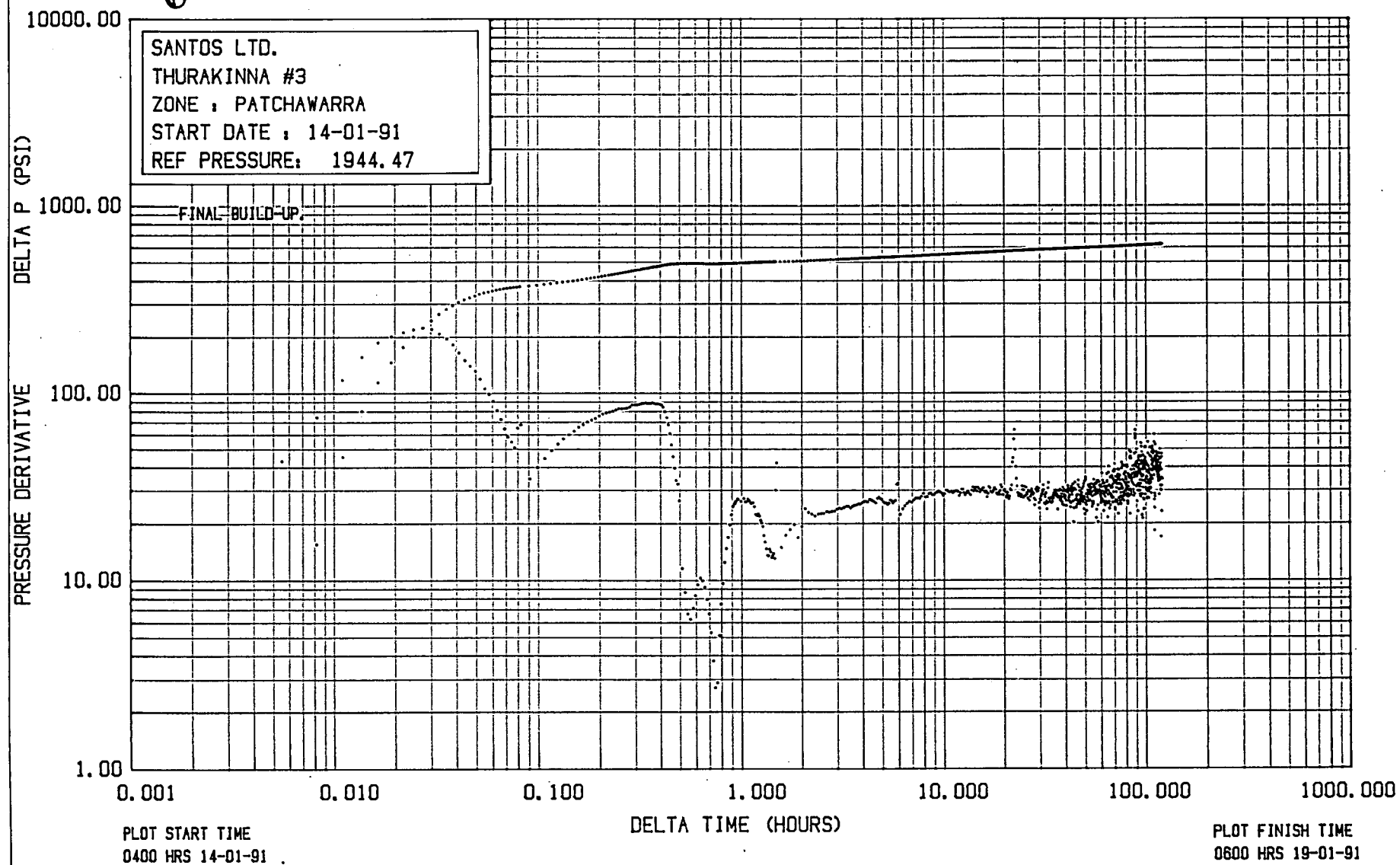


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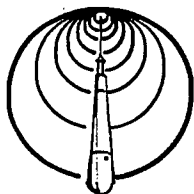


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

LOG-LOG PLOT

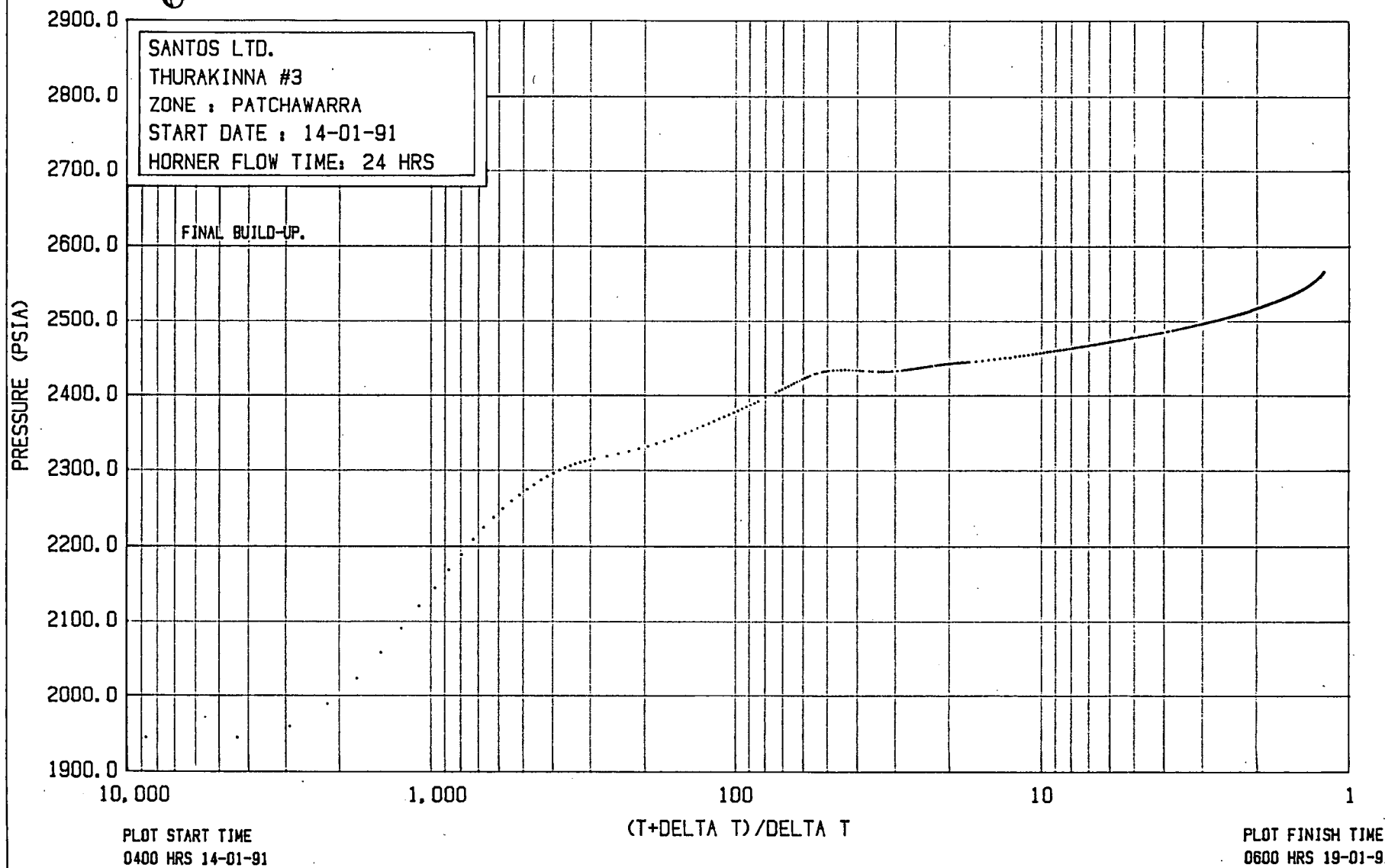


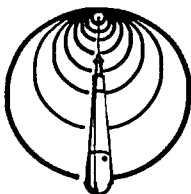
00154



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

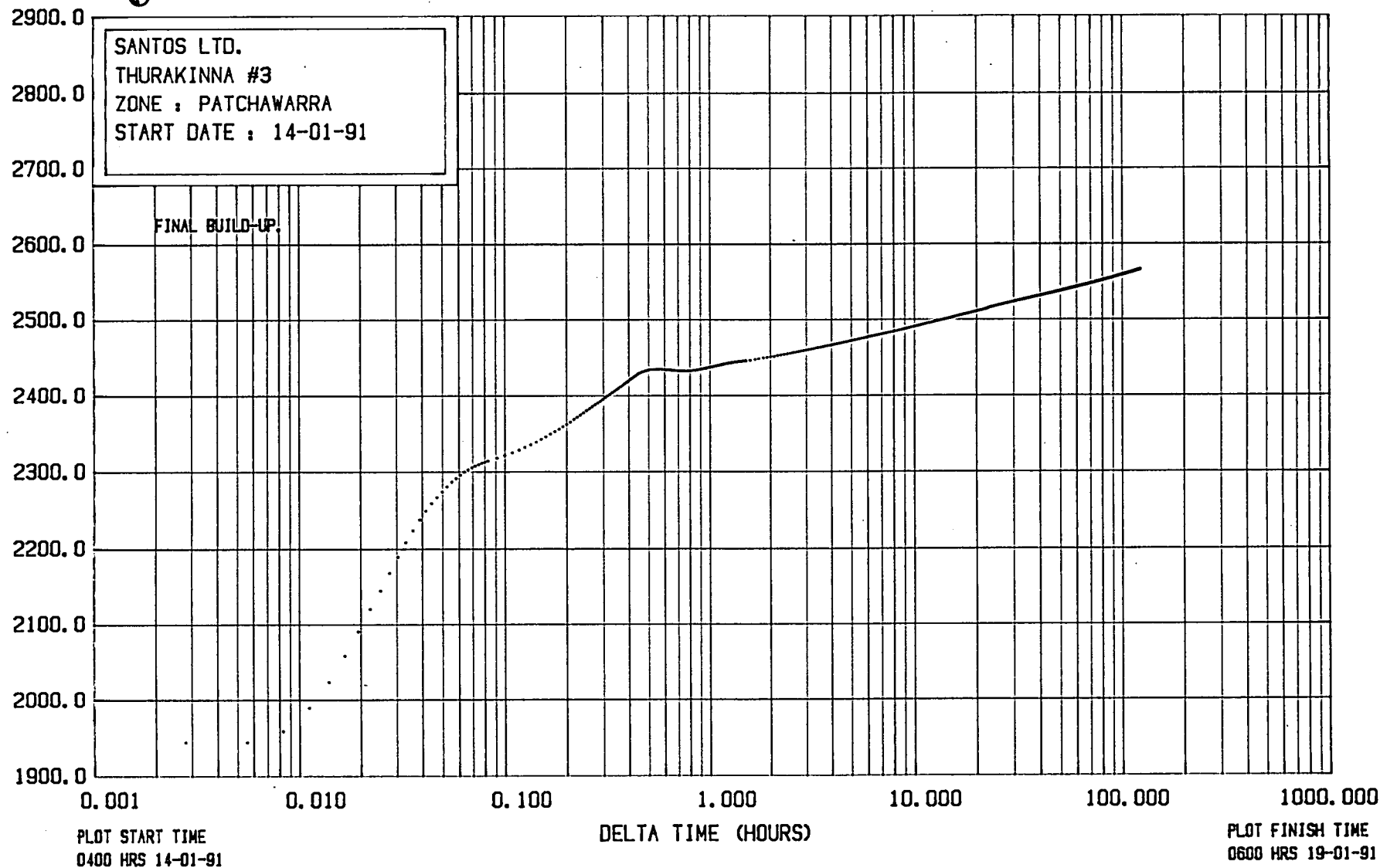
HORNER PLOT



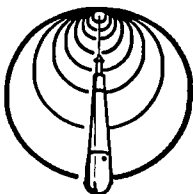


EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

SEMI-LOG PLOT

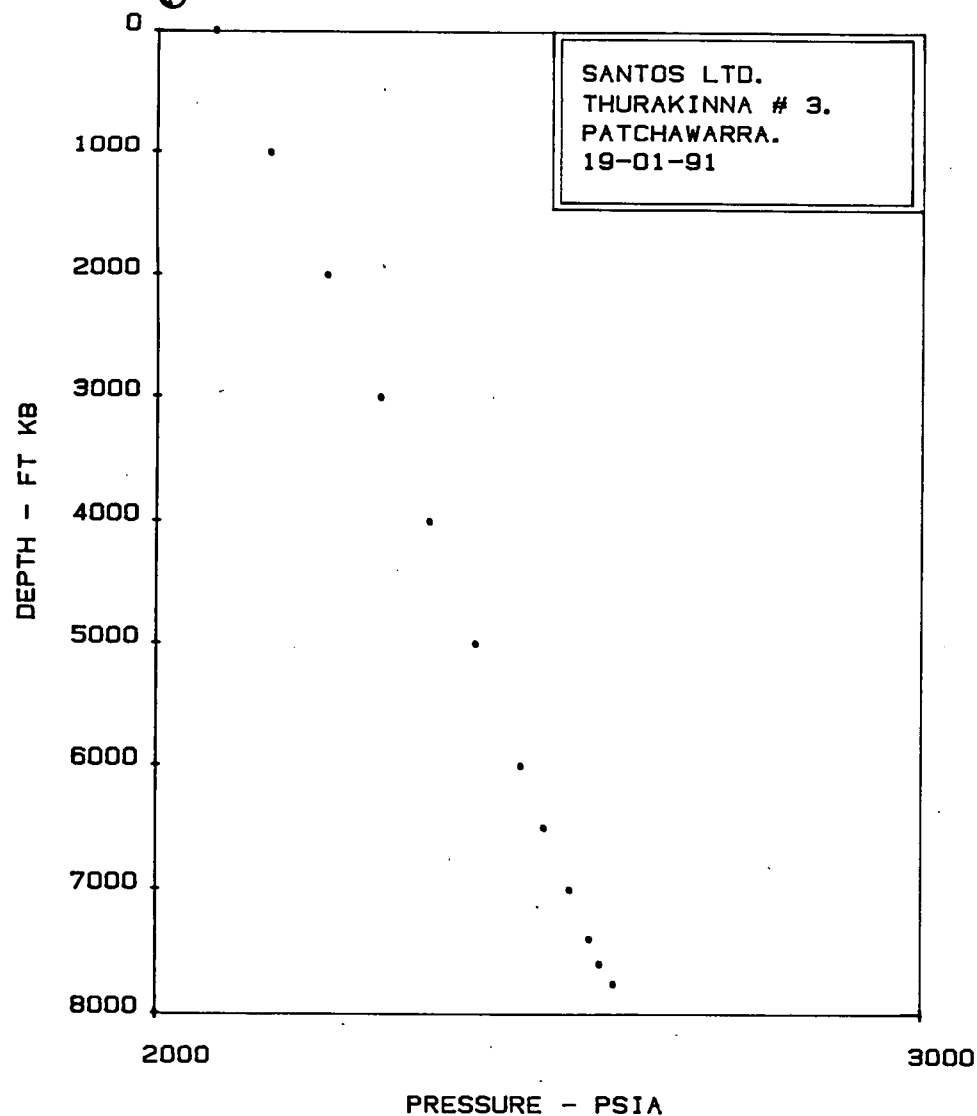


00156



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

STATIC GRADIENT SURVEY



STOP	TIME	DEPTH ('KB)	PRESSURE (PSIA)	GRADIENT (PSI/FT)
1	647	7760	2598.94	---
2	726	7596	2580.89	0.1101
3	746	7400	2567.15	0.0701
4	815	7000	2541.15	0.0650
5	846	6500	2507.46	0.0674
6	917	6000	2477.03	0.0609
7	945	5000	2418.03	0.0590
8	1024	4000	2357.11	0.0609
9	1050	3000	2291.93	0.0652
10	1117	2000	2222.39	0.0695
11	1156	1000	2148.35	0.0740
12	1250	LUB.	2075.72	0.0726

GRADIENT ON THE WAY OUT.
WITH MANUAL TEMPERATURE OF 274.67 F.

SANTOS LTD.
WELL TEST SUMMARY

Page 1.

WELL: Thurakinna # 3

TESTED BY: Expertest

CASING SIZE: 7 ins

TUBING SIZE: 2-7/8 ins

Lat.: 28° 25' 19.3" S

LOCATION: Long: 140° 00' 24.8" E

PERFORATIONS: 7454 - 7738 ft

WEIGHT: 23 & 26 lb/ft

WEIGHT: 6.5 lb/ft

DATE: 4-19/1/91

PRODUCING THROUGH: Tubing

GRADE: J55 & N80

GRADE: L80 NK3SB

FORMATION: Patchawarra

DESCRIPTION OF TEST

INITIAL SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
4/1/91	1500		14273	0		Determination of choke settings.
	2000	0	13397	0	49	Shut well in
5/1/91	1200	16	14342	0		opened well on rate #1 Mod Iso
7/1/91	0400	0	7929	21	58	Abandoned mod Iso, S.W.I.
						Well building up to 17900 kPa
9/1/91	1000	54	14473			opened well to restart test. S.I. to repair grease nipple.
	1600	60	14410	0		B.O.L. for rate #1

Flow Period

Run No.: 1 Duration of Run: 12 Hours.
Flow Well On: 14/64" Choke.

Orifice Size: 1.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	kPa psi g	kPa "w.c.	°C °F		
9/1/91	1600	0	14410	0						
	1700	1	12983	0	42	312	96	113	6.408	NIL
	1800	2	12887	0	42	300	102	123.8	6.408	"
	1900	3	12907	0	42	300	100	116.6	6.408	"
	2000	4	12963	0	42	300	102	111.2	8.010	"
	2100	5	12983	0	41	275	110	109.4	6.408	"
	2200	6	13011	0	42	270	116	109.4	4.806	"
	2300	7	13011	0	42	330	92	111.2	4.806	"
	2400	8	13080	0	42	330	93	109.4	6.408	"
10/1/91	0100	9	13094	0	42	330	94	109.4	3.204	"
	0200	10	13100	0	41	330	96	109.4	1.602	"
	0300	11	13100	0	41	330	96	109.4	4.806	"
	0400	12	13107	0	42	330	96	109.4	3.204	"

WP 2548G

7115/2

00158

SANTOS LTD.
WELL TEST SUMMARY

Page 2.

2nd SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
10/1/91	0400	0	13107	0		Shut well in
	0500	1	14873	0		
	0600	2	14645	0		
	0700	3	14583	0		
	0800	4	14548	0		
	0900	5	14548	0		
	1000	6	14548	0		
	1100	7	14548	0		
	1200	8	14535	0		
	1300	9	14521	0		
	1400	10	14542	0		
	1500	11	14521	0		
	1600	12	14514	0		Opened well on rate #2.

FLOW PERIOD

Run No.: 2 Duration of Run: 12 Hours.
Flow Well On: 26/64"Choke.

Orifice Size: 2.000 ins
Meter Run: 3.068 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
10/1/91	1600	0	14514	0	45					
	1700	1	8419	0	45	390	100	113	16.020	Nil
	1800	2	9520	0	46	405	106	111.2	6.408	3.204
	1900	3	9798	0	48	415	109	109.4	9.612	1.602
	2000	4	9984	0	47	400	116	104	4.806	1.602
	2100	5	10101	0	50	390	120	103.1	4.806	6.408
	2200	6	10232	0	51	390	124	104	4.806	1.602
	2300	7	10287	0	52	390	125	102.2	6.408	3.204
	2400	8	10356	0	53	375	132	102.2	3.204	4.806
11/1/91	0100	9	10411	7	53	365	136	102.2	4.806	1.602
	0200	10	10453	14	55	365	136	102.2	6.408	3.204
	0300	11	10508	14	55	360	139	101.3	4.806	4.806
	0400	12	10542	21	55	360	139	101.3	4.806	3.204

00159

3RD SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
11/1/91	0400	0	10542	21	55	Shut well in
	0500	1	14631	0		
	0600	2	14565	0		
	0700	3	14535	0		
	0800	4	14514	0		
	0900	5	14507	0		
	1000	6	14521	0		
	1100	7	14514	0		
	1200	8	14507	0		
	1300	9	14521	0		
	1400	10	14528	0		
	1500	11	14535	0		
	1600	12	14542	0		Opened well on rate # 3

Flow Period

Run No.: 3 Duration of Run: 12 Hours.
Flow Well On: 36/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover		Data	Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	kPa sig	kPa w.g.	°C °F		
11/1/91	1600	0	14542	0	44					
	1700	1	6909	0	49	320	122	113	9.612	9.612
	1800	2	7281	0	51	330	134	113	NIL	6.408
	1900	3	7412	0	54	320	139	111.2	6.408	6.408
	2000	4	7536	7	54	315	146	107.6	6.408	3.204
	2100	5	7653	14	56	315	150	107.6	6.408	3.204
	2200	6	7722	21	51	315	152	107.6	4.806	3.204
	2300	7	7784	21	59	315	153	107.6	3.204	8.010
	2400	8	7846	34	60	315	156	107.6	3.204	3.204
12/1/91	0100	9	7902	41	61	315	158	109.4	9.612	3.204
	0200	10	7936	41	63	315	159	109.4	4.806	4.806
	0300	11	7978	48	60	315	160	109.4	4.806	4.806
	0400	12	8005	55	62	315	161	109.4	3.204	4.806

SANTOS LTD.
WELL TEST SUMMARY

Page 4.

4TH SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			KPa	KPa	°C	
12/1/91	0400	0	8005	55	62	Shut well in
	0500	1	14397	14		
	0600	2	14411	0		
	0700	3	14404	0		
	0800	4	14411	0		
	0900	5	14411	0		
	1000	6	14417	0		
	1100	7	14431	0		
	1200	8	14431	0		
	1300	9	14431	0		
	1400	10	14445	0		
	1500	11	14459	0		
	1600	12	14459	0		opened well on rate # 4

Flow Period

Run No.: 4 Duration of Run: 12 Hours.
Flow Well On: 42/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			KPa	KPa	°C	KPa sig	KPa W.g.	°C °F		
12/1/91	1600	0	14459	0	45					
	1700	1	6116	0	52	370	133	111.2	11.214	3.204
	1800	2	6392	0	54	360	148	104	8.010	3.204
	1900	3	6523	0	56	360	153	105.8	3.204	8.010
	2000	4	6599	21	58	360	155	107.6	8.010	1.602
	2100	5	6681	21	60	360	160	107.6	6.408	4.806
	2200	6	6736	34	61	360	163	109.4	3.204	6.408
	2300	7	6785	34	62	360	165	111.2	8.010	3.204
	2400	8	6833	48	63	360	167	113	3.204	6.408
13/1/91	0100	9	6874	55	64	360	168	113	4.806	4.806
	0200	10	6895	48	64	360	169	114.8	4.806	4.806
	0300	11	6922	62	65	360	170	116.6	8.010	4.806
	0400	12	6943	69	66	360	173	116.6	3.204	3.204

WP 2548G

00161

WELL TEST SUMMARY
FINAL STABILIZATION FLOW PERIOD

Flow Period

Run No.: 5 Duration of Run: 24 Hours.
Flow Well On: 34/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.068 ins

[illegible]

SANTOS LTD.
WELL TEST SUMMARY
FINAL BUILD-UP PERIOD

Date	Time	Shut in Period (Hours)	Tubing Pressure kPa	Casing Pressure kPa	Wellhead Temp. °C	REMARKS
14/1/91	0400	0	8798	138	72	Shut well in
	0415	0.25	13714	103		
	0430	0.5	13997	90		
	0445	0.75	13997	76		
	0500	1	13990	55		
	0515	1.25	14018	48		
	0530	1.5	14031	48		
	0545	1.75	14031	34		
	0600	2	14045	34		
	0700	3	14066	21		
	0800	4	14100	14		
	0900	5	14114	7		
	1000	6	14135	7		
	1400	10	14190	0		
	1800	14	14183	0		
	2200	18	14183	0		
15/1/91	0200	22	14183	0		
	0600	26	14197	0		
	1000	30	14118	0		
	1400	34	14238	0		
	1800	38	14238	0		
	2200	42	14224	0		
16/1/91	0200	46	14238	0		
	0600	50	14238	0		
	1000	54	14286	0		
	1400	58	14293	0		
	1800	62	14307	0		
	2200	66	14266	0		
17/1/91	0200	70	14273	0		
	0600	74	14273	0		
	1000	78	14293	0		
	1400	82	14328	0		
	1800	86	14355	0		
	2200	90	14328	0		
18/1/91	0200	94	14321	0		
	0600	98	14321	0		
	1000	102	14342	0		
	1400	106	N/A	0		
	1800	110	14376	0		
	2200	114	14355	0		
19/1/91	0200	118	14355	0		
	0600	122	14355	0		End of B/up. P.O.O.H. for S.G.S.

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SANTOS LTD.
WELL TEST SUMMARY
CALCULATION SHEET

Page 8.

GAS RATES THROUGH SEPARATOR

Run No.	Hw		Pf		Size Orifice Plate		Ft	
	(kPa)	("w.g.)	(kPa)	(psig)	(mm)	(inches)	(°C)	(°F)
1	23.9	96	2275	330	31.750	1.250	43	109.4
2	34.6	139	2482	360	50.800	2.000	38.5	101.3
3	40.1	161	2172	315	57.150	2.250	43	109.4
4	43.1	173	2482	360	57.150	2.250	47	116.6
5	38.6	155	2275	330	57.150	2.250	46	114.8

Separator Gas Properties

Specific Gravity = 0.767

TC = 403.7 °R

PC = 708.8 psia

CO2 CONTENT = 10.21 mole %

Meter Run = 3.068"

GAS RATES THROUGH SEPARATOR

Run No.	Q	
	E3 m ³ /d	mmscf/d
1	44.345	1.574
2	157.841	5.602
3	212.061	7.527
4	233.509	8.288
5	211.944	7.523

WP 2548G

00165

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

WELL NAME: Thurakinna # 3DATE: 4-19/1/91ELEMENT NO: E-Line SRO GaugeDEPTH TESTED: 7400'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 E 3m ³ /d	H/Carbon Prod. m ³ /d	Water Prod. m ³ /d	REMARKS
Initial Shut In	60	2596.54	275.40	✓	—	—	—	—	$q = C(\bar{p}_R^2 - p_{wf}^2)^n$ slope n = _____ $\bar{p}_R =$ _____ psia $C = \frac{q}{(\bar{p}_R^2 - p_{wf}^2)^n}$ = _____ AOF (MMscfd) = _____
Flow 1	12	2437.98	276.98	✓	0.798		5.2065	NIL	
Shut In	12	2598.33	275.88	✓	—	—	—	—	
Flow 2	12	2057.17	273.47	✓	2.519		6.4080	2.9370	
Shut In	12	2578.61	275.06	✓	—	—	—	—	
Flow 3	12	1857.14	270.46	✓	3.200		5.2065	5.0730	
Shut In	12	2557.03	274.19	✓	—	—	—	—	
Flow 4	12	1805.88	269.88	✓	3.277		6.0075	4.5390	
Extended Flow	24	1944.47	273.81	✓	2.805		4.4055	4.4055	
Final Shut In	122	2566.28	274.67	✓	—	—	—	—	

WP 2548G

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	60	2596.54						
Flow 1	12	2437.98						
Shut In	12	2598.33						
Flow 2	12	2057.17						
Shut In	12	2578.61						
Flow 3	12	1857.14						
Shut In	12	2557.03						
Flow 4	12	1805.88						
Total=								
Extended Flow	24	1944.47						
Final Shut In	122	2566.28						

WP 2548G

GAS WELL DELIVERABILITY TEST CALCULATIONSL.I.T. (Ψ) ANALYSIS

DISCARDED POINT _____

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

$$a, a_t = \frac{\sum \frac{\Delta \Psi}{q} \sum q^2 - \sum q \sum \Delta \Psi}{N \sum q^2 - \sum q \sum q} = \underline{\hspace{2cm}}$$

$$b = \frac{N \sum \Delta \Psi - \sum q \sum \frac{\Delta \Psi}{q}}{N \sum q^2 - \sum q \sum q} = \underline{\hspace{2cm}}$$

(EXTENDED FLOW)

$$\Delta \Psi = \underline{\hspace{2cm}} q = \underline{\hspace{2cm}} b = \underline{\hspace{2cm}}$$

$$a = \frac{\Delta \Psi - bq^2}{q} = \underline{\hspace{2cm}}$$

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

Total Volume of Gas Produced During Test = _____ MMSCF

Condensate = _____ Bbls

Water = _____ Bbls

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

$$\text{i.e. } \underline{\hspace{2cm}} - \Psi_{wf} = \underline{\hspace{2cm}} q + \underline{\hspace{2cm}} q^2$$

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

$$\text{i.e. } \underline{\hspace{2cm}} - \Psi_{wf} = \underline{\hspace{2cm}} q + \underline{\hspace{2cm}} q^2$$

DELIVERABILITY:

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

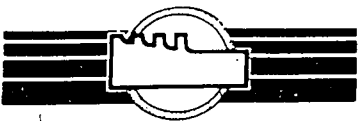
FOR $\Psi_{wf} = 0$, $q = \text{AOF} = \underline{\hspace{2cm}}$ MMscfd

REMARKS

Interpreted by:

Date:

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484-77' KB

PAGE: 1 OF 3

WELL NAME: THURAKINNA #3

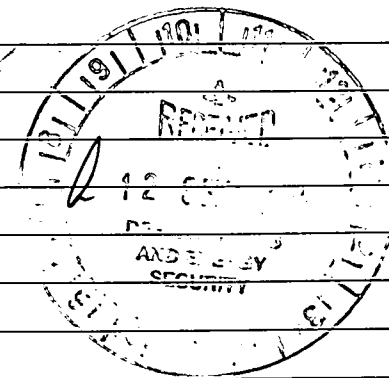
FORMATION : PATCHAWARRA

DATE: 2/1/91

TEST TYPE : MODIFIED ISOCHRONAL

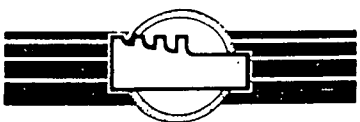
OPR : C. HILDER

DATE/TIME	DESCRIPTION OF EVENTS
2/1/91	
12:00	DEPART MOOMBA.
13:00	RAIN AT DARALINGIE DELAYS PROGRESS. STOP OPERATIONS UNTIL ROADS PASSABLE.
14:30	CONTINUE TO LOCATION.
15:00	ARRIVE ON LOCATION. COMMENCE RIGGING UP. WELL FLOWING IN LINE. ADVISE MOOMBA.
16:00	S.W.I. COMPLETE RIG UP.
16:40	R.I.H. 1.75" BLIND BOX.
17:00	TAG PBTD @ 7835'KB. P.O.O.H. PERFORATIONS CLEAR.
17:20	AT SURFACE. SECURE EQUIPMENT.
3/1/91	
11:00	DEPART MOOMBA.
12:00	ARRIVE ON LOCATION.
13:00	COMMENCE RIG UP.
14:30	PRESS LUB. R.I.H. WITH CCL.
15:00	CORRELATE TO END OF TUBING. 10' STRETCH CORRECTED FOR.
15:30	P.O.O.H.
16:05	AT SURFACE.
16:15	RIG OUT CCL. RIG IN HP GAUGE #599.
16:20	PRESS LUB.
16:30	DEPRESS LUB.
16:40	DEPART LOCATION.



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EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'

PAGE: 2 OF 3

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

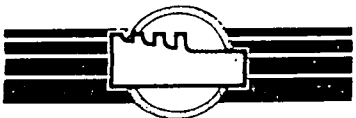
DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

DATE/TIME	DESCRIPTION OF EVENTS
4/1/91	
07:00	ON LOCATION. FINISH RIGGING IN TEST EQUIPMENT. PRESSURE TEST TO F.S.I. W.H.P.
09:00	PREPARE AMERADA GAUGE AND H.P. GAUGE.
12:40	PRESSURE LUB.
14:00	R.I.H.
14:35	ON DEPTH @ 7400'KB AS PER PROGRAM.
15:00	OPEN ON FLOW TO SEP. TO ESTABLISH RATES FOR ISOCHRONAL TEST. REFER TO TEST RESULTS DATA.
20:00	SHUT IN ON BUILD UP. MONITOR BUILD UP.
5/1/91	
12:00	OPEN ON RATE #1.
20:00	SHUT IN FOR BUILD UP. END OF RATE #1.
6/1/91	
04:00	OPEN ON RATE #2.
12:00	END OF RATE #2. SHUT IN FOR BUILD UP.
20:00	OPEN ON RATE #3.
7/1/91	
04:00	SHUT IN. END OF RATE #3.
10:00	NOTE: P.E. DECIDED TO LET WELL BUILD UP TO 17900 KPA B.H.P. AND RE-START TEST. MONITOR BUILD UP.
9/1/91	
10:00	OPEN ON FLOW TO RE-START TEST. BLEW OUT GREASE NIPPLE ON LOW TORQUE VALVE ON HEATER. SHUT IN TO REPAIR LEAK.
16:00	OPEN WELL ON 14/64" FOR RTAE #1.
10/1/91	
04:00	SHUT WELL IN FOR 12 HRS BUILD UP.
16:00	OPEN WELL ON 26/64" FOR RATE #2.

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'

PAGE: 3 OF 3

WELL NAME: THURAKINNA #3

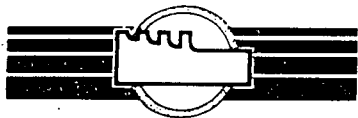
FORMATION : PATCHAWARRA

DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

DATE/TIME	DESCRIPTION OF EVENTS
11/1/91	
04:00	SHUT WELL IN FOR 12 HRS. BUILD UP.
16:00	OPEN WELL ON 36/64" FOR RATE #3.
12/1/91	
04:00	SHUT WELL IN FOR 12 HRS. BUILD UP.
16:00	OPEN WELL ON 42/64" FOR RATE #4.
13/1/91	
04:00	CUT CHOKE TO 34/64" FOR EXTENDED FLOW.
20:00	START TAKING HP SAMPLES.
21:35	SAMPLINGS COMPLETED.
14/1/91	
04:00	SHUT WELL IN FOR FINAL BUILD UP. RIG OUT SEPARATOR AND MOVE OUT OF LOCATION. E-LINE MONITOR FINAL BUILD UP.
15/1/91	
02:50	TEMPERATURE BOARD FAILED. USE MANUAL TEMPERATURE.
06:00	END OF BUILD UP.
06:15	PULL OUT OF HOLE. PERFORM S.G.S. TO SURFACE.
12:10	ARRIVE IN LUBRICATOR.
13:10	DEPRESSURE LUBRICATOR. RIG DOWN E-LINE EQUIPMENT. WELL BACK TO PRODUCTION. END OF TEST.



CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 1 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARBA

DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE KPa	ANNULUS PRESSURE KPa	WELLHEAD TEMP °C	CHOKE SIZE	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)
4/1/91							1ST APPROX DRAW DOWN 5516KPA				5	2		3
15:00	0	14273	0				OPEN ON FLOW TO ESTABLISH RATES. CHOKE 18/64.							
15:10	0.17	9791	0				OPEN CHOKE TO 32/64. ON BY-PASS SEP TO FLARE.							
15:15	0.25	8433	0	41			OPEN CHOKE TO 34/64.							
15:18	0.28						OPEN CHOKE TO 38/64.							
15:25	0.42	6688	0		38									
15:30	0.50	6647	0	43	42		OPEN CHOKE ON 42/64" TRIM THROUGH SEPARATOR.							
15:45	0.75	5902	0	43	42		2.25	335	189	97	DUMPING FLUID.			
16:00	1	5888	0	44	42		2.25	340	192	99	6.5	3.5		3
16:00	1						CUT CHOKE TO 32/64" AND APPROX DRAW DOWN 8274KPA.							
16:30	1.5	8674	0	47	32		2.25	335	154	108	OPEN CHOKE TO 34/64".			
17:00	2	8246	0	48	34		2.25	335	175	111	10	7		3
17:00	2						CUT CHOKE TO 28/64" 3RD APPROX DRAW DOWN 10343 KPA.							
17:15	2.25	9991	0	49	28		OPEN CHOKE TO 26/64".							
17:30	2.50	10425	0	49	26		2.25	325	116	111				
18:00	3	10474	0	51	26		2.25	325	116	113	12.5	9.5		3
18:00	3						CUT CHOKE TO 21/64" 4TH APPROX DRAW DOWN 12066KPA.							
18:30	3.5	11900	0	51	21		2.25	315	72	111				
19:00	4	11915	0	51	21		2.25	315	72	111	13.5	10.5		3
19:00	4						CUT CHOKE TO 17/64" 5TH APPROX DRAW DOWN 13445 KPA.							
19:05	4.08						CUT CHOKE TO 14/64".							
19:30	4.50	13376	0	50	14		2.25	300	21	109				

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EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 2 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	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)	
4/1/91											13.5	10.5		3	
20:00	5	13397	0	49	14		2.25	300	21	109	14	11		3	
							SHUT IN FOR BUILD UP.								
							REFER TO TEST RESULTS SHEETS.								
5/1/91							OPEN WELL ON 14/64" FOR RATE #1				12.5	9.5		3	
12:00	0	14342	0												
12:15	0.25	13342	0		14		TRIM THROUGH SEPARATOR.								
12:30	0.50	12804	0	37	14		2.0	330	13	100					
13:00	1	13004	0	38	14		1.25	340	106	111	13	10		3	
13:30	1.5	13307	0	38	14		1.25	335	118	118					
14:00	2	13334	0	38	14		1.25	330	132	120	15.5	12.5		3	
14:30	2.5	13376	0	38	14		1.25	330	130	120					
15:00	3	13376	0	38	14		1.25	330	129	118	15.5	12.5		3	
15:30	3.5	13376	0	38	14		1.25	330	129	115					
16:00	4	13376	0	38	14		1.25	330	129	113	15.5	12.5		3	
16:30	4.5	13383	0	39	14		1.25	330	129	111					
17:00	5	13390	0	39	14		1.25	330	129	110	16	13		3	
17:30	5.5	13342	0	39	14		1.25	330	129	108					
18:00	6	13307	0	40	14		1.25	330	129	109	16	13		3	
18:30	6.5	13238	0	40	14		1.25	330	128	111					
19:00	7	13204	0	40	14		1.25	320	128	111	16.5	13.5		3	
19:30	7.5	13169	0	39	14		1.25	320	127	111					



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 3 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

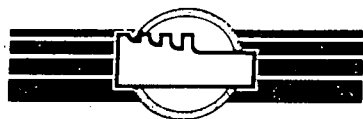
DATE: 5/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	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)	
5/1/91															
20:00	8	13135	0	39	14		1.25	315	127	111	17	14	50.8	3	
							SHUT IN FOR BUILD UP. END OF RATE #1.								
							REFER TO TEST RESULT DATA.								
04:00	0	14411	0				OPEN WELL COMMENCE RATE #2.								
04:05	0.08	13425	0		14		OPEN CHOKE TO 18/64.								
04:10	0.17	11997	0		18		OPEN CHOKE TO 22/64".								
04:15	0.25	10398	0		22		OPEN CHOKE TO 24/64. TRIM THROUGH SEPARATOR.								
04:20	0.33	9308	0		24		OPEN CHOKE TO 26/64.								
04:30	0.50	8757	0	36	26		1.75	340	184	82					
05:00	1	9212	0	39	26		2.0	345	108	97	19	16		3	
05:30	1.5	9515	0	41	26		2.0	345	116	93					
06:00	2	9715	0	42	26		2.0	345	122	95	20.5	17.5		3	
06:30	2.5	9853	0	43	26		2.0	340	127	95					
07:00	3	9970	0	44	26		2.0	345	128	100	22.5	19.5		3	
07:30	3.5	10067	0	44	26		2.0	345	130	102					
08:00	4	10129	0	45	26		2.0	350	130	95	24	20.5		3.5	
08:30	4.5	10198	0	45	26		2.0	350	132	97					
09:00	5	10260	0	46	26		2.0	355	132	99	25.5	21.5		4	
09:30	5.5	10322	0	46	26		2.0	360	133	100					
10:00	6	10349	0	48	26		2.0	360	134	100	27	22.5		4.5	
10:30	6.5	10391	0	48	26		2.0	360	134	100					

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720' KB

PAGE: 4 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	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)	
6/1/91															
11:00	7	10432	0	49	26		2.0	365	134	102	28.5	23.5		5	
11:30	7.5	10529	0	49	26		2.0	370	135	104					
12:00	8	10570	0	50	26		2.0	370	136	104	30	24		6	
							END OF RATE #2. REFER TO TEST RESULTS DATA.								
20:00	0	14473	0		23		OPEN WELL COMMENCE RATE #3				30	24		6	
20:05	0.08	11515	0		23		OPEN CHOKE TO 32/64". TRIM THROUGH SEPARATOR.								
20:10	0.17	8067	0		32		OPEN CHOKE TO 36/64".								
20:15	0.25	6405	0	39	36										
20:30	0.50	6392	0	42	36		2.25	320	96	84					
21:00	1	6867	0	44	36		2.25	320	110	82	32.5	26		6.5	
21:30	1.5	7171	0	46	36		2.25	320	122	93					
22:00	2	7357	0	48	36		2.25	325	130	102	34	27		7	
22:30	2.5	7412	0	49			2.25	325	132	104					
23:00	3	7481	0	50	36		2.25	325	134	104	36	28.5		7.5	
23:30	3.5	7543	0	49	36		2.25	325	137	106					
24:00	4	7626	0	53	36		2.25	325	140	106	37.5	29.5		8	
7/1/91															
00:30	4.5	7688	0	54	36		2.25	325	142	106					
01:00	5	7730	0	55	36		2.25	320	145	108	40	31		9	
01:30	5.5	7757	0	55			2.25	320	146	108					
02:00	6	7805	7	56	36		2.25	325	146	108	42	32.5		9.5	

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EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 5 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

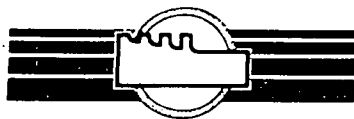
DATE: 7/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE KPa	ANNULUS PRESSURE KPa	WELLHEAD TEMP °C	CHOKE SIZE	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)
7/1/91														
02:30	6.5	7846	14	56	36		2.25	320	149	108				
03:00	7	7881	14	57	36		2.25	320	151	108	44.5	34		10.5
03:30	7.5	7909	21	57	36		2.25	325	151	108				
04:00	8	7929	21	58	36		2.25	325	152	108	46	35		11
							END OF RATE #3. SHUT IN FOR BUILD UP.							
9/1/91														
16:00	0						OPEN WELL ON 14/64" FOR RATE #1				44.25	32.25		12
16:30	.5	12949	0	36	14		1.25	310	96	96.8				
17:00	1	12983	0	42	14		1.25	312	96	113	45.25	33.25		12
17:30	1.5	12956	0	42	14		1.25	315	100	132.8				
18:00	2	12887	0	42	14		1.25	300	102	123.8	46.25	34.25		12
19:00	3	12907	0	42	14		1.25	300	100	116.6	47.25	35.25		12
20:00	4	12963	0	42	14		1.25	300	102	111.2	48.5	36.5		12
21:00	5	12983	0	41	14		1.25	275	110	109.4	49.5	37.5		12
22:00	6	13011	0	42	14		1.25	270	116	109.4	50.25	38.25		!@
22:00							INCREASE SEPARATOR PRESSURE TO 330 PSI.							
23:00	7	13011	0	42	14		1.25	330	92	111.2	51	39		12
24:00	8	13080	0	42	14		1.25	330	93	109.4	52	40		12
10/1/91														
01:00	9	13094	0	42	14		1.25	330	94	109.4	52.5	40.5		12
02:00	10	13100	0	41	14		1.25	330	96	109.4	52.75	40.75		12

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 6 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 10/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa)	ANNULUS PRESSURE /KPa)	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
10/1/91														
03:00	11	13100	0	41	14		1.25	330	96	109.4	53.5	41.5		12
04:00	12	13107	0	42	14		1.25	330	96	109.4	54	42		12
04:00							SHUT WELL IN FOR BUILD UP.							
							FOR BUILD UP READING SEE TEST RESULTS DATA.							
16:00	0	14514	0	45	0		OPEN WELL ON 26/64" CHOKE FOR RATE #2.							
16:30	.5	8798	0	43	26		2.00	360	94	104				
17:00	1	8419	0	45	26		2.00	390	100	113	56	44		12
17:30	1.5	9356	0	45	26		2.00	390	103	107.6				
18:00	2	9522	0	46	26		2.00	405	106	111.2	57.5	45		12.5
19:00	3	9798	0	48	26		2.00	415	109	109.4	59.25	46.5		12.75
20:00	4	9984	0	47	26		2.00	400	116	104	60.25	47.25		13
21:00	5	10101	0	50	26		2.00	390	120	103.1	62	48		14
22:00	6	10232	0	51	26		2.00	390	124	104	63	48.75		14.25
23:00	7	10287	0	52	26		2.00	390	125	102.2	64.5	49.75		14.75
24:00	8	10356	0	53	26		2.00	375	132	102.2	65.75	50.25		15.5
11/1/91														
01:00	9	10411	7	53	26		2.00	365	136	102.2	66.75	51		15.75
02:00	10	10453	14	55	26		2.00	365	136	102.2	68.25	52		16.25
03:00	11	10508	14	55	26		2.00	360	139	101.3	69.75	52.75		17
04:00	12	10542	21	55	26		2.00	360	139	101.3	71	53.5		17.5
04:00							SHUT WELL IN FOR BUILD UP							

EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 7 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

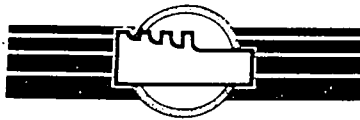
DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE KPa	ANNULUS PRESSURE /KPa	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)
11/1/91							FOR BUILD UP READINGS SEE TEST RESULTS DATA.							
											70.5	53		17.5
16:00	0	14542	0	44	0		OPEN WELL ON 36/64" CHOKE FOR RATE #3.							
16:30	0.5	6619	0	47	36		2.25	300	115	109.4				
17:00	1	6909	0	49	36		2.25	320	122	113	73.5	54.5		19
17:30	1.5	7136	0	50	36		2.25	328	128	113				
18:00	2	7281	0	51	36		2.25	330	134	113	74.5	54.5		20
19:00	3	7412	0	54	36		2.25	320	139	111.2	76.5	55.5		21
20:00	4	7536	7	54	36		2.25	315	146	107.6	78	56.5		21.5
21:00	5	7653	14	56	36		2.25	315	150	107.6	79.5	57.5		22
22:00	6	7722	21	57	36		2.25	315	152	107.6	80.75	58.25		22.5
23:00	7	7784	21	59	36		2.25	315	153	107.6	82.5	58.75		23.75
24:00	8	7846	34	60	36		2.25	315	156	107.6	83.5	59.25		24.25
12/1/91														
01:00	9	7902	41	61	36		2.25	315	158	109.4	85.5	60.75		24.75
02:00	10	7936	41	63	36		2.25	315	159	109.4	87	61.5		25.5
03:00	11	7978	48	60	36		2.25	315	160	109.4	88.5	62.25		26.25
04:00	12	8005	55	62	36		2.25	315	161	109.4	89.75	62.75		27
04:00							SHUT WELL IN FOR BUILD UP.							
							FOR BUILD UP READINGS SEE TEST RESULT DATA.							

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 8 OF 10

WELL NAME: THURAKINNA #3

FORMATION: PATCHAWARRA

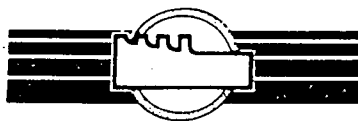
DATE: 12/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	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)
12/1/91											88.5	62.75		25.75
16:00	0	14459	0	45	0		OPEN WELL ON 42/64" CHOKE FOR RATE #4.							
16:30	.5	5902	0	50	42		2.25	360	126	107.6				
17:00	1	6116	0	52	42		2.25	370	133	111.2	90.75	64.5		26.25
17:30	1.5	6302	0	54	42		2.25	360	144	109.4				
18:00	2	6392	0	54	42		2.25	360	148	104	92.5	65.75		26.75
19:00	3	6523	0	56	42		2.25	360	153	105.8	94.25	66.25		28
20:00	4	6599	21	58	42		2.25	360	155	107.6	95.75	67.5		28.25
21:00	5	6681	21	60	42		2.25	360	160	107.6	97.5	68.5		29
22:00	6	6736	34	61	42		2.25	360	163	109.4	99	69		30
23:00	7	6785	34	62	42		2.25	360	165	111.2	100.75	70.25		30.5
24:00	8	6833	48	63	42		2.25	360	167	113	102.25	70.75		31.5
13/1/91														
01:00	9	6874	55	64	42		2.25	360	168	113	103.75	71.5		32.25
02:00	10	6895	48	64	42		2.25	360	169	114.8	105.25	72.25		33
03:00	11	6922	62	65	42		2.25	360	170	116.6	107.25	73.5		33.75
04:00	12	6943	69	66	42		2.25	360	173	116.6	108.25	74		34.25
04:00							CUT CHOKE SIZE TO 34/64" FOR EXTENDED FLOW.							

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 9 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa)	ANNULUS PRESSURE /KPa)	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
13/1/91											108.25	74		34.25
04:00	0	6943	69	66	42		2.25	CUT CHOKE TO 34/64" FOR			EXTENDED	FLOW		
04:30	.5	8612	76	65	34		2.25	315	152	107.6				
05:00	1	8633	76	66	34		2.25	315	153	105.8	109.75	74.5		35.25
05:30	1.5	8639	76	66	34		2.25	315	153	105.8				
06:00	2	8639	76	67	34		2.25	315	153	107.6	111.25	75.5		35.75
07:00	3	8653	76	67	34		2.25	320	153	109.4	112.5	76		36.5
08:00	4	8653	76	67	34		2.25	320	153	109.4	114	77		37
09:00	5	8680	83	66	34		2.25	325	154	109.4	115.75	78		37.75
10:00	6	8694	90	67	34		2.25	330	154	111.2	117.25	78.75		38.5
11:00	7	8701	96	67	34		2.25	330	154	113	119.25	79.75		39.5
12:00	8	8715	103	67	34		2.25	330	154	122	120.5	80.5		40
13:00	9	8722	103	68	34		2.25	330	154	129.2	122	81.5		40.5
14:00	10	8736	103	68	34		2.25	330	154	129.2	123.5	82.5		41
15:00	11	8749	103	69	34		2.25	330	155	123.8	125	83.5		41.5
16:00	12	8763	110	68	34		2.25	330	155	123.8	126	84		42
17:00	13	8763	110	69	34		2.25	330	155	120.2	126.5	84		42.5
18:00	14	8770	110	70	34		2.25	330	155	120.2	128	85		43
19:00	15	8770	117	69	34		2.25	330	154	114.8	130	86		44
20:00	16	8770	117	70	34		2.25	330	154	113	131	86.5		44.5
21:00	17	8777	124	69	34		2.25	330	154	113	132	87		45

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	PERFORAT
	FORMATION

PERFORATIONS: 7484'-7720' KB

PAGE: 10 OF 10

FORMATION : PATCHAWARRA

DATE: 13/1/91

OPR : I. KURASIAK

OPR : I. KURASIAK

[illegible]



CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720' KB

PAGE: 1 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

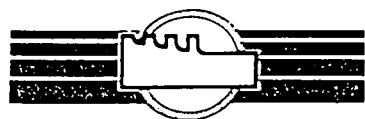
DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R.LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64 TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
4/1/91		1ST APPROX DRAW DOWN 5516 KPA.													
15:00	0	14273	0					E-LINE GAUGES HANGING @ 7400' KB. OPEN WELL ON 18/64" CHOKE TO ESTABLISH RATES.							
15:00	0	14273	0												
15:10	0.17	9791	0					OPEN CHOKE TO 32/64".							
15:15	0.25	8433	0	41		17679	135	OPEN CHOKE TO 34/64".							
15:18	0.30							OPEN CHOKE TO 38/64".							
15:25	0.42	6688	0												
15:30	0.50	8674	0	43		12245	131	OPEN CHOKE TO 42/64". FLOW THROUGH SEP.							
15:45	0.75	5902	0	43	42	12032	130								
16:00	1	5888	0	44	42	12211	130	237.3	38.5	-		.401	-	162	2344
16:00	1	CUT CHOKE TO 32/64" (2ND APPROX DRAW DOWN = 8274 KPA).													
16:30	1.5	8674	0	47	32	13480	132	208.5	-	OPEN CHOKE TO 34/64"					2310
17:00	2	8246	0	48	34	13342	132	221.6	22.4	-		1.336	-	101	2310
17:00	2	CUT CHOKE TO 28/64" (3RD APPROX DRAW DOWN = 10343 KPA).													
17:15	2.25	9991	0	49				CUT CHOKE TO 26/64".							
17:30	2.50	10425	0	49	26	14604	134	180.3	-	-	-				2241
18:00	3	10474	0	51	26	14673	134	177.1	16.0	-		2.004	-	90	2241
18:00	3	CUT CHOKE TO 21/64" (4TH APPROX DRAW DOWN = 12066 KPA).													
18:30	3.5	11900	0	51	21	15583	135	137.5							2172
19:00	4	11915	0	51	21	15617	136	137.5	6.4	-		2.271	-	46.6	2172
19:00	4	CUT CHOKE TO 17/64" (5TH APPROX DRAW DOWN = 13445 KPA).													

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TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

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WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

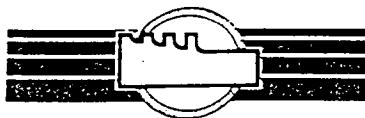
DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
4/1/91															
19:05	4.08	CUT CHOKE TO 14/64".													
19:30	4.50	13376	0	50	14	16741	136	72.5	-	-			-	-	2069
20:00	5.00	13379	0	49	14	16796	136	72.5	3.2	-	35.1	2.405	-	44	2069
		SHUT IN FOR BUILD UP.													
20:05	0.08	14190	0			17431	136								
20:10	0.17	14231	0			17527	136								
20:15	0.25	14273	0			17624	136								
20:30	0.50	14445	0			17837	136								
21:00	1	14596	0			17851	136								
22:00	2	14459	0			17817	136								
24:00	4	14390	0			17844	136								
5/1/91															
06:00	10	14335	0			17887	136								
10:00	14	14383	0			17899	136								
12:00	0	14342	0	-		17899	135	OPEN WELL ON 14/64" FOR RATE #1.							
12:15	0.25	13342	0		14										
12:30	0.50	12804	0	37	14	16651	135	44.9	-	-		-	-	-	2275
13:00	1	13004	0	38	14	16823	136	45.8	3.2	-		.134	-	70	2344
13:30	1.5	13007	0	38	14	16886	136	47.5							2310
14:00	2	13334	0	38	14	16846	136	49.8	16.0	-		.802	-	321	2275
14:30	2.5	13376	0	38	14	16865	136	49.4	-	-					2275

00183



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 3 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 5/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION			L.G.R.	SEP. PRESS.
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE	PRESSURE (KPa)	TEMP (°C)	GAS m ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ /D	OIL m ³	WATER m ³		
TIME					64TH									M ³ /10 ⁶ M ³	KPA
5/1/91															
15:00	3	13376	0	38	14	16844	136	49.3	-	-		.802	-	-	2275
15:30	3.5	13376	0	38	14	16907	136	49.5	-	-					2275
16:00	4	13376	0	38	14	16920	136	49.6	-	-		.802	-	-	2275
16:30	4.5	13383	0	39	14	16934	136	49.7	-	-			-	-	2275
17:00	5	13390	0	39	14	16941	136	49.8	3.2	-		.936	-	64	2275
17:30	5.5	13342	0	39	14	16969	136	49.9	-	-			-		2275
18:00	6	13307	0	40	14	16989	136	49.8	-	-		.936	-		2275
18:30	6.5	13238	0	40	14	17010	136	49.5	-	-			-		2275
19:00	7	13204	0	40	14	17031	136	48.7	3.2	-		1.070	-	66	2206
19:30	7.5	13169	0	39	14	17044	136	48.5	-	-			-		2206
20:00	8	13135	0	39	14	17058	136	48.2	3.2	-	16.25	1.204	-	66	2172
		END OF RATE #1 SHUT IN FOR BUILD UP.													
20:05	0.08	13831	0			17631	136								
20:10	0.17	13948	0			17679	137								
20:15	0.25	14086	0			17727	137								
20:30	0.50	14397	0			17844	136								
21:00	1	14631	0			18155	136								
21:30	1.5	14686	0			18244	136								
22:00	2	14507	0			18017	136								
22:30	2.5	14480	0			17975	136								
23:00	3	14480	0			17996	136								

00184



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 4 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

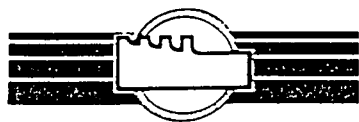
DATE: 5/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE 64TH	PRESSURE (KPa)	TEMP (°C)	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
5/1/91															
23:30	3.5	14473	0		14	17989	136								
24:00	4	14466	0			17975	136								
6/1/91															
00:30	4.5	14452	0			17968	136								
01:00	5	14445	0			17961	136								
01:30	5.5	14438	0			17955	136								
02:00	6	14431	0			17948	136								
02:30	6.5	14424	0			17948	136								
03:00	7	14417	0			17941	136								
03:30	7.5	14411	0			17941	136								
04:00	8	14411	0			17941	136								
04:00	0	START RATE #2 OPEN ON 14/64" CHOKE.													
04:05	0.08	13425	0		14			OPEN CHOKE TO 18/64"							
04:10	0.17	11997	0		18			OPEN CHOKE TO 22/64"							
04:15	0.25	10398	0		22			OPEN CHOKE TO 24/64"							
04:20	0.33	9308	0		24			OPEN CHOKE TO 26/64"							
04:30	0.50	8757	0	36	26	11839	133	128.8	-	-					2344
05:00	1	9212	0	39	26	12590	132	133.1	12.82	-		1.738	-	96	2379
05:30	1.5	9515	0	41	26	12983	132	138.6	-	-				-	2379
06:00	2	9715	0	42	26	13232	132	141.8	9.62	-		2.139	-	68	2379
06:30	2.5	9853	0	43	26	13404	132	143.6							2344

00183



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720' KB

PAGE: 5 OF 19

WELL NAME: THURAKINNA #3

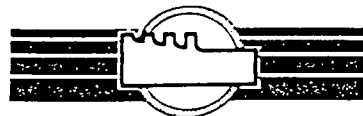
FORMATION : PATCHAWARRA

DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION			L.G.R.	SEP. PRESS.
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³		
6/1/91															
07:00	3	9970	0	44	26	13542	132	144.4	12.82	-		2.673	-	89	2379
07:30	3.5	10067	0	44	26	13652	133	145.2							2379
08:00	4	10129	0	45	26	13742	133	147.5	6.41	3.2		2.940	.134	65	2413
08:30	4.5	10198	0	45	26	13831	133	148.3							2413
09:00	5	10260	0	46	26	13900	133	149.1	6.41	3.2		3.207	.268	64	2448
09:30	5.5	10322	0	46	26	13955	133	150.5							2482
10:00	6	10349	0	48	26	14011	133	151.1	6.41	3.2		3.474	.402	64	2482
10:30	6.5	10391	0	48	26	14061	134	151.1							2482
11:00	7	10432	0	49	26	14105	134	151.9	6.41	3.2		3.741	.536	63	2516
11:30	7.5	10529	0	49	26	14133	134	153.1							2551
12:00	8	10570	0	50	26	14176	134	153.7	3.2	6.41	64.827	3.875	.803	63	2551
		END OF RATE #2. SHUT IN FOR BUILD UP.													
12:05	0.08	13831	0			16948	134								
12:10	0.17	14038	0			17134	134								
12:15	0.25	14121	0			17244	134								
12:30	0.50	14369	0			17561	134								
13:00	1	14666	0			17948	135								
13:30	1.5	14624	0			17886	135								
14:00	2	14500	0			17755	135								
14:30	2.5	14500	0			17755	135								
15:00	3	14514	0			17775	135								



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 6 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

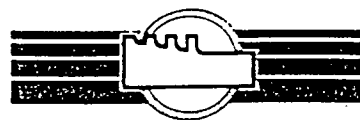
DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
6/1/91															
15:30	3.5	14507	0			17782	135								
16:00	4	14500	0			17789	135								
16:30	4.5	14500	0			17789	135								
17:00	5	14500	0			17796	135								
17:30	5.5	14500	0			17803	135								
18:00	6	14500	0			17803	135								
18:30	6.5	14500	0			17810	135								
19:00	7	14473	0			17817	135								
19:30	7.5	14473	0			17789	135								
20:00	8	14473	0			17824	135								
20:00	0	14473	0		23	17824	135	OPEN WELL. COMMENCE RATE #3.							
20:05	0.08	11515	0		23			OPEN CHOKE TO 32/64". TRIM THROUGH SEPARATOR.							
20:10	0.17	8067	0		32			OPEN CHOKE TO 36/64".							
20:15	0.25	6405	0	39	36										
20:30	0.50	6392	0	42	"	10418	129	165.3							2206
21:00	1	6867	0	44	"	11170	129	177.4	12.8	3.2		4.409	.937	90	2206
21:30	1.5	7171	0	46	"	11542	129	184.4							2206
22:00	2	7357	0	48	"	11784	129	189.9	6.4	3.2		4.676	1.071	51	2241
22:30	2.5	7412	0	49	"	12039	130	190.9							2241
23:00	3	7481	0	50	"	12169	130	192.3	9.6	3.2		5.077	1.205	67	2241
23:30	3.5	7543	0	49	"	12293	131	194.0							2241

00187



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 7 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPa
6/1/91															
24:00	4	7626	0	53	36	12362	131	196.1	6.4	3.2		5.344	1.339	49	2241
7/1/91															
00:30	4.5	7688	0	54	"	12418	131	197.5							2241
01:00	5	7730	0	55	"	12493	131	197.6	9.6	6.4		5.745	1.606	81	2206
01:30	5.5	7757	0	55	"	12535	131	198.3							2206
02:00	6	7805	7	56	"	12590	131	199.8	7.6	3.2		6.146	1.742	64	2241
02:30	6.5	7846	14	56	"	12632	132	200.3							2206
03:00	7	7881	14	57	"	12673	132	201.6	9.6	6.4		6.547	2.009	79	2206
03:30	7.5	7909	21	57	"	12714	132	203.3							2241
04:00	8	7929	21	58	"	12749	132	203.9	6.4	3.2	129.256	6.814	2.143	47	2241
04:00	0	SHUT IN FOR BUILD UP.													
04:05		13645	21			16569	132								
04:10		14528	21			16858	135								
04:15		14059	21			17051	134								
04:30		14404	14			17529	134								
05:00	1	14514	0			17674	134								
05:30		14445	0			17605	134								
06:00	2	14480	0			17667	134								
06:30		14459	0			17655	134								
07:00	3	14445	0			17655	134								
07:30		14459	0			17662	134								

88100



TEST RESULTS

CUSTOMER :	SANTOS LTD.	PERFORATIONS:	7484' - 7720' KB	PAGE: 8	OF 19
WELL NAME:	THURAKINNA #3	FORMATION :	PATCHAWARRA	DATE: 7/1/91	
TEST TYPE :	MODIFIED ISOCHRONAL			OPR : R. LARKIN	

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP /°C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
7/1/91															
08:00	4	14459	0			17672	134								
08:30		14459	0			17679	134								
09:00	5	14452	0			17689	134								
09:30		14459	0			17697	134								
10:00	6	14459	0			17704	134								
10:30		14459	0			17699	134								
10:40		P.O.O.H. E-LINE GAUGES FOR SERVICE.													
11:00	7	14466	0												
11:10		DEPRESSURE LUBRICATOR. TRANSPORT SRO GAUGE TO MOOMBA FOR SERVICE.													
12:00	8	14466													
14:00	10	14466													
16:00	12	14459													
17:30	13.5	PRESSURE LUBRICATOR WITH SRO GAUGE.													
18:00	14	14445													
18:20	14.3	R.I.H. WITH SRO GAUGE.													
19:00	15	14459	HANG SRO GAUGE @ 7400' KB.												
19:30	15.5	14452				17789	134								
21:00	17.0	14466													
22:00	18	14459				17803	135								
8/1/91						17796	135								



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 10 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

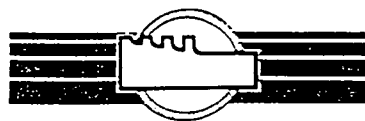
DATE: 9/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
9/1/91															
22:00	6	13011	0	42	14	16776	136	42.597	4.806	0	10.473	1.601	0	112.825	1862
22:00		INCREASE SEPARATOR PRESSURE TO 330PSI OR 2275KPA													
23:00	7	13011	0	42	14	16780	136	41.597	4.806	0	12.206	1.801	0	115.537	2275
24:00	8	13080	0	42	14	16780	136	42.265	6.408	0	13.967	2.068	0	151.615	2275
10/1/91															
01:00	9	13094	0	42	14	16788	136	42.492	3.204	0	15.738	2.202	0	75.402	2275
02:00	10	13100	0	41	14	16794	136	42.943	1.602	0	17.527	2.269	0	37.305	2275
03:00	11	13100	0	41	14	16801	136	42.943	4.806	0	19.316	2.469	0	111.916	2275
04:00	12	13107	0	42	14	16807	136	42.943	3.204	0	21.105	2.602	0	74.610	2275
04:00		SHUT WELL IN FOR BUILD UP.													
		BUILD UP AFTER RATE #1													
04:00	0	13107	0			16810	136								
04:15	.25	14307	0			17842	137								
04:30	.5	14624	0			18046	136								
04:45	.75	14817	0			18223	136								
05:00	1	14873	0			18311	136								
05:30	1.5	14673	0			18073	136								
06:00	2	14645	0			18038	136								
07:00	3	14583	0			17970	136								
08:00	4	14548	0			17945	136								
09:00	5	14548	0			17939	136								

00190



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 9 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

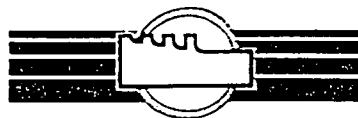
DATE: 8/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP /°C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
8/1/91						17796	135								
02:00	22	14459				17817	135								
06:00	26	14466				17830	135								
10:00	30	14466				17844	135								
14:00	34	14466				17855	135								
18:00	38	14459				17864	135								
22:00	42	14466				17872	135								
9/1/91															
02:00	46	14459				17879	135								
06:00	50	14459				17888	135								
10:00	54	14473				17895	135								
12:00	56	14390	0												
14:00	58	14404	0												
16:00	60	14410	0					OPEN WELL ON 14/64" CHOKE SIZE. RATE #1.							
16:00	0	14410	0		0	17078	134								
16:30	.5	12949	0	36	14	16990	135	42.180		0	.879				2137
17:00	1	12983	0	42	14	16981	136	41.543	6.408	0	1.744	.267	0	154.250	2151
17:30	1.5	12956	0	42	14	16992	136	41.706		0	2.613				2172
18:00	2	12887	0	42	14	16930	136	41.480	6.408	0	3.477	.534	0	154.484	2068
19:00	3	12907	0	42	14	16915	136	41.391	6.408	0	5.202	.801	0	154.816	2068
20:00	4	12963	0	42	14	16882	136	42.054	8.010	0	1.134	1.134	0	190.469	2068
21:00	5	12983	0	41	14	16829	136	41.863	6.408	0	8.698	1.401	0	153.071	1896

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 11 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

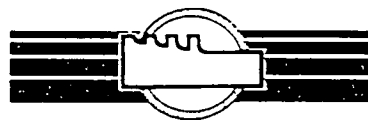
DATE: 10/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
10/1/91															
10:00	6	14548	0			17931	136								
11:00	7	14548	0			17926	136								
12:00	8	14535	0			17923	136								
13:00	9	14521	0			17919	136								
14:00	10	14542	0			17919	135								
15:00	11	14521	0			17917	135								
16:00	12	14514	0			17915	135								
		END OF BUILD UP.													
16:00	0	14514	0	45		17915	135	OPEN WELL ON 26/64" CHOKE FOR RATE #2.							
16:30	.5	8798	0	43	26	12048	132	125.886	-	0	2.623				2482
17:00	1	8419	0	45	26	12404	131	134.043	16.020	0	5.416	.668	0	119.514	2689
17:30	1.5	9356	0	45	26	12740	131	136.963	-	-	8.269	-	-	-	2689
18:00	2	9520	0	46	26	12970	131	141.133	6.408	3.204	11.209	.935	.134	68.106	2792
19:00	3	9798	0	48	26	13270	132	145.329	9.612	1.602	17.264	1.336	.201	77.163	2861
20:00	4	9984	0	47	26	13484	132	147.476	4.806	1.602	23.430	1.536	.268	43.304	2758
21:00	5	10101	0	50	26	13649	132	148.645	4.806	6.408	29.624	1.736	.535	75.441	2689
22:00	6	10232	0	51	26	13771	133	150.942	4.806	1.602	35.913	1.936	.601	42.453	2689
23:00	7	10287	0	52	26	13883	133	151.888	6.408	3.204	42.242	2.203	.735	63.283	2689
24:00	8	10356	0	53	26	13961	134	152.856	3.204	4.806	48.611	2.336	.935	52.402	2586
11/1/91															

00192



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 12 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP /°C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
11/1/91															
01:00	9	10411	7	53	26	14035	134	152.947	4.806	1.602	54.984	2.536	1.002	41.897	2517
02:00	10	10453	14	55	26	14095	134	152.947	6.408	3.204	61.357	2.803	1.136	62.845	2517
03:00	11	10508	14	55	26	14137	134	153.670	4.806	4.806	67.760	3.003	1.336	62.550	2482
04:00	12	10542	21	55	26	14184	134	153.670	4.806	3.204	74.163	3.203	1.469	52.124	2482
04:00		SHUT WELL IN FOR BUILD UP.													
		BUILD UP AFTER RATE #2													
04:00	0	10542	21			14184	134								
04:15	.25	14273	21			17231	136								
04:30	.5	14528	7			17617	136								
04:45	.75	14707	0			17853	135								
05:00	1	14631	0			17772	135								
05:30	1.5	14548	0			17676	135								
06:00	2	14555	0			17700	135								
07:00	3	14535	0			17692	135								
08:00	4	14514	0			17706	135								
09:00	5	14507	0			17720	135								
10:00	6	14521	0			17732	135								
11:00	7	14514	0			17741	135								
12:00	8	14507	0			17750	135								
13:00	9	14521	0			17757	135								
14:00	10	14528	0			17766	135								

00193



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 13 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

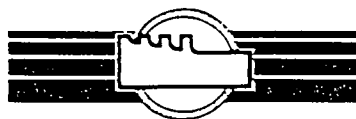
DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
11/1/91															
15:00	11	14535	0			17773	135								
16:00	12	14542	0			17780	135								
		END OF BUILD UP.													
16:00	0	14542	0	44	0	17780	135	OPEN WELL ON 36/64" CHOKE FOR RATE #3.							
16:30	.5	6619	0	47	36	10467	129	169.842			3.538				2068
17:00	1	6909	0	49	36	11144	128	180.152	9.612	9.612	7.291	.400	.400	106.710	2206
17:30	1.5	7136	0	50	36	11484	129	186.921			11.185				2261
18:00	2	7281	0	51	36	11706	129	191.871	0	6.408	15.182	.400	.667	33.397	2275
19:00	3	7412	0	54	36	12118	130	192.723	6.408	6.408	23.212	.667	.934	66.500	2206
20:00	4	7536	7	54	36	12277	131	196.728	6.408	3.204	31.409	.934	1.067	48.859	2172
21:00	5	7653	14	56	36	12397	131	199.415	6.408	3.204	39.718	1.201	1.200	48.201	2172
22:00	6	7722	21	57	36	12499	131	200.744	4.806	3.204	48.082	2.401	1.333	39.902	2172
23:00	7	7784	21	59	36	12562	132	201.406	3.204	8.010	56.474	2.534	1.666	55.679	2172
24:00	8	7846	34	60	36	12630	132	203.378	3.204	3.204	64.948	2.667	1.799	31.508	2172
12/1/91															
01:00	9	7902	41	61	36	12683	132	204.265	9.612	3.204	73.459	3.067	1.932	62.742	2172
02:00	10	7936	41	63	36	12730	132	204.912	4.806	4.806	81.997	3.267	2.132	46.908	2172
03:00	11	7978	48	60	36	12766	132	205.558	4.806	4.806	90.562	3.467	2.332	46.761	2172
04:00	12	8005	55	62	36	12805	132	206.202	3.204	4.806	99.154	3.600	2.532	38.845	2172
04:00		SHUT IN WELL FOR BUILD UP END OF RATE #3													

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 14 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

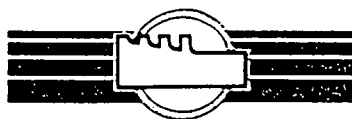
DATE: 12/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
12/1/91		BUILD UP AFTER RATE #3													
04:00	0	8005	55			12805	133								
04:15	.25	14018	34			16850	135								
04:30	.5	14342	28			17280	135								
04:45	.75	14445	21			17434	134								
05:00	1	14397	14			17382	134								
05:30	1.5	14397	7			17401	134								
06:00	2	14411	0			17437	134								
07:00	3	14404	0			17461	134								
08:00	4	14411	0			17494	134								
09:00	5	14411	0			17522	134								
10:00	6	14417	0			17545	134								
11:00	7	14431	0			17566	134								
12:00	8	14431	0			17582	134								
13:00	9	14431	0			17596	134								
14:00	10	14445	0			17608	134								
15:00	11	14459	0			17619	135								
16:00	12	14459	0			17631	135								
		END OF BUILD UP AFTER RATE #3													

00195



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' -7720' KB

PAGE: 15 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 12/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
12/1/91															
16:00	0	14459	0	45	0	17631	135	OPEN WELL ON 42/64" CHOKE FOR RATE #4							
16:30	.5	5902	0	50	42	10431	128	195.942			4.082				2482
17:00	1	6116	0	52	42	11123	128	203.398	11.214	3.204	8.319	.467	.133	70.886	2551
17:30	1.5	6302	0	54	42	11411	129	209.066			12.675				2482
18:00	2	6392	0	54	42	11590	129	213.321	8.010	3.204	17.119	.800	.267	52.569	2482
19:00	3	6523	0	56	42	11871	130	216.441	3.204	8.010	26.137	.933	.600	51.811	2482
20:00	4	6599	21	58	42	12055	131	217.390	8.010	1.666	35.195	1.267	.669	44.509	2482
21:00	5	6681	21	60	42	12159	131	220.880	6.408	4.806	44.398	1.534	.869	50.770	2482
22:00	6	6736	34	61	42	12234	131	221.102	3.204	6.408	53.611	1.667	1.136	43.473	2482
23:00	7	6785	34	62	42	12292	132	223.370	8.010	3.204	62.918	2.001	1.269	50.204	2482
24:00	8	6833	48	63	42	12337	132	224.253	3.204	6.408	72.262	2.134	1.536	42.862	2482
13/1/91															
01:00	9	6874	55	64	42	12371	132	224.926	4.806	4.806	81.634	2.334	1.736	42.734	2482
02:00	10	6895	48	64	42	12403	132	225.128	4.806	4.806	91.014	2.534	1.936	42.696	2482
03:00	11	6922	62	65	42	12429	132	225.276	8.010	4.806	100.400	2.867	2.136	56.890	2482
09:00	12	6943	69	66	42	12452	132	227.263	3.204	3.204	109.869	3.000	2.269	28.196	2482
04:00		RATE #4 COMPLETED													



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 16 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

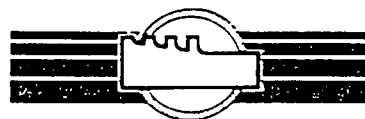
DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPA
13/1/91															
04:00	0	6943	69	66	42	12452	132	CUT CHOKE TO 34/64" FOR EXTENDED FLOW RATE.							
04:30	.5	8612	76	65	34	13177	133	200.744			4.182				
05:00	1	8633	76	66	34	13197	133	201.821	3.204	6.408	8.387	.133	.267	47.626	2172
05:30	1.5	8639	76	66	34	13210	133	201.821			12.591				
06:00	2	8639	76	67	34	13222	133	201.406	6.408	3.204	16.787	.400	.400	47.724	2172
07:00	3	8653	76	67	34	13242	133	202.642	3.204	4.806	25.230	.533	.600	39.528	2206
08:00	4	8653	76	67	34	13256	134	202.642	6.408	3.204	33.673	.800	.733	47.433	2206
09:00	5	8680	83	66	34	13273	134	204.949	6.408	4.806	42.213	1.067	.933	54.716	2241
10:00	6	8694	90	67	34	13286	134	206.160	4.806	4.806	50.803	1.267	1.133	46.623	2275
11:00	7	8701	96	67	34	13302	134	205.739	6.408	6.408	59.375	1.534	1.400	62.292	2275
12:00	8	8715	103	67	34	13313	134	203.681	4.804	3.204	67.862	1.734	1.533	39.316	2275
13:00	9	8722	103	68	34	13328	134	202.091	6.408	3.204	76.282	2.001	1.666	47.562	2275
14:00	10	8736	103	68	34	13343	134	202.091	6.408	3.204	84.702	2.268	1.799	47.562	2275
15:00	11	8749	103	69	34	13351	134	203.940	6.408	3.204	93.200	2.535	1.932	47.131	2275
16:00	12	8769	110	68	34	13360	134	203.940	3.204	3.204	101.698	2.668	2.065	31.421	2275
17:00	13	8763	110	69	34	13365	134	204.750	0	3.204	110.229	2.668	2.198	15.648	2275
18:00	14	8770	110	70	34	13373	134	204.750	6.408	3.204	118.760	2.935	2.331	46.945	2275
19:00	15	8770	117	69	34	13376	134	205.321	6.408	6.408	127.315	3.202	2.598	62.419	2275
20:00	16	8770	117	70	34	13384	134	205.739	3.204	3.204	135.887	3.335	2.731	31.146	2275
20:00	START SAMPLING 2 x 500cc HP GAS & 2 x 500cc HP CONDENSATE.														

00197



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 17 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE 64TH	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS. KPa
13/1/91															
21:00	17	8777	124	69	34	13386	134	205.739	3.204	3.204	144.459	3.468	2.864	31.146	2275
21:35		SAMPLING COMPLETED													
22:00	18	8777	124	70	34	13391	134	205.739	1.603	6.408	153.031	3.534	3.131	38.937	2275
23:00	19	8770	124	70	34	13393	134	205.739	1.602	6.408	161.603	3.601	3.398	38.937	2275
24:00	20	8777	131	71	34	13397	134	205.321	3.204	6.408	170.158	3.735	3.668	46.815	2275
14/1/91															
01:00	21	8784	131	70	34	13398	134	206.408	3.204	3.204	178.758	3.868	3.801	31.045	2275
02:00	22	8784	138	69	34	13401	134	205.989	4.806	4.806	187.341	4.068	4.001	46.662	2275
03:00	23	8791	138	71	34	13406	134	205.989	3.204	4.806	195.923	4.201	4.201	38.885	2275
04:00	24	8798	138	72	34	13407	134	205.989	4.806	4.806	204.505	4.401	4.401	46.662	2275
04:00		EXTENDED RATE COMPLETED.													
04:00		SHUT IN WELL FOR FINAL BUILD UP PERIOD.													
04:15	0.25	13714	103			16411									
04:30	0.50	13997	90			16779									
04:45	0.75	13997	76			16773									
05:00	1	13990	55			16805									
05:15	1.25	14018	48			16842									
05:30	1.50	14031	48			16861									
05:45	1.75	14031	34			16880									
06:00	2	14045	34			16899									
07:00	3	14066	21			16960									

00198



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 18 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 14/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : H. JAMES

TIME		WELLHEAD DATA				SRO/BHP		FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE /KPa	ANNULUS PRESSURE /KPa	WELLHEAD TEMP °C	CHOKE SIZE	PRESSURE /KPa	TEMP °C	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ 10 ³	OIL m ³	WATER m ³	L.G.R. M ³ /10 ⁶ M ³	SEP. PRESS.
14/1/91															
08:00	4	14100	14			17012									
09:00	5	14114	7			17048									
10:00	6	14135	7			17080									
14:00	10	14190	0			17175									
18:00	14	14183	0			17242									
22:00	18	14183	0			17293									
15/1/91															
02:00	22	14183	0			17333									
06:00	26	14197	0			17373									
10:00	30	14118	0			17401									
14:00	34	14238	0			17424									
18:00	38	14238	0			17446									
22:00	42	14224	0			17463									
16/1/91															
02:00	46	14238	0			17482									
06:00	50	14238	0			17498									
10:00	54	14286	0			17518									
14:00	58	14293	0			17526									
18:00	62	14307	0			17540									
22:00	66	14266	0			17553									

00193



TEST RESULTS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 19 OF 19

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 17/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : H. JAMES

TIME

WELLHEAD DATA

SRO/BHP

FLOW RATES

CUMULATIVE PRODUCTION

DATE

FLOW OR
SHUT IN
TIME
(HOURS)TUBING
PRESSURE
/KPaANNULUS
PRESSURE
/KPaWELLHEAD
TEMP
°CCHOKE
SIZEPRESSURE
/KPaTEMP
°CGAS
m³10³/DOIL
m³/DWATER
m³/DGAS
m³10³OIL
m³WATER
m³L.G.R.
M³/10⁶M³SEP.
PRESS.

17/1/91

02:00

70

14273

0

17565

06:00

74

14273

0

17577

10:00

78

14293

0

17588

14:00

82

14328

0

17599

18:00

86

14355

0

17610

22:00

90

14328

0

17621

18/1/91

02:00

94

14321

0

17631

06:00

98

14321

0

17641

10:00

102

14342

0

17651

14:00

106

N/A

0

17659

18:00

110

14376

0

17668

22:00

114

14355

0

17677

19/1/91

02:00

118

14355

0

17686

06:00

124

14355

0

17694

END OF BUILD UP.

P.O.H. PERFORM S.G.S. TO SURFACE.

12:10

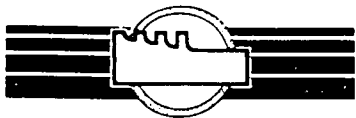
END OF GRADIENT.

14:20

RIG DOWN E-LINE EQUIPMENT.

00200

EXPERTEST PTY. LTD.



LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 1 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 4/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TANK
NUMBER

#1 = 57

TANK

#1 = 56.6

/m³

TANK

#1 = .267M³/INCH

OIL API GRAVITY =50.8 @ 60°F

#2 =

CAPACITY

#2 =

bbls/m³

SCALE

#2 =

bbls/in - m³/cm

DATE

FLOW

TANK

TOTAL

OIL/CONDENSATE PRODUCTION

WATER PRODUCTION

TIME
(HOURS)USED
(NUMBER)TANK DIP
(IN/)TANK
DIP
(IN/)TANK
PRODUCTION
(m³)FLOW
RATE
(m³/D)CUMULATIVE
PRODUCTION
(m³)TANK
DIP
(IN)TANK
PRODUCTION
(m³)FLOW
RATE
(m³/D)CUMULATIVE
PRODUCTION
(m³)

4/1/91

57

5

2

INITIAL DIPS

-

3

-

15:45

COMMENCE DUMPING CONDENSATE TO TANK.

16:00

1

57

6.5

3.5

.401

38.496

.401

3

-

-

17:00

2

57

10

7

.935

22.44

1.336

3

-

-

18:00

3

57

12.5

9.5

.668

16.032

2.004

3

-

-

19:00

4

57

13.5

10.5

.267

6.408

2.271

3

-

-

20:00

5

57

14

11

.134

3.216

2.405

3

-

-

SHUT IN FOR BUILD UP.

5/1/91

12:00

0

57

12.5

9.5

INITIAL DIPS

-

3

-

13:00

1

57

13

10

.134

3.216

.134

3

-

-

14:00

2

57

15.5

12.5

.668

16.032

.802

3

-

-

15:00

3

57

15.5

12.5

-

-

.802

3

-

-

16:00

4

57

15.5

12.5

-

-

.802

3

-

-

17:00

5

57

16

13

.134

3.216

.936

3

-

-

18:00

6

57

16

13

-

-

.936

3

-

-

19:00

7

57

16.5

13.5

.134

3.216

1.070

3

-

-

20:00

8

57

17

14

.134

3.216

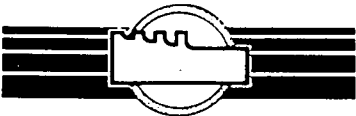
1.204

3

-

-

END OF RATE #1. SHUT IN.

EXPERTTEST PTY. LTD.		LIQUID PRODUCTION									
		CUSTOMER : SANTOS LTD.				PERFORATIONS: 7484' - 7720' KB			PAGE: 2 OF 7		
		WELL NAME: THURAKINNA #3				FORMATION : PATCHAWARRA			DATE: 6/1/91		
		TEST TYPE : MODIFIED ISOCHRONAL							OPR : R. LARKIN		
TANK	#1 = 57	TANK	#1 = 56.6M³			TANK	#1 = .267M³ / INCH			OIL API GRAVITY = @ 60°F	
6/1/91	#2 =	CAPACITY	#2 = bbls/m³			SCALE	#2 = bbls/in · m³/cm				
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 'm³/D)	CUMULATIVE PRODUCTION 'm³)	TANK DIP (IN	TANK PRODUCTION 'm³)	FLOW RATE 'm³/D)	CUMULATIVE PRODUCTION 'm³)
6/1/91		START RATE #2		INITIAL	DIPS						
04:00	0	57	17	14			1.204	3			-
05:00	1		19	16	.534	12.82	1.738	3	-		-
06:00	2		20.5	17.5	.401	9.62	2.139	3	-		-
07:00	3		22.5	19.5	.534	12.82	2.673	3	-		-
08:00	4		24	20.5	.267	6.408	2.940	3.5	.134	3.216	.134
09:00	5		25.5	21.5	.267	6.408	3.207	4	.134	3.216	.268
10:00	6		27	22.5	.267	6.408	3.474	4.5	.134	3.216	.402
11:00	7		28.5	23.5	.267	6.408	3.741	5	.134	3.216	.536
12:00	8		30	24	.134	3.216	3.875	6	.267	6.408	.803
		END OF RATE #2									
20:00	0	START RATE #3									
21:00	1		32.5	26	.534	12.816	4.409	6.5	.134	3.216	.937
22:00	2		34	27	.267	6.408	4.676	7	.134	3.216	1.071
23:00	3		36	28.5	.401	9.624	5.077	7.5	.134	3.216	1.205
24:00	4		37.5	29.5	.267	6.408	5.344	8	.134	3.216	1.339
7/1/91											
01:00	5		40	31	.401	9.624	5.745	9	.267	6.408	1.606
02:00	6		42	32.5	.401	9.624	6.146	9.5	.134	3.216	1.742
03:00	7		44.5	34	.401	9.624	6.547	10.5	.267	6.408	2.009
04:00	8		46	35	.267	6.408	6.814	11	.134	3.216	2.143

00202

EXPERTEST PTY. LTD.



LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 3 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7/1/91

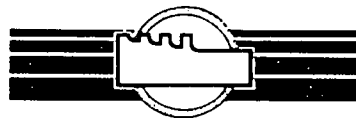
TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

TANK
NUMBER#1 = 57
#2 =TANK
CAPACITY#1 = 56.6M³
#2 = bbls/m³TANK
SCALE#1 = .267M³/INCH
#2 = bbls/in - m³/cm

OIL API GRAVITY = @ 60°F

DATE TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP~ (IN)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)	TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)
7/1/91		END OF RATE #3. SHUT IN FOR BUILD UP.									
9/1/91		RATE #1									
16:00	0	57	44.25	32.25				12	OPENING DIP		
17:00	1		45.25	33.25	.267	6.408	.267	12	0	0	0
18:00	2		46.25	34.25	.267	6.408	.534	12	0	0	0
19:00	3		47.25	35.25	.267	6.408	.801	12	0	0	0
20:00	4		48.5	36.5	.333	8.010	1.134	12	0	0	0
21:00	5		49.5	37.5	.267	6.408	1.401	12	0	0	0
22:00	6		50.25	38.25	.200	4.806	1.601	12	0	0	0
23:00	7		51	39	.200	4.806	1.801	12	0	0	0
24:00	8		52	40	.267	6.408	2.068	12	0	0	0
10/1/91											
01:00	9		52.5	40.5	.134	3.204	2.202	12	0	0	0
02:00	10		52.75	40.75	.067	1.602	2.269	12	0	0	0
03:00	11		53.5	41.5	.200	4.806	2.469	12	0	0	0
04:00	12		54	42	.134	3.204	2.602	12	0	0	0
04:00		SHUT WELL IN FOR BUILD UP									
10/1/91		RATE #2									
16:00	0	57	53.5	41.5				12	OPENING DIP		
17:00	1		56	44	.668	16.020	.668	12	0	0	0
18:00	2		57.5	45	.267	6.408	.935	12.5	.134	3.204	.134

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 4 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 10/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

 TANK
NUMBER

#1 = 57

#2 =

 TANK
CAPACITY

 #1 = 56.6M³

 #2 = bbls/m³

 TANK
SCALE

 #1 = .267M³/INCH

 #2 = bbls/in - m³/cm

OIL API GRAVITY = @ 60°F

DATE TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)	TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)
10/1/91											
19:00	3	57	59.25	46.5	.401	9.612	1.336	12.75	.067	1.602	.201
20:00	4		60.25	47.25	.200	4.806	1.536	13	.067	1.602	.268
21:00	5		62	48	.200	4.806	1.736	14	.267	6.408	.535
22:00	6		63	48.75	.200	4.806	1.936	14.25	.067	1.602	.601
23:00	7		64.5	49.75	.267	6.408	2.203	14.75	.134	3.204	.735
24:00	8		65.75	50.25	.133	3.204	2.336	15.5	.200	4.806	.955
11/1/91											
01:00	9		66.75	51	.200	4.806	2.536	15.75	.067	1.602	1.002
02:00	10		68.25	52	.267	6.408	2.803	16.25	.134	3.204	1.136
03:00	11		69.75	52.75	.200	4.806	3.003	17	.200	4.806	1.336
04:00	12		71	53.5	.200	4.806	3.203	17.5	.134	3.204	1.469
04:00		END OF RATE #2. SHUT WELL IN.									
		RATE #3									
16:00	0		70.5	53	INITIAL DIPS			17.5			
17:00	1		73.5	54.5	.400	9.612	.400	19	.400	9.612	.400
18:00	2		74.5	54.5	0	0	.400	20	.267	6.408	.667
19:00	3		76.5	55.5	.267	6.408	.667	21	.267	6.408	.934
20:00	4		78	56.5	.267	6.408	.934	21.5	.133	3.204	1.067
21:00	5		79.5	57.5	.267	6.408	1.201	22	.133	3.204	1.200
22:00	6		80.75	58.25	.200	4.806	1.401	22.5	.133	3.204	1.333

EXPERTEST PTY. LTD.



LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 5 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TANK
NUMBER

#1 = 57

#2 =

TANK

#1 = 56.6M³

CAPACITY

#2 =

bbls/m³

TANK

#1 = .267M³/INCH

SCALE

#2 =

bbls/in - m³/cm

OIL API GRAVITY = @ 60°F

DATE TIME	FLOW TIME (HOURS)	TANK USED (NUMBER)	TOTAL TANK DIP (IN)	OIL/CONDENSATE PRODUCTION				WATER PRODUCTION			
				TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)	TANK DIP (IN)	TANK PRODUCTION (m ³)	FLOW RATE (m ³ /D)	CUMULATIVE PRODUCTION (m ³)
11/1/91											
23:00	7	57	82.5	58.75	.133	3.204	1.534	23.75	.333	8.01	1.666
24:00	8		83.5	59.25	.133	3.204	1.667	24.25	.133	3.204	1.799
12/1/91											
01:00	9		85.5	60.75	.400	9.612	2.067	24.75	.133	3.204	1.932
02:00	10		87	61.5	.200	4.806	2.267	25.5	.200	4.806	2.132
03:00	11		88.5	62.25	.200	4.806	2.467	26.25	.200	4.806	2.332
04:00	12		89.75	62.75	.133	3.204	2.600	27	.200	4.806	2.532
		SHUT WELL IN FOR BUILD UP.									
		RATE #4									
16:00	0		88.5	62.75	INITIAL DIPS			25.75			
17:00	1		90.75	64.5	.467	11.214	.467	26.25	.133	3.204	.133
18:00	2		92.75	65.75	.333	8.010	.800	26.75	.133	3.204	.267
19:00	3		94.25	66.25	.133	3.204	.933	28	.333	8.010	.600
20:00	4		95.75	67.5	.333	8.010	1.267	28.25	.069	1.662	.669
21:00	5		97.5	68.5	.267	6.408	1.534	29	.200	4.806	.869
22:00	6		99	69	.133	3.204	1.667	30	.267	6.408	1.136
23:00	7		100.75	70.25	.333	8.010	2.001	30.5	.133	3.204	1.269
24:00	8		102.25	70.75	.133	3.204	2.134	31.5	.267	6.408	1.536

00205

EXPERTEST PTY. LTD.



LIQUID PRODUCTION

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 6 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

TANK
NUMBER

#1 = 57

TANK

#1 = 56.6M³

TANK

#1 = .267M³/INCH

OIL API GRAVITY = @ 60°F

NUMBER

#2 =

CAPACITY

#2 =

bbls/m³

SCALE

#2 =

bbls/in - m³/cm

DATE

FLOW

TANK

TOTAL

OIL/CONDENSATE PRODUCTION

WATER PRODUCTION

TIME

TIME
(HOURS)USED
(NUMBER)TANK DIP
(IN)TANK
DIP
(IN)TANK
PRODUCTION
(m³)FLOW
RATE
(m³/D)CUMULATIVE
PRODUCTION
(m³)TANK
DIP
(IN)TANK
PRODUCTION
(m³)FLOW
RATE
(m³/D)CUMULATIVE
PRODUCTION
(m³)

13/1/91

01:00

9

57

103.75

71.5

.200

4.806

2.334

32.25

.200

4.806

1.736

02:00

10

105.25

72.25

.200

4.806

2.534

33

.200

4.806

1.936

03:00

11

107.25

73.5

.333

8.010

2.867

33.75

.200

4.806

2.136

04:00

12

108.25

74

.133

3.204

3.00

34.25

.133

3.204

2.269

END OF RATE #4

EXTENDED FLOW RATE

04:00

0

108.25

74

INITIAL DIPS

34.25

05:00

1

109.75

74.5

.133

3.204

.133

35.25

.267

6.408

.267

06:00

2

111.25

75.5

.267

6.408

.400

35.75

.133

3.204

.400

07:00

3

112.5

76

.133

3.204

.533

36.5

.200

4.806

.600

08:00

4

114

77

.267

6.408

.800

37

.133

3.204

.733

09:00

5

115.75

78

.267

6.408

1.067

37.75

.200

4.806

.933

10:00

6

117.25

78.75

.200

4.806

1.267

38.5

.200

4.806

1.133

11:00

7

119.25

79.75

.267

6.408

1.534

39.5

.267

6.408

1.400

12:00

8

120.5

80.5

.200

4.806

1.734

40

.133

3.204

1.533

13:00

9

122

81.5

.267

6.408

2.001

40.5

.133

3.204

1.666

14:00

10

123.5

82.5

.267

6.408

2.268

41

.133

3.204

1.799

15:00

11

125

83.5

.267

6.408

2.535

41.5

.133

3.204

1.932

16:00

12

126

84

.133

3.204

2.668

42

.133

3.204

2.065

17:00

13

126.5

84

0

0

2.668

42.5

.133

3.204

2.198

00206

	PERFORATION
	FORMATION

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TANK	#1 = 56 6M ³
------	-------------------------

OIL API GRAVITY = @ 60°F

TANK	#1 = 56.6M ³
CAPACITY	#2 =

SCALE #2 = bbls/in - m³/cm

OIL API GRAVITY = @ 60°F

[illegible]

	PERFORATIONS:
	FORMATION :
NAME	

PERFORATIONS: 7484'-7720' KB

PAGE: 1 OF 10

FORMATION : PATCHAWARRA

DATE: 4/1/91

OPR : R. LARKIN

STATIC PRESSURE RANGE : 0-1500

PSIG

GAS SPECIFIC GRAVITY (SG) = .85

DIFFERENTIAL PRESS. RANGE: 0-200

IN WC

$$FG \sqrt{(I/SG)} = 1.0847$$

STANDARD CONDITIONS : 14.73 PSI @ 60°F

$$C_2 \quad (FU \times FG) = 26.0328$$
[illegible]



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 2 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

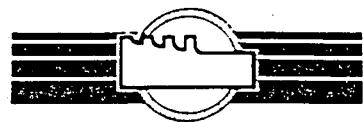
DATE: 5/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

ORIFICE METER TYPE:	DANIELS	STATIC PRESSURE RANGE :	0-1500	PSIG	GAS SPECIFIC GRAVITY (SG) =	.85
METER RUN SIZE :	3.068"	DIFFERENTIAL PRESS. RANGE:	0-200	IN WC	FG $\sqrt{(I/SG)}$	= 1.0847
SEPARATOR NO :	459	STANDARD CONDITIONS :	14.73 PSI @ 60°F		C ₂ (FU × FG)	= 26.0328

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)	√(P _F × H _W)	C ₁ = F _B × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × C ₂)	GAS FLOW RATE Q = √(P _F × H _W) × C	
								F _B	F _{TF}	F _{PV}	Y ₂			(MMSCFD)	(m ³ 10 ³ /D)
5/1/91		NOTE:	GAS GRAVITY	AVERAGED FROM DARLINGIE PATCHAWARRA.											
12:00		START	RATE #1.												
12:30		14	345	13	100	2.0	66.94	906.01	.9636	1.0468	1.0002	914.05	23794.18	1.593	44.878
13:00	1	14	355	106	111	1.25	193.91	322.03	.9543	1.0450	1.0019	321.74	8375.45	1.624	45.757
13:30		14	350	118	118	1.25	203.15	322.03	.9485	1.0424	1.0022	319.07	8305.89	1.687	47.538
14:00	2	14	345	132	120	1.25	213.32	322.03	.9469	1.0412	1.0025	318.25	8284.65	1.767	49.791
14:30		14	345	130	120	1.25	211.70	322.03	.9469	1.0412	1.0024	318.24	8284.34	1.754	49.410
15:00	3	14	345	129	118	1.25	210.88	322.03	.9485	1.0417	1.0024	318.94	8302.62	1.751	49.329
15:30		14	345	129	115	1.25	210.88	322.03	.9510	1.0425	1.0024	320.02	8330.57	1.757	49.495
16:00	4	14	345	129	115	1.25	210.88	322.03	.9526	1.0430	1.0024	320.74	8349.41	1.761	49.606
16:30		14	345	129	111	1.25	210.88	322.03	.9543	1.0436	1.0024	321.47	8368.41	1.765	49.719
17:00	5	14	345	129	110	1.25	210.88	322.03	.9551	1.0439	1.0024	321.84	8377.98	1.767	49.776
17:30		14	345	129	108	1.25	210.88	322.03	.9568	1.0444	1.0024	322.58	8397.24	1.771	49.891
18:00	6	14	345	129	109	1.25	210.88	322.03	.9560	1.0441	1.0024	322.21	8387.59	1.769	49.833
18:30		14	345	128	111	1.25	210.06	322.03	.9543	1.0436	1.0024	321.46	8368.26	1.758	49.525
19:00	7	14	335	128	111	1.25	206.99	322.03	.9543	1.0422	1.0025	321.06	8357.82	1.730	48.741
19:30		14	335	127	111	1.25	206.18	322.03	.9543	1.0422	1.0024	321.06	8357.66	1.723	48.549
20:00	8	14	330	127	111	1.25	204.64	322.03	.9543	1.0415	1.0025	320.86	8352.47	1.709	48.155
		END OF RATE	#1. SHUT IN.												



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 3 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

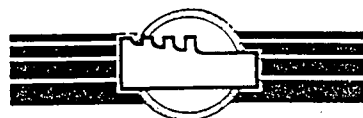
DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0-1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .85
METER RUN SIZE : 3.068"	DIFFERENTIAL PRESS. RANGE: 0-200 IN WC	FG $\sqrt{(I/SG)}$ = 1.0847
SEPARATOR NO : 459	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C ₂ (FU × FG) = 26.0328

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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
6/1/91															
04:00	0	START	RATE #2												
04:30		26	355	184	82	1.75	255.48	663.42	.9795	1.0545	1.0029	687.22	17889.53	4.570	128.767
05:00	1	26	360	108	97	2.0	197.11	906.01	.9662	1.0500	1.0015	920.53	23962.89	4.723	133.072
05:30		26	360	116	93	2.0	204.28	906.01	.9697	1.0514	1.0016	925.14	24082.96	4.920	138.604
06:00	2	26	360	122	95	2.0	209.49	906.01	.9680	1.0507	1.0017	922.95	24025.94	5.033	141.807
06:30		26	355	127	95	2.0	212.25	906.01	.9680	1.0499	1.0018	922.35	24010.27	5.096	143.581
07:00	3	26	360	128	100	2.0	214.58	906.01	.9636	1.0490	1.0018	917.46	23882.89	5.125	144.387
07:30		26	360	130	102	2.0	216.25	906.01	.9619	1.0484	1.0018	915.29	23826.50	5.153	145.167
08:00	4	26	365	130	95	2.0	217.75	906.01	.9680	1.0515	1.0015	923.72	24045.96	5.236	147.519
08:30		26	365	132	97	2.0	219.42	906.01	.9662	1.0508	1.0018	921.49	23987.87	5.263	148.290
09:00	5	26	370	132	99	2.0	220.92	906.01	.9645	1.0509	1.0018	919.90	23946.52	5.290	149.046
09:30		26	375	133	100	2.0	223.25	906.01	.9636	1.0513	1.0018	919.44	23934.57	5.343	150.542
10:00	6	26	375	134	100	2.0	224.08	906.01	.9636	1.0513 ^e	1.0018	919.45	23934.88	5.363	151.09
10:30		26	375	134	100	2.0	224.08	906.01	.9636	1.0513	1.0018	919.45	23934.88	5.363	151.109
11:00	7	26	380	134	102	2.0	225.57	906.01	.9619	1.0514	1.0017	917.86	23893.47	5.390	151.851
11:30		26	385	135	104	2.0	227.90	906.01	.9602	1.0514	1.0017	916.28	23852.41	5.436	153.153
12:00	8	26	385	136	104	2.0	228.74	906.01	.9602	1.0514	1.0017	916.30	23852.71	5.456	153.721
		END OF RATE #2													



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 4 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 6/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : R. LARKIN

ORIFICE METER TYPE: DANIELS							STATIC PRESSURE RANGE : 0-1500 PSIG				GAS SPECIFIC GRAVITY (SG) = .85				
METER RUN SIZE : 3.068"							DIFFERENTIAL PRESS. RANGE: 0-200 IN WC				FG $\sqrt{(I/SG)}$ = 1.0847				
SEPARATOR NO : 459							STANDARD CONDITIONS : 14.73 PSI @ 60°F				C ₂ (FU × FG) = 26.0328				
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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
6/1/91															
20:00	0	OPEN	ON RATE #3												
20:30		36	335	96	84	2.25	179.26	1223.18	.9777	1.0503	1.0011	1257.49	32734.67	5.868	165.325
21:00	1	36	335	110	82	2.25	191.87	1223.18	.9795	1.0510	1.0013	1260.84	32821.85	6.298	177.442
21:30		36	335	122	93	2.25	202.08	1223.18	.9697	1.0474	1.0014	1244.11	32386.15	6.545	184.389
22:00	2	36	340	130	102	2.25	210.15	1223.18	.9619	1.0454	1.0015	1231.87	32067.60	6.739	189.869
22:30		36	340	132	104	2.25	211.76	1223.18	.9602	1.0448	1.0015	1229.03	31993.59	6.775	190.882
23:00	3	36	340	134	104	2.25	213.36	1223.18	.9602	1.0448	1.0015	1229.05	31994.33	6.826	192.327
23:30		36	340	137	106	2.25	215.74	1223.18	.9585	1.0443	1.0016	1226.25	31921.36	6.887	194.025
24:00	4	36	340	140	106	2.25	218.09	1223.18	.9585	1.0443	1.0016	1226.29	31922.46	6.962	196.144
7/1/91															
00:30		36	340	142	106	2.25	219.64	1223.18	.9585	1.0443	1.0016	1226.32	31923.20	7.012	197.545
01:00	5	36	335	145	108	2.25	220.31	1223.18	.9568	1.0430	1.0017	1222.75	31830.26	7.012	197.570
01:30		36	335	146	108	2.25	221.07	1223.18	.9568	1.0430	1.0017	1222.77	31830.63	7.037	198.252
02:00	6	36	340	146	108	2.25	222.71	1223.18	.9568	1.0437	1.0017	1223.56	31851.26	7.094	199.857
02:30		36	335	149	108	2.25	223.33	1223.18	.9568	1.0430	1.0017	1222.81	31831.75	7.109	200.286
03:00	7	36	335	151	108	2.25	224.82	1223.18	.9568	1.0430	1.0018	1222.84	31832.50	7.157	201.630
03:30		36	340	151	108	2.25	226.49	1223.18	.9568	1.0437	1.0017	1223.62	31853.10	7.215	203.262
04:00	8	36	340	152	108	2.25	227.24	1223.18	.9568	1.0437	1.0017	1223.64	31853.47	7.238	203.936
		END OF RATE #3. SHUT IN FOR BUILD UP.													

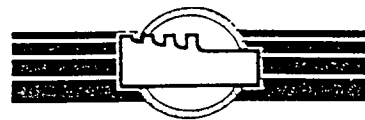


GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.	PERFORATIONS: 7484' -7720' KB	PAGE: 5 OF 10
WELL NAME: THURAKINNA #3	FORMATION : PATCHAWARRA	DATE: 9/1/91
TEST TYPE : MODIFIED ISOCHRONAL		OPR : I. KURASIAK

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0-1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .85
METER RUN SIZE : 3.068"	DIFFERENTIAL PRESS. RANGE: 0-200 IN WC	FG $\sqrt{(I/SG)}$ = 1.0847
SEPARATOR NO : 459	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C ₂ (FU x FG) = 26.0328

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 x F _{TF} x F _{PV} x Y ₂				C ₁	C (C = C ₁ x 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)
9/1/91		RATE	#1												
16:30	.5	14	324	96	96	1.25	176.5618	322.03	.9664	1.0447	1.0019	325.7344	8479.406	1.497	42.180
17:00	1	14	326	96	113	1.25	177.1047	322.03	.9526	1.0406	1.0019	319.8265	8325.614	1.475	41.543
17:30	1.5	14	329	100	132	1.25	181.5847	322.03	.9366	1.0363	1.0019	318.1645	8152.189	1.480	41.706
18:00	2	14	314	102	123	1.25	179.1716	322.03	.9438	1.0365	1.0021	315.6618	8217.199	1.472	41.480
19:00	3	14	314	100	116	1.25	177.4063	322.03	.9497	1.0381	1.0020	318.1178	8281.133	1.469	41.391
20:00	4	14	314	102	111	1.25	179.1716	322.03	.9541	1.0394	1.0021	320.0316	8330.952	1.493	42.054
21:00	5	14	289	110	109	1.25	178.5225	322.03	.9556	1.0365	1.0024	319.7369	8323.280	1.486	41.863
22:00	6	14	284	116	109	1.25	181.7379	322.03	.9556	1.0358	1.0024	319.5850	8319.325	1.512	42.597
22:00		INCREASE SEPARATOR PRESSURE TO 330PSIG													
23:00	7	14	344	92	111	1.25	178.0875	322.03	.9541	1.0435	1.0017	321.1761	8360.746	1.489	41.950
24:00	8	14	344	93	109	1.25	179.0528	322.03	.9556	1.0440	1.0017	321.8437	8378.125	1.500	42.265
10/1/91															
01:00	9	14	344	94	109	1.25	180.0128	322.03	.9556	1.0440	1.0017	321.8497	8378.281	1.508	42.492
02:00	10	14	344	96	109	1.25	181.9178	322.03	.9556	1.0440	1.0018	321.8617	8378.592	1.524	42.943
03:00	11	14	344	96	109	1.25	181.9178	322.03	.9556	1.0440	1.0018	321.8617	8378.592	1.524	42.943
04:00	12	14	344	96	109	1.25	181.9178	322.03	.9556	1.0440	1.0018	321.8617	8378.592	1.524	42.943
04:00		SHUT WELL IN FOR BUILD UP													



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484' - 7720' KB

PAGE: 6 OF 10

WELL NAME: THURAKINNA #3

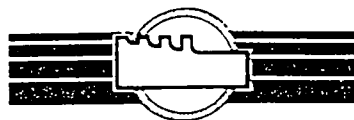
FORMATION : PATCHAWARRA

DATE: 10/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

ORIFICE METER TYPE: DANIELS							STATIC PRESSURE RANGE : 0-1500 PSIG				GAS SPECIFIC GRAVITY (SG) = .85				
METER RUN SIZE : 3.068"							DIFFERENTIAL PRESS. RANGE: 0-200 IN WC				FG $\sqrt{(1/SG)}$ = 1.0847				
SEPARATOR NO : 459							STANDARD CONDITIONS : 14.73 PSI @ 60°F				C ₂ (FU × FG) = 26.0328				
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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
10/1/91		RATE	#2												
16:30	.5	26	374	94	104	2.00	187.6822	906.01	.9602	1.0500	1.0012	914.5414	23807.025	4.468	125.886
17:00	1	26	404	100	113	2.00	201.1790	906.01	.9526	1.0513	1.0012	908.4736	23649.070	4.758	134.043
17:30	1.5	26	404	103	107	2.00	204.1744	906.01	.9573	1.0532	1.0013	914.6417	23809.636	4.861	136.963
18:00	2	26	419	106	111	2.00	210.9298	906.01	.9541	1.0540	1.0012	912.3028	23748.751	5.009	141.133
19:00	3	26	429	109	109	2.00	216.4268	906.01	.9556	1.0561	1.0013	915.5690	23833.776	5.158	145.329
20:00	4	26	414	116	104	2.00	219.3369	906.01	.9602	1.0559	1.0014	919.8762	23945.899	5.252	147.976
21:00	5	26	404	120	103	2.00	220.3806	906.01	.9610	1.0548	1.0015	919.6595	23940.258	5.276	148.645
22:00	6	26	404	124	104	2.00	224.0235	906.01	.9602	1.0544	1.0015	918.6853	23914.898	5.357	150.942
23:00	7	26	404	125	102	2.00	224.9250	906.01	.9617	1.0551	1.0015	920.7395	23968.373	5.391	151.888
24:00	8	26	389	132	102	2.00	226.8135	906.01	.9617	1.0528	1.0017	918.8896	23920.218	5.425	152.856
11/1/91															
01:00	9	26	379	136	102	2.00	227.2516	906.01	.9617	1.0513	1.0018	917.6636	23888.301	5.429	152.947
02:00	10	26	379	136	102	2.00	227.2516	906.01	.9617	1.0513	1.0018	917.6636	23888.301	5.429	152.947
03:00	11	26	374	139	101	2.00	228.2268	906.01	.9625	1.0509	1.0018	918.0649	23898.747	5.454	153.670
04:00	12	26	374	139	101	2.00	228.2268	906.01	.9625	1.0509	1.0018	918.0649	23898.747	5.454	153.670
04:00		SHUT	WELL	IN FOR	BUILD	UP.									



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 7 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

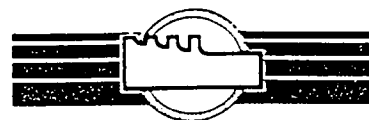
DATE: 11/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0-1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .85
METER RUN SIZE : 3.068"	DIFFERENTIAL PRESS. RANGE: 0-200 IN WC	FG $\sqrt{(I/SG)}$ = 1.0847
SEPARATOR NO : 459	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C ₂ (FU × FG) = 26.0328

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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
11/1/91		RATE	#3												
16:30	.5	36	314	115	109	2.25	190.2471	1223.18	.9556	1.0399	1.0014	1217.2451	31686.903	6.028	169.842
17:00	1	36	334	122	113	2.25	202.0818	1223.18	.9526	1.0417	1.0014	1215.5158	31641.888	6.394	180.152
17:30	1.5	36	342	128	113	2.25	209.4503	1223.18	.9526	1.0428	1.0015	1216.8238	31675.938	6.635	186.921
18:00	2	36	344	134	113	2.25	214.9275	1223.18	.9526	1.0430	1.0015	1217.2136	31686.084	6.810	191.871
19:00	3	36	334	139	111	2.25	215.7023	1223.18	.9541	1.0421	1.0016	1218.2273	31712.471	6.840	192.723
20:00	4	36	329	146	107	2.25	219.4096	1223.18	.9572	1.0424	1.0017	1222.5339	31824.581	6.983	196.728
21:00	5	36	329	150	107	2.25	222.3949	1223.18	.9572	1.0424	1.0018	1222.5922	31826.097	7.078	199.415
22:00	6	36	329	152	107	2.25	223.8726	1223.18	.9572	1.0424	1.0018	1222.6213	31826.856	7.125	200.744
23:00	7	36	329	153	107	2.25	224.6079	1223.18	.9572	1.0424	1.0018	1222.6359	31827.235	7.149	201.406
24:00	8	36	329	156	107	2.25	226.7992	1223.18	.9572	1.0424	1.0018	1222.6796	31828.373	7.219	203.378
12/1/91															
01:00	9	36	329	158	109	2.25	228.2484	1223.18	.9556	1.0419	1.0019	1220.2111	31764.114	7.250	204.265
02:00	10	36	329	159	109	2.25	228.9696	1223.18	.9556	1.0419	1.0019	1220.2257	31764.493	7.273	204.912
03:00	11	36	329	160	109	2.25	229.6885	1223.18	.9556	1.0419	1.0019	1220.2402	31764.872	7.296	205.558
04:00	12	36	329	161	109	2.25	230.4051	1223.18	.9556	1.0419	1.0019	1220.2548	31765.251	7.319	206.202
04:00		SHUT	WELL	IN FOR	BUILD	UP.									



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720' KB

PAGE: 8 OF 10

WELL NAME: THURAKINNA #3

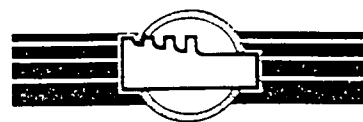
FORMATION : PATCHAWARRA

DATE: 12/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

ORIFICE METER TYPE: DANIELS							STATIC PRESSURE RANGE : 0-1500 PSIG					GAS SPECIFIC GRAVITY (SG) = .85			
METER RUN SIZE : 3.068"							DIFFERENTIAL PRESS. RANGE: 0-200 IN WC					FG $\sqrt{(I/SG)}$ = 1.0847			
SEPARATOR NO : 459							STANDARD CONDITIONS : 14.73 PSI @ 60°F					C ₂ (FU × FG) = 26.0328			
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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
12/1/91															
16:30	.5	42	374	126	107	2.25	217.2924	1223.18	.9572	1.0488	1.0013	1229.5134	32006.267	6.955	195.942
17:00	1	42	384	133	111	2.25	226.2059	1223.18	.9541	1.0491	1.0013	1226.0053	31914.947	7.219	203.398
17:30	1.5	42	374	144	109	2.25	232.2953	1223.18	.9556	1.0482	1.0015	1227.1371	31944.409	7.421	209.066
18:00	2	42	374	148	104	2.25	235.4996	1223.18	.9602	1.0500	1.0015	1235.0782	32151.130	7.572	213.321
19:00	3	42	374	153	105	2.25	239.4445	1223.18	.9587	1.0494	1.0016	1232.4902	32083.760	7.682	216.441
20:00	4	42	374	155	107	2.25	241.0045	1223.18	.9572	1.0488	1.0016	1229.8860	32015.968	7.716	217.390
21:00	5	42	374	160	107	2.25	244.8608	1223.18	.9572	1.0488	1.0017	1229.9504	32017.644	7.840	220.880
22:00	6	42	374	161	109	2.25	245.6248	1223.18	.9556	1.0482	1.0017	1227.3554	31950.092	7.848	221.102
23:00	7	42	374	165	111	2.25	248.6573	1223.18	.9541	1.0477	1.0017	1224.8207	31884.110	7.928	223.370
24:00	8	42	374	167	113	2.25	250.1598	1223.18	.9526	1.0471	1.0017	1222.2817	31818.016	7.960	224.253
13/1/91															
01:00	9	42	374	168	113	2.25	250.9076	1223.18	.9526	1.0471	1.0017	1222.2946	31818.350	7.983	224.926
02:00	10	42	374	169	114	2.25	251.6533	1223.18	.9511	1.0466	1.0018	1219.7638	31752.471	7.991	225.128
03:00	11	42	374	170	116	2.25	252.3967	1223.18	.9495	1.0460	1.0018	1216.9748	31679.869	7.996	225.276
04:00	12	42	374	173	116	2.25	254.6140	1223.18	.9495	1.0460	1.0018	1217.0131	31680.865	8.066	227.263
04:00		END OF RATE #4													



GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 9 OF 10

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

ORIFICE METER TYPE: DANIELS	STATIC PRESSURE RANGE : 0-1500 PSIG	GAS SPECIFIC GRAVITY (SG) = .85
METER RUN SIZE : 3.068"	DIFFERENTIAL PRESS. RANGE: 0-200 IN WC	FG $\sqrt{(I/SG)}$ = 1.0847
SEPARATOR NO : 459	STANDARD CONDITIONS : 14.73 PSI @ 60°F	C ₂ (FU x FG) = 26.0328

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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
13/1/91		EXTENDED RATE													
04:30	.5	34	329	152	107	2.25	223.8726	1223.18	.9572	1.0424	1.0018	1222.6213	31826.856	7.125	200.744
05:00	1	34	329	153	105	2.25	224.6079	1223.18	.9587	1.0429	1.0018	1225.1534	31892.770	7.163	201.821
05:30	1.5	34	329	153	105	2.25	224.6079	1223.18	.9587	1.0429	1.0018	1225.1534	31892.770	7.163	201.821
06:00	2	34	329	153	107	2.25	224.6079	1223.18	.9572	1.0424	1.0018	1222.6359	31827.235	7.149	201.406
07:00	3	34	334	153	109	2.25	226.3044	1223.18	.9556	1.0426	1.0018	1220.9168	31782.485	7.193	202.642
08:00	4	34	334	153	109	2.25	226.3044	1223.18	.9556	1.0426	1.0018	1220.9168	31782.485	7.193	202.642
09:00	5	34	339	154	109	2.25	228.7322	1223.18	.9556	1.0433	1.0018	1221.7125	31803.197	7.274	204.949
10:00	6	34	344	154	111	2.25	230.4092	1223.18	.9541	1.0435	1.0017	1219.9837	31758.195	7.317	206.160
11:00	7	34	344	154	113	2.25	230.4092	1223.18	.9526	1.0430	1.0017	1217.4906	31693.296	7.302	205.739
12:00	8	34	344	154	122	2.25	230.4092	1223.18	.9452	1.0407	1.0017	1205.3151	31376.345	7.229	203.681
13:00	9	34	344	154	129	2.25	230.4092	1223.18	.9394	1.0389	1.0017	1195.9048	31131.380	7.173	202.091
14:00	10	34	344	154	129	2.25	230.4092	1223.18	.9394	1.0389	1.0017	1195.9048	31131.380	7.173	202.091
15:00	11	34	344	155	123	2.25	231.1561	1223.18	.9438	1.0402	1.0018	1202.9495	31314.7667	7.239	203.940
16:00	12	34	344	155	123	2.25	231.1561	1223.18	.9438	1.0402	1.0018	1202.9495	31314.7667	7.239	203.940
17:00	13	34	344	155	120	2.25	231.1561	1223.18	.9467	1.0411	1.0018	1207.7263	31439.1141	7.267	204.750
18:00	14	34	344	155	120	2.25	231.1561	1223.18	.9467	1.0411	1.0018	1207.7263	31439.1141	7.267	204.750
19:00	15	34	344	154	114	2.25	230.4092	1223.18	.9511	1.0425	1.0017	1215.0173	31628.9107	7.288	205.321
20:00	16	34	344	154	113	2.25	230.4092	1223.18	.9526	1.0430	1.0017	1217.4906	31693.2962	7.302	205.739

CUSTOMER :	SANTOS LTD.	PERFORATIONS:	7484'-7720' KB	PAGE:	10	OF	10
WELL NAME:	THURAKINNA #3	FORMATION :	PATCHAWARRA	DATE:	13/1/91		
TEST TYPE :	MODIFIED ISOCHRONAL			OPR :	I. KURASIAK		

[illegible]

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 1 OF 2

WELL NAME: THURAKINNA 3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

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 OIL DUMPLINE		SAMPLE PRESS /KPa)	SAMPLE TEMP /°C)	AMBIENT PRESS /KPa)	AMBIENT TEMP /°C)
20:30	045	500	HP OIL	30	ACIDIFIED SATURATION BRINE SOLUTION		475	25				2275	45	102	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS /KPa)	WELLHEAD TEMP /°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS KPa)	SEPARATOR TEMP /°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS m³10³/D	OIL m³/D	WATER m³/D	L.G.R. m³/ 10⁶m³	PRESSURE	TEMPERATURE	
													/KPa)	/°C)	
8770	70	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146	13384	134	

REMARKS:

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 GAS METER RUN		SAMPLE PRESS (KPa)	SAMPLE TEMP (°C)	AMBIENT PRESS (KPa)	AMBIENT TEMP (°C)
2030	001	500	HP GAS	30	EVACUATED		0					2275	45	102	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS (KPa)	SEPARATOR TEMP (°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS m³10³/D	OIL m³/D	WATER m³/D	L.G.R. m³/ 10 ⁶ m³	PRESSURE	TEMPERATURE	
													(KPa)	(°C)	
8770	70	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146	13384	134	

REMARKS:

SAMPLE # 1,2,3

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 WATER DUMPLINE		SAMPLE PRESS ./KPa)	SAMPLE TEMP /°C)	AMBIENT PRESS KPa)	AMBIENT TEMP /°C)
2015		500	LP H ₂ O	5			0					0	45	02	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS /KPa)	WELLHEAD TEMP /°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS /KPa)	SEPARATOR TEMP /°C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @60°F	GAS m ³ 10 ³ /D	OIL m ³ /D	WATER m ³ /D	L.G.R. m ³ / 10 ⁶ m ³	PRESSURE	TEMPERATURE	
													./KPa)	/°C)	
8770	70	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146	13384	134	

REMARKS: 3 x 500cc H₂O SAMPLE COLLECTED @ 20:10-20:15 HRS.

EXPERTEST PTY. LTD.



SAMPLING DATA

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 2 OF 2

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 13/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : I. KURASIAK

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 OIL DUMPLINE		SAMPLE PRESS KPa)	SAMPLE TEMP °C)	AMBIENT PRESS KPa)	AMBIENT TEMP °C)
2135	244	500	HP OIL	30	ACIDIFIED SATURATION BRINE SOLUTION		475	25				2275	45	102	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS KPa)	WELLHEAD TEMP °C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS KPa)	SEPARATOR TEMP °C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @ 60°F	GAS m³10³/D	OIL m³/D	WATER m³/D	L.G.R. m³/10⁶m³		PRESSURE	TEMPERATURE
														KPa)	°C)
8777	69	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146		13386	134

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 GAS METER RUN		SAMPLE PRESS ,KPa)	SAMPLE TEMP /°C)	AMBIENT PRESS /KPa)	AMBIENT TEMP ,°C)
2135	305	500	HP GAS	30	EVACUATED		0					2275	45	102	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS 'KPa)	WELLHEAD TEMP /°C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS /KPa)	SEPARATOR TEMP °C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @ 60°F	GAS m³10³/D	OIL m³/D	WATER m³/D	L . G . R . m³ / 10 ⁶ m³	PRESSURE	TEMPERATURE	
													KPa)	/°C)	
8777	69	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146	13386	134	

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 WATER DUMPLINE		SAMPLE PRESS KPa)	SAMPLE TEMP °C)	AMBIENT PRESS KPa)	AMBIENT TEMP °C)
21:10		500	LP H ₂ O	5			0					2275	45	102	30
WELLHEAD DATA				SEPARATOR DATA			GRAVITIES		FLOW RATES			RATIOS		BOTTOM HOLE	
TUBING PRESS KPa)	WELLHEAD TEMP °C)	CHOKE SIZE	BS&W (%)	SEPARATOR PRESS KPa)	SEPARATOR TEMP °C)	FPV	GAS SPECIFIC GRAVITY	OIL API GRAV @ 60°F	GAS m³10³/D	OIL m³/D	WATER m³/D	L.G.R. m³ / 10 ⁶ m³	PRESSURE	TEMPERATURE	
													KPa)	°C)	
8777	69	34/64		2275	45	1.043	.85		205.739	3.204	3.204	31.146	13386	134	

REMARKS: 3 x 500cc H₂O SAMPLE COLLECTED @ 21:05-21:10HRS.

00219

	PERFORATIONS:
	FORMATION :

PERFORATIONS: 7484'-7720'KB

PAGE: 1 OF 2

FORMATION : PATCHAWARRA

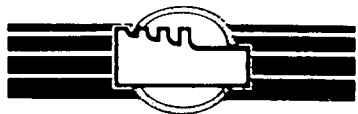
DATE: 4/1/90

OPR : C. HILDER

GAUGE DATA				UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)
ELEMENT SERIAL NO.				21374			DATE : 4/1/91			
ELEMENT RANGE				4075psi			PRESSURE LUBRICATOR :	12:40	14245	0
RECORDING SECTION SERIAL NO.				14623			RUN IN HOLE :	14:00	14224	0
DATE OF CALIBRATION:				26/6/90			ON DEPTH AT : 7400 FT	15:35	14252	0
CLOCK SERIAL NO.				2886			DATE : 7/1/91			
CLOCK RANGE				180HR			PULL OUT OF HOLE :	10:40	14459	0
LEAD SCREW TYPE				15TLS			AT SURFACE :	11:10	14459	0
							DEPRESSURE LUBRICATOR :	12:00	14466	0
ENGAGE STYLUS	DATE	4/1/91	TIME	09:00			MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS	DATE	7/1/91	TIME	12:00			N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

[illegible]

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD.

PERFORATIONS: 7484'-7720'KB

PAGE: 2 OF 2

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7/1/91

TEST TYPE : MODIFIED ISOCHRONAL

OPR : C. HILDER

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
/KPaANNULUS
PRESSURE
KPa

ELEMENT SERIAL NO.

21374

DATE : 7/1/91

ELEMENT RANGE

4075psi

PRESSURE LUBRICATOR :

17:30

14466

0

RECORDING SECTION SERIAL NO.

14623

RUN IN HOLE :

18:20

14459

0

DATE OF CALIBRATION:

26/6/90

ON DEPTH AT : 7400 FT

19:00

14459

0

CLOCK SERIAL NO.

2870

DATE : 19/1/91

CLOCK RANGE

180HR

PULL OUT OF HOLE :

06:15

14355

0

LEAD SCREW TYPE

15TLS

AT SURFACE :

12:10

14397

0

DEPRESSURE LUBRICATOR :

13:10

14397

0

ENGAGE STYLUS DATE 7/1/91

TIME

17:15

MAXIMUM BHT AT FT/M = °F/C

DISENGAGE STYLUS DATE 19/1/91

TIME

14:20

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

DATE

TIME

REMARKS

AMERADA RUN IN CONJENCTION WITH HP GAUGE #599.

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 20 FIELD THURAKINNA	WELL 03
EFF DEPTH		WELL STAT	TOOL HUNG 7400'
CASING	-	CASING PRESS	ON BOTTOM 1559 18/6
LINER	-	TUBING PRESS	OFF BOTTOM 0740 23/6
DATE	910623	ELEMENT RANGE 0 - 5039	ZERO POINT
ELEVATION		ZONE	SHUT-IN 2000 18/6
MAX TEMP	272 F	PICK-UP	ON-PROD
PERF	-	CAL SER NO. 21821	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BUILD-UP

SURVEY DATA

CO.	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
	20:00	1469.3	1469.3	.0	21:20	1742.9	1742.9	1.3
	20:02	1494.6	1494.6	.0	21:34	1728.8	1728.8	1.6
	20:03	1545.9	1545.9	.0	21:54	1716.0	1716.0	1.9
	20:05	1574.8	1574.8	.1	22:16	1711.3	1711.3	2.3
	20:07	1605.2	1605.2	.1	22:44	1707.6	1707.6	2.7
	20:12	1644.6	1644.6	.2	23:40	1704.1	1704.1	3.7
	20:17	1686.3	1686.3	.3	0:53	1704.2	1704.2	4.9
	20:20	1714.2	1714.2	.3	2:42	1701.9	1701.9	6.7
	20:22	1731.0	1731.0	.4	4:44	1700.8	1700.8	8.7
	20:25	1755.1	1755.1	.4	8:20	1702.1	1702.1	12.3
	20:26	1769.7	1769.7	.4	12:18	1703.4	1703.4	16.3
	20:29	1788.7	1788.7	.5	17:08	1706.1	1706.1	21.1
	20:31	1798.8	1798.8	.5	22:31	1708.3	1708.3	26.5
	20:34	1805.6	1805.6	.6	4:44	1708.8	1708.8	32.7
	20:36	1805.6	1805.6	.6	12:51	1710.7	1710.7	40.8
	20:36	1796.0	1796.0	.6	21:19	1713.2	1713.2	49.3
	20:41	1785.7	1785.7	.7	6:00	1715.1	1715.1	58.0
	20:45	1768.4	1768.4	.7	13:56	1716.5	1716.5	65.9
	20:49	1761.7	1761.7	.8	23:24	1718.6	1718.6	75.4
	20:56	1761.7	1761.7	.9	9:05	1722.9	1722.9	85.1
	21:00	1764.9	1764.9	1.0	20:18	1727.1	1727.1	96.3
	21:05	1764.9	1764.9	1.1	6:41	1729.9	1729.9	106.7
	21:09	1757.4	1757.4	1.1	7:40	1731.8	1731.8	107.7
	21:14	1748.9	1748.9	1.2	0:00	.0	.0	.0

LUB IN DWT = 1177 PSI / OUT = 1425 PSI

LUB IN AMERADA = 1180 PSI / OUT = 1428 PSI

7115/2

SUB-SURFACE PRESSURE SURVEY

CO.		RUN 10 FIELD THURAKINNA	WELL 03
EFF DEPTH		WELL STAT	TOOL HUNG 7394'
CASING	-	CASING PRESS	ON BOTTOM 1559 18/6
LINER	-	TUBING PRESS	OFF BOTTOM 0740 23/6
DATE	910623	ELEMENT RANGE 0 - 4950	ZERO POINT
ELEVATION		ZONE	SHUT-IN 2000 18/6
MAX TEMP	272 F	PICK-UP	ON-PROD
PERF	-	CAL SER NO. 21379	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BUILD-UP

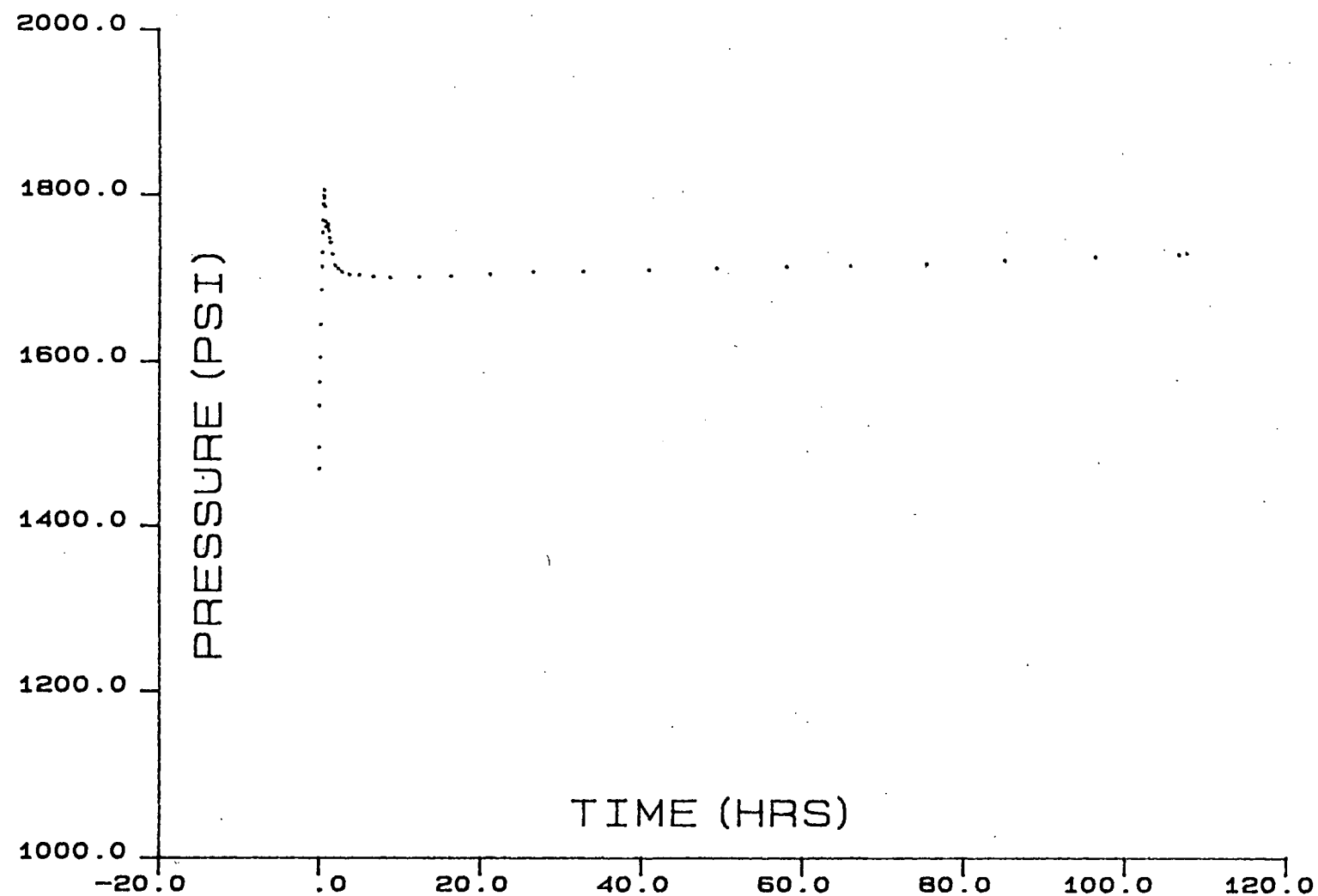
SURVEY DATA

CO.	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
	20:00	1471.1	1471.1	.0	21:45	1723.7	1723.7	1.8
	20:01	1506.2	1506.2	.0	21:58	1719.9	1719.9	2.0
	20:03	1558.6	1558.6	.0	22:22	1713.4	1713.4	2.4
	20:07	1598.2	1598.2	.1	22:56	1710.5	1710.5	2.9
	20:09	1625.6	1625.6	.2	23:53	1706.4	1706.4	3.9
	20:13	1656.8	1656.8	.2	1:01	1705.1	1705.1	5.0
	20:17	1698.0	1698.0	.3	3:14	1704.3	1704.3	7.2
	20:20	1720.7	1720.7	.3	5:48	1703.5	1703.5	9.8
	20:24	1754.8	1754.8	.4	9:29	1706.2	1706.2	13.5
	20:28	1782.2	1782.2	.5	12:59	1708.5	1708.5	17.0
	20:31	1791.9	1791.9	.5	17:53	1711.8	1711.8	21.9
	20:33	1799.3	1799.3	.5	22:46	1717.0	1717.0	26.8
	20:37	1794.5	1794.5	.6	3:22	1718.7	1718.7	31.4
	20:40	1785.6	1785.6	.7	10:04	1716.4	1716.4	38.1
	20:44	1773.7	1773.7	.7	17:01	1722.5	1722.5	45.0
	20:48	1766.8	1766.8	.8	0:23	1723.3	1723.3	52.4
	20:53	1766.8	1766.8	.9	8:43	1727.1	1727.1	60.7
	20:57	1768.5	1768.5	1.0	15:59	1727.9	1727.9	68.0
	21:02	1769.7	1769.7	1.0	23:42	1730.7	1730.7	75.7
	21:09	1759.3	1759.3	1.1	7:12	1732.7	1732.7	83.2
	21:15	1750.6	1750.6	1.3	16:19	1737.5	1737.5	92.3
	21:22	1743.9	1743.9	1.4	0:41	1740.9	1740.9	100.7
	21:32	1732.2	1732.2	1.5	7:40	1743.2	1743.2	107.7

LUB IN DWT = 1177 PSI / OUT = 1425 PSI

LUB IN AMERADA = 1171 PSI / OUT = 1435 PSI

THURAKINNA #3 BUILD-UP JUNE 1991
ELEMENT #21821 (BOT) @7400'KB



00224

		BHP/BHT GAUGE RUN DATA									
		CUSTOMER : SANTOS					PERFORATIONS: 7484' - 7720'			PAGE: 3 OF	
		WELL NAME: THURAKINNA #3					FORMATION : PATCHANARRA			DATE: 18.6.91	
		TEST TYPE : BHP								OPR : D. POITRAS	
GAUGE DATA			UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA			TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)
ELEMENT SERIAL NO.			21379	21821	N/A	DATE : 18.6.91					
ELEMENT RANGE psi			4825	4750		PRESSURE LUBRICATOR :			1340	8115	0
RECORDING SECTION SERIAL NO.			59288	14619		RUN IN HOLE :			1541	8129	0
DATE OF CALIBRATION:			4.6.91	4.6.91		ON DEPTH AT : 7400 FT			1559	8129	0
CLOCK SERIAL NO.			3	1		DATE : 23/6/91					
CLOCK RANGE hrs			120	120		PULL OUT OF HOLE :			0740	9818	0
LEAD SCREW TYPE			15 Tls	15 Tls		AT SURFACE :			0900	9825	0
						DEPRESSURE LUBRICATOR :			1006	9825	0
ENGAGE STYLUS DATE 18.6.91 TIME			1335	1335		MAXIMUM BHT AT 7400 FT = 272 °F			1425		
DISENGAGE STYLUS DATE 23/6/91 TIME			1015	1015		N.B. ALL DEPTHS ARE MEASURED FROM K.B.					

DATE	TIME	REMARKS
18.6.91	1340	GAUGES IN LUBE - PRESSURED UP
	1440	LUBE DEPRESSURED.
	1540	LUBE PRESSURED UP
	1541	R.I.H.
	1559	GAUGES HUNG AT 7400' KB.
18/6/91	2000	S.W.I.
23/6/91	0740	PULL AMERADAS OUT OF HOLE
	0800	AT SURFACE BLEED OFF PRESSURE
	0900	PRESSURE UP LUBE
	1006	DEPRESSURE LUBE - RIG DOWN GAUGES.

00225

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWARDILLA 5033

PH. (08) 354 0488 TELEX AA87183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Sunday, 23rd June 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	THURAKINNA 3	PATCHAWARRA

STATIC PRESSURE GRADIENT REPORT

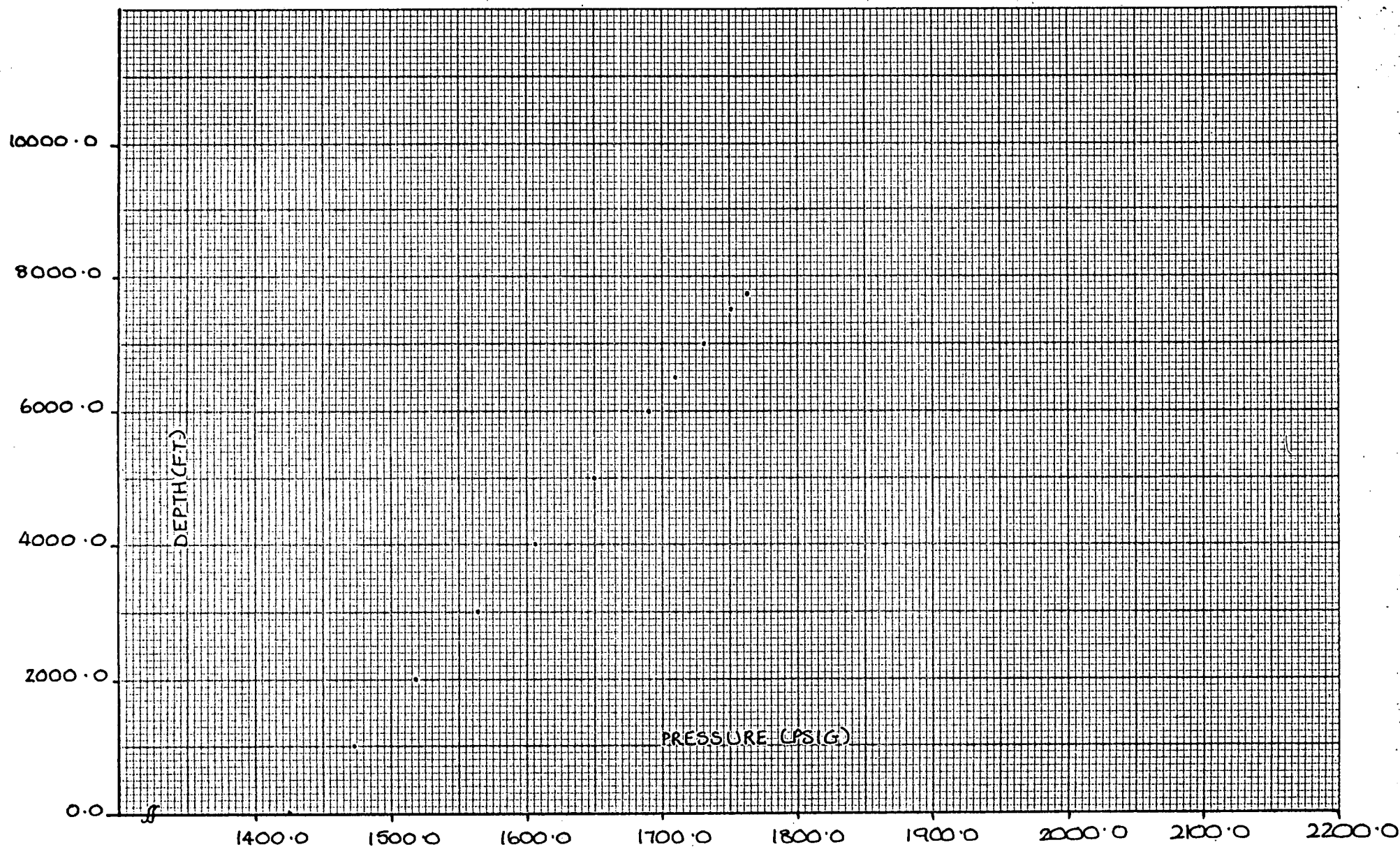
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21379	4825	4/ 6/91
Bottom	21821	4750	4/ 6/91

WELL DATA	
PARAMETER	VALUE
DWT In	1425 PSIG
DWT Out	1424 PSIG
Max BHT	264 F

DEPTH FT. KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.5800	1425.4	---	0.5710	1432.8	---
1000	0.5995	1473.5	0.048	0.5900	1480.4	0.048
2000	0.6175	1517.8	0.044	0.6080	1525.6	0.045
3000	0.6360	1563.4	0.046	0.6250	1568.3	0.043
4000	0.6535	1606.5	0.043	0.6405	1607.2	0.039
5000	0.6710	1649.7	0.043	0.6570	1648.6	0.041
6000	0.6875	1690.4	0.041	0.6735	1690.0	0.041
6500	0.6955	1710.1	0.039	0.6800	1706.3	0.033
7000	0.7040	1731.0	0.042	0.6875	1725.2	0.038
7500	0.7120	1750.8	0.040	0.6960	1746.5	0.043
7729	0.7165	1761.9	0.049	0.6995	1755.3	0.038
LUB.	0.5805	1426.6	---	0.5675	1424.0	---

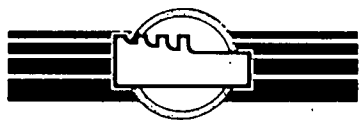
GENERAL REMARKS

THURAKINNA # 3 — STATIC PRESSURE GRADIENT — 23/6/91
ELEMENT # 21379/4825 (TOP)



EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA



CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 4 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 23/6/91

TEST TYPE : STATIC GRADIENT

OPR: D. POITRAS

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	N/A	DATE : 23/6/91			
ELEMENT RANGE PSI	4825	4750		PRESSURE LUBRICATOR :	1050	9825	0
RECORDING SECTION SERIAL NO.	59288	14619		RUN IN HOLE :	1111	9825	0
DATE OF CALIBRATION:	4/6/91	4/6/91		ON DEPTH AT : 7729 FT/M	1227	9818	0
CLOCK SERIAL NO.	2180	2530		DATE : 23/6/91			
CLOCK RANGE HOUR	3	3		PULL OUT OF HOLE :	1237	9818	0
LEAD SCREW TYPE T.S.	15	15		AT SURFACE :	1302	9818	0
				DEPRESSURE LUBRICATOR :	1312	9818	0
ENGAGE STYLUS DATE 23/6/91 TIME	1037	1037		MAXIMUM BHT AT 7729 FT/M = 264 °F/C			
DISENGAGE STYLUS DATE 23/6/91 TIME	1325	1325		N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
23/6/91	1045	GAUGES IN LUBE - ATMOSPHERE
	1050	PRESSURE UP LUBE
	1100	DEPRESSURE LUBE - ATMOSPHERE
	1105	PRESSURE UP LUBE
	1257	AT SURFACE DEPRESSURE LUBE - ATMOSPHERE
	1302	PRESSURE UP LUBE
	1312	DEPRESSURE LUBE - ATMOSPHERE
	1317	RIG DOWN AMERADAS.

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA07183

FAX (08) 43 7400

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Saturday, 15th June 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	THURAKINNA 3	PATCHAWARRA

FLOWING 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	8067 PSIG <i>KPA</i>
DWT Out	8129 PSIG <i>KPA</i>
Max BHT	273 F

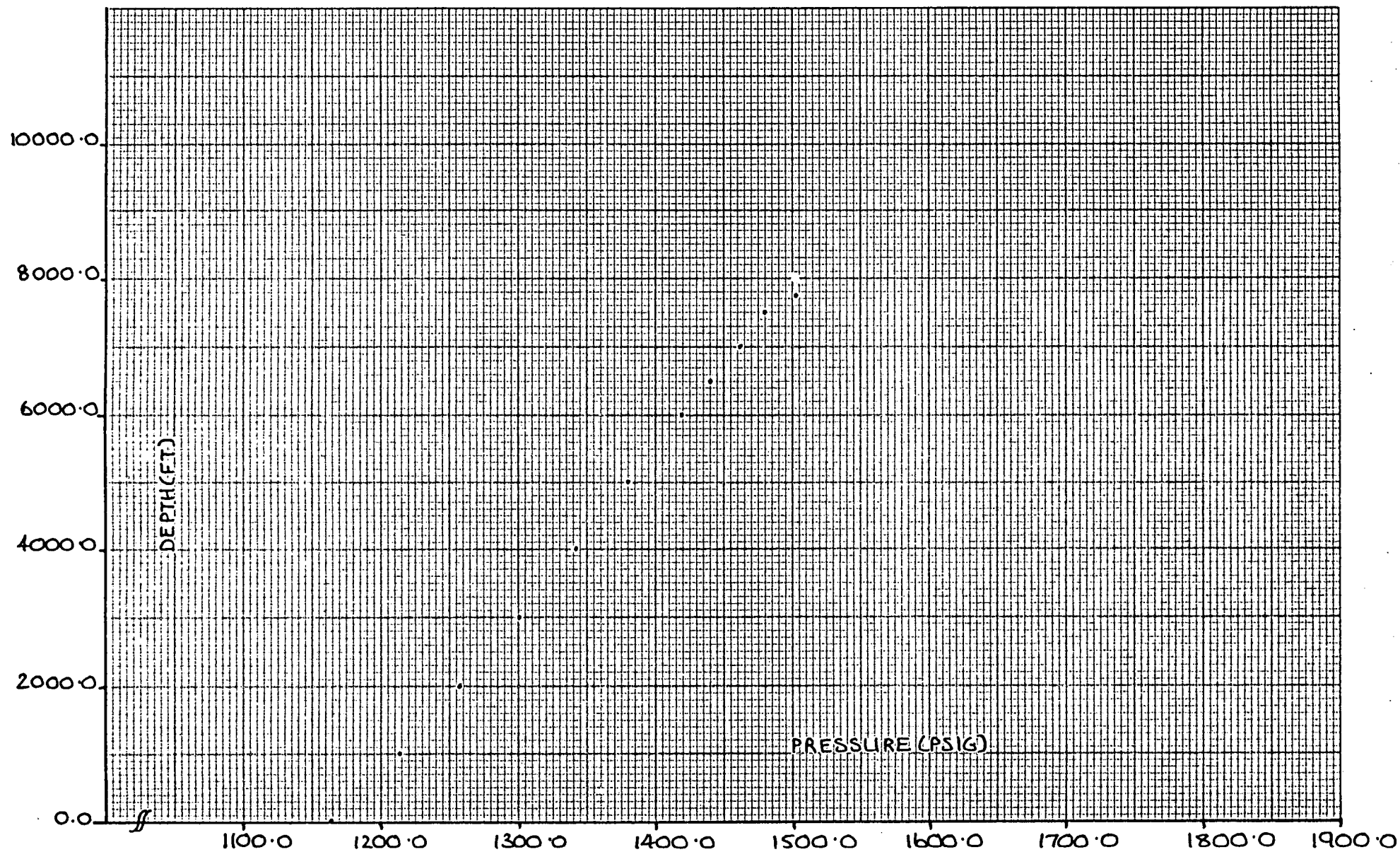
1170

1179

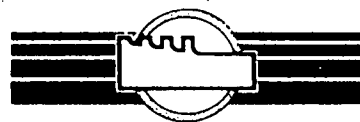
DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.4720	1159.3	-----	0.4638	1163.7	-----
1000	0.4910	1206.1	0.047	0.4837	1213.7	0.050
2000	0.5100	1252.9	0.047	0.5012	1257.6	0.044
3000	0.5280	1297.3	0.044	0.5185	1301.0	0.043
4000	0.5458	1341.1	0.044	0.5350	1342.4	0.041
5000	0.5629	1383.3	0.042	0.5500	1380.1	0.038
6000	0.5790	1422.9	0.040	0.5656	1419.2	0.039
6500	0.5873	1443.4	0.041	0.5740	1440.3	0.042
7000	0.5956	1463.8	0.041	0.5825	1461.6	0.043
7500	0.6030	1482.1	0.037	0.5893	1478.7	0.034
7729	0.6128	1506.2	0.106	0.5990	1503.0	0.106
LUB.	0.4788	1176.0	-----	0.4700	1179.3	-----

GENERAL REMARKS

THURAKINNA # 3 — FLOWING PRESSURE GRADIENT — 15/6/91
ELEMENT # 21821/4750 (BOT)



EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 1 OF 1

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 15/6/91

TEST TYPE : FLOWING GRADIENT

OPR : D. POITRAS

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)
ELEMENT SERIAL NO.	21379	21821	N/A	DATE : 15/6/91			
ELEMENT RANGE PSI	4825	4750		PRESSURE LUBRICATOR :	1321	8067	0
RECORDING SECTION SERIAL NO.	59288	14619		RUN IN HOLE :	1339	8046	0
DATE OF CALIBRATION: 290°F	4/6/91	4/6/91		ON DEPTH AT : 7729 FT	1451		
CLOCK SERIAL NO.	2180	2518		DATE : 15/6/91			
CLOCK RANGE HOURS	3	3		PULL OUT OF HOLE :	1501	8095	0
LEAD SCREW TYPE	15	15		AT SURFACE :	1528	8129	0
				DEPRESSURE LUBRICATOR :	1538	8129	0
ENGAGE STYLUS DATE 15/6/91 TIME	1307	1307		MAXIMUM BHT AT 7729 FT = 273°F			
DISENGAGE STYLUS DATE 15/6/91 TIME	1550	1550		N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
15/6/91	1314	GAUGES IN LUBRICATOR - ATMOSPHERE PRESSURE
"	1321	PRESSURE UP LUBRICATOR
"	1331	DEPRESSURE LUBRICATOR - ATMOSPHERE PRESSURE
"	1337	PRESSURE UP LUBRICATOR
"	1339	RUN IN HOLE
"	1523	AT SURFACE - BLEED OFF LUBRICATOR TO ATMOSPHERE
"	1528	PRESSURE UP LUBRICATOR
"	1538	DEPRESSURE LUBRICATOR - ATMOSPHERE PRESSURE
"	1539	RIG OUT GAUGES.

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANHILLA 5033

PH. (08) 354 0400 TELEX AA07183

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138 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Tuesday, 18th June 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	THURAKINNA 3	PATCHAWARRA

FLOWING PRESSURE GRADIENT REPORT

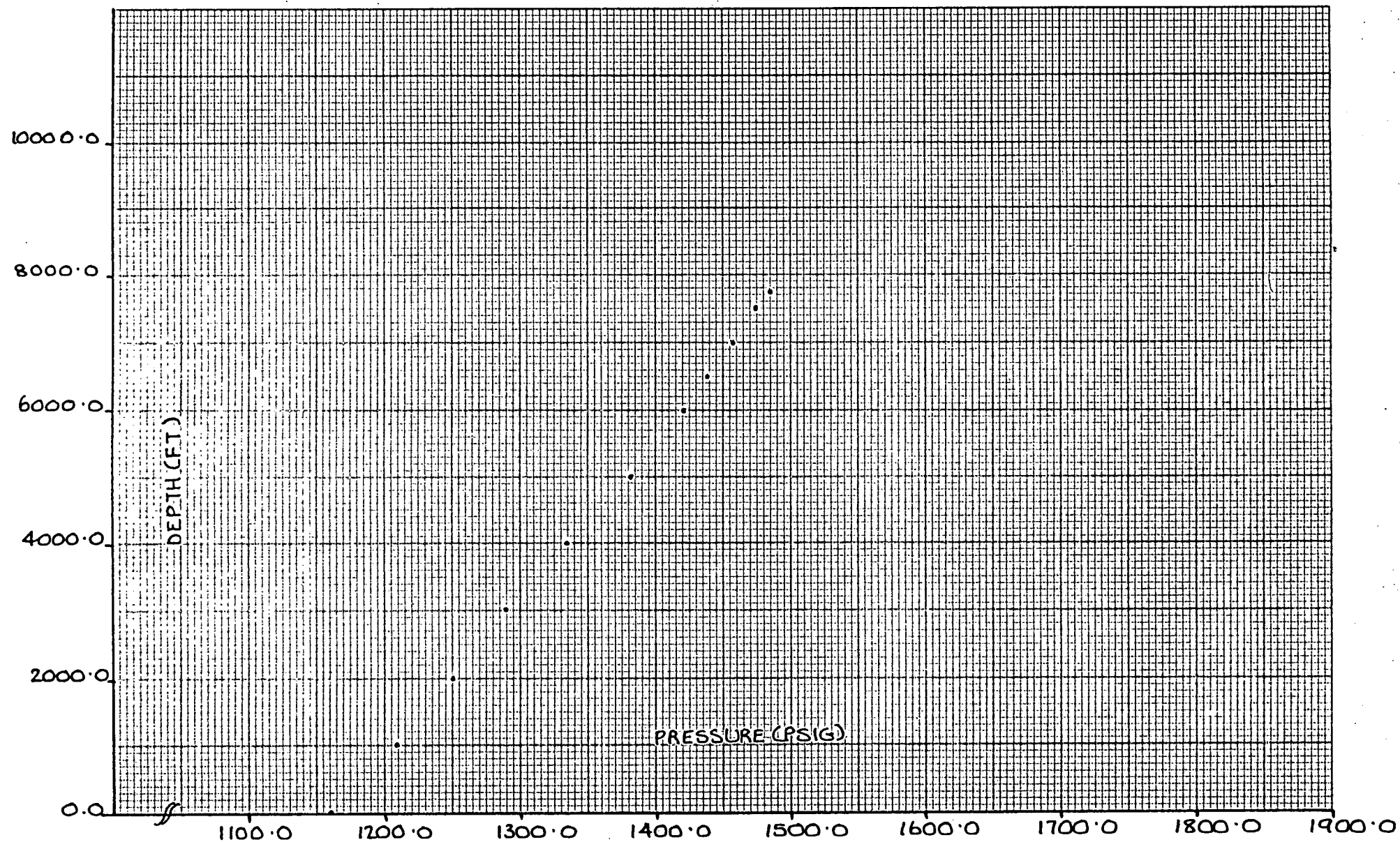
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21379	4825	4/ 6/91
Bottom	21821	4750	4/ 6/91

WELL DATA	
PARAMETER	VALUE
DWT In	1170 PSIG
DWT Out	1173 PSIG
Max DWT	274 F

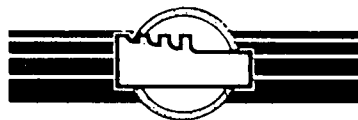
TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.4730	1161.7	----	0.4713	1182.6	----
1000	0.4920	1208.5	0.047	0.4885	1225.7	0.043
2000	0.5088	1250.0	0.041	0.5043	1265.4	0.040
3000	0.5250	1289.9	0.040	0.5190	1302.3	0.037
4000	0.5431	1334.5	0.045	0.5350	1342.4	0.040
5000	0.5623	1381.8	0.047	0.5525	1386.3	0.044
6000	0.5781	1420.7	0.039	0.5676	1424.2	0.038
6500	0.5853	1438.5	0.036	0.5750	1442.8	0.037
7000	0.5930	1457.4	0.038	0.5820	1460.4	0.035
7500	0.5998	1474.2	0.034	0.5887	1477.2	0.034
7729	0.6041	1484.8	0.046	0.5935	1489.2	0.053
LUB.	0.4773	1172.3	----	0.4689	1176.5	----

GENERAL REMARKS

THURAKINNA # 3 — FLOWING PRESSURE GRADIENT — 18/6/91
ELEMENT # 21379/4825 (TOP)



EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 2 OF

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

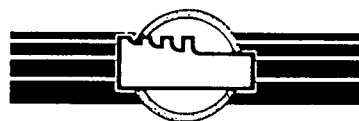
DATE: 18/6/91

TEST TYPE : FLOWING GRADIENT

OPR : D. POTRAS

GAUGE DATA	UPPER PRESSURE GAUGE	LOWER PRESSURE GAUGE	TEMPERATURE GAUGE	RUN DATA	TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)
ELEMENT SERIAL NO.	21379	21821	N/A	DATE : 18/6/91			
ELEMENT RANGE PSI	4825	4750		PRESSURE LUBRICATOR :	0842	8067	0
RECORDING SECTION SERIAL NO.	59288	14619		RUN IN HOLE :	0900	8067	0
DATE OF CALIBRATION:	4/6/91	4/6/91		ON DEPTH AT : 7729 FT	1017	8081	0
CLOCK SERIAL NO.	2518	2180		DATE : 18/6/91			
CLOCK RANGE HRS.	3	3		PULL OUT OF HOLE :	1027	8081	0
LEAD SCREW TYPE	15 TLS	15 TLS		AT SURFACE :	1101	8088	0
				DEPRESSURE LUBRICATOR :	1111	8088	0
ENGAGE STYLUS DATE 18/6/91 TIME	0827	0827		MAXIMUM BHT AT 7729 FT = 274 °F			
DISENGAGE STYLUS DATE 18/6/91 TIME	1123	1123		N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

DATE	TIME	REMARKS
18/6/91	0836	GAUGES IN LUBE - ATMOSPHERE
	0842	PRESSURE UP LUBE
	0852	DEPRESSURE LUBE - ATMOSPHERE
	0857	PRESSURE UP LUBE
	0900	RUN IN HOLE
	1056	AT SURFACE - DEPRESSURE LUBE - ATMOSPHERE
	1101	PRESSURE UP LUBE
	1111	DEPRESSURE LUBE - ATMOSPHERE
	1116	RIG OUT GAUGES.



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 1 OF 7

WELL NAME: THURAKINNA "3"

FORMATION : PATCHAWARRA

DATE: 13/6/91

TEST TYPE : LET/BHP

OPR : D. POITRAS

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE %	PRESSURE (KPa)	TEMP (°C)	GAS m ³ /10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ /10 ³	OIL m ³	WATER m ³	L G R m ³ /10 ⁶ m ³	
13/6/91											Lat	Q _g :	100.174	E3m ³ /d	✓
1300		ARRIVE LOCATION - RIG IN SEPARATOR									52 hrs	Q _c :	1.571	m ³ /d	✓
1605		DIVERT FLOW THRU FLOW LINES - BY-PASS SEPARATOR									only	Q _w :	2.033	m ³ /d	✓
1630		8129													
		FLOW THRU SEPARATOR													
1700	.5	8136	0	48	100	8046	47	95.124	0	0	1.982	0	0		
1800	1.5	8115	"	49	"	8012	48	95.721	0	0	5.976	0	0		
2200	5.5	8074	"	49	"	7964	46	101.542	2.004	2.802	22.894	.334	.467	47.3	
14/6/91															
0200	9.5	8157	0	48	100	8053	44	98.389	4.806	1.602	39.292	1.135	.734	65.1	
0600	13.5	8040	"	50	"	7929	45	104.889	4.008	2.004	56.774	1.803	1.068	57.3	
0800	15.5	8046	"	52	"	7929	50	103.284	1.608	2.400	65.381	1.937	1.268	38.8	
1000	17.5	8067	"	51	"	7956	48	103.138	1.608	2.400	73.976	2.071	1.468	38.9	
1200	19.5	8136	"	51	"	8040	48	100.498	2.400	2.400	82.351	2.271	1.668	47.8	
1400	21.5	8157	"	52	"	8060	47	96.827	4.812	2.400	90.420	2.672	1.868	74.5	
1600	23.5	8233	"	51	"	8136	46	95.946	.804	.804	98.416	2.739	1.935	16.8	
1800	25.5	8136	"	51	"	8019	48	102.546	—	4.008	106.962	2.739	2.269	39.1	
2200	29.5	8040	"	50	"	7922	47	106.214	2.406	1.200	124.664	3.140	2.469	34.0	
15/6/91															
0200	33.5	7922	0	50	100	7791	45	110.432	2.406	2.004	143.069	3.541	2.803	39.9	
0600	37.5	7950	"	51	"	7818	47	110.408	2.004	2.406	161.470	3.875	3.204	39.9	
0800	39.5	7971	"	52	"	7840	49	109.039	.804	4.008	170.557	3.942	3.538	44.1	
1000	41.5	7998	"	52	"	7867	45	108.047	4.812	.804	179.561	4.343	3.605	51.9	



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 2 OF 7

WELL NAME: THURAKINNA #3

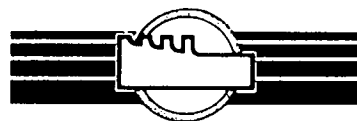
FORMATION : PATCHAWARRA

DATE: 15/6/91

TEST TYPE : LET / BHP

OPR : D. POITRAS

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE %	PRESSURE (KPa)	TEMP (°C)	GAS m ³ /10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ /10 ³	OIL m ³	WATER m ³	L G R	
15/6/91															
1200	43.5	8026	0	52	100	7902	46	106.929	—	1.608	179.561	4.343	3.605	15.1	
1340						RIH		FLOWING GRADIENT							
1400	45.5	8067	0	53	100	7950	47	105.392	4.008	3.204	191.255	4.677	4.006	68.4	
1600	47.5	8157	0	53	"	8040	48	99.938	1.608	1.608	205.583	4.811	4.140	32.2	
1800	49.5	8177	"	52	"	8088	48	98.601	.804	1.608	213.800	4.877	4.274	24.5	
2200	53.5	8205	"	52	"	8102	48	97.549	.804	2.004	230.058	5.012	4.608	28.8	
16/6/91															
0130	5.7	8240	0	52	100	8136	47	93.800	4.123	2.291	243.391	5.613	4.942	68.4	
0135	SEPARATOR AT PLANT SHUT DOWN - WELL SHUT IN CHOKE CLOSED														
0200		9280	CLOSE TEST FLANGES - OPEN BLOCK VALVE ON PIPELINE BY-PASS SEPARATOR												
0600		9922	STANDBY FOR PLANT SEPARATOR & WELL TO BE STARTED UP AGAIN												
0800		9598	HI-LO SAFETY VALVE CLOSED - GO TO MOOMBA TO READ CHARTS FROM FLOWING GRADIENT												
1130			OPERATOR GOT WELL FLOWING BACK ON LINE ON 100% CHOKE												
1340			ARRIVE BACK AT LOCATION - DIVERT FLOW THRU TEST FLANGES & FLOW LINES BY-PASS SEPARATOR												
1400		7950	0	51	100	OPEN THRU SEPARATOR - FLOW ON LET.									
1600	59	8046	0	50	100	7929	46	107.679	—	—	252.364	5.613	4.942	—	
1800	61	8040	0	50	100	7922	47	106.213	3.204	3.204	261.215	5.880	5.209	60.3	
2200	65	8074	0	50	"	7984	47	102.995	1.200	2.004	278.381	6.080	5.543	31.1	
17/6/91															
0200	69	7984	0	50	100	7867	47	104.715	2.004	2.406	295.834	6.414	5.944	42.1	
0600	73	8019	"	50	"	7902	46	101.053	.804	2.004	312.676	6.548	6.278	27.8	



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 3 OF 7

WELL NAME: THURAKINNA #3

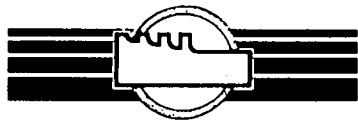
FORMATION : PATCHAWARRA

DATE: 17/6/91

TEST TYPE : LET / BHP

OPR : D. POITRAS

TIME		WELLHEAD DATA				SEPARATOR		FLOW RATES			CUMULATIVE PRODUCTION			LGR
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE %	PRESSURE (KPa)	TEMP (°C)	GAS m ³ /10 ³ /D	OIL m ³ /D	WATER m ³ /D	GAS m ³ /10 ³	OIL m ³	WATER m ³	m ³ /10 ⁶ m ³
17/6/91														
0800	75	8019	0	52	100	7895	49	100.682	3.204	2.400	312.676	6.548	6.278	
1000	77	8033	0	52	"	7929	46	99.604	—	.792	321.066	6.815	6.478	55.66
1200	79	8046	0	52	"	7929	46	99.042	1.608	2.400	329.366	6.815	6.544	7.95
1400	81	8019	0	52	"	7964	47	97.262	2.400	1.608	337.619	6.949	6.744	40.47
1600	83	8040	0	52	"	7929	49	98.755	1.608	2.400	345.724	7.149	6.878	41.21
1800	85	8040	"	52	"	7936	49	98.250	.804	2.400	353.953	7.283	7.078	40.59
2200	89	8081	"	53	"	7971	48	96.574	1.602	2.004	362.141	7.350	7.278	32.6
18/6/91														
0200	93	8067	0	52	100	7971	48	96.574	2.004	2.802	378.236	7.617	7.612	37.3
0600	97	8046	"	51	"	7936	47	98.191	1.200	1.200	394.332	7.951	8.079	49.8
0800	99	8067	"	52	"	7971	47	96.740	1.608	1.608	410.697	8.151	8.279	24.4
0900	R.I.H. WITH AMERADA GAUGES FOR FLOWING GRADIENT #2 - SEE B.H.P. REPORT FOR DETAILS													
1000	101	8081	0	50	100	7971	45	96.832	.804	2.400	418.759	8.285	8.413	33.2
1200	103	8102	"	52	"	7991	46	96.065	3.204	2.400	426.828	8.352	8.613	33.1
1325	ONE GAS AND ONE CONDENSATE SAMPLE TAKEN. 8019 47 GAS CYLINDER # SPE 617, COND. CYLINDER # SPE 019													
1340	8074 53 AMERADAS IN LUBE :- LUBE PRESSURED UP FOR BHP SURVEY													
1400	105	8122	0	53	100	8019	48	95.185	.804	1.608	434.833	8.619	8.813	58.3
1425	ONE GAS AND ONE CONDENSATE SAMPLE TAKEN. 8033 48 GAS CYLINDER # SPE 012, COND CYLINDER # SPE 083													
1440	8136 AMERADAS IN LUBE DEPRESSURED.													
1540	AMERADAS IN LUBE PRESSURED UP.													
1541	8129 RUN GAUGES IN HOSE WITH 120 HOURS FOR BHP SURVEY - SEE BHP REPORT FOR DETAILS													



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 4 OF 17

WELL NAME: THURAKINNA #3

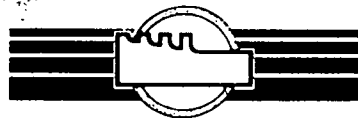
FORMATION : PATCHAWARRA

DATE: 18.6.91

TEST TYPE : LET / BHP

OPR : D. POITRAS

TIME		WELLHEAD DATA				SEPERATOR		FLOW RATES			CUMULATIVE PRODUCTION				
DATE	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (KPa)	WELLHEAD TEMP (°C)	CHOKE SIZE	PRESSURE (KPa)	TEMP (°C)	GAS NUMBER m ³ /D	OIL NUMBER m ³ /D	WATER NUMBER m ³ /D	GAS NUMBER m ³ /D	OIL NUMBER m ³	WATER NUMBER m ³	LGR	
TIME					%									m ³ /10 ⁶ m ³	
18.6.91					100										
1559		8129													
1600	107	8129	0	51	100	8040	46	94.040	.804	1.608	450.601	8.753	9.081	25.67	
1630		8136	0	52											
1700	108	8150	0	52											
1730		8136	0	52											
1800	109	8123	0	52	100	8019	46	93.890	2.400	1.608	458.425	8.953	9.215	42.69	
1830		8081	0	52											
1900	110	8109	0	52											
1930		8088	0	51											
2000	111	8046	0	51	100	7936	45	98.304	.804	1.608	466.617	9.020	9.349	24.54	
2000	111	SHUT WELL IN FOR BHP SURVEY - END OF LET													
2015		9846	0												
2030		10336	"												
2045		10080	"												
2100	1	10080	"												
2115		9956	"												
2130		9880	"												
2145		9825	"												
2200	2	9806	"												
2215		9777	"												
2230		9763	"												



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 5 OF 7

WELL NAME: THUKAKINNA #3

FORMATION : PATCHAWARRA

DATE: 18-6-91

TEST TYPE : LET / BHP

OPR : D. POITRAS

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE	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		
18-6-91															
2245		9750	0												
2300	3	9743	"												
2315		9743	"												
2330		9736	"												
2345		9729	"												
2400	4	9722	"												
19/6/91															
0200	6	9701	0												
0600	10	9687	"												
1000	14	9694	"												
1400	18	9694	"												
1800	22	9701	"												
2200	26	9715	"												
20/6/91															
0200	30	9722	"												
0600	34	9722	"												
1000	38	9729	"												
1400	42	9736	"												
1800	46	9736	"												
2200	50	9743	"												



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484' - 7720'

PAGE: 6 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 21/6/91

TEST TYPE : L.E.T./B.H.P.

OPR: D. POITRAS

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION						
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD m³10³/D	OIL BPD m³/D	WATER BPD m³/D	GAS MMSCF m³10³	OIL BBLS m³	WATER BBLS m³				
21/6/91																	
0200	54	9750	0														
0600	58	9756	"														
1000	62	9763	"														
1400	66	9763	"														
1800	70	9770	"														
2200	74	9777	"														
22/6/91																	
0200	78	9784	"														
0600	82	9791	"														
1000	86	9798	"														
1400	90	9805	"														
1800	94	9805	"														
2200	98	9812	"														
23/6/91																	
0200	102	9818	"														
0600	106	9818	"														
0740		9818	"	PULL AMERADAS OUT OF HOLE													
0800	108	9818	"	AT SURFACE WITH AMERADAS - LEAVE IN LUBE - SEE B.H.P. REPORT FOR DETAILS.													
1020		PREPARE AMERADAS FOR STATIC GRADIENT.															
1111		R.I.H. FOR STATIC GRADIENT - SEE B.H.P. REPORT FOR DETAILS															
1200	112	9818	0														

0023

TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7484'-7720'

PAGE: 7 OF 7

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 23/6/91

TEST TYPE : L.E.T. / B.H.P.

OPR : D. POITRAS

[illegible]

DATE 4/7/91

SADME

Brief Well

History:

Thurakinna #3 was drilled to a TD of 7895' KB in December 1987 to appraise the downdip gas potential of the Thurakinna structure in the multiple Patchawarra sands. The proximity of the Thurakinna Field to the Wanchoocha and Daralingie fields where Patchawarra oil occurs, suggested the possibility of an oil leg at Thurakinna. This was to be investigated at Thurakinna #3. The well is located approximately 1.2 km north east of Thurakinna #1.

Logs indicate the well intersected 28 feet of net pay in the Patchawarra formation. Two DST's were run, DST #1 over the 74-2/74-6 sands which flowed gas to surface at 5.2 MMscf/d with 260 BCPD. DST #2 flowed gas to surface over the 74-7/75-2 sands at RTSTM. The 76-4 and 77-0 sands were not tested.

In August 1990 the well was completed with a single 2-7/8" NK3SB L80 frac string, and the Patchawarra 77-0 sand was perforated using 2-1/8" Friable Enerjets at 6 spf and 90° phasing.

A single rate flow and buildup pressure survey was conducted in order to determine reservoir parameters for use in fracture stimulation design. The 77-0 sand produced 197.0 E3 m³/d gas with 4 m³/d condensate and 4 m³/d water through a 22/64" choke with a FTHP of 16150 kPa and therefore did not warrant a fracture stimulation.

In October, 1990 the remaining Patchawarra sands 74-2, 74-6, 74-7 and 76-4 were perforated through tubing. During subsequent testing the well flowed:

Modified Isochronal (January 1991): 206 E3 m³/d gas with 5 m³/d condensate and 4 m³/d water through a 34/64" choke with a FTHP of 8790 kPa.

FAXED 4/7/91
PET. ENG. SUPT.
MOOMBA

LET (June 1991): 97 E3 m³/d gas with 1 m³/d condensate and 2 m³/d water through a 100% choke with a FTHP of 8100 kPa.

The above production testing indicated that the gas rate and also the liquids content (4 BBF/MMSCF) were low when compared to DST #1 (50 BBL/MMSCF). It may be that the Patchawarra 74-2 sand is either damaged or was not accessed due to insufficient penetration of the Enerjet perforations to the formation (no increase in FTHP was observed during through tubing perforation of the 74-2 sand).

Purpose of Programme:

To reperforate the Patchawarra 74-2 and 74-6 sands through tubing.

Present Status of Well:

On-line flowing Patchawarra gas to Daralingie gas satellite.

Location:

Block : Murta
Latitude : 28° 25' 19.3" S
Longitude: 140° 00' 24.8" E
Seismic : VP292 on line 85-XGM

Elevation:

Ground Level : 81' ASL
Kelly Bushing: 97' ASL
KB to top of Tubing spool: 16.26'

Casing Details:

Surface

9-5/8" 36# J55 LT&C casing was run to 994.87' as follows:

Description	Length (ft)	From (ft)	To (ft)
KB to top of Bradenhead	18.02	0.00	18.02
24 jts 9-5/8" 36# J55	934.64	18.02	952.66
Float collar	1.66	952.66	954.32
1 jt 9-5/8" 36# J55	39.50	954.32	993.82
Float shoe	1.05	993.82	994.87

Cemented with 550 sx Class 'A' with returns to surface.

Production

Ran 7" casing to 7886' as follows:

<u>Description</u>	<u>Length (ft)</u>	<u>From (ft)</u>	<u>To (ft)</u>
KB to top of tubing spool	16.26	0.00	16.26
Tubing spool	1.76	16.26	18.02
1 jt (cut) 7" 26# J55	16.97	18.02	34.99
158 jts 7" OD 23# J55	6219.43	34.99	6254.42
30 jts 7" OD 26# J55	1184.09	6254.42	7438.51
1 jt 7" OD 26# N80	9.83	7438.51	7448.34
10 jts 7" OD 26# J55	394.90	7448.34	7843.24
Float Collar	1.53	7843.24	7844.77
1 jt 7" OD 26# J55	39.43	7844.77	7884.20
Float shoe	1.80	7884.20	7886.00

Cemented with 140 sx Class 'A' cement plus 4% gel and 1.4% HR-7, followed by 250 sx Austwell Hi-Temp Blend cement plus 15% salt, 0.75% D65 and 0.4% D28.

Perforations:

Patchawarra

<u>Sand</u>	<u>Interval (ft-KB)</u>
74-2	7454 - 7484
74-6	7487 - 7504
74-7	7526 - 7550
76-4	7666 - 7672
2-1/8" Enerjets, 4 spf, 0° phasing	
77-0	7720 - 7738
2-1/8" Friable Enerjets, 6 spf, 90° phasing	

Wellhead

Diagram: See Attachment #1

Downhole

Diagram: See Attachment #2

PBTD: 7840' KB (tagged during completion)

TD: 7895' KB

Reservoir

Pressure: 12.1 MPa (1760 psi) at 7729' KB - June 1991 SGS

Reservoir

Temperature: 135°C (275°F) - January 1991 Modified Isochronal

Cost Code: 813/3691/813/XXX

CONTENTS

PROCEDURE

- A. Wireline
- B. Perforating
- C. Cleanup Flow

ATTACHMENTS

- 1. Wellhead Diagram
- 2. Downhole Diagram
- 3. CBL/VDL/GR/CCL Log Section
- 4. DLL/MSFL/GR Log Section

PROCEDUREA. Wireline

1. Shut in well. Rig up swab valve, BOP's and lubricator. Function check BOP's. Pressure test swab valve and lubricator to full SIWHP.
2. RIH 2.19" gauge ring and tag PBTD at approximately 7840' KB.

NOTE: Ran 1.75" blind box to 7838' KB on 12/6/91.

B. Perforating

Prior to proceeding with the perforation operation, refer to the Standard Procedure SANPE 3-1 and ensure all relevant persons are familiar with it.

NOTE: Ensure 2.19" gauge ring has been run to PBTD prior to perforating.

1. Rig up Schlumberger. Rig up the mast truck, swab valve, BOP's and the lubricator.
2. Function test the Schlumberger BOP's and pressure test the lubricator/BOP's to 20.7 MPa (3000 psi) against the swab valve.
3. Rig to perforate the following intervals with 2-1/8" Enerjets at 4 spf and 0° phasing.

Patchawarra	Interval	Length of Perfs	Gun No.
	(ft-KB)	(ft)	
74-6	7487-7504	17	1
74-2	7454-7484	30	2

NOTE: a) Measure the distance from the CCL to the top and bottom shots.

b) Correlation Logs - CBL/VDL/GR/CCL of 3/8/90

(Attachment #3)

- DLL/MSFL/GR Run #1 of 9/12/87

(Attachment #4)

4. With the well shut in on the wing valve RIH with gun #1 to shoot the 74-6 sand interval (7487'-7504' KB).
5. When on depth, open the well to flare and adjust the choke to flow the well at a FWHP of 3.4 MPa (500 psi) lower than the final SIWHP or to a maximum rate of 150 E3 m³/d (5.3 MMscf/d). Record all pressures on a chart recorder. Monitor the FTP and wait until a stable FTP is established. Estimate rate and describe flare.
6. Correlate guns on depth with the well flowing. Log up over at least 3 collars to the correct depth and shoot. Monitor the FTP and wait until a stable FTP is established. Estimate the gas rate and describe the flare. Shut in the well on the wing valve. Monitor the SITP for 20 minutes. POH.

NOTE: Check for misfires on the perforating guns.

7. With the well shut in on the wing valve RIH with gun #2 to shoot the 74-2 sand interval (7454'-7484' KB).
8. Correlate on depth and shoot with well shut in. Monitor SITP for 20 minutes. POH.

NOTE: Check for misfires on perforating gun.

9. Rig down Schlumberger.

NOTE: The well site Petroleum Engineer is required to correct the downhole diagram and complete the log quality control sheet and send them to Adelaide via the Petroleum Engineering Superintendent in Moomba.

C. Cleanup Flow

1. Flare the well to clean up on the same choke setting used when the 74-6 sand was perforated (as per step B.6) for 2 hours. Monitor pressures on chart recorder. Estimate flow rate and describe flare.
2. Shut well in and secure.
3. Handover well to Production.



PETROLEUM ENGINEERING DEPARTMENT

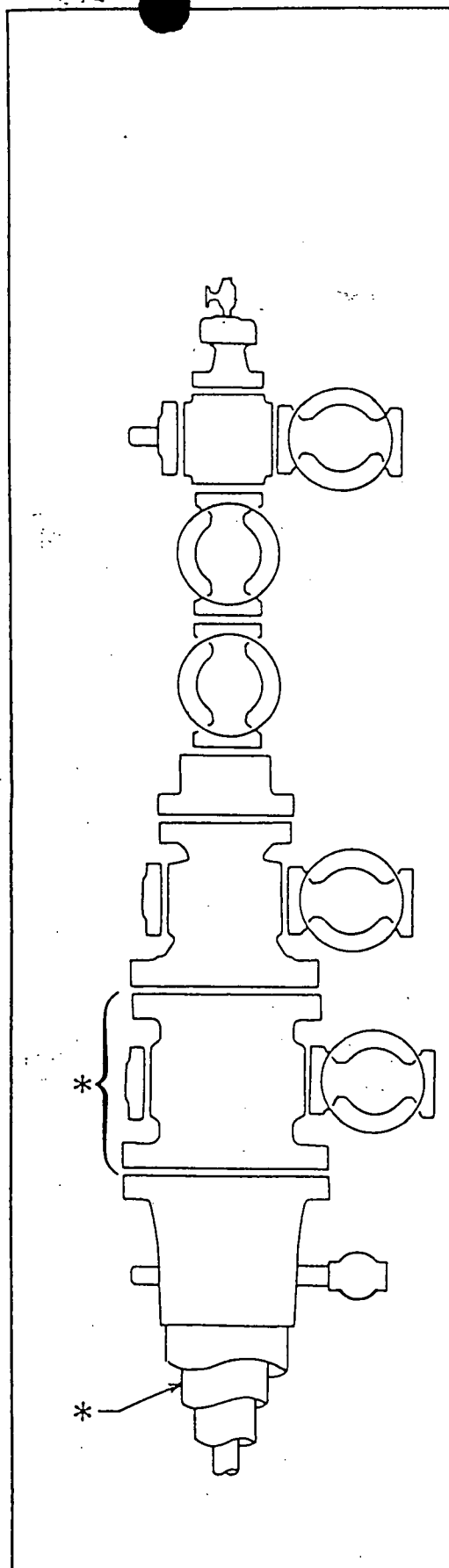
SINGLE WELLHEAD AS INSTALLED

ATTACHMENT #1

00250

WELL:THURAKINNA #3.....

DATE OF INSTALLATION:15.../8.../90.....



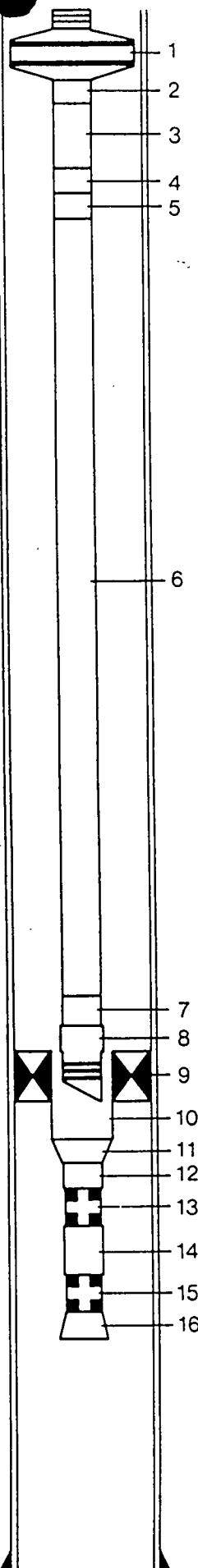
DESCRIPTION

DESCRIPTION				
TREE CAP		MAKE/TYPE SIZE/RATING LIFT THREAD FITTINGS		CIW F 2-9/16" x 3000# 2-7/8" EUE 1" -1/2 RED NEEDLE VALVE
FLOW CROSS			MAKE SIZE RATING	CIW F 2-9/16 x 2-9/16 x 2-9/16 x 2-1/16 3000
	OUTLET	FITTINGS		COMP FLG 2" - 1/2" BULL PLUG
	WING VALVE	MAKE TYPE SIZE RATING TRIM		CIW FC 2-1/16 3000 T2
UPPER MASTER VALVE		MAKE TYPE SIZE RATING TRIM		CIW FC 2-9/16 3000 T2
LOWER MASTER VALVE		MAKE TYPE SIZE RATING TRIM		CIW FC 2-9/16 3000 T2
ADAPTOR FLANGE		MAKE/TYPE SIZE/RATING		CIW F 7-1/16 x 2-9/16 3000
TUBING SPOOL			MAKE/TYPE SIZE/RATING	CIW F 11" x 7-1/16 3000
	OUTLET 1	VALVE/FITTINGS		2-1/16" x 3000 GATE VALVE
	OUTLET 2	FITTINGS		COMP FLG 2" - 1/2" RED
*CASING SPOOL			MAKE/TYPE SIZE/RATING	
	OUTLET 1	VALVE/FITTINGS		
	OUTLET 2	FITTINGS		
BRADENHEAD			MAKE/TYPE SIZE/RATING	CIW F 11" x 9-5/8" LT&C 3000
	OUTLET 1	FITTINGS		2" BULL PLUG
	OUTLET 2	FITTINGS/VALVE		2" VENT RISER
CSG.	SURF.	SIZE, WT., GR., THD., DEPTH		9-5/8" 36# J55 LT&C 994'
	* INT.	SIZE, WT., GR., THD., DEPTH		
	PROD.	SIZE, WT., GR., THD., DEPTH		7" 23&26# J55 LT&C 7886
TUBING		SIZE, WT., GR., THD., No. JTS		2-7/8" 6.5# L80 NK3SB 231 jts
TUBING HANGER		MAKE/TYPE LIFT THD./BPV PREP.		FBB-EN 2-7/8" CS HYDRIL
REMARKS		STRING WT. INDICATED CALCULATED SLACK OFF WT. OTHER		43,000 lbs 41,500 lbs 7,000 lbs COMPRESSION ANNULUS FLUID 9.1 PPG
DRAFTED				DATE DRAWN: 15 / 8 / 90

PETROLEUM ENGINEERING DEPARTMENT

ATTACHMENT #2

DOWNHOLE INSTALLATION THURAKINNA 3



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	16.26	0.00	
1	FBB-EN hanger 2 7/8" AB-IJ3SS x 2 7/8" CS Hydril	0.75		
2	2 7/8" AB-IJ3SS pin x pin L80	0.30		
3	1 joint 2 7/8" 6.5# L80 AB-IJ3SS	29.03		
4	Pup joints 2 7/8" 6.5# L80 AB-IJ3SS 12' & 6'	17.62		
5	X-over 2 7/8" AB-IJ box x 2 7/8" NK-3SB pin	1.72		
6	231 joints 2 7/8" 6.5# L80 NK-3SB tubing	7234.23	strap	
7	X-over 2 7/8" NK-3SB x 2 7/8" AB-IJ3SS L80	1.73		
8	Baker model E-22 anchor seal assembly	3.29	no stick-up	2.406
	size 80-32, 2 7/8" AB-IJ box			
	Permanent Downhole Equipment			
9	7" Baker DB packer size 84-32 4 1/2" AB-IJ	4.07	7300.00	
10	Millout extension 4 1/2" AB-IJ pin x pin	5.42		
11	Swage 4 1/2" AB-IJ x 2 7/8" AB-IJ J55	1.78		
12	Pup joint 2 7/8" 6.5# J55 AB-IJ3SS	9.73		
13	Otis 2 7/8" AB-IJ 711X23103 nipple	0.95	7317.93	2.313
14	2 pup joints 10' x 2 7/8" 6.5# J55 AB-IJ3SS	19.46		
15	Otis 2 7/8" AB-IJ 711XN nipple	1.07	7338.34	2.205
16	Re-entry 2 7/8" AB-IJ3SS x 3 1/2" blank	1.00		
	End of tailpipe		7340.36	

PERFORATED INTERVALS:

GUN:

CHARGES:

FORMATION	INTERVAL	SIZE	TYPE	S.P.F.	TYPE	WT(g)
PATCHAWARRA						
77-0	7720' - 7738'	2 7/8"	E/jet	6	90°	13.5
76-4	7666' - 7672'	2 7/8"	E/jet	4	0°	13.5
74-7	7526' - 7550'	2 7/8"	E/jet	4	0°	13.5
74-6	7487' - 7504'	2 7/8"	E/jet	4	0°	13.5
74-2	7454' - 7484'	2 7/8"	E/jet	4	0°	13.5

REMARKS:

ANNULUS FLUID : 2% KCl brine 9.1 ppg + Applied 2100

INDICATED STRING WEIGHT : 43,000#

CALCULATED STRING WEIGHT : 41,500#

SLACK-OFF WEIGHT : 7,000# compression

TENSION :

NOT TO SCALE	WELLSITE SUPERVISOR	I. Fendley
PROPOSED	DATE OF INSTALLATION	15/8/1990
RE-COMPLETION	DRAFTED	E. Coppins
COMPLETION	REVISD	DATE 4/9/1990
		DATE 28/9/1990

P.B.T.D. 7840'

ATTACHMENT #3
THORAKINNA#3
CBL/VDL/GR/CCL
LOG SECTION
3/8/90

00252

7300

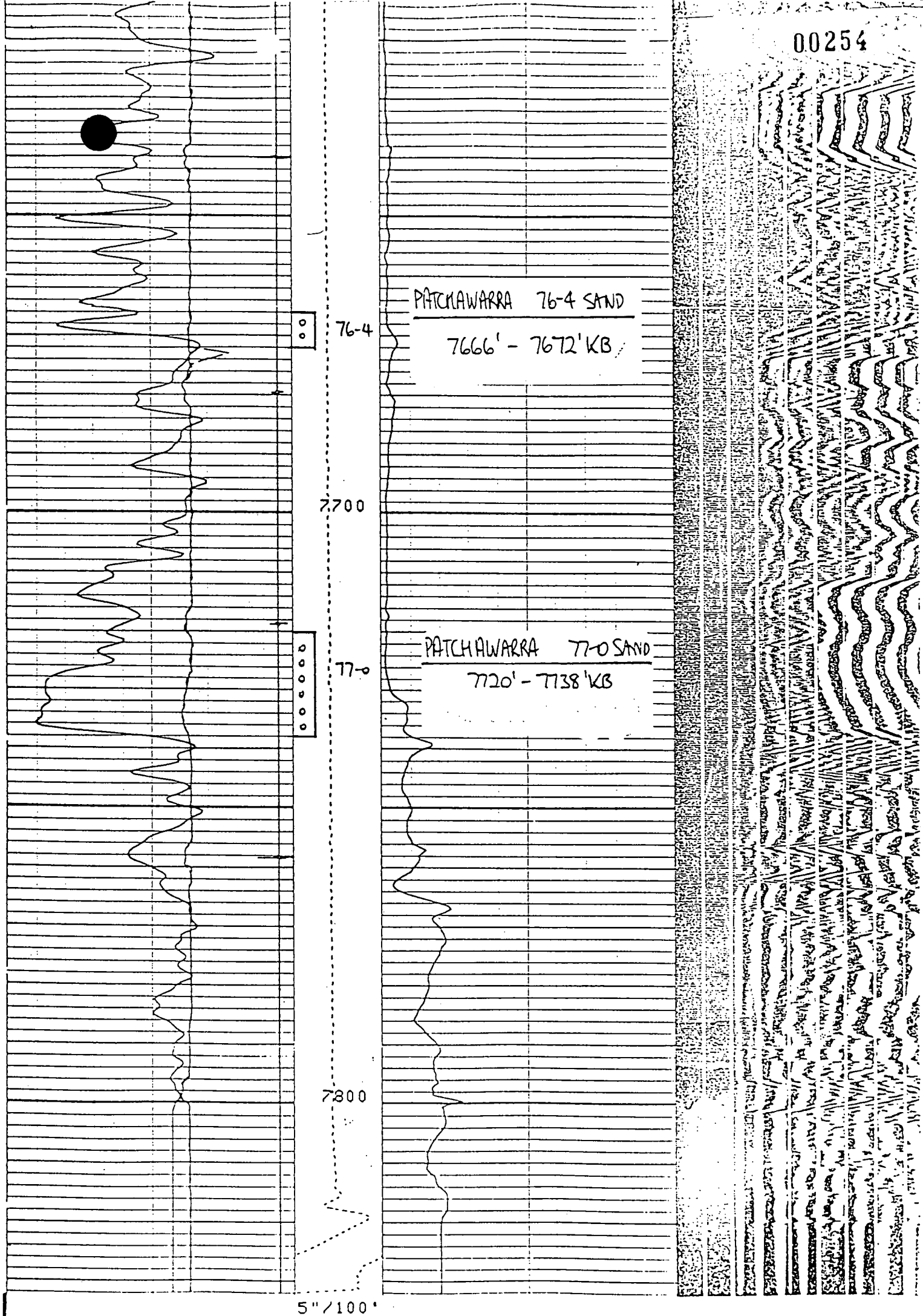
7400

74-2
PATCHAWARRA 74-2 SAND
7454' - 7484' KB

74-6
PATCHAWARRA 74-6 SAND
7487' - 7504' KB

74-7
PATCHAWARRA 74-7 SAND
7526' - 7550' KB

7600



ATTACHMENT #4

Thurakinna #3

KB 97'

MSFL Log

9/12/87

Patchawarra Fm

7344'

(-7247')

7400

(Core) 7454'-7526' (Lgr.)
 Cut 61'
 Rec: 45' 8" (75%)

Core 1: 7459'-7520' (Lgr.)

Cut 61'

Rec: 45' 8" (75%)

DST 1: 7454'-7526' (Lgr.)

GTS @ 5.2 MHCFD,
 260 ECPD

Rec: 140' C (61° API @ 60°F)

DST 1: 7454'-7526' (Lgr.)

GTS in 3 mins

G = 5.2 MHCFD +

260 ECPD

Rec: 140' C

61° API @ 60°F

DST 2: 7510'-7575' (Lgr.)

GTS @ RTSTM

Rec: 30' of watery oil flecked
 gas cut mud & 180' of oil
 flecked gas cut mud.

DST 3: 7510'-7575' (Lgr.)

GTS in 29 mins

@ RTSTM

Rec: 310' watery

+ 60' (Core oil flocks)

(Core oil flocks)

SEE REVERSE

74-2

NP 14'

Ø 12.8%

SW 24.4%

74-6

NP 1'

Ø 11.3%

SW 37.6%

74-7

NS 15'

Ø 11.1%

SW 38.4%

75-2

Thurakima #3

KB 97'

MSFL Log.

Patchawarra Fm.

510-7575 (gr)

19 min

75711

Rx: 310' w/leg
6 cm
(large oil flows)

SEE REVERS

75-2

75-60

76-0

76-4

76-4

NP 2'

ϕ 15.0%

Sw 23.4%

77-0

77-0

77-0

NP 11'

ϕ 14.7%

Sw 14.4%

77-3

Pre-Permian 77-2'

Pre-Permian

77-2'

(-7645')

Caliper

Bit Size

SP

CR

Prepared by:

Paul Matas
Petroleum Engineer

Date: 4/7/91

GW Henjin
Supv. Senior Petroleum Engineer

Date: 4/7/91

Approved by:

Andrew Mayers
Supv. Chief Petroleum Engineer

Date: 4/7/91

MBS
Manager, Petroleum Engineering Operations

Date: 8/7/91Well
Handover
ApprovalProduction Supt. - Moomba

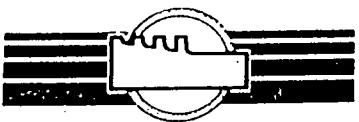
Date: _____

Distribution:

Well File	Original
PEO Dept - Adel	(2) Att: Supv. Senior Pet. Eng./Supv. Chief Pet. Eng.
PEO Dept - Mba	(2)
P.E. Supt - Mba	(1)
Production Supt - Mba	(2)
Dept. of Mines	(1)
Esso Australia Ltd.	(1) Att: B. McKay
Bridge Oil	(1) Att: A. Young
SAGASCO Resources Ltd.	(1) Att: M. Clegg

GS/ih
4/7/91

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' MB

PAGE: 1 OF 2

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7-12-91

TEST TYPE : L.F.T / F.G.S

OPR : N. HAY

DATE/TIME

DESCRIPTION OF EVENTS

7-12-91

08:15

ARRIVE ON LOCATION

RIG IN CHOKE MANIFOLD SEPARATOR FLARE LINE GAUGE TANK & FRAC TANK

RIG UP WIRELINE UNIT & TOOL STRING

12:20

R.I.H. WITH 1.75" BLIND BOX

12:40

TAG P.B.T.D. AT 7836' MB

12:41

P.O.O.H

13:00

ARRIVE BACK IN LUB

13:05

PRESSURE TEST FLOW LINE TO INLET & DISCHARGE VALVES ALL OK

13:20

FLOW WELL TO FLARE BYPASSING SEPARATOR L.F.T / F.G.S #1

14:00

DIVERT FLOW THROUGH THE SEPARATOR & TRIM WITH 2" ORIFICE PLATE

THE WELL HAS STABILISED OUT AT 2930 KPA & WILL NOT DRAW DOWN TO 1378 KPA

AS PER PROGRAMME

14:00

START OF L.F.T

8-12-91

13:40

RIG UP 2x5000 PSI PRESSURE ELEMENTS COUPLED TO 3HR CLOCKS FOR F.G.S

AS PER PROGRAMME

14:15

R.I.H.

15:40

P.O.O.H.

16:15

DEPRESSURE LUB & RECOVER CHARTS GOOD CHARTS

18:50

ADJUST CHOKE SETTING TO OBTAIN 3445 KPA ON WELL HEAD FOR L.F.T / F.G.S #2

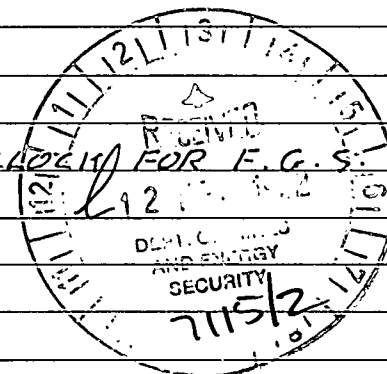
10-12-91

08:50

RIG UP 2x5000 PSI PRESSURE ELEMENTS COUPLED TO 3HR CLOCKS FOR F.G.S

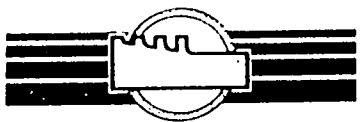
AS PER PROGRAMME

open file



00238

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTD	PERFORATIONS: 7454' - 7738' MB	PAGE: 2 OF 2
WELL NAME: THURAHINNA # 3	FORMATION : PATCHAWARRA	DATE: 10-12-91
TEST TYPE : L.F.T / F.G.S		OPR : N. HAY

DATE/TIME	DESCRIPTION OF EVENTS
10-12-91	
09:30	R.I.H
10:56	P.O.O.H
11:27	DEPRESSURE 44B & RECOVER CHARTS GOOD CHARTS
12:05	ADJUST CHOKIE SETTING TO OBTAIN 5168 KPA ON WELL HEAD FOR L.F.T/F.G.S. #3
11-12-91	
12:45	RIG UP 2X 5000 PSI PRESSURE ELEMENTS COUPLED TO 3HR CLOCKS FOR F.G.S AS PER PROGRAMME
13:15	R.I.H F.G.S SURVEY.
1441	P.O.O.H END F.G.S.
1520	CHARTS GOOD.
1525	ADJUST CHOKE TO ACHIEVE 6895 KPA. WELLHEAD PRESSURE
1600	CONTINUE TO MONITOR FLOW
12-12-91	
1000	PREPARE AMERADAS
1032	R.I.H FOR FLOWING GRADIENT SURVEY
1157	P.O.O.H END SURVEY.
1214	AT SURFACE WITH GAUGES
1229	DEPRESSURE LUBRICATOR. INSPECT CHARTS
1300	S.W.I RIG OUT EQUIPMENT.
1430	WELL BACK ON LINE.

00253



CUSTOMER :	SANTOS LTD	PERFORATIONS:	7454' - 7738' MB	PAGE:	1	OF	4
WELL NAME:	THURAKINNA # 3	FORMATION :	PATCHAWARRA	DATE:	8-12-91		
TEST TYPE :	L.F.T.I.E.G.S			OPR :	N MAY		

[illegible]

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA67183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Sunday, 8th December 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	Thurakinna # 3	Patchauarra

FLOWING PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	21379	4825	4/ 8/91
Bottom	21821	4750	4/ 8/91

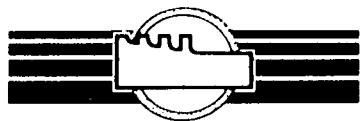
WELL DATA	
PARAMETER	VALUE
DWT In	457 PSIG
DWT Out	458 PSIG
Max BHT	256 F

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.1845	448.9	-----	0.1800	451.0	-----
1000	0.2260	551.8	0.103	0.2215	555.3	0.104
2000	0.2635	644.6	0.093	0.2575	645.8	0.091
3000	0.2980	729.9	0.085	0.2910	730.0	0.084
4000	0.3300	809.0	0.079	0.3233	811.1	0.081
5000	0.3610	885.5	0.077	0.3525	884.4	0.073
5500	0.3750	920.0	0.069	0.3655	917.0	0.065
6000	0.3900	957.1	0.074	0.3800	953.4	0.073
6500	0.4020	986.7	0.059	0.3925	984.8	0.063
7000	0.4140	1016.3	0.059	0.4030	1011.1	0.053
7434	0.4240	1040.9	0.030	0.4125	1035.0	0.029
LUB.	0.1860	452.7	-----	0.1810	453.5	-----

GENERAL REMARKS

Well Flowing on 54/64 Choke

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' 1113

PAGE: 2 OF 4

WELL NAME: THURAMINNA #3

FORMATION : PATCHAWARRA

DATE: 10-12-91

TEST TYPE : L.F.T / F.G.S

OPR : N. HAY

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

21379

21821

N/A

DATE : 10-12-91

ELEMENT RANGE

P.S.1

4825

4750

PRESSURE LUBRICATOR :

09:15

3661

0

RECORDING SECTION SERIAL NO.

59288

14619

RUN IN HOLE :

09:30

3661

0

DATE OF CALIBRATION:

2290°F

4-6-91

4-6-91

ON DEPTH AT :

7434 FT/M

10:41

3647

0

CLOCK SERIAL NO.

2180

2297

DATE :

10-12-96

CLOCK RANGE

3 HR

3 HR

PULL OUT OF HOLE :

10:56

3647

0

LEAD SCREW TYPE

15 T45

15 T45

AT SURFACE :

11:12

3654

0

DEPRESSURE LUBRICATOR :

11:27

3654

0

ENGAGE STYLUS

DATE

10-12-91

TIME

09:06

09:06

MAXIMUM BHT AT

7434 FT/M = 262 °F/M

DISENGAGE STYLUS

DATE

10-12-91

TIME

11:32

11:32

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

DATE

TIME

REMARKS

WELL FLOWING ON 44/64 CHOME

00262

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 Tuesday, 10th December 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	Thurakinna # 3	Patchawarra

FLOWING PRESSURE GRADIENT REPORT

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

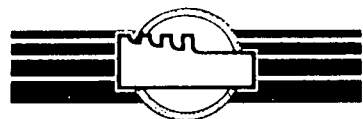
WELL DATA	
PARAMETER	VALUE
DWT In	531 PSIG
DWT Out	530 PSIG
Max BHT	262 F

DEPTH FT KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.2170	529.5	-----	0.2150	539.0	-----
1000	0.2520	616.1	0.087	0.2490	624.4	0.085
2000	0.2840	695.3	0.079	0.2800	702.3	0.078
3000	0.3170	776.8	0.082	0.3110	780.2	0.078
4000	0.3490	855.8	0.079	0.3420	858.0	0.078
5000	0.3780	927.4	0.072	0.3710	930.8	0.073
5500	0.3940	966.9	0.079	0.3850	966.0	0.070
6000	0.4070	999.0	0.064	0.3980	998.6	0.065
6500	0.4200	1031.0	0.064	0.4110	1031.2	0.065
7000	0.4315	1059.4	0.057	0.4220	1058.8	0.055
7434	0.4420	1085.3	0.031	0.4310	1081.4	0.027
LUB.	0.2190	534.4	-----	0.2140	536.5	-----

GENERAL REMARKS

Well Flowing on 44/64 Choke

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' 1113

PAGE: 3 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 11-12-91

TEST TYPE : L.I.T./F.G.S

OPR : N. HAY

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

21379

21821

DATE : 11-12-91

ELEMENT RANGE

P.S.I

4825

4750

PRESSURE LUBRICATOR :

13:00 5302 0

RECORDING SECTION SERIAL NO.

59288

14619

RUN IN HOLE :

13:15 5302 0

DATE OF CALIBRATION:

@ 290°F

4-6-91

4-6-91

ON DEPTH AT :

7434 FT/M 1426 5330 0

CLOCK SERIAL NO.

2180

2297

DATE : 11-12-91

CLOCK RANGE

3HR

3HR

PULL OUT OF HOLE :

1441 5323 0

LEAD SCREW TYPE

15 T45

15 T45

AT SURFACE :

1456 5323 0

DEPRESSURE LUBRICATOR :

1513 5316 0

ENGAGE STYLUS

DATE

11-12-91

TIME

12:56

12:56

MAXIMUM BHT AT 7434 FT/M = 263 °F

DISENGAGE STYLUS

DATE

11-12-91

TIME

1519

1519

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

DATE

TIME

REMARKS

11-12-91 1520 WELL FLOWING ON 31/64 CHOMIE
GOOD CHARTS RECOVERED.

00264

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, 11th December 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	THURAKINNA #3	PATCHAWARRA

FLOWING 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	750 PSIG
DWT Out	771 PSIG
Max BHT	263 F

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.3140	769.4	-----	0.3075	771.4	-----
1000	0.3375	827.5	0.058	0.3315	831.7	0.060
2000	0.3610	885.5	0.058	0.3550	890.7	0.059
3000	0.3870	949.6	0.064	0.3790	950.9	0.060
4000	0.4110	1008.9	0.059	0.4025	1009.9	0.059
5000	0.4360	1070.5	0.062	0.4255	1067.6	0.058
5500	0.4475	1098.9	0.057	0.4360	1094.0	0.053
6000	0.4590	1127.2	0.057	0.4470	1121.6	0.055
6500	0.4690	1151.9	0.049	0.4570	1146.7	0.050
7000	0.4800	1179.0	0.054	0.4695	1178.0	0.063
7434	0.4900	1203.6	0.057	0.4770	1196.9	0.043
LUB.	0.3160	774.4	-----	0.3075	771.4	-----

GENERAL REMARKS

WELL FLOWING ON 31/64ths CHOKE SETTING

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738'

PAGE: 4 OF 4

WELL NAME: THURAKINNA # 3

FORMATION : PATCHAWARRA

DATE: 12.12.91

TEST TYPE : L.E.T./F.S.S.

21.5/64THS CHOKE

OPR : A. GRINDLAY

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

21379

21821

NOT

DATE

12.12.91

ELEMENT RANGE

4825 PSI

4750 PSI

RUN

PRESSURE LUBRICATOR

1015

6992

Ø

RECORDING SECTION SERIAL NO.

59288

14619

RUN IN HOLE

1032

6992

Ø

DATE OF CALIBRATION:

@ 290°F

4.6.91

4.6.91

ON DEPTH AT

7434 FT/IN

1142

6998

Ø

CLOCK SERIAL NO.

2180

2297

DATE

12.12.91

CLOCK RANGE

3HRS

3HRS

PULL OUT OF HOLE

1157

6992

Ø

LEAD SCREW TYPE

157LS

157LS

AT SURFACE

1214

6985

Ø

DEPRESSURE LUBRICATOR

1229

6985

Ø

ENGAGE STYLUS DATE

12.12.91

TIME

1008

1008

MAXIMUM BHT AT

7434 FT/IN = 266°F

DISENGAGE STYLUS DATE

12.12.91

TIME

1235

1235

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

DATE

TIME

REMARKS

12.12.91

1240

CHARTS RECOVERED. CHARTS GOOD.

WELL FLOWING ON 21.5/64THS CHOKE

00266

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX A887183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Thursday, 12th December 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	THURAKINNA #3	PATCHAWARRA

FLOWING 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	1014 PSIG
DWT Out	1013 PSIG
Max BHT	266 F

DEPTH FT. KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.4125	1012.6	-----	0.4035	1012.4	-----
1000	0.4305	1056.9	0.044	0.4225	1060.1	0.048
2000	0.4505	1106.3	0.049	0.4415	1107.8	0.048
3000	0.4710	1156.8	0.051	0.4605	1155.5	0.048
4000	0.4890	1201.2	0.044	0.4790	1201.9	0.046
5000	0.5090	1250.4	0.049	0.4960	1244.5	0.043
5500	0.5180	1272.6	0.044	0.5050	1267.1	0.045
6000	0.5270	1294.8	0.044	0.5140	1289.7	0.045
6500	0.5355	1315.7	0.042	0.5230	1312.3	0.045
7000	0.5440	1336.7	0.042	0.5310	1332.4	0.040
7434	0.5515	1355.2	0.043	0.5380	1349.9	0.041
LUB.	0.4195	1029.8	-----	0.4040	1013.7	-----

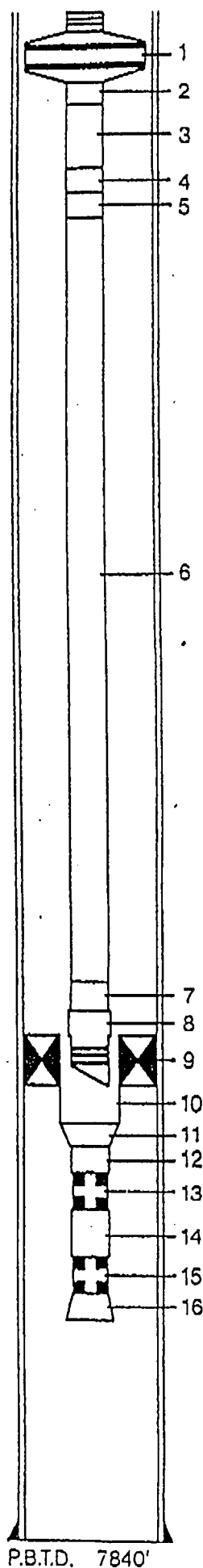
GENERAL REMARKS

WELL FLOWING ON 21.5/64ths CHOKE SETTING



PETROLEUM ENGINEERING DEPARTMENT

DOWNHOLE INSTALLATION THURAKINNA 3



ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	16.26	0.00	
1	FBB-EN hanger 2 7/8" AB-IJ3SS x 2 7/8" CS Hydril	0.75		
2	2 7/8" AB-IJ3SS pin x pin L80	0.30		
3	1 joint 2 7/8" 6.5# L80 AB-IJ3SS	29.03		
4	Pup joints 2 7/8" 6.5# L80 AB-IJ3SS 12' & 6'	17.62		
5	X-over 2 7/8" AB-IJ box x 2 7/8" NK-3SB pin	1.72		
6	231 joints 2 7/8" 6.5# L80 NK-3SB tubing	7234.23	strap	
7	X-over 2 7/8" NK-3SB x 2 7/8" AB-IJ3SS L80	1.73		
8	Baker model E-22 anchor seal assembly	3.29	no slick-up	2.406
	size 80-32, 2 7/8" AB-IJ box			
	Permanent Downhole Equipment			
9	7" Baker DB packer size 84-32 4 1/2" AB-IJ	4.07	7300.00	
10	Millout extension 4 1/2" AB-IJ pin x pin	5.42		
11	Swage 4 1/2" AB-IJ x 2 7/8" AB-IJ J55	1.78		
12	Pup joint 2 7/8" 6.5# J55 AB-IJ3SS	9.73		
13	Otis 2 7/8" AB-IJ 711X23103 nipple	0.95	7317.93	2.313
14	2 pup joints 10' x 2 7/8" 6.5# J55 AB-IJ3SS	19.46		
15	Otis 2 7/8" AB-IJ 711XN nipple	1.07	7338.34	2.205
16	Re-entry 2 7/8" AB-IJ3SS x 3 1/2" blank	1.00		
	End of tailpipe		7340.36	

PERFORATED INTERVALS:

GUN:

CHARGES:

FORMATION	INTERVAL	SIZE	TYPE	S.P.F.	TYPE	WT(g)
PATCHAWARRA						
77-0	7720' - 7738'	2 1/2"	E/jet	6	90°	13.5
76-4	7666' - 7672'	2 1/2"	E/jet	4	0°	13.5
74-7	7526' - 7550'	2 1/2"	E/jet	4	0°	13.5
74-6	7487' - 7504'	2 1/2"	E/jet	4	0°	13.5
74-2	7454' - 7484'	2 1/2"	E/jet	4	0°	13.5

REMARKS:

ANNULUS FLUID : 2% KCl brine 9.1 ppg + Applied 2100

INDICATED STRING WEIGHT : 43,000#

CALCULATED STRING WEIGHT : 41,500#

SLACK-OFF WEIGHT : 7,000# compression

TENSION :

NOT TO SCALE

WELLSITE SUPERVISOR

I. Fendley

PROPOSED

DATE OF INSTALLATION

15/8/1990

RE-COMPLETION

DRAFTED

E. Coppins

DATE 4/9/1990

COMPLETION

REVISED

DATE 28/9/1990

P.B.T.D. 7840'

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' ITB

PAGE: 1 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7-12-91

TEST TYPE : L.F.T./F.G.S.

OPR : N. HAY

ORIFICE METER TYPE: DANIELS

STATIC PRESSURE RANGE : 0-1500 PSIG

GAS-SPECIFIC GRAVITY (SG) = .907

METER RUN SIZE : 3.068

DIFFERENTIAL PRESS. RANGE: 0-200 IN WC

FG $\sqrt{(I/SG)}$ = 1.0500

SEPARATOR NO : 459

STANDARD CONDITIONS : 14.73 PSI @ 60°F

C₂ (FU x FG) = 25.2004

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 x F _{TF} x F _{PV} x Y ₂				C ₁	C (C = C ₁ x 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)
7-12-91															
16:00	2	54/64	219	158	133	2.0	186.32	906.01	.9364	1.0274	1.0036	874.78	22044.8	4.108	115.73
18:00	4	"	214	166	128	"	185.35	"	.9404	1.0275	1.0037	878.71	22144.	4.105	115.65
20:00	6	"	214	164	133	"	187.65	"	.9364	1.0268	1.0038	874.41	22035.5	4.135	116.49
22:00	8	"	224	166	134	"	193.14	"	.9356	1.0279	1.0037	874.55	22039.2	4.257	119.93
8-12-91															
02:00	12	54/64	224	166	134	2.0	193.14	906.01	.9356	1.0279	1.0037	874.55	22039.2	4.257	119.93
06:00	16	"	224	178	140	"	200.00	"	.9309	1.0270	1.0039	869.60	21914.3	4.383	123.48
08:00	18	"	224	182	135	"	202.23	"	.9349	1.0278	1.0040	873.99	22025.	4.454	125.48
10:00	20	"	229	100	136	2.25	151.56	1223.18	.9341	1.0283	1.0017	1176.81	29656.1	4.495	126.64
12:00	22	"	229	100	141	"	151.56	"	.9302	1.0275	1.0017	1170.99	29509.4	4.473	126.02
13:00	23	"	229	102	143	"	153.07	"	.9286	1.0271	1.0017	1168.73	29492.5	4.508	127.00
14:00	24	"	234	102	143	"	154.73	"	.9286	1.0278	1.0017	1169.4	29469.3	4.560	128.47
15:00	25	"	234	100	143	"	153.20	"	.9286	1.0278	1.0017	1169.36	29468.4	4.515	127.20
16:00	26	"	234	100	143	"	153.20	"	.9286	1.0278	1.0017	1169.36	29468.4	4.515	127.20
17:00	27	"	234	100	145	"	153.20	"	.9271	1.0275	1.0017	1167.06	29410.6	4.506	126.95
18:00	28	"	234	102	143	"	154.73	"	.9286	1.0278	1.0017	1169.40	29469.3	4.560	128.47
20:00	30	44/64	224	100	138	"	149.91	"	.9325	1.0273	1.0017	1173.77	29579.6	4.434	124.92
22:00	32	"	224	100	140	"	149.91	"	.9309	1.0270	1.0017	1171.46	29521.3	4.426	124.69
9-12-91															

00269

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' 1113

PAGE: 2 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 9-12-91

TEST TYPE : L.F.T / F.G.S

OPR : N. HAY

ORIFICE METER TYPE: DANIELS

STATIC PRESSURE RANGE : 0-1500 PSIG

GAS SPECIFIC GRAVITY (SG) = .907

METER RUN SIZE : 3-068

DIFFERENTIAL PRESS. RANGE: 0-200 IN WC

FG $\sqrt{(1/SG)}$ = 1.0500

SEPARATOR NO : 459

STANDARD CONDITIONS : 14.73 PSI @ 60°F

C₂ (FU x FG) = 25.2004

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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
9-12-91															
02:00	36	44/64	224	98	140	2.25	148.4	1223.18	.9309	1.0270	1.0017	1171.42	29520.3	4.381	123.43
06:00	40	"	224	96	134	"	146.88	"	.9356	1.0279	1.0017	1178.37	29695.4	4.362	122.89
08:00	42	"	229	92	140	"	145.37	"	.9309	1.0276	1.0016	1171.98	29534.5	4.294	120.97
10:00	44	"	224	92	138	"	143.78	"	.9333	1.0274	1.0016	1174.77	29604.8	4.257	119.93
11:00	45	"	229	92	138	"	145.37	"	.9333	1.0279	1.0016	1174.30	29593.0	4.302	121.20
12:00	46	"	229	92	140	"	145.37	"	.9309	1.0276	1.0016	1171.98	29534.5	4.294	120.97
14:00	48	"	234	92	142	"	146.95	"	.9294	1.0279	1.0015	1170.35	29493.5	4.334	122.10
16:00	50	"	234	92	136	"	146.95	"	.9341	1.0289	1.0015	1177.35	29669.9	4.36	122.27
18:00	52	"	234	92	142	"	146.95	"	.9294	1.0279	1.0015	1170.35	29493.5	4.334	122.10
20:00	54	"	234	92	140	"	146.95	"	.9309	1.0282	1.0015	1172.67	29551.8	4.343	122.36
22:00	56	"	234	92	140	"	146.95	"	.9309	1.0282	1.0015	1172.67	29551.8	4.343	122.36
10-12-91															
02:00	60	44/64	229	90	133	2.25	143.79	1223.18	.9364	1.0288	1.0015	1180.15	29740.2	4.276	120.47
06:00	64	"	224	87	140	"	139.82	"	.9309	1.0270	1.0015	1171.19	29514.6	4.127	116.27
08:00	66	"	234	104	140	"	156.24	"	.9309	1.0282	1.0017	1172.91	29557.8	4.618	130.10
09:00	67	"	234	104	140	"	156.24	"	.9309	1.0282	1.0017	1172.91	29557.8	4.618	130.10
10:00	68	"	229	102	134	"	153.07	"	.9356	1.0286	1.0017	1179.20	29716.5	4.549	128.16
11:00	69	"	229	103	140	"	153.82	"	.9309	1.0276	1.0017	1172.20	29540.0	4.544	128.02
12:00	70	"	234	104	142	"	156.24	"	.9294	1.0279	1.0017	1170.59	29499.4	4.609	129.85

00270

EXPERTEST PTY. LTD.

GAS FLOW CALCULATIONS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' K13

PAGE: 3 OF 4

WELL NAME: THURAHINNA # 3

FORMATION : PATCHAWARRA

DATE: 10-12-91

TEST TYPE : L.F.T / F.G.S

OPR : N. HAY

ORIFICE METER TYPE: DANIELS

STATIC PRESSURE RANGE : 0-1500 PSIG

GAS SPECIFIC GRAVITY (SG) = .907

METER RUN SIZE : 3.068

DIFFERENTIAL PRESS. RANGE: 0-200 IN WC

FG $\sqrt{(1/SG)}$ = 1.0500

SEPARATOR NO : 459

STANDARD CONDITIONS : 14.73 PSI @ 60°F

C₂ (FU x FG) = 25.2004

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 × F _{TF} × F _{PV} × Y ₂				C ₁	C (C = C ₁ × 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)
10-12-91															
1400	72	31/64	224	78	128	2.25	132.39	1223.18	.9404	1.0289	1.0013	1185.14	29866.07	3.954	111.4
16:00	74	"	224	76	128	"	130.68	"	.9404	1.0289	1.0013	1185.10	29865.03	3.903	109.9
18:00	76	"	224	75	135	"	129.82	"	.9349	1.0278	1.0013	1176.76	29654.97	3.850	108.4
20:00	78	"	229	74	121	"	130.38	"	.9460	1.0309	1.0013	1194.39	30099.23	3.924	110.5
22:00	80	"	224	72	127	"	127.20	"	.9412	1.0291	1.0012	1186.22	29893.3	3.863	107.14
11-12-91															
02:00	84	31/64	224	74	125	2.25	127.95	1223.18	.9428	1.0294	1.0013	1188.69	29955.4	3.863	108.83
06:00	88	"	224	74	122	"	128.95	"	.9452	1.0300	1.0013	1192.36	30047.9	3.875	109.17
08:00	90	"	234	72	118	"	130.00	"	.9485	1.0322	1.0012	1198.92	30213.4	3.928	110.66
10:00	92	"	229	76	122	"	132.13	"	.9452	1.0307	1.0013	1193.19	30069.0	3.973	111.93
12:00	94	"	229	76	127	"	132.13	"	.9412	1.0298	1.0013	1187.07	29914.6	3.953	111.37
13:00	95	"	229	76	127	"	132.13	"	.9412	1.0298	1.0013	1187.07	29914.6	3.953	111.37
1400	96	"	230	77	127	"	133.0789	"	.9412	1.0296	1.0013	1186.886	29910.014	3.980	112.68
1500	97	"	227	78	129	"	133.0638	"	.9396	1.0288	1.0013	1184.046	29838.451	3.970	112.40
1600		CHANGE PLATE TO 1.75" CHANGE CHOKE TO 21.5/64ths.													
1600	98	21.5/64	225	122	117	1.75	165.6804	663.41	.9493	1.0306	1.0030	651.115	16408.388	2.718	76.96
1800	100	"	220	123	111	"	164.4992	"	.9542	1.0310	1.0031	654.826	16501.900	2.714	76.84
2000	102	"	220	123	108	"	164.4992	663.41	.9568	1.0316	1.0031	656.917	16554.579	2.723	77.09
2200	104	"	223	122	109	"	164.9424	"	.9559	1.0318	1.0031	656.465	16543.207	2.728	77.24

	GAS FLOW CALCULATIONS					
	CUSTOMER :	SANTOS LTD	PERFORATIONS:	7454' - 7738'	PAGE:	4 OF 4
	WELL NAME:	THURAKINNA #3	FORMATION :	PATCHAWARRA	DATE:	12.12.91
	TEST TYPE :	1 FT / F.G.S			OPR :	A. GRINDLAY

PAGE: 4 OF 4

DATE: 12.12.91

OPR : A. GRINDLAY

PSIG	GAS SPECIFIC GRAVITY (SG) =	0.907
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FG	$\sqrt{(I/SG)}$	=	1.05001
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C ₂	(FU x FG)	=	25.2004
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[illegible]

EXPERTEST PTY. LTD.

LIQUID PRODUCTION

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' H13

PAGE: 1 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7-12-91

TEST TYPE : L.E.T/F.G.S

OPR : N. HAY

TANK

#1 = 68.1

TANK

#1 = 56.6

bbls/m³

TANK

#1 = 1" = 0.2666

bbls/in - m³/cm³

OIL API GRAVITY = @ 60°F

NUMBER

#2 = 129

CAPACITY

#2 = 8.22

bbls/m³

SCALE

#2 = 1" = 0.1022

bbls/in - m³/cm³

DATE

FLOW

TANK

TOTAL

OIL/CONDENSATE PRODUCTION

WATER PRODUCTION

TIME

TIME
(HOURS)USED
(NUMBER)TANK DIP
(IN/CM)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)

7-12-91

14:00

0

129

6

4

2

16:00

2

11

10.75

7.75

0.383

4.599

0.383

3

0.1022

1.226

0.1022

18:00

4

11

11.75

10.5

0.281

3.372

0.664

6.5

0.357

4.292

0.459

20:00

6

11

23.25

13.5

0.306

3.679

0.97

9.75

0.332

3.985

0.791

22:00

8

11

28.75

17.75

0.434

5.212

1.404

11

0.127

1.53

0.918

8-12-91

02:00

12

129

34.5

21.5

0.383

2.299

1.787

13

0.204

1.226

1.122

06:00

16

11

42.25

21.5

0

0

1.787

20.5

0.766

4.599

1.888

08:00

18

11

47

23.25

0.178

2.136

1.965

23.75

0.332

3.984

2.220

10:00

20

11

51.5

27.5

0.434

5.212

2.399

24

0.025

0.30

2.245

12:00

22

11

55.75

30

0.255

3.066

2.654

25.75

0.178

2.146

2.423

13:00

23

11

58.25

30.5

0.051

1.226

2.705

27.75

0.204

4.905

2.627

14:00

24

11

61

32

0.153

3.679

2.858

29

0.127

3.066

2.759

15:00

25

11

63.25

33

0.1022

2.452

2.960

30.25

0.127

3.066

2.886

16:00

26

11

66

34.25

0.127

3.066

3.087

31.75

0.153

3.679

3.039

17:00

27

11

68.5

36

0.178

4.292

3.265

32.5

0.076

1.839

3.115

18:00

28

11

70.75

37.5

0.153

3.679

3.418

33.25

0.076

1.839

3.191

20:00

30

11

75.75

40.75

0.332

3.985

3.75

35

0.178

2.146

3.369

20:00

32

11

9.75

8.75

0

0

0

1

0

0

0

22:00

32

11

16

11.75

0.306

3.672

4.056

4.25

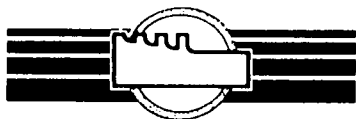
0.332

3.984

3.701

00273

EXPERTEST PTY. LTD.



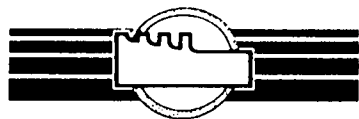
LIQUID PRODUCTION

CUSTOMER :		SANTOS LTD		PERFORATIONS:	7454' - 7738' 113		PAGE:	2	OF	4
WELL NAME:		THURAKINNA #3		FORMATION :	PATCHAWARRA		DATE:	9-12-91		
TEST TYPE :		L.E.T / F.G.S						OPR :		
TANK	#1 =	56.6	bbls/m ³	TANK	#1 =	1" = 2.666	bbls/in - m ³ /cm ³	OIL API GRAVITY = @ 60°F		
CAPACITY	#2 =	8.22	bbls/m ³	SCALE	#2 =	1" = 1.022	bbls/in - m ³ /cm ³			

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/m ³)	FLOW RATE (BPD/m ³ D)	CUMULATIVE PRODUCTION (BBLs/m ³)	TANK DIP (IN/CM)	TANK PRODUCTION (BBLs/m ³)	FLOW RATE (BPD/m ³ D)	CUMULATIVE PRODUCTION (BBLs/m ³)
9-12-91											3.701
02:00	36	129	22.5	15.25	0.357	2.146	4.413	11.75	0.766	4.596	4.467
06:00	40	11	36	20	0.485	2.912	4.898	16	0.434	2.606	4.901
08:00	42	11	42	23.5	0.357	4.292	5.255	18.5	0.255	3.066	5.156
10:00	44	11	47.75	26.75	0.332	3.985	5.587	21	0.255	3.066	5.411
11:00	45	11	49.5	27.25	0.051	1.226	5.638	22.25	0.127	3.066	5.538
12:00	46	11	51.5	27.75	0.051	1.226	5.689	23.75	0.153	3.679	5.691
14:00	48	11	56.75	30.5	0.281	3.372	5.970	26.25	0.255	3.066	5.946
16:00	50	11	62	34	0.357	4.292	6.327	28	0.178	2.146	6.124
18:00	52	11	67.25	36.5	0.255	3.060	6.582	30.75	0.281	3.372	6.405
20:00	54	11	72.25	39	0.255	3.060	6.827	33.25	0.255	3.066	6.660
22:00	56	11	73.5	39.25				35.25			
10-12-91											
02:00	60	129	19	11	0.511	3.066	7.619	8	0.511	3.066	7.452
06:00	64	11	31	17.5	0.664	3.985	8.283	13.5	0.562	3.372	8.014
08:00	66	11	36.25	20	0.255	3.066	8.538	16.25	0.281	3.372	8.295
09:00	67	11	38.5	21.25	0.127	3.066	8.665	17.25	0.1022	2.452	8.397
10:00	68	11	41	22.25	0.1022	2.452	8.767	18.75	0.153	3.679	8.550
11:00	69	11	43.25	23.25	0.1022	2.452	8.869	20	0.127	3.066	8.677
12:00	70	11	45.75	24.5	0.127	3.066	8.996	21.25	0.127	3.066	8.804

00274

EXPERTEST PTY. LTD.



LIQUID PRODUCTION

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738

PAGE: 3 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 10-12-91

TEST TYPE : L.F.T./F.G.S

OPR : N. HAY

TANK #1 = 68

TANK #1 = 56.6 bbls/m³TANK #1 = 1' = .2666 bbls/in - m³/cm

OIL API GRAVITY = @ 60°F

NUMBER #2 = 129

CAPACITY #2 = 8.22 bbls/m³SCALE #2 = 1' = .1022 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 (BBL/m ³)	FLOW RATE (BPD/m ³ D)	CUMULATIVE PRODUCTION (BBL/m ³)	TANK DIP (IN/CM)	TANK PRODUCTION (BBL/m ³)	FLOW RATE (BPD/m ³ D)	CUMULATIVE PRODUCTION (BBL/m ³)
10-12-91											8.804
1400	72	129	51.0	27.25	.281	3.372	9.277	23.75	.255	3.06	9.055
1600	74	129	56.0	30.0	.281	3.372	9.558	26.0	.229	2.75	9.288
1800	76	"	60.75	32.75	.281	3.372	9.839	28.0	.204	2.45	9.492
20:00	78	"	66.0	36.75	.408	4.90	10.247	29.25	.127	1.53	9.619
20:00			4"	3.5"				.5"			
22:00	80	"	9.5	6	.256	3.066	10.503	34.5	.307	3.679	9.926
11-12-91											
02:00	84	129	20.5	12.0	.613	3.679	11.116	8.5	.511	3.066	10.437
06:00	88	"	30.5	17.5	.562	3.373	11.678	13	.460	2.759	10.897
08:00	90	"	36.75	21.25	.383	4.599	12.061	15.5	.255	3.066	11.152
10:00	92	"	42	24	.281	3.372	12.342	18	.256	3.066	11.407
12:00	94	"	47	27	.307	3.679	12.649	20	.204	2.453	11.611
13:00	95	"	50	29	.204	4.905	12.853	21	.1022	2.453	11.713
1400	96	"	53.0	30.75	.179	4.3	13.032	22.25	.128	3.1	11.841
1500	97	"	55.5	32.0	.128	3.1	13.160	23.5	.128	3.1	11.969
1600	98	"	57.75	33.0	.102	2.4	13.262	24.75	.128	3.1	12.097
1800	100	"	62.25	36.0	.307	3.7	13.569	26.25	.153	1.8	12.25
1800	CHANGE	TKS #2	3.25	2.5		MARK	DIA	0.75			
2000	102	#2	9.0	6.5	.409	4.9	13.978	2.5	.179	2.1	12.429
2200	104	"	14.25	10.0	.358	4.3	14.336	4.25	.179	2.1	12.608

00275

CUSTOMER :	SANTOS LTD	PERFORATIONS:	7454' - 7738'	PAGE:	4	OF	4
WELL NAME:	THURAKINNA #3	FORMATION :	PATCHAWARRA	DATE:	12.12.91		
TEST TYPE :	L.E.T / F.G.S			OPR :	A. GRINDRAY		

PAGE: 4 OF 4

DATE: 12.12.91

OPR : *A. GRINDAY*

OIL API GRAVITY =	@ 60°F

[illegible]

EXPERTEST PTY. LTD.

FIELD READINGS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' KB

PAGE: 1 OF 5

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7-12-91

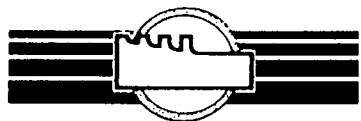
TEST TYPE: L.F.T / F.G.S

OPR: N. HAY

TIME		WELLHEAD DATA					SEPARATOR DATA				LIQUID PRODUCTION			
DATE	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)
7-12-91														
08:15		ARRIVE ON LOCATION												
		RIG IN CHOKIE MANIFOLD SEPARATOR FLARELINE GAUGE TANK & FRAC TANK												
		RIG UP WIRELINE UNIT & TOOL STRING												
12:20		R.I.H. WITH 1.75" BLIND BOX												
12:40		TAG P.B.T.D. AT 7836' KB												
12:41		P.O.O.H.												
13:00		ARRIVE BACK IN LUB												
13:05		1489 PRESSURE TEST FLOW LINE TO INLET & DISCHARGE VALVES ALL OK												
13:20		1489 0 FLOW WELL TO FLARE BYPASSING THE SEPARATOR L.F.T / F.G.S #1												
14:00	0	411	0	55	54/64									
16:00	2	425	0	57	11		2.0	205	158	133	10.75	7.75		3
		THE WELL HAS STABILISED 94T AT 2930 KPA & WILL NOT DRAW DOWN TO 1378 KPA												
		AS PER PROGRAMME												
18:00	4	431	0	53	54/64		2.0"	200	160	128	17.5	10.5		6.5
20:00	6	435	0	55	11		11	200	164	133	23.25	13.5		9.75
22:00	8	440	0	55	11		11	210	166	134	28.75	17.75		11
8-12-91														
02:00	12	449	0	55	54/64		2.0	210	166	134	34.5	21.5		13
06:00	16	448	0	57	11		11	210	178	140	42.25	21.5		20.5
08:00	18	458	0	47	11		11	210	182	135	47	23.25		23.75
08:00		CHANGE ORIFICE PLATE TO 2.25"												

00277

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS

PERFORATIONS: 7454' - 7738' KB.

PAGE: 2 OF 5

WELL NAME: THURAKINNA #3

FORMATION : PATCHAJARRA

DATE: 8-12-91

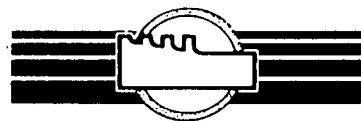
TEST TYPE : L.E.T./F.G.S.

OPR : N. HAY.

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)
8-12-91														
10:00	20	459	0	46	54/64		2.25	215	100	136	51.5	27.5		24
12:00	22	460	0	54	"		"	215	100	141	55.75	30		25.75
13:00	23	457	0	54	"		"	215	102	143	58.25	30.5		27.75
1340		RIG UP 2 X 5000 PSI PRESSURE ELEMENTS COUPLED TO 3 HR CLOCKS FOR F.G.S												
14:00	24	457	0	51	54/64		2.25	220	102	143	61	32		29
14:18		R.I.H												
15:00	25	456	0	61	"		"	220	100	143	63.25	33		30.25
15:40		P.O.O.H.												
15:57		ARRIVE BACK IN LUB												
16:00	26	458	0	64	"		"	220	100	145	66	34.25		31.75
16:15		DEPRESSURE LUB & RECOVER CHARTS GOOD CHARTS												
17:00	27	458	0	60	"		2.25	220	102	143	68.5	36		32.5
18:00	28	459	0	62	"		"	220	102	143	70.75	37.5		33.25
18:50		ADJUST CHOKER SETTING TO OBTAIN 3445 KPA ON WELL HEAD FOR L.E.T./F.G.S #2												
20:00	30	509	0	61	44/64		2.25	210	100	138	75.75	40.75		35
20:00											9.75	8.75		1"
22:00	32	510	0	60	"		"	210	100	140	16	11.75		4.25
9-12-91														
02:00	36	512	0	62	44/64		2.25	210	98	140	27	15.25		11.75
06:00	40	518	0	63	"		"	210	96	134	36	20		16
08:00	42	520	0	62	"		"	215	100	140	42	23.5		18.5

00278

EXPERTEST PTY. LTD.



FIELD READINGS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' H13

PAGE: 3 OF 5

WELL NAME: THURAHINNA # 3

FORMATION : PATCHAWARRA

DATE: 9-12-91

TEST TYPE : L.F.T / F.G.S

OPR : N. HAY

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 (°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)
9-12-91														
10:00	4.4	524	0	65	44/64		2.25	210	92	138	47.25	26.75		21
11:00	45	523	0	63	"		"	215	92	138	49.5	27.25		22.25
12:00	46	523	0	62	"		"	215	92	140	51.5	27.75		23.75
14:00	48	527	0	65	"		"	220	92	142	56.75	30.5		26.25
16:00	50	526	0	63	"		"	220	92	136	62	34		28
18:00	52	528	0	63	"		"	220	92	142	67.25	36.5		30.75
20:00	54	526	0	64	"		"	220	92	140	72.25	39		33.25
20:00											3.5	3.25		25
22:00	56	527	0	60	"		"	220	92	140	9	6		3
10-12-91														
02:00	60	529	0	60	44/64		2.25	215	90	133	19	11		8
06:00	64	531	0	63	"		"	210	87	140	31	17.5		13.5
08:00	66	531	0	64	"		"	220	104	140	36.25	20		16.25
08:50		RIG UP 2 x 5000 PSI PRESSURE ELEMENTS COUPLED TO 3HR CLOCK FOR F.G.S												
09:00	67	531	0	62	44/64		2.25	220	104	140	38.5	21.25		17.25
09:30		R.I.H.												
10:00	68	529	0	58	"		"	215	102	134	41	22.25		18.75
10:56		P.O.O.H.												
11:00	69	529	0	59	"		"	215	103	140	43.25	23.25		20
11:27		DEPRESSURE LUB & RECOVER CHARTS										GOOD CHARTS		
12:00	70	531	0	58	44/64		2.25	220	104	142	45.75	24.5		21.25

00279

FIELD READINGS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' MIB

PAGE: 4 OF 5

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 10-12-91

TEST TYPE: L.F.T / F.G.S

OPR: N. HAY

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)
10-12-91														
12:05		ADJUST CHOKE SETTING TO OBTAIN 5168 MPA ON WELL HEAD FOR L.F.T/F.G.S #3												
14:00	72	768	0	65	3 1/64		2.250	210	78	128	51.0	27.25		23.75
16:00	74	764	0	61	"		"	210	76	128	56.0	30.0		26.0
18:00	76	764	0	59	"		"	210	75	135	60.75	32.75		28.0
20:00	78	764	0	55	"		"	215	74	121	66.0	36.75		29.25
20:00											4	3.5		.5
22:00	80	764	0	52	"		"	210	72	127	9.5	6		3.5
11-12-91														
02:00	84	770	0	51	3 1/64		2.25	210	74	125	20.5	12		8.5
06:00	88	768	0	50	"		"	210	74	122	30.5	17.5		13
08:00	90	769	0	42	"		"	220	72	118	36.75	21.25		15.5
10:00	92	771	0	45	"		"	215	76	122	42	24		18
12:00	94	770	0	50	"		"	215	76	127	47	27		20
12:45		RIG UP 2X 5000 PSI PRESSURE ELEMENTS COUPLED TO 3HR CLOCKS FOR F.G.S												
13:00	95	769	0	52	3 1/64		2.25	215	76	127	50	29		21
13:15		R.I.H		F.G.S										
1400	96	766	0	53	"		"	215	77	127	53.0	30.75		22.25
1441		P.O.O.H		END F.G.S										
1500	97	772	0	55	3 1/64		"	212	78	129	55.5	32.0		23.5
1525		ADJUST CHOKE TO ACHIEVE 1000 PSI WELLHEAD PRESSURE												
1600		INSTALL A 1.75" ORIFICE PLATE												

CUSTOMER : SANTOS LTD	PERFORATIONS: 7454' — 7738'KB	PAGE: 5 OF 5
WELL NAME: THURAKINNA #3	FORMATION : PATCHAWARRA	DATE: 11. 12. 91
TEST TYPE : L.E.T. / F.G.S.		OPR : A. GEINSLAY

[illegible]

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' M13

PAGE: 1 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 7-12-91

TEST TYPE: L.F.T / F.G.S.

OPR: N. HAY

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION			L.G.R m ³ /10 ⁶ m ³
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 MMSCFD m ³ /10 ³	OIL BBLs m ³	WATER BBLs m ³	
7-12-91														
14:00	0	2834	0	55	54/64		START OF L.F.T							
16:00	2	2930	0	57	"	1413	56	115.73	4.599	1.22		0.383	0.1022	50.2
18:00	4	2971	0	53	"	1379	56	115.65	3.372	4.292		0.664		67.99
20:00	6	2999	0	55	"	1379	56	116.49	3.679	3.985		0.97		65.79
22:00	8	3033	0	55	"	1448	57	119.93	5.212	1.530		1.404		158.2
8-12-91														
02:00	12	3096	0	55	54/64	1448	57	119.93	2.299	1.226		1.787		29.39
06:00	16	3088	0	57	"	1448	60	123.48	0	4.599	79.02	1.787	1.888	37.2
08:00	18	3157	0	47	"	1448	59	125.48	2.136	3.984		1.965		48.7
10:00	20	3164	0	46	"	1482	58	126.64	5.212	0.30		2.399		43.5
12:00	22	3171	0	54	"	1482	61	126.02	3.066	2.146		2.654		41.3
13:00	23	3151	0	54	"	1482	62	127.00	1.22	4.90		2.705		48.1
14:00	24	3151	0	51	"	1516	62	128.47	3.679	3.066		2.858		52.5
15:00	25	3144	0	61	"	1516	62	127.20	2.452	3.066		2.96		43.3
16:00	26	3157	0	64	"	1516	63	127.20	3.066	3.679		3.087		53.0
17:00	27	3157	0	60	"	1516	62	126.95	4.292	1.839		3.265		48.2
18:00	28	3164	0	62	"	1516	62	128.47	3.679	1.839		3.418		42.9
20:00	30	3509	0	61	44/64	1447	59	124.92	3.985	2.146		3.75		49.0
22:00	32	3516	0	60	"	1447	60	124.69	3.672	3.984		4.056		61.4
9-12-91														
02:00	36	3564	0	62	44/64	1447	60	123.43	2.146	4.591		4.413		54.5

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738 HB

PAGE: 2 OF 4

WELL NAME: THURAHINNA # 3

FORMATION : PATCHAWARRA

DATE: 9-12-91

TEST TYPE: L.E.T / F.G.S

OPR: N. HAY

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION			L.G.R m ³ /10 ⁶ m ³
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	
9-12-91														
06:00	40	3571	0	63	44/64	1447	57	122.89	2.912	2.606	205.1	4.898	4.901	44.9
08:00	42	3585	0	62	"	1482	60	120.97	4.292	3.066		5.255		60.8
10:00	44	3612	0	65	"	1447	59	119.93	3.985	3.066		5.587		58.7
11:00	45	3606	0	63	"	1482	59	121.20	1.226	3.066		5.638		35.4
12:00	46	3606	0	62	"	1482	60	120.97	1.226	3.079		5.689		40.5
14:00	48	3633	0	65	"	1516	62	122.10	3.372	3.066		5.970		52.7
16:00	50	3626	0	63	"	1516	58	122.27	4.292	2.146		6.327		52.6
18:00	52	3640	0	63	"	1516	62	122.10	3.060	3.372		6.582		52.6
20:00	54	3626	0	64	"	1516	60	122.36	3.060	3.066		6.827		50.0
22:00	56	3633	0	60	"	1516	60	122.36	3.372	3.372		7.108		55.1
10-12-91														
02:00	60	3647	0	60	44/64	1482	56	120.47	3.066	3.066		7.619		50.9
06:00	64	3661	0	63	"	1447	60	116.27	3.985	3.372	326.1	8.283	8.014	63.2
08:00	66	3661	0	64	"	1516	60	130.10	3.066	3.372		8.538		49.5
09:00	67	3661	0	62	"	1516	60	130.10	3.066	2.452		8.665		42.4
10:00	68	3647	0	58	"	1482	57	128.16	2.452	3.679		8.767		47.8
11:00	69	3647	0	59	"	1482	60	128.02	2.452	3.066		8.869		43.4
12:00	70	3661	0	58	"	1516	61	129.85	3.066	3.066		8.996		47.2
14:00	72	5226	0	65	31/64	1447	56	111.4	3.372	3.060		9.277		57.7
16:00	74	5267	0	61	"	1447	56	109.9	3.372	2.75		9.558		55.7
18:00	76	5267	0	59	"	1447	59	108.4	3.372	2.45		9.839		53.7

00283

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : SANTOS LTD

PERFORATIONS: 7454' - 7738' H13

PAGE: 3 OF 4

WELL NAME: THURAKINNA #3

FORMATION : PATCHAWARRA

DATE: 10-12-91

TEST TYPE : L.E.T / F.G.S

OPR : N. HAY

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	TOTAL LIP RATE m ³ /D	L.G.R m ³ /10 ⁶ m ³
10-12-91															
20:00	78	5267	0	55	31/64	1482	53	110.5	4.90	1.53		10.247			58.19
22:00	80	5267	0	52	"	1447	53	107.14	3.066	3.679		10.503			62.95
11-12-91															
02:00	84	5309	0	51	31/64	1447	52	108.83	3.679	3.066		11.116			61.97
06:00	88	5295	0	50	"	1447	50	109.17	3.373	2.759	443.7	11.678	10.897		56.16
08:00	90	5302	0	42	"	1517	48	110.66	4.599	3.066		12.061			69.2
10:00	92	5316	0	45	"	1482	50	111.93	3.372	3.066		12.342			57.5
12:00	94	5309	0	50	"	1482	53	111.37	3.679	2.453		12.649			55.0
13:00	95	5302	0	52	"	1482	53	111.37	4.905	2.453		12.853			66.1
1315		R.I.H	F.G.S.												
1400	96	5282	0	53	"	1482	53	112.68	4.3	3.1		13.032		7.4	65.7
1441		P.O.O.H	END F.G.S.												
1500	97	5323	0	55	"	1462	54	112.40	3.1	3.1		13.160		6.2	55.2
1525		ADJUST CHOKE TO ACHIEVE 6895KPA WELLHEAD PRESSURE. 4 th RATE													
1600	98	6936	0	52	21/64	1448	47	76.96	2.4	3.1		13.262		5.5	71.5
1800	100	6950	0	48	"	1413	44	76.84	3.7	1.8		13.569		5.5	71.6
2000	102	6971	0	59	"	1413	42	77.09	4.9	2.1		13.978		7.0	90.8
2200	104	6964	0	59	"	1434	43	77.24	4.3	2.1		14.336		6.4	82.9
12 th	DECEMBER	1991													
0200	108	6978	0	59	"	1448	43	76.97	4.3	2.0		15.051		6.3	81.9
0600	112	6978	0	58	"	1448	43	76.32	4.6	2.1	538.019	15.818	13.298	6.7	87.8

00284

TEST RESULTS

CUSTOMER : *SANTOS LTD*

PERFORATIONS: 7454' - 7738'

PAGE: 4 OF 4

WELL NAME: THURAKINNA #3

FORMATION : *PATNAWARA*

DATE: 12.12.91

TEST TYPE : L.E.T. / F.G.S

OPR : A. GRINDLAY

[illegible]

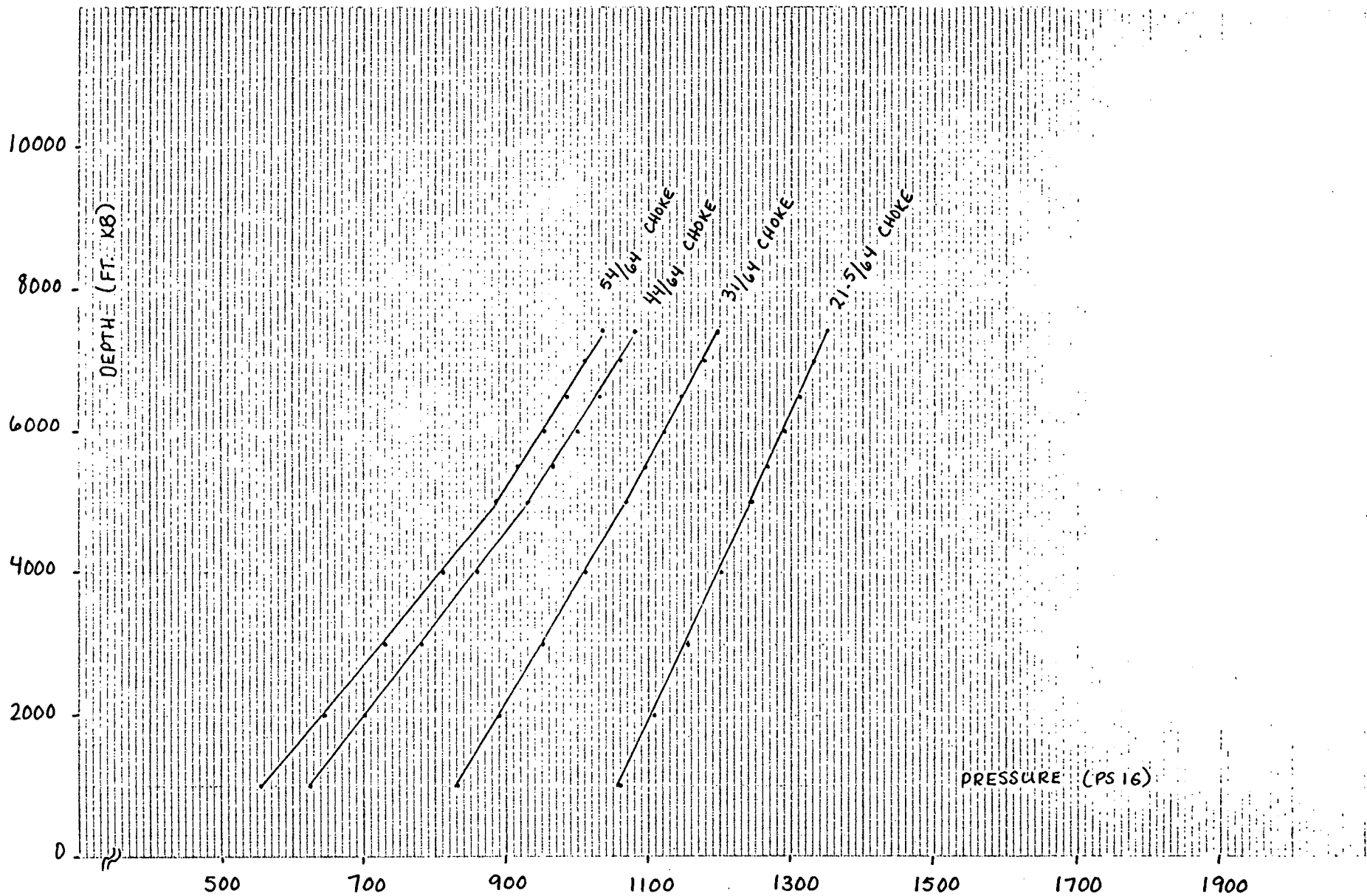
Shurakima # 3

LET/FGS - 7-12/12/91

Summary of Test Results.

CHOKE	FTP	FBHP	Q _g	Q _o	Q _w
54/64	3086 kPa 448 PSIG	7136 kPa 1035 PSIG	123.643 10 ³ m ³ /d 4.4 MMSCFD	2.935 m ³ /d 18.5 BOPD	2.738 m ³ /d 17.2 BWPD
44/64	3616 kPa 524 PSIG	7453 kPa 1081 PSIG	123.658 10 ³ m ³ /d 4.4 MMSCFD	3.357 m ³ /d 21.1 BOPD	3.373 m ³ /d 21.2 BWPD
31/64	5287 kPa 767 PSIG	8253 kPa 1197 PSIG	110.442 10 ³ m ³ /d 3.9 MMSCFD	3.728 m ³ /d 23.4 BOPD	2.796 m ³ /d 17.6 BWPD
21.5/64	6979 kPa 1012 PSIG	9308 kPa 1350 PSIG	77.078 10 ³ m ³ /d 2.7 MMSCFD	4.380 m ³ /d 27.6 BOPD	2.102 m ³ /d 13.2 BWPD

THURAKINNA # 3 - FLOWING PRESSURE GRADIENTS - 8/12/91 - 12/12/91
 ELEMENT # 21821 (BOT)



SANTOS LTD

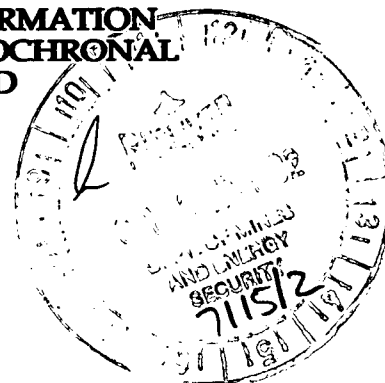
A.C.N. 007 550 923

PETROLEUM DEVELOPMENT DEPARTMENT

**THURAKINNA 3 PATCHAWARRA FORMATION
SINGLE RATE TEST AND MODIFIED ISOCHRONAL
3rd - 11th September, 1990 AND
4th - 19th January 1991**

Report:
Author:
Date:

RE:020/92
M.L. Downie
July, 1992.



CONTENTS

1. INTRODUCTION
2. RESULTS
3. CONCLUSIONS/RECOMMENDATIONS
4. DISCUSSION

FIGURES

- I LOG SECTION
- II PRESSURE VS TIME PLOT

APPENDICES

- I Pressure Build-up Analyses
- II Welltest Data
- III Compositional Data
- IV Static Gradient

1. INTRODUCTION

Thurakinna 3 was drilled in December 1987 to appraise the downdip gas potential of the Thurakinna structure. The well is located approximately 1.2 km north east of Thurakinna 1.

The well intersected 28 feet of net pay in the Patchawarra formation. Two DST's were run, DST 1 over the 74-2/74-6 sands flowed gas to surface at 5.2 MMscf/d with 260 BCPD. DST 2 flowed to surface over the 74-7/75-2 sands at RTSTM. The 76-4 and 77-0 sands were not tested.

In August 1990 the well was completed with 2-7/8" tubing and the 77-0 sand was perforated using 2-1/8" enerjets, 6 spf with 90° phasing. A single rate test was performed in September, 1990. In October 1990, the remaining Patchawarra sands 74-2, 74-6, 74-7 and 76-4 were perforated through tubing.

The following table provides the formation parameters for completions in the well.

FORMATION	SAND	NET PAY (ft)	POROSITY (%)	WATER SATURATION (%)	PERFORATED INTERVAL (ft KB)
=====					
Patchawarra	74-2	14	12.8	24.4	7454-7484
	74-6	1	11.3	39.6	7487-7504
	74-7	0	-	-	7526-7550
	76-4	2	15.0	23.4	7666-7672
	77-0	<u>11</u>	<u>14.7</u>	<u>14.4</u>	7720-7738
		28	13.7	20.9	

A single rate test of Thurakinna 3 was conducted in September, 1990 on the 77-0 sand to determine reservoir parameters for use in fracture stimulation design. As the zone tested 7.1 MMscf/d the fracture stimulation was not performed.

The well was brought on-line in October, 1990 at 8.0 MMscf/d.

A modified isochronal test of Thurakinna 3 commenced on January 4, 1991 to determine well deliverability and reservoir parameters. Approximately 0.5 Bcf of gas had been produced from this well prior to the modified isochronal test.

Separator fluid samples were collected during the single rate test and modified isochronal test. These each have been recombined into a full well stream composition both of which are similar in make-up. The full well stream composition from the modified isochronal test was used for determining fluid properties. A static gradient survey was also conducted at the end of the extended shut-in period.

This report presents the results and conclusions arising from testing Thurakinna 3.

2. RESULTS

No results were obtained from modified isochronal analysis due to the well not cleaning up throughout the isochronal test sequence.

The following results were obtained from pressure build-up analysis using numerical modelling techniques.

	DST 174-2, 74-6 Sands	Single Rate Test (77-0 sand)	Modified Isochronal
Flow capacity	114.0 md-ft	396.0 md-ft	461.2 md-ft
Permeability	7.1 md	36.0 md	16.5 md
Apparent Skin	1.4	-0.1	2.1
Reservoir Pressure at datum, 7497'KB	3303 psia	3491 psia	2607 psia

The flow rates were as follows:

Gas Rates (MMscf/d)	5.2	7.1	7.5
FTHP (psia)	1165	2353	1291
Condensate rate (bbls/MMscf)	44.6	3.8	3.7
Water rate (bbls/MMscf)	-	2.8	3.7

1. There is only a marginal increase in the kh between the single rate test and the modified isochronal test. This is inconsistent with the inclusion of additional sands and indicates the possibility that the additional perforating was only partially successful and that the 77-0 sand being the most permeable is dominating productivity.
2. Pressure depletion of 900 psi occurred between the single rate test and modified isochronal following a cumulative production of 0.5 Bcf. This depletion is probably within the high permeability zone of the 77-0 sand.
3. Multilayering effects are evident during the build-up of the modified isochronal.
4. Due to the well not cleaning up, deliverability calculations were not possible.
5. The higher reservoir pressure, estimated from the 77-0 sand is anomalous. This higher pressure could be due to a different trapping mechanism which could also explain the difference in composition between the 77-0 sand and the other sands.
6. The recombined full well stream composition taken from the modified isochronal test is valid and has been adopted for fluid properties.

Method

Testing began with the determination of choke settings. The isochronal test sequence consisted of four flow and shut-in periods of 12 hourly duration. This was then followed by an extended flow of 24 hours and then shut-in for an extended build-up of 122 hours. A static gradient was performed to complete the test programme.

Analysis

The pressure build-up analysis was performed using the ECL "Weltest" software package which provides the use of numerical simulation techniques and diagnostic plots.

Results

The high reservoir pressure of 3491 psia, estimated from the 77-0 sand is anomalous. This pressure is not consistent with the Thurakinna Patchawarra reservoir and is probably due to a different trapping mechanism. This could explain why the 77-0 sand is significantly leaner than the other Thurakinna Patchawarra sands.

A comparison between the single rate test, testing the 77-0 sand and the modified isochronal test, testing the 74-2, 74-6, 76-4 and 77-0 sands indicates a marginal increase in flow capacity, 396.0 md-ft and 461 md-ft respectively. This result is not consistent with the inclusion of additional perforated sands. A possible reason for this could be that in multi-layered systems experiencing crossflow the kh measured is usually less than the true kh. Another possible reason could be that one or more of the 3 sand units (74-2, 74-6, 76-4) was not perforated. A bottom hole pressure survey was conducted in June, 1991 but due to severe "humping" effects, caused by fluid segregation within the wellbore, conclusive reservoir parameters could not be obtained to try and validate previous results.

In July, 1991 the 74-2 and 74-6 sands were reperforated and an increase in productivity was observed, 2.1 MMscf/d to 2.8 MMscf/d and also an increase in liquid yields 3.8 bbls/MMscf (Modified Isochronal) to 10.2 bbls/MMscf (December, 1991 LET) indicating these sands were not being previously accessed effectively. The 77-0 sand is significantly leaner in comparison to the upper sands.

Of concern is the pressure depletion seen from September, 1990 to January, 1991 of 900 psi. Production during this period was 0.5 Bcf. As the change in composition following the July, 1991 reperforation confirmed that the 77-0 sand was the prime contributor, the depletion is therefore from the 77-0 sand. However, it is probably depletion existing within the high permeability zone (Figure 1.)

Deliverability results could not be obtained due to the well experiencing "clean-up" during the isochronal test sequence. The "clean-up" effects can be seen on the pressure vs time plot (figure 2). The bottom hole flowing pressure (BHFP) during each flow period is increasing, when in ideal conditions the BHFP should decrease to a stabilized pressure. This is probably due to fluid drop out, within the wellbore, being drawn back into the formation during the shut-in periods. This creates a "pseudo skin" which causes clean-up to occur during each flow period.

K8:97

FIGURE 1

00296
THURAKINNA
#3

74-2

NP: 14'
Ø: 12.8
Sw: 24.4

Q: 52 MHsef/d
260 BC PD

74-6

NP: 1'
Ø: 11.3
Sw: 39.6

7500

CORE #

74-7

Q: RTSTM
rec: 30' WOGCM
280' OGCM

7600

KB:97

FIGURE 1 (cont.)

00297
THURAKINNA

3

NP: 2'
 ϕ : 15.0
Sw: 23.4

76-4

7700

GR

Bit Size
Caliper

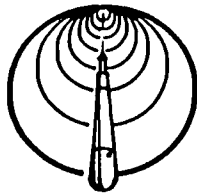
77-0

NP: 11'
 ϕ : 14.7
Sw: 14.4

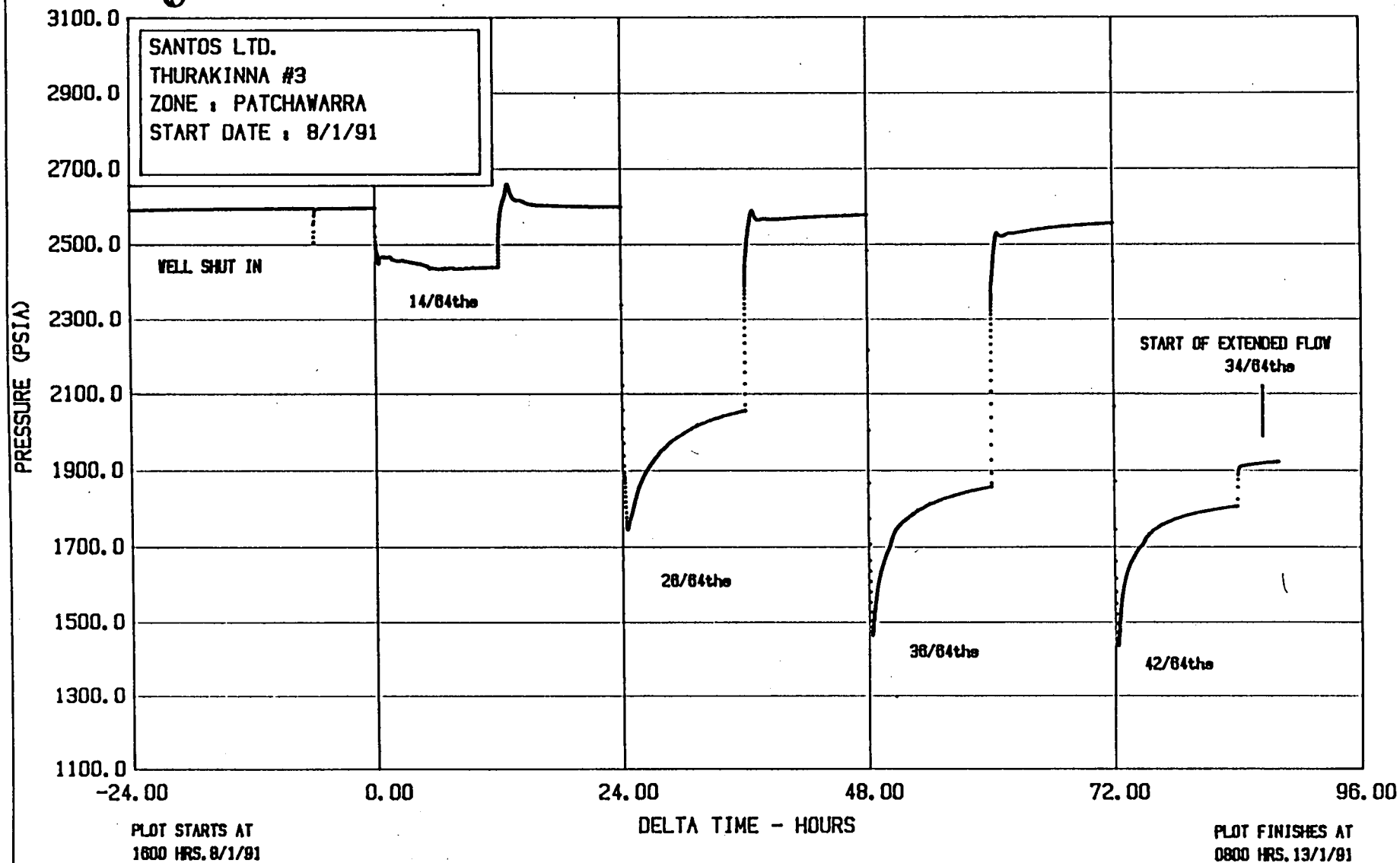
7800

Long Spaced

Short Spaced



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE LINEAR PLOT



A P P E N D I X I

Pressure Build-up Analysis

00300

FIELD : Thurakinna

WELL : Thurakinna 3

TEST NO. : 1
----- Single Rate Test

DATE : 3 - 11 Sept. 1990

00301

RUN TYPE : Analysis

PHASE : GAS

NO. OF WELLS : 1

PVT DATA : Reservoir temperature = 256.0 deg F
Standard temperature = 60.0 deg F
Standard pressure = 14.7 psia

Calculations to use PSEUDO time

WELL DATA : Well radius = 0.354 feet
Formation thickness = 11.0 feet
Porosity = 0.147
Rock compressibility = 4.500E-06 1/psi
Water saturation = 0.144
Water compressibility = 3.500E-06 1/psi

RATE DATA

00302

Time	Rate
Hours	Mscf/day
0.0	7122.0
83.75	0.0

PRESSURE DATA

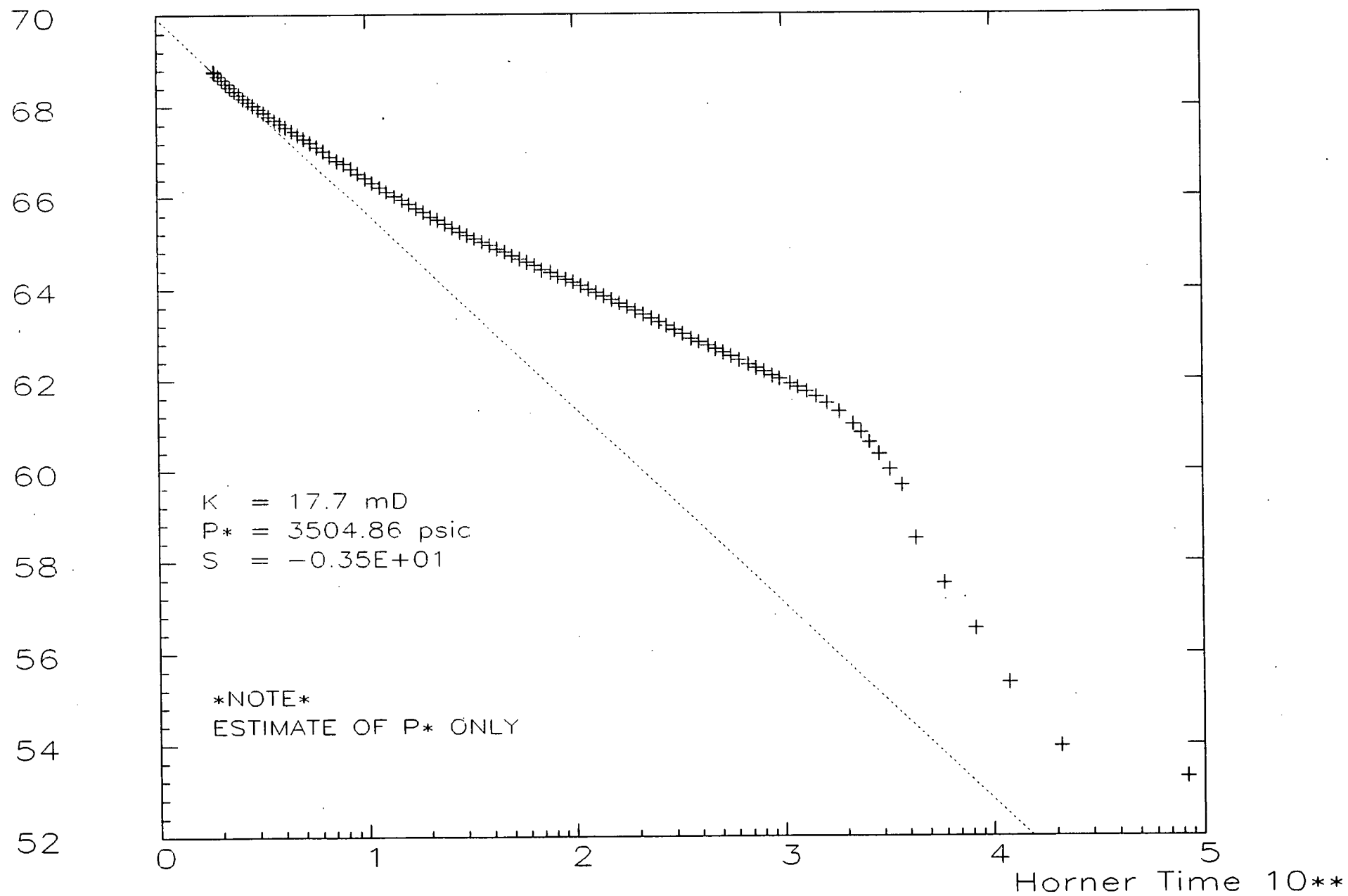
00303

Time	Pressure	Time	Pressure	Time	Pressure
Hours	psia	Hours	psia	Hours	psia
0.0	3009.572	84.054	3309.509	89.63	3390.35
83.75	3009.601	84.081	3311.947	90.211	3393.502
83.751	3009.647	84.111	3314.404	90.792	3396.364
83.754	3030.228	84.144	3316.764	91.456	3399.569
83.757	3072.912	84.18	3319.329	92.12	3402.556
83.76	3108.398	84.219	3321.569	92.867	3405.696
83.764	3138.158	84.261	3324.098	93.697	3408.777
83.769	3167.595	84.306	3326.398	94.61	3412.071
83.772	3202.445	84.354	3328.602	95.606	3413.87
83.775	3212.949	84.408	3330.919	96.685	3416.694
83.778	3222.886	84.465	3333.117	97.847	3420.131
83.781	3230.856	84.528	3335.343	99.092	3422.787
83.784	3237.481	84.595	3337.343	100.42	3425.432
83.787	3242.879	84.669	3338.949	101.914	3427.886
83.793	3250.852	84.75	3341.671	103.491	3430.348
83.799	3256.552	84.85	3343.278	105.234	3432.756
83.805	3260.96	84.946	3346.042	107.143	3435.141
83.811	3264.24	85.05	3348.157	109.135	3437.437
83.817	3267.113	85.162	3350.281	111.376	3439.77
83.823	3269.569	85.283	3352.285	113.783	3442.082
83.832	3272.654	85.419	3354.623	116.356	3444.382
83.839	3274.47	85.562	3356.709	119.178	3446.659
83.847	3277.265	85.722	3358.974	122.249	3448.983
83.856	3279.579	85.898	3361.053	125.569	3451.242
83.865	3281.931	86.084	3363.43	129.138	3453.564
83.877	3284.746	86.289	3365.573	133.039	3455.905
83.889	3287.283	86.51	3367.495	137.256	3458.242
83.901	3289.609	86.748	3370.292	141.822	3460.593
83.914	3291.774	87.02	3372.792	146.801	3462.955
83.928	3294.259	87.309	3375.272	152.196	3465.348
83.946	3296.632	87.615	3376.889	158.089	3467.749
83.964	3298.667	87.955	3380.169	164.48	3470.165
83.985	3301.963	88.329	3382.608	165.55	3470.723
84.006	3304.502	88.72	3385.318		
84.03	3307.129	89.145	3387.929		

Thurakinna/Thurakinna 3

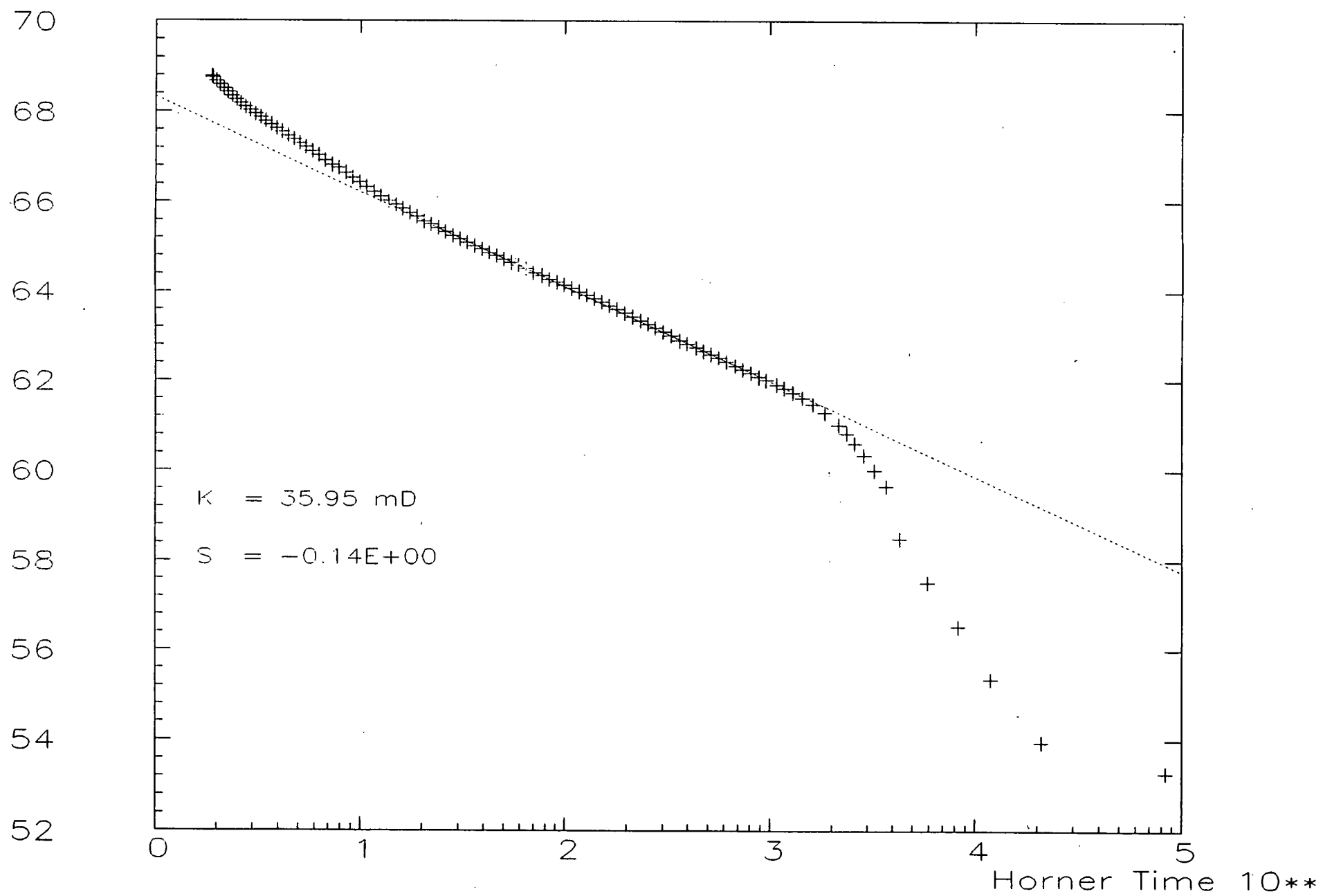
Test 1 (3 SEP 1990)

P psi2/cp *10**7



00304

P psi2/cp *10**7



00306

FIELD : Thurakinna

WELL : Thurakinna #3

TEST NO. : 1
Modified Isochronal

DATE : 4 - 19 JAN 1991

RUN TYPE : Analysis

PHASE : GAS

NO. OF WELLS : 1

PVT DATA : Reservoir temperature = 275.0 deg F
 Standard temperature = 60.0 deg F
 Standard pressure = 14.7 psia
 Gas gravity = 0.776

Gas Composition :

Component	Mole Fraction xi	Molar Mass g/mol	Critical Temperature	Critical Pressure
N2	0.0053000	28.013000	-232.3840	492.97000
CO2	0.1018000	44.010000	87.926000	1070.9500
H2S	0.0000000	34.076000	212.72000	1305.9400
He	0.0000000	4.0030000	-450.1300	33.210000
CH4	0.7303000	16.042000	-116.6080	667.76000
C2H6	0.1150000	30.070000	90.104000	707.76000
C3H8	0.0302000	44.097000	206.02400	616.26000
iC4H10	0.0031000	58.124000	275.00000	529.07000
nC4H10	0.0055000	58.124000	305.67200	550.66000
iC5H12	0.0013000	72.151000	369.12200	490.37000
nC5H12	0.0014000	72.151000	385.71800	488.58000
C6H14	0.0018000	86.178000	453.72200	436.87000
C7H16+	0.0043000	114.23200	564.24200	360.57000

Calculations to use PSEUDO time

WELL DATA : Well radius = 0.35 feet
 Formation thickness = 28.0 feet
 Porosity = 0.137
 Rock compressibility = 4.500E-06 1/psi
 Water saturation = 0.209
 Water compressibility = 3.500E-06 1/psi

RATE DATA

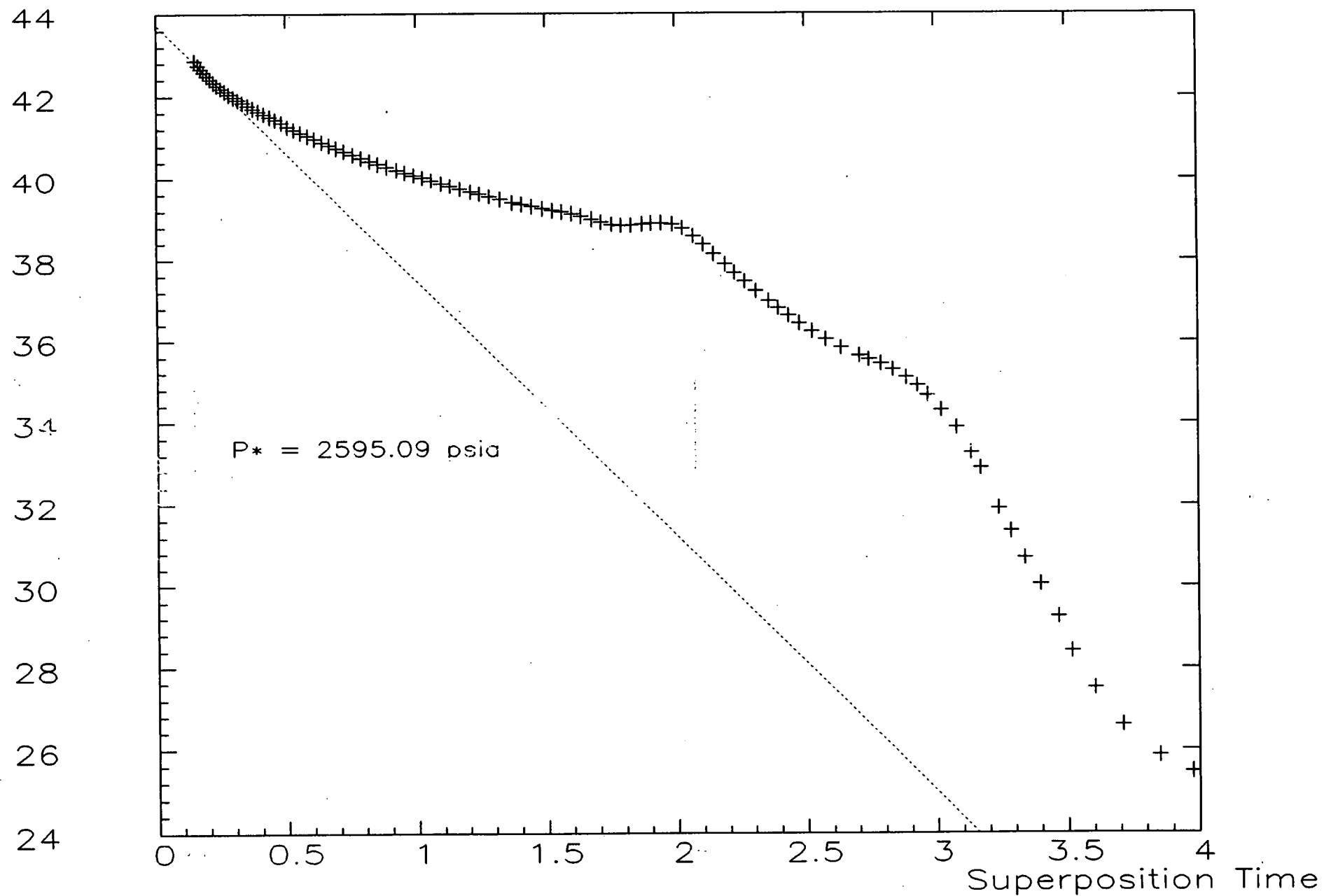
00308

Time	Rate
Hours	Mscf/day
0.0	7218.0
5.0	0.0
65.0	1574.0
77.0	0.0
89.0	5602.0
101.0	0.0
113.0	7527.0
125.0	0.0
137.0	8288.0
149.0	7523.0
173.0	0.0

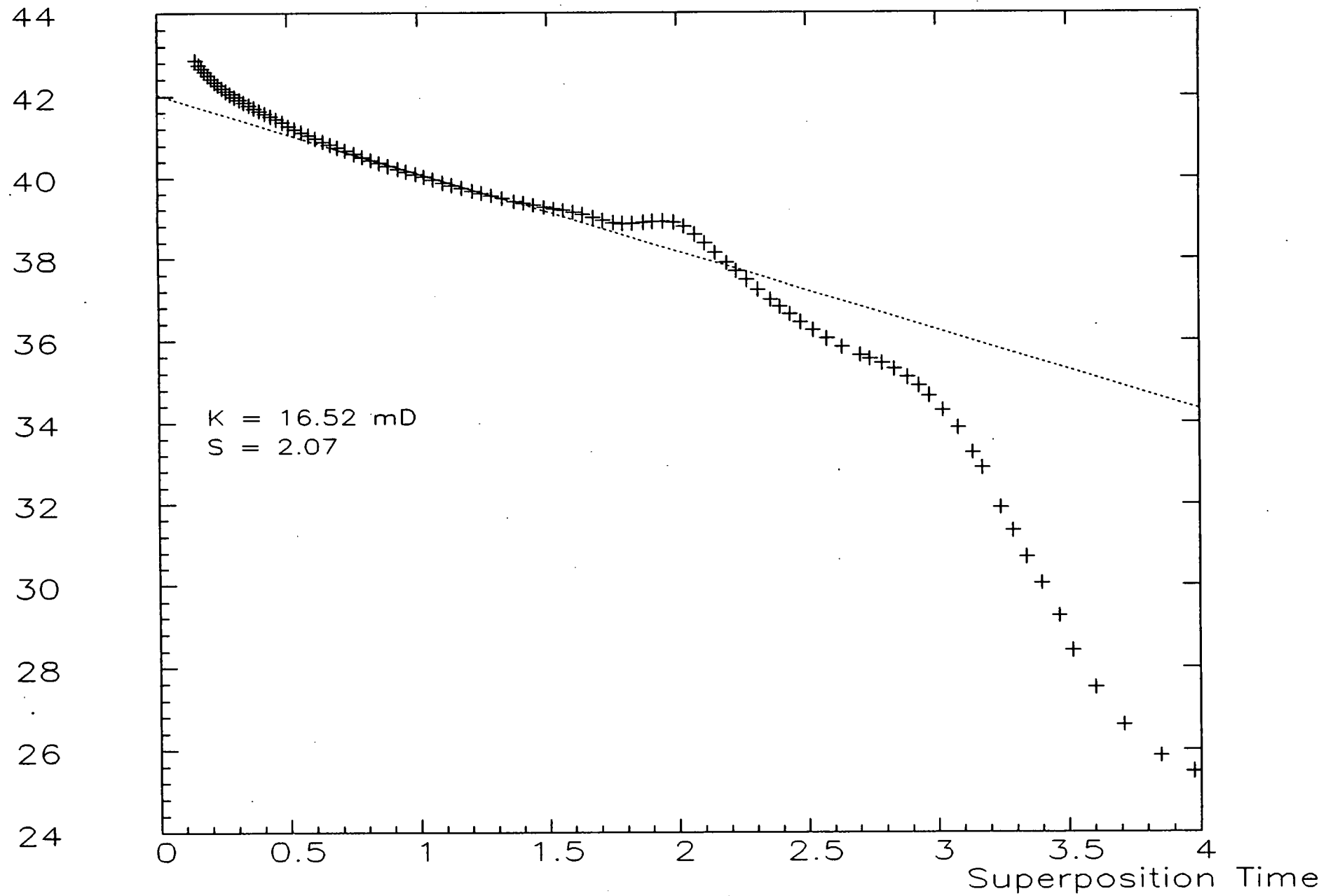
PRESSURE DATA

Time	Pressure	Time	Pressure	Time	Pressure
Hours	psia	Hours	psia	Hours	psia
0.0	2566.0	173.2	2362.67	178.833	2476.46
5.0	2438.0	173.217	2368.82	179.333	2478.54
65.0	2596.5	173.242	2377.38	180.0	2481.09
77.0	2437.98	173.267	2385.42	180.667	2483.47
89.0	2598.33	173.292	2392.73	181.333	2485.81
101.0	2057.17	173.317	2399.83	182.167	2488.43
113.0	2578.61	173.35	2408.53	183.0	2490.97
125.0	1857.14	173.383	2416.48	184.0	2493.7
137.0	2557.03	173.417	2423.61	185.0	2496.27
149.0	1805.88	173.458	2430.37	186.0	2498.54
173.0	1944.47	173.5	2433.53	187.167	2501.05
173.006	1944.79	173.55	2434.6	188.5	2503.73
173.008	1959.92	173.6	2434.38	189.833	2506.09
173.011	1989.6	173.65	2433.56	191.333	2508.69
173.014	2024.59	173.717	2432.78	193.0	2511.15
173.017	2058.89	173.783	2432.68	194.667	2513.42
173.019	2090.88	173.85	2433.45	196.5	2516.78
173.022	2120.56	173.933	2435.37	198.5	2519.11
173.025	2144.53	174.017	2437.63	200.667	2521.41
173.028	2168.13	174.117	2440.11	203.0	2523.72
173.031	2188.91	174.217	2442.1	205.5	2525.89
173.036	2224.3	174.333	2443.87	208.333	2528.14
173.039	2237.78	174.45	2444.99	211.333	2530.4
173.044	2259.44	174.583	2446.34	214.667	2532.72
173.05	2274.86	174.75	2448.18	218.167	2534.95
173.056	2287.53	174.917	2449.97	222.0	2537.22
173.061	2295.99	175.083	2451.11	226.167	2539.46
173.067	2303.01	175.333	2454.14	230.667	2541.84
173.075	2309.89	175.583	2456.38	235.5	2544.19
173.083	2314.97	175.833	2458.46	240.833	2546.54
173.092	2318.65	176.083	2460.38	246.5	2549.05
173.1	2321.99	176.417	2462.86	252.667	2551.57
173.117	2328.88	176.75	2465.15	259.333	2554.15
173.133	2335.96	177.083	2467.26	266.667	2557.11
173.15	2343.0	177.5	2469.82	274.5	2559.73
173.167	2349.78	177.917	2472.12	283.0	2562.47
173.183	2356.35	178.333	2474.19	295.0	2566.28

P psi2/cp *10**7



P psi2/cp *10**7



A P P E N D I X I I

Welltest Data

Thurakinna #3
Summary Of Pre Frac Single Rate Test & Build-Up Survey
3rd - 11th September 1990

Single Rate Test

3rd - 7th September 1990

04/09/90: Well brought on line @ 0730 hrs.
 Trimmed flow through separator @ 1000 hrs.
 Choke set on 22/64" @ 1215 hrs.
 Tested well on 22/64" for 83.75 hrs (1.25 hrs of choke adjustments
 6/9/91 omitted from averages).

F.T.H.P. (Final)	=	16127	kPa
Separator Pressure	=	2420	kPa
Separator Temperature	=	31	°C
Gas Flow Rate	=	200.666	E ³ m ³ /d
Condensate Flow Rate	=	4.240	m ³ /d
Water Flow Rate	=	3.185	m ³ /d

07/09/90: Shut well in @ 2400 hrs.

Pressure @ 2400 hrs @ 7690' KB = 20621 kPa
 F.B.H.T. = 124.1°C

Buildup Survey

7th - 11th September 1990

07/09/90: Shut well in @ 2400 hrs for 81.8 hrs buildup
 11/09/90: Pressure @ 0948 hrs after 81.8 hrs buildup @ 7690' KB = 23832 kPa
 S.I.B.H.T. = 123.1°C

Static Gradient Survey

Mid Point of Perforations = 7729' KB

11/09/90: Ran static pressure gradient survey as pulling out of hole.
 Pressure @ MPP = 23852 kPa

OILSERV AUSTRALIA LTD	CLIENT: SANTOS LTD WELL: THURAKINA # 3 DATE: 03/9/90	SEQUENCE OF OPERATIONS PAGE: 1
DATE/TIME	REMARKS	
3/9/90	Arrive location Thurakinna # 5 spot equipment & start rig up.	
4/9/90	Pressure test line to inlet of separator.	
715	Open well to 18.4" by pass separator.	
730	Trim flow through sepaator 22.4".	
1000		
6/9/90	Start E/line rig up.	
1000	Rig up Lubricator test GRC tool 56027.	
1500	Pressure up Lubricator hang in Lubricator for 2 hrs.	
1515	R.I.H.	
1715	Hang @ 3000'KB due to bad light wait until first light to continue R.I.H.	
1830	Turn off tool until morning.	
2307		
7/9/90	Power up tool.	
534	Continue R.I.H.	
640	Hang @ 7690'KB survey depth.	
745	Monitor flow.	
8/9/90	Shut in well wing valve for build up.	
2400	Monitor Build up.	
9/9/90	Monitor Build up.	
10/9/90	Monitor Build up.	
cont/2		

SEQUENCE OF EVENTS CONTINUATION SHEET.

PAGE: 2

11/9/90	Monitor Build up.
948	R.I.H. to start Static Gradient Survey.
954	Stop # 12 @ 7729'KB.
1013	P.O.O.H. Gradient : 0.0699 PSI/FT.
1022	Stop # 11 @ 7500'KB.
1046	P.O.O.H. Gradient: 0.066 PSI/FT
1104	Stop # 10 @ 7000'KB.
1129	P.O.O.H. Gradient : 0.068 PSI/FT.
1140	Stop # 9 @ 6500'KB.
1210	P.O.O.H. Gradient : 0.074 PSI/FT.
1257	Stop # 8 @ 6000'KB.
1323	P.O.O.H. Gradient : 0.076 PSI/FT.
1338	Stop # 7 @ 5500'KB.
1357	P.O.O.H. Gradient : 0.076 PSI/FT.
1414	Stop # 6 @ 5000'KB.
1435	P.O.O.H. Gradient : 0.078 PSI/FT.
1506	Stop # 5 @ 4000'KB.
1534	P.O.O.H. Gradient : 0.084 PSI/FT.
1600	Stop # 4 @ 3000'KB.
1622	P.O.O.H. Gradient: 0.090 PSI/FT.
1654	Stop # 3 @ 2000'KB.
1718	P.O.O.H. Gradient: 0.097 PSI/FT.
1747	Stop # 2 @ 1000'KB.
1807	P.O.O.H. Gradient: 0.102 PSI/FT.
1840	Stop # 1 in Lubricator.
	Hang in Lubricator for 2 hrs.
2040	Depressure Lubricator.
2050	Tool to atmosphere.
2055	End of Test.
12/9/90	
600	Start rig down of E/line.

FORMATION: Patchawarra

00316

SANTOS LTD.
WELL TEST SUMMARY

Page 2.

2nd SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
10/1/91	0400	0	13107	0		Shut well in
	0500	1	14873	0		
	0600	2	14645	0		
	0700	3	14583	0		
	0800	4	14548	0		
	0900	5	14548	0		
	1000	6	14548	0		
	1100	7	14548	0		
	1200	8	14535	0		
	1300	9	14521	0		
	1400	10	14542	0		
	1500	11	14521	0		
	1600	12	14514	0		Opened well on rate #2.

FLOW PERIOD

Run No.: 2 Duration of Run: 12 Hours.
Flow Well On: 26/64"Choke.

Orifice Size: 2.000 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	kPa psig	kPa w.g.	°C °F		
10/1/91	1600	0	14514	0	45					
	1700	1	8419	0	45	390	100	113	16.020	Nil
	1800	2	9520	0	46	405	106	111.2	6.408	3.204
	1900	3	9798	0	48	415	109	109.4	9.612	1.602
	2000	4	9984	0	47	400	116	104	4.806	1.602
	2100	5	10101	0	50	390	120	103.1	4.806	6.408
	2200	6	10232	0	51	390	124	104	4.806	1.602
	2300	7	10287	0	52	390	125	102.2	6.408	3.204
	2400	8	10356	0	53	375	132	102.2	3.204	4.806
11/1/91	0100	9	10411	7	53	365	136	102.2	4.806	1.602
	0200	10	10453	14	55	365	136	102.2	6.408	3.204
	0300	11	10508	14	55	360	139	101.3	4.806	4.806
	0400	12	10542	21	55	360	139	101.3	4.806	3.204

00317

WELL TEST SUMMARY

3RD SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
11/1/91	0400	0	10542	21	55	Shut well in
	0500	1	14631	0		
	0600	2	14565	0		
	0700	3	14535	0		
	0800	4	14514	0		
	0900	5	14507	0		
	1000	6	14521	0		
	1100	7	14514	0		
	1200	8	14507	0		
	1300	9	14621	0		
	1400	10	14528	0		
	1500	11	14535	0		
	1600	12	14542	0		Opened well on rate # 3

Flow Period

Run No.: 3 Duration of Run: 12 Hours.
Flow Well On: 36/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover		Data	Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Ilw	Temp.		
			kPa	kPa	°C	kPapsig	kPa" w.g.	°C °F		
11/1/91	1600	0	14542	0	44					
	1700	1	6909	0	49	320	122	113	9.612	9.612
	1800	2	7281	0	51	330	134	113	NIL	6.408
	1900	3	7412	0	54	320	139	111.2	6.408	6.408
	2000	4	7536	7	54	315	146	107.6	6.408	3.204
	2100	5	7653	14	56	315	150	107.6	6.408	3.204
	2200	6	7722	21	51	315	152	107.6	4.806	3.204
	2300	7	7784	21	59	315	153	107.6	3.204	8.010
	2400	8	7846	34	60	315	156	107.6	3.204	3.204
12/1/91	0100	9	7902	41	61	315	158	109.4	9.612	3.204
	0200	10	7936	41	63	315	159	109.4	4.806	4.806
	0300	11	7978	48	60	315	160	109.4	4.806	4.806
	0400	12	8005	55	62	315	161	109.4	3.204	4.806

WP 2548G

00318

SANTOS LTD.
WELL TEST SUMMARY

Page 4.

4TH SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
12/1/91	0400	0	8005	55	62	Shut well in
	0500	1	14397	14		
	0600	2	14411	0		
	0700	3	14404	0		
	0800	4	14411	0		
	0900	5	14411	0		
	1000	6	14417	0		
	1100	7	14431	0		
	1200	8	14431	0		
	1300	9	14431	0		
	1400	10	14445	0		
	1500	11	14459	0		
	1600	12	14459	0		opened Well on rate # 4

Flow Period

Run No.: 4 Duration of Run: 12 Hours.
Flow Well On: 42/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 3.068 ins

Date	Time	Flow Time (Hours)	Wellhead Readings			Meter or Prover Data			Condensate Production m ³ /d	Water Production m ³ /d
			Tubing	Casing	Temp.	Pf	Hw	Temp.		
			kPa	kPa	°C	kPa psig	kPa "w.g.	°C °F		
12/1/91	1600	0	14459	0	45					
	1700	1	6116	0	52	370	133	111.2	11.214	3.204
	1800	2	6392	0	54	360	148	104	8.010	3.204
	1900	3	6523	0	56	360	153	105.8	3.204	8.010
	2000	4	6599	21	58	360	155	107.6	8.010	1.602
	2100	5	6681	21	60	360	160	107.6	6.408	4.806
	2200	6	6736	34	61	360	163	109.4	3.204	6.408
	2300	7	6785	34	62	360	165	111.2	8.010	3.204
	2400	8	6833	48	63	360	167	113	3.204	6.408
13/1/91	0100	9	6874	55	64	360	168	113	4.806	4.806
	0200	10	6895	48	64	360	169	114.8	4.806	4.806
	0300	11	6922	62	65	360	170	116.6	8.010	4.806
	0400	12	6943	69	66	360	173	116.6	3.204	3.204

WP 2548G

00319

WELL TEST SUMMARY
FINAL BUILD-UP PERIOD

Page 6.

Date	Time	Shut in Period (Hours)	Tubing Pressure kPa	Casing Pressure kPa	Wellhead Temp. °C	REMARKS
14/1/91	0400	0	8798	138	72	Shut well in
	0415	0.25	13714	103		
	0430	0.5	13997	90		
	0445	0.75	13997	76		
	0500	1	13990	55		
	0515	1.25	14018	48		
	0530	1.5	14031	48		
	0545	1.75	14031	34		
	0600	2	14045	34		
	0700	3	14066	21		
	0800	4	14100	14		
	0900	5	14114	7		
	1000	6	14135	7		
	1400	10	14190	0		
	1800	14	14183	0		
	2200	18	14183	0		
15/1/91	0200	22	14183	0		
	0600	26	14197	0		
	1000	30	14118	0		
	1400	34	14238	0		
	1800	38	14238	0		
	2200	42	14224	0		
16/1/91	0200	46	14238	0		
	0600	50	14238	0		
	1000	54	14286	0		
	1400	58	14293	0		
	1800	62	14307	0		
	2200	66	14266	0		
17/1/91	0200	70	14273	0		
	0600	74	14273	0		
	1000	78	14293	0		
	1400	82	14328	0		
	1800	86	14355	0		
	2200	90	14328	0		
18/1/91	0200	94	14321	0		
	0600	98	14321	0		
	1000	102	14342	0		
	1400	106	N/A	0		
	1800	110	14376	0		
	2200	114	14355	0		
19/1/91	0200	118	14355	0		
	0600	122	14355	0		End of B/up. P.O.O.H. for S.G.S.

00321

SANTOS LTD.
WELL TEST SUMMARY
CALCULATION SHEET

Page 8.

GAS RATES THROUGH SEPARATOR

Run No.	Iiw		PE		Size Orifice Plate		Ft	
	(kPa)	(w.g.)	(kPa)	(psig)	(mm)	(inches)	(°C)	(°F)
1	23.9	96	2275	330	31.750	1.250	43	109.4
2	34.6	139	2482	360	50.800	2.000	38.5	101.3
3	40.1	161	2172	315	57.150	2.250	43	109.4
4	43.1	173	2482	360	57.150	2.250	47	116.6
5	38.6	155	2275	330	57.150	2.250	46	114.8

Separator Gas Properties

Specific Gravity = 0.767

TC = 403.7 °R

PC = 708.8 psia

CO2 CONTENT = 10.21 mole %

Meter Run = 3.068"

GAS RATES THROUGH SEPARATOR

Run No.	Q	
	E3 m ³ /d	mmscf/d
1	44.345	1.574
2	157.841	5.602
3	212.061	7.527
4	233.509	8.288
5	211.944	7.523

WP 2548G

00322

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

WELL NAME: Thurakinna # 3DATE: 4-M / 1 / 91ELEMENT NO: E-Line SRO GaugeDEPTH TESTED: 7400' KB

DWT IN: _____

OUT: _____

LUB IN: _____

OUT: _____

SIMPLIFIED ANALYSIS

	Duration (hours)	Sandface Pressure (psia)	Bottom- Hole Temp. (°F)	Meas.	Δp^2_6 ($\times 10^6$ psia ²)	Flow Rate $\text{E } 3\text{m}^3/\text{d}$	H/Carbon Prod. m^3/d	Water Prod. m^3/d	REMARKS
Initial Shut In	60	2596.54	275.40	✓	—	—	—	—	$q = C(\bar{p}_R^2 - p_{wf}^2)^n$ slope $n =$ _____ $\bar{p}_R =$ _____ psia $C = \frac{q}{(\bar{p}_R^2 - p_{wf}^2)^n}$ = _____ AOF (MMscfd) = _____
Flow 1	12	2437.98	276.98	✓	0.798		5.2065	NIL	
Shut In	12	2598.33	275.88	✓	—	—	—	—	
Flow 2	12	2057.17	273.47	✓	2.519		6.4080	2.9370	
Shut In	12	2578.61	275.06	✓	—	—	—	—	
Flow 3	12	1857.14	270.46	✓	3.200		5.2065	5.0730	
Shut In	12	2557.03	274.19	✓	—	—	—	—	
Flow 4	12	1805.88	269.88	✓	3.277		6.0075	4.5390	
Extended Flow	24	1944.47	273.81	✓	2.805		4.4055	4.4055	
Final Shut In	122	2566.28	274.67	✓	—	—	—	—	

WP 2548G

00323

A P P E N D I X I I I

Compositional Data

TEST DATA

Date of test	.	Line Oil Rate	.	m3/d
FTHP	. kPa	Stock Tank Oil Rate	4.06	m3/d
Choke Size	. / 64ths	Reported Gas Rate	.	x10E3 m3/d
Separator Pressure	. Kpa	Confirmed Gas Rate	216.58	x10E3 m3/d
Separator Temperature	. deg C	Water Rate	.	m3/d
Hours on Test	.	Line Oil Density	.	kg/m3
Separator Code	.			

SAMPLE DATA

Date of Sample	13/01/91
Sample Source/Point	SEPARATOR
Sample Temperature	45.0 deg C
Sample Pressure	2275 kPa
Laboratory	AMDEL
Laboratory Reference	009/802

H. P. GAS SAMPLE ANALYSIS

N2	0.53
CO2	10.21
C1	73.28
C2	11.53
C3	3.02
iC4	0.31
nC4	0.54
iC5	0.13
nC5	0.14
C6	0.17
C7	0.12
C8+	0.02
Total	100.00
Density	0.767 (Air=1)
Mol Wt.	22.174
Gross H.V.	40.110 MJ/m3

FLASH GAS SAMPLE ANALYSIS

N2	0.18
CO2	12.53
C1	38.56
C2	24.19
C3	13.56
iC4	2.22
nC4	4.34
iC5	1.14
nC5	1.22
C6	1.23
C7	0.61
C8+	0.22
Total	100.00
Density	1.124 (Air=1)
Mol wt.	32.443
Gross H.V.	58.710 MJ/m3

FLASH LIQ SAMPLE ANALYSIS

N2	0.00
CO2	0.00
C1	0.00
C2	0.37
C3	0.85
iC4	0.41
nC4	1.52
iC5	0.98
nC5	1.53
C6	3.60
BENZ	1.19
C7	9.06
MCH	6.48
TOL	10.14
C8+	65.25
Total	101.38
SG at 26.0	0.795
SG at 15.6	0.792
Deg API	47.270
SG of C8+	0.813
Mol Wt. C8	137.00

Vol. of Flash Gas	12.00 litres
Vol. of Flash Liq	416.00 mls
Temp. of Flash	26.0 deg C

FWS RECOMBINATION PROCEDURE May 27, 1992 Page 2.
 RECOMBINATION OUTPUT FOR THURAKINNA # 3 L
 SAMPLED ON: Jan 13, 1991

H. P. Gas Molar Rate	9159.77 kg-mol/d
Moles of Flash Gas	0.489 moles
Mol. Wt. of Flash Liquid	121.63 kg/kg-mol
Moles of Flash Liquid	2.72 moles
Moles of H.P. Liquid	3.21 moles

HP Sample Composition

N2	0.03
CO2	1.89
C1	5.80
C2	3.95
C3	2.76
iC4	0.68
nC4	1.93
iC5	0.99
nC5	1.46
C6	3.20
C7	8.68
C8+	68.63

Total	100.00
-------	--------

Mol. Wt. of H.P. Liquid Sample	114.257 kg/kg-mol
Separator Oil Molar Rate	31.32 kg-mol/d
F.W.S. Molar Rate	9191.08 kg-mol/d
Gas Recombination Factor	0.997
Oil Recombination Factor	0.003

F.W.S. Composition		K Values	LIQUIDS	SALES	COMPONENT	RAW
-----		-----	-----	-----	-----	---
N2	0.53	.	.	0.53	.	.
CO2	10.18	.	.	1.96	.	.
C1	73.05	12.634	.	73.05	.	.
C2	11.50	2.919	8.63	2.88	632.6	54.56
C3	3.02	1.094	2.87	0.15	651.3	18.69
iC4	0.31	0.456	0.31	.	774.0	2.40
nC4	0.54	0.280	0.54	.	745.8	4.03
iC5	0.13	0.131	0.13	.	866.0	1.13
nC5	0.14	0.096	0.14	.	857.4	1.20
C6	0.18	0.053	0.18	.	973.2	1.75
C7	0.15	0.014	0.15	.	1092.0	1.64
C8+	0.25	0.000	0.25	.	.	.
Total	99.98		13.19	78.57		

00326

SANTOS RESERVOIR ENGINEERING

COMPOSITIONAL DATA

FIELD/WELL THURAKINNA # 3 L REVISION.
 FORMATION PATCHAWARRA
 TYPE OF TEST
 SOURCE OF GAS SAMPLE...
 SOURCE OF LIQ SAMPLE...
 SAMPLE DATE..... 13/01/91
 LAB... AMDEL LAB. REFERENCE No.... 009/802

COMPONENT	F.W.S. (%)	LIQUIDS (%)	SALES (%)	COMPONENT (M3/M3E6)	RAW (M3/M3E6)
N2	0.53	.	0.53	.	.
CO2	10.18	.	1.96	.	.
C1	73.05	.	73.05	.	.
C2	11.50	8.63	2.88	3559	306.9
C3	3.02	2.87	0.15	3664	105.1
iC4	0.31	0.31	.	4354	13.5
nC4	0.54	0.54	.	4195	22.7
iC5	0.13	0.13	.	4872	6.3
nC5	0.14	0.14	.	4823	6.8
C6	0.18	0.18	.	5475	9.9
C7	0.15	0.15	.	6143	9.2
C8+	0.25	0.25	.	7124	17.8
TOTAL	99.98	13.19	78.57		498.2
				(bbl/mmcft =	88.3)

MW FWS..	22.47		RAW LPG (M3/M3E6)...	141.3
SG FWS..	.	(air=1)	(bbl/mmcft)...	25.0
MW C8+..	137.0		RAW C5+ (M3/M3E6)...	50.0
SG C8+..	0.813	(water=1)	(bbl/mmcft)...	8.9
C4-/C5+..	N/A		SHRINKAGE FACTOR	0.7857

(MW * 1 E03)
 M3/M3E6 RAW = FWS
 (SG 23.6447)

SALES PROCESSING CONDITIONS

(%HC + %N2) * 2.5
 CO2 SALES ----- (2.5 % of SALES)
 97.5

C2 SALES = 0.25 * C2 (FWS)

C3 SALES = 0.05 * C3 (FWS)

DATE GENERATED: May 27, 1992

BY AF
 APPROVED.:
 DATE.....

00327

SANTOS RESERVOIR ENGINEERING

RESERVOIR ENGINEERING DATA

FIELD/WELL THURAKINNA # 3 L REVISION.
 FORMATION PATCHAWARRA
 DATUM DEPTH (m KB)..... (. ft KB)
 SOURCE OF GAS ANALYSIS.
 SOURCE INITIAL TEMP....
 SOURCE INITIAL PRESS...

COMPONENT	MOLE. (%)	Tc (K) (COMPONENT)	MOLE % x Tc	Pc (kPa) (COMPONENT)	MOLE % x Pc
N2	0.53	126.27	0.67	3399	18.0
CO2	10.18	304.22	30.97	7384	751.7
C1	73.05	190.59	139.23	4604	3363.5
C2	11.50	305.43	35.12	4880	561.2
C3	3.02	369.83	11.17	4249	128.3
1C4	0.31	408.15	1.27	3648	11.3
nC4	0.54	425.19	2.30	3797	20.5
1C5	0.13	460.44	0.60	3381	4.4
nC5	0.14	469.66	0.66	3369	4.7
C6	0.18	507.44	0.91	3012	5.4
C7	0.15	540.27	0.81	2736	4.1
C8+	0.25	594.64	1.49	2289	5.7
TOTAL	99.98	Tc =	225.19	Pc =	4878.9

Ta (K)... 288 Pa (kPa)... 101.3
 T1 (K)... P1 (kPa)...
 (Deg. R = .) (psia = .)
 Tc (K)... 225 Pc (kPa) ... 4879
 (Deg. R = 405) (psia = 708)
 Z1 (corr) Z500 (corr)

$$\frac{1}{Bg} = \frac{P1}{T1} * \frac{Ta}{Pa} * \frac{1}{Z1(corr)} = \text{STD.m3/RES.m3}$$

(= scf/rcf)

$$\text{RECOVERY FACTOR} = \frac{P1/Z1(corr) - 3447/Z500}{P1/Z1(corr)}$$

(3447 kPa)
(500 psia)

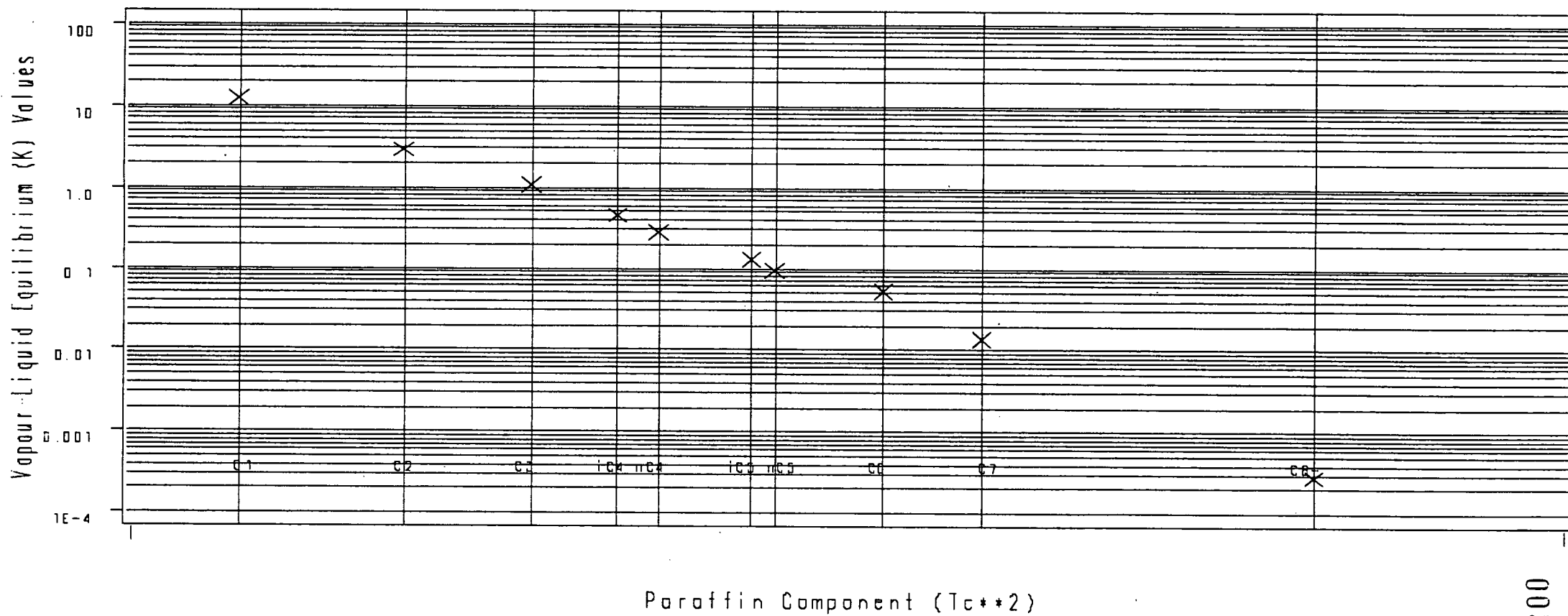
BY AF
 APPROVED.:
 DATE.....

DATE GENERATED: May 27, 1992

NOTE: Metric standard conditions: 101.325 kPa, 25 deg C.
 Imperial standard conditions: 14.65 psia, 60 deg F.

00328

WELL=THURAKINNA # 3 L Date of sample=13/01/91



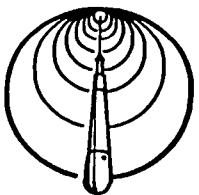
00329

Data Generated Nov 27, 1992



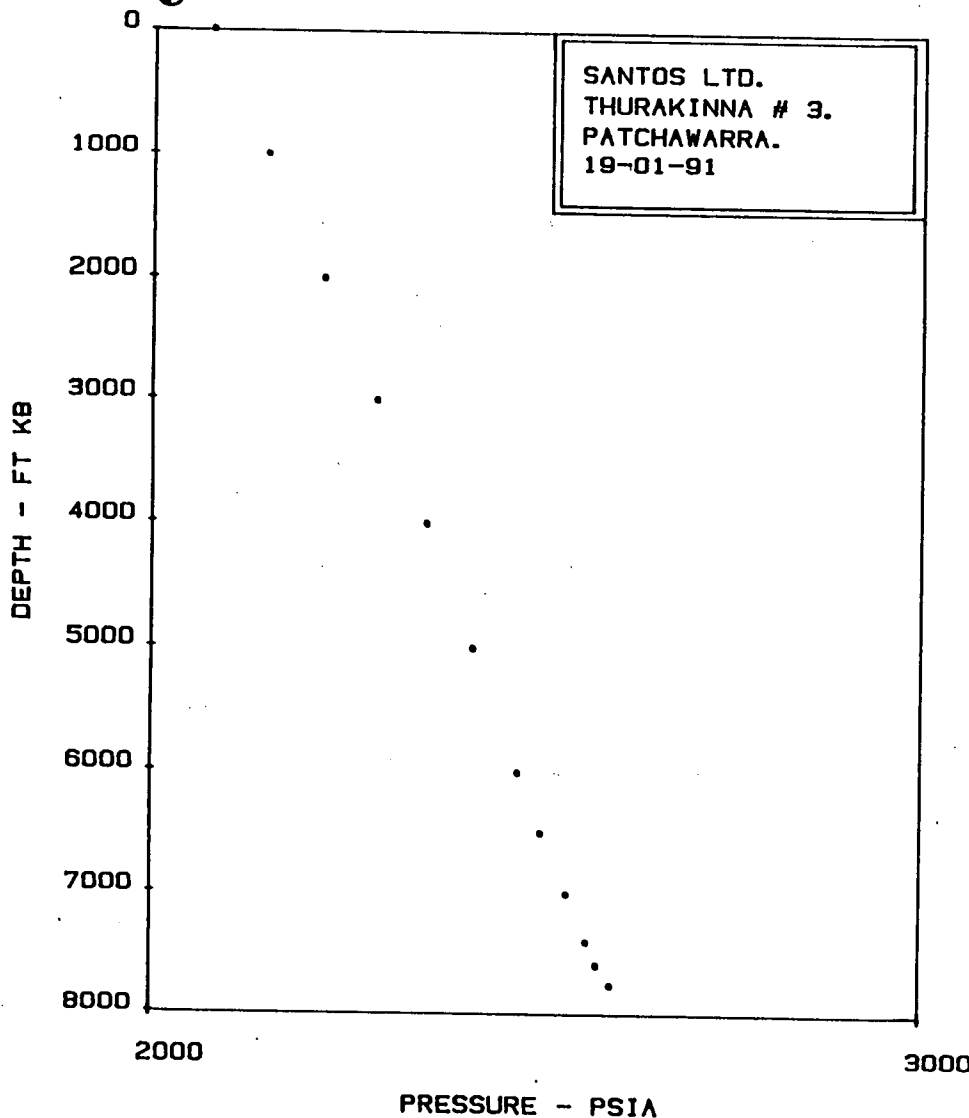
A P P E N D I X I V

Static Gradient



EXPERTEST PTY LTD - ELECTRIC WIRELINE SERVICE

STATIC GRADIENT SURVEY

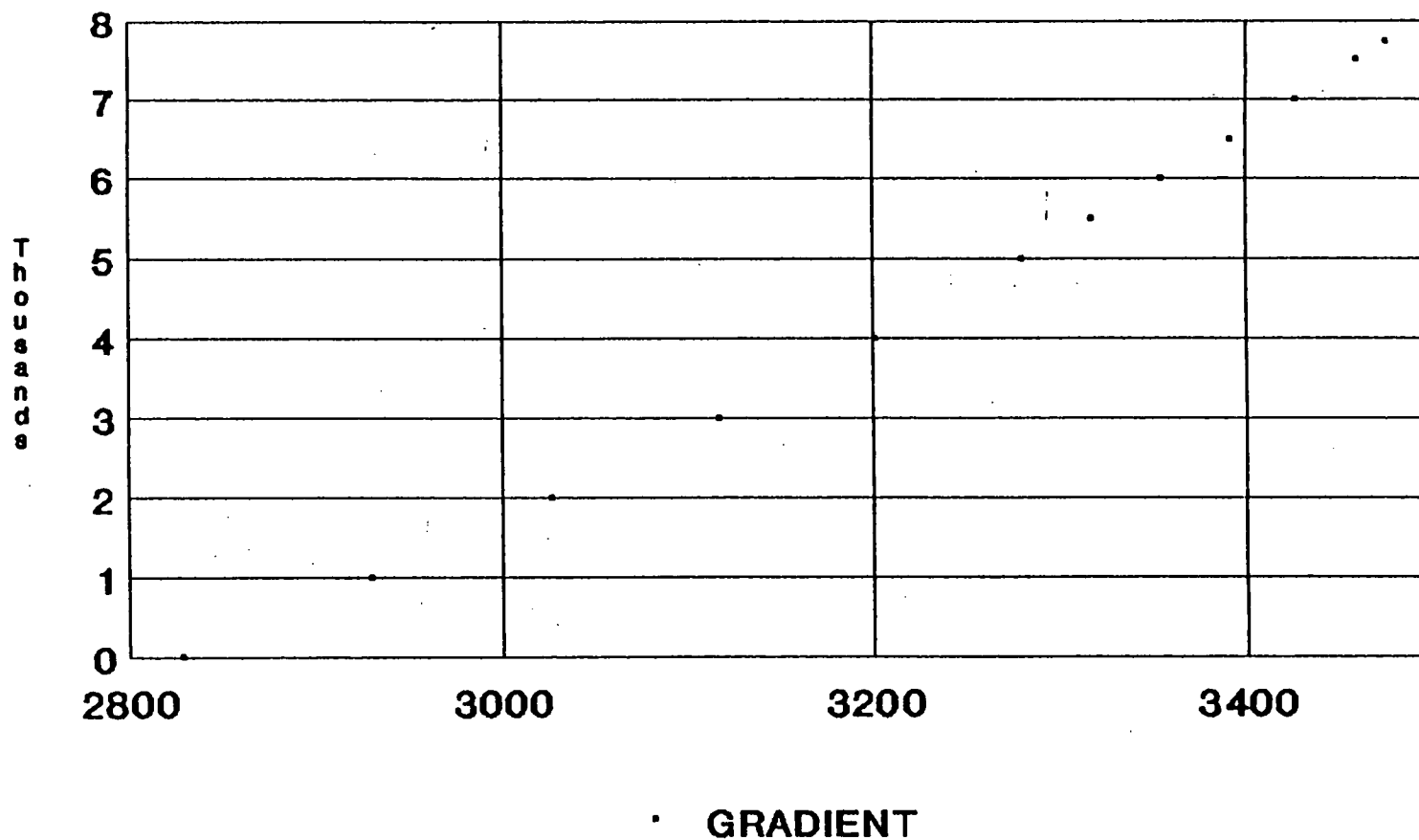


STOP	TIME	DEPTH ('KB)	PRESSURE (PSIA)	GRADIENT (PSI/FT)
1	647	7760	2598.94	---
2	726	7596	2580.89	0.1101
3	746	7400	2567.15	0.0701
4	815	7000	2541.15	0.0650
5	846	6500	2507.46	0.0674
6	917	6000	2477.03	0.0609
7	945	5000	2418.03	0.0590
8	1024	4000	2357.11	0.0609
9	1050	3000	2291.93	0.0652
10	1117	2000	2222.39	0.0695
11	1156	1000	2148.35	0.0740
12	1250	LUB.	2075.72	0.0726

GRADIENT ON THE WAY OUT.
WITH MANUAL TEMPERATURE OF 274.67 F.

00331

OILSERV AUSTRALIA LTD
 STATIC GRADIENT SURVEY
 THURAKINNA #3



CLIENT : SANTOS LTD
 GAUGE 8/N 58027
 OPERATOR : G.PASZNICKI

DATE : 11/09/90

00332



SEQUENCE OF EVENTS

CUSTOMER : Santo's Ltd

PERFORATIONS: 7454' - 7504' KB

PAGE: 1 OF 3

WELL NAME: Thura Kinna #3

FORMATION : Patchawarna

DATE: 3.7.92

TEST TYPE : Build up Survey

OPR : A. CIZENTO

DATE/TIME	DESCRIPTION OF EVENTS
3.7.92	
0830	Arrive location and rig in Flare line to production skid.
0845	Rig up wireline unit.
0915	Secure lease.
1030	Shut well in, and fit Suck valve.
1110	R.I.H with 1.5" Toolstring and 1.75" Blind Box. (perform dummy run)
1130	Tag PSTD @ 7831' KB. (Pickups done every 1000') Tubing and perforations clear of any obstruction.
1132	P.O.O.H
1150	At Surface with toolstring and Blind Box. Secure lease.
1300	open well to atmosphere on 4% choke.
1302	Hilo closed.
1305	Hilo open, well flowing to atmosphere on 4% choke. Monitor Flowing wellhead pressures.
1330	Prepare Survey gauges for 96Hrs Build up Survey.
1400	Pressure Lubricator with Survey gauges.
1500	Depressure Lubricator
1600	Pressure Lubricator and R.I.H with Survey gauges.
1621	Hang on depth @ 7400' KB. Monitor Flowing wellhead pressures overnight.
1900	Well Shut in on Hilo. (due to Hydrates)
2100	open Hilo, well Flowing to atmosphere on 4% choke.
2155	Well Shut in on Hilo.
2205	open Hilo, well Flowing to atmosphere on 4% choke. Shut Supply line to Hilo
2400	Hilo Shut in. leave well shut in overnight.

SEQUENCE OF EVENTS

CUSTOMER : SANTOS LTID.

PERFORATIONS: 7480'- 7815' K13

PAGE: 3 OF 3

WELL NAME: THURAKINNA #3

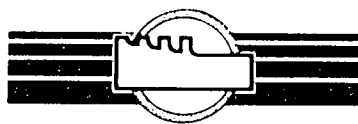
FORMATION : PATCHAWARIZA

DATE: 9.7.92

TEST TYPE : BUILD UP SURVEY.

OPR : P. BLACK

[illegible]



TEST RESULTS

CUSTOMER : Santo's Ltd

PERFORATIONS: 7480'-7815' KB

PAGE: 1 OF 5

WELL NAME: Thura Kinna #3

FORMATION : Patchawarra

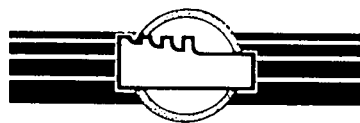
DATE: 3.7.92

TEST TYPE : Build up Survey

OPR : A. CIZENTO

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	
3-7-92														
1030		8522	0	N/A	100									
1300	0													
1305		8522	0	N/A	4									
1330		7219	0	40	4									
1400	1	7288	0	40	4									
1500	2	7267	0	40	4									
1600	3	7254	0	42	4									
1621		7247	0	42	4									
1800	7	7232												
1900														
2100		9198	0	N/A										
2155		9370	0	22										
2205		6798	0	N/A										
2400		7239	0	N/A										

00336



CUSTOMER : Santo's Ltd

PERFORATIONS: 7480' - 7815' KB

PAGE: 2 OF 5

WELL NAME: Thura Kinna #3

FORMATION : Patchawarra

DATE: 4.7.92

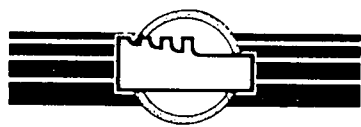
TEST TYPE: Build up Survey

OPR: A. CLENTO

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		
4.7.92															
0200		9398	0			Hilo Shut in									
0600		9281	0			Hilo Shut in. Advise moomba on well conditions									
						and await on field operator.									
0816	0	9226	0	N/A	4 %	Field operator on location, open Hilo, well Flowing									
						to atmosphere on 4 % choke.									
0900		6978	0	40											
1000	1 3/4	6672	0	41											
1023		6599	0	41		P.O.O.H. with Survey gauges.									
1048		6633	0	41		At surface with Survey gauges, Rig gauges out.									
1130	2 3/4	6757	0	42		Shut well in. Travel to moomba for test equipment.									
1500						Pressure test choke, Ring gasket passing. Remove									
						and inspect ring gasket.									
1520		9377	0	N/A	18/64 H/S	Pressure test choke, choke holding well pressure									
						open well to atmosphere on 18/64 choke setting									
1538		7178	0	N/A	18/64 H/S	Pressure lubricator with Survey gauges inside.									
1600	0	7226	0	38	18/64 H/S										
1638		7157	0	38	18/64 H/S	Depressure lubricator.									
1708		7178	0	38	18/64 H/S	Pressure lubricator and R.H. with Survey gauges.									
1726		7150	0	38	18/64 H/S	Hang gauges on depth @ 7400' KB. Monitor Flowing									
						well head pressure overnight.									
1800	2	7164	0	38	18/64 H/S										

00337

00337



TEST RESULTS

CUSTOMER : Santo's 2tel

PERFORATIONS: 7480' - 7815' KB

PAGE: 3 OF 5

WELL NAME: Thura Kinna #3

FORMATION : Patchawarra

DATE: 4.7.92

TEST TYPE : Build up Survey

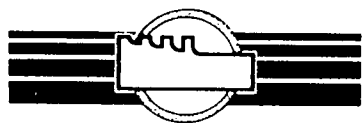
OPR : A. CILENTO

TIME		WELLHEAD DATA				FLOW RATES				CUMULATIVE PRODUCTION					
DATE	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		
4.7.92					64 ⁴³										
2200	6	7233	0	38	18										
5.7.92															
0200	10	7274	0	42	18										
0600	14	7316	0	42	18										
0630		7322	0	42	18										
0700	15	7315	0	43	18										
0730		7322	0	44	18										
0800	16	7336	0	44	18										
0830		7336	0	45	18										
0900	17	7336	0	44	18										
0930		7350	0	42	18										
1000	18	7357	0	41	18										
15		9060	0												
30		9281	0												
45		9143	0												
1100	1	9446	0												
15		9487	0												
30		9501	0												
45		9515	0												
1200	2	9528	0												
15		9550	0												

monitor wellhead pressures overnight.

Shut well in for 96 HRS Build up Survey.

00338



TEST RESULTS

CUSTOMER : Santo's Ltd

PERFORATIONS: 7480' - 7815' KB

PAGE: 4 OF 5

WELL NAME: Thuralcinwa #3

FORMATION : Patchawarra

DATE: 5.7.92

TEST TYPE : Build up Survey

OPR : A. CILENTO

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE	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		
5.7.92															
1230		9556	0												
45		9570	0												
1300	3	9577	0												
15		9584	0												
30		9584	0												
45		9584	0												
1400	4	9584	0												
1800	8	9397	0												
2200	12	9246	0												
6.7.92															
0200	16	9226	0												
0600	20	9184	0												
1000	24	9184	0												
1400	28	9198	0												
1800	32	9198	0												
2200	36	9198	0												
7.7.92															
0200	40	9198	0												
0600	44	9150	0												
1000	48	9150	0												
1400	52	9150	0												

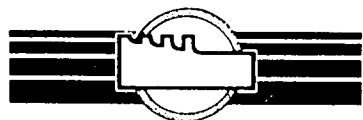
Continue to Monitor, Shut'in Wellhead pressure

Continue to Monitor, Shut'in Wellhead pressure

Continue to Monitor, Shut'in Wellhead pressure

00339

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : Santa's Ltd

PERFORATIONS: 7480' - 7815' KB

PAGE: 5 OF 5

WELL NAME: Thurakirua #3

FORMATION : Patchawarra

DATE: 7.7.92

TEST TYPE: Build up Survey

OPR: A. CILENTO

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 m³10³/D	OIL BPD m³/D	WATER BPD m³/D	GAS MMSCF m³10³	OIL BBLS m³	WATER BBLS m³			
1800	56	9150	"													
2200	60	9150	"			CONTINUE TO MONITOR SHUT IN WELLHEAD PRESSURE										
8.7.92			"													
0200	64	9150	"													
0600	68	9150	"													
1000	72	9150	"													
1400	76	9150	"													
1800	80	9150	"													
2200	84	9150	"													
9.7.92																
0200	88	9150	"													
0600	92	9150	"													
1000	96	9150	"			P.O.O.H.										
1023		9150	"			AT SURFACE WITH GAUGES AND DEPRESSURE										
1123		9150				PRESSURE LUBRICATOR										
1223		9150				DEPRESSURE LUBRICATOR										
						PERFORM STATIC GRADIENT SURVEY. SEE ATTACHED DATA										
1610						R.D.M.O.										
						HAND WELL BACK TO PRODUCTION.										

00340

00340

CUSTOMER : Santo's Ltd	PERFORATIONS: 7480'-7815' KB	PAGE: 1 OF 3
WELL NAME: Thurekinna #3	FORMATION : Patchawarra	DATE: 3.7.92
TEST TYPE : Build up Survey		OPR : A. CILENTO

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.		1589	1889	22945	DATE : 3.7.92			
ELEMENT RANGE		5075	5150	169°-420°	PRESSURE LUBRICATOR :	1400	7238	0
RECORDING SECTION SERIAL NO.		K1313	K1314	705545	RUN IN HOLE :	1600	7254	0
DATE OF CALIBRATION:	2290°F	18.2.92	18.2.92		ON DEPTH AT : 7400 FT/M	1621	7247	0
CLOCK SERIAL NO.		2470	F15685	F15682	DATE : 4.7.92			
CLOCK RANGE		120 HRS	120 HRS	120 HRS	PULL OUT OF HOLE :	1023	6599	0
LEAD SCREW TYPE		15TLS	15TLS	15TLS	AT SURFACE :	1048	6633	0
					DEPRESSURE LUBRICATOR :	1048	6633	0
ENGAGE STYLUS	DATE 3.7.92 TIME	1347	1347	1347	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS	DATE 4.7.92 TIME	1100	1100	1100	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

[illegible]

00341

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS LTD

PERFORATIONS: 7480' - 7815' KD

PAGE: 3 OF 3

WELL NAME: THIRAKINNA #3

FORMATION : PATCHAWARIRI

DATE: 9. 7. 92

TEST TYPE : S.C.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.		1589	1889	22945	DATE : 9.7.92			
ELEMENT RANGE		5075PSI	5150PSI	169°-428°F	PRESSURE LUBRICATOR :	1250	9150	0
RECORDING SECTION SERIAL NO.		K1313	K1314	705545	RUN IN HOLE :	1310	"	"
DATE OF CALIBRATION: @ 290°F		18.2.92	18.2.92		ON DEPTH AT : 7400 FT/M	1415	"	"
CLOCK SERIAL NO.		25509	3297	2180	DATE : 9.7.92			
CLOCK RANGE		3HRS	3HRS	3HRS	PULL OUT OF HOLE :	1430	9150	0
LEAD SCREW TYPE		15 TLS	15 TLS	15 TLS	AT SURFACE :	1453	"	"
					DEPRESSURE LUBRICATOR :	1513	"	"
ENGAGE STYLUS DATE 9.7.92 TIME		1242	1242	1242	MAXIMUM BHT AT FT/M = °F/C			
DISENGAGE STYLUS DATE 9.7.92 TIME		1521	1521	1521	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

[illegible]

ET 108

00342

BHP/BHT GAUGE RUN DATA

CUSTOMER : Sawto's Ltd

PERFORATIONS: 7480' - 7815' 1CS

PAGE: 2 OF 3

WELL NAME: Thura Kiwaka #3

FORMATION : Patchawarra

DATE: 4-7-92

TEST TYPE : Build up Survey

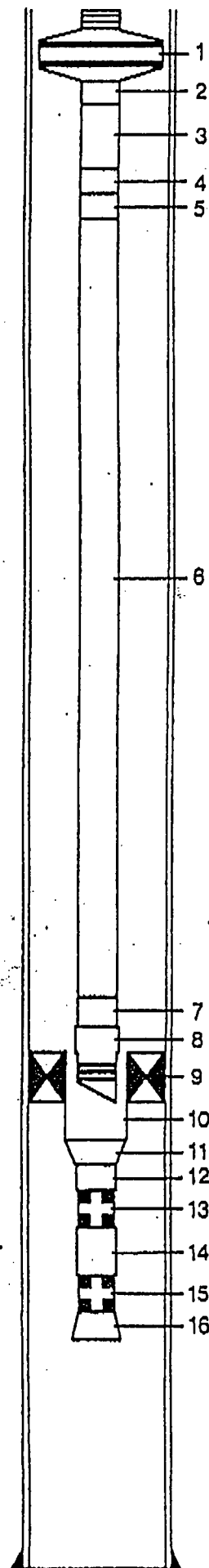
OPR : A. CILENTO

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.		1589	1889	22945	DATE : 4-7-92		1041	
ELEMENT RANGE		5075	5150	169°-420°	PRESSURE LUBRICATOR :	1538	7178	0
RECORDING SECTION SERIAL NO.		K1313	K1314	705545	RUN IN HOLE :	1708	7178	0
DATE OF CALIBRATION: @ 290°F		18-2-92	18-2-92		ON DEPTH AT : 7400 FT/M	1726	7150	0
CLOCK SERIAL NO.		1	3	1389	DATE : 9-7-92			
CLOCK RANGE		120 HRS	120 HRS	120 HRS	PULL OUT OF HOLE :	1000	9150	0
LEAD SCREW TYPE		15T25	15T25	15T25	AT SURFACE :	1023	9150	0
					DEPRESSURE LUBRICATOR :	1223	9150	0
ENGAGE STYLUS DATE 4-7-92	TIME 15:33	15:33	15:33	15:33	MAXIMUM BHT AT FT/M = 245 °F		1327	
DISENGAGE STYLUS DATE 9-7-92	TIME 12:33	12:33	12:33	12:33	N.B. ALL DEPTHS ARE MEASURED FROM K.B.			

[illegible]

DOWNHOLE INSTALLATION

THURAKINNA 3



P.B.T.D. 7840'

ITEM NO.	DESCRIPTION	LENGTH (ft)	DEPTH K.B. (ft)	MIN. I.D. (in)
	K.B. to top of tubinghead spool	16.26	0.00	
1	FBB-EN hanger 2 7/8" AB-IJ3SS x 2 7/8" CS Hydril	0.75		
2	2 7/8" AB-IJ3SS pin x pin L80	0.30		
3	1 joint 2 7/8" 6.5# L80 AB-IJ3SS	29.03		
4	Pup joints 2 7/8" 6.5# L80 AB-IJ3SS 12' & 6'	17.62		
5	X-over 2 7/8" AB-IJ box x 2 7/8" NK-3SB pin	1.72		
6	231 joints 2 7/8" 6.5# L80 NK-3SB tubing	7234.23	strap	
7	X-over 2 7/8" NK-3SB x 2 7/8" AB-IJ3SS L80	1.73		
8	Baker model E-22 anchor seal assembly	3.29	no stick-up	2.408
	size 80-32, 2 7/8" AB-IJ box			
	Permanent Downhole Equipment			
9	7" Baker DB packer size 84-32 4 1/2" AB-IJ	4.07	7300.00	
10	Millout extension 4 1/2" AB-IJ pin x pin	5.42		
11	Swage 4 1/2" AB-IJ x 2 7/8" AB-IJ J55	1.78		
12	Pup joint 2 7/8" 6.5# J55 AB-IJ3SS	9.73		
13	Otis 2 7/8" AB-IJ 711X23103 nipple	0.95	7317.93	2.313
14	2 pup joints 10' x 2 7/8" 6.5# J55 AB-IJ3SS	19.46		
15	Otis 2 7/8" AB-IJ 711XN nipple	1.07	7338.34	2.205
16	Re-entry 2 7/8" AB-IJ3SS x 3 1/2" blank	1.00		
	End of tailpipe		7340.36	

PERFORATED INTERVALS:

GUN:

CHARGES:

FORMATION	INTERVAL	SIZE	TYPE	S.P.F.	TYPE	WT(g)
PATCHAWARRA						
77-0	7720' - 7738'	2 1/8"	E/jet	6	90°	13.5
76-4	7656' - 7672'	2 1/8"	E/jet	4	0°	13.5
74-7	7526' - 7550'	2 1/8"	E/jet	4	0°	13.5
74-6	7487' - 7504'	2 1/8"	E/jet	4	0°	13.5
74-2	7454' - 7484'	2 1/8"	E/jet	4	0°	13.5
Reperforated 12/7/1991						
74-6	7487' - 7504'	2 1/8"	E/jet	4	0°	13.5
74-2	7454' - 7484'	2 1/8"	E/jet	4	0°	13.5

REMARKS: NOTE: Lost Enerjet strap bullnose downhole - 4" long x 2" diam approx

ANNULUS FLUID: 2% KCl brine 9.1 ppg + Applied 2100

INDICATED STRING WEIGHT: 43,000#

CALCULATED STRING WEIGHT: 41,500#

SLACK-OFF WEIGHT: 7,000# compression

TENSION:

NOT TO SCALE WELLSITE SUPERVISOR I. Fendley

PROPOSED DATE OF INSTALLATION 15/8/1990

RE-COMPLETION DRAFTED E. Coppins DATE 4/9/1990

COMPLETION REVISOR DATE 28/9/1990

SEQUENCE OF EVENTS

CUSTOMER : Santos Ltd

PERFORATIONS: 7454' - 7738' KB

PAGE: 1 OF 1

WELL NAME: Thurgakinna # 3

FORMATION : Patchawarra

DATE: 7th August 1993

TEST TYPE : Static gradient.

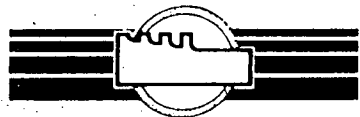
OPR : B. Potter

[illegible]

O/F

00345

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos Ltd

PERFORATIONS: 7454' - 7738' KB

PAGE: 1 OF 1

WELL NAME: Thurakinna # 3

FORMATION : Patchawarra

DATE: 7th August 1993

TEST TYPE : Static Gradient.

OPR : B. Potter

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.

29387

57414

DATE

7.8.93

ELEMENT RANGE

(psi)

2975

3000

PRESSURE LUBRICATOR

08:40

9370

0

RECORDING SECTION SERIAL NO.

59791

12959

RUN IN HOLE

08:55

9400

DATE OF CALIBRATION:

@ 290°F

12.7.93

12.7.93

ON DEPTH AT

7596 FT/M

10:02

9400

CLOCK SERIAL NO.

2431

2509

DATE

7.8.93

CLOCK RANGE

(hr)

3

3

PULL OUT OF HOLE

10:17

9400

LEAD SCREW TYPE

15 TLS

15 TLS

AT SURFACE

10:34

9410

DEPRESSURE LUBRICATOR

10:50

9400

↓

ENGAGE STYLUS

DATE

7.8.93

TIME

08:31

08:31

MAXIMUM BHT AT

7596 FT/M = 272

°F/e

DISENGAGE STYLUS

DATE

7.8.93

TIME

10:56

10:56

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

DATE

TIME

REMARKS

00346

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWARDILLA 5033

PH. (08) 354 0488 TELEX AAB7183

FAX (08) 43 7408

139 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Saturday, 7th August 1993.

STATIC PRESSURE GRADIENT REPORT

CLIENT

LOCATION

FORMATION

SANTOS LTD.

THURAKINNA #3

PATCHAWARRA

PRESSURE ELEMENT DATA

WELL DATA

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29387	2975	12/ 7/93
Bottom	57414	3000	12/ 7/93

PARAMETER	VALUE
DWT In	1363 PSIG
DWT Out	1363 PSIG
Max BHT	272 DEG F

TOP ELEMENT

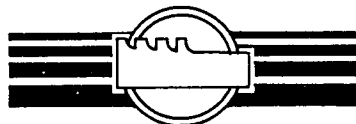
BOTTOM ELEMENT

DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.8840	1366.2	-	0.8820	1362.2	-
1000	0.9200	1422.6	0.056	0.9190	1419.6	0.057
2000	0.9570	1480.6	0.058	0.9550	1475.4	0.056
3000	0.9910	1534.0	0.053	0.9910	1531.2	0.056
4000	1.0270	1590.6	0.057	1.0250	1583.9	0.053
4500	1.0440	1617.3	0.053	1.0430	1611.8	0.056
5000	1.0610	1644.0	0.054	1.0600	1638.1	0.053
5500	1.0780	1670.7	0.054	1.0780	1666.0	0.056
6000	1.0930	1694.3	0.047	1.0950	1692.3	0.053
6500	1.1100	1721.1	0.054	1.1120	1718.7	0.053
7000	1.1240	1743.1	0.044	1.1280	1743.5	0.050
7596	1.1430	1773.0	0.050	1.1480	1774.4	0.052
LUB.	0.8850	1367.8	-	0.8850	1366.9	-

GENERAL REMARKS

EXPERTEST PTY. LTD.

STATIC PRESSURE GRADIENT SURVEY



Location: THURAKINNA #3

Tested: 7th August 1993.

Formation: PATCHAWARRA

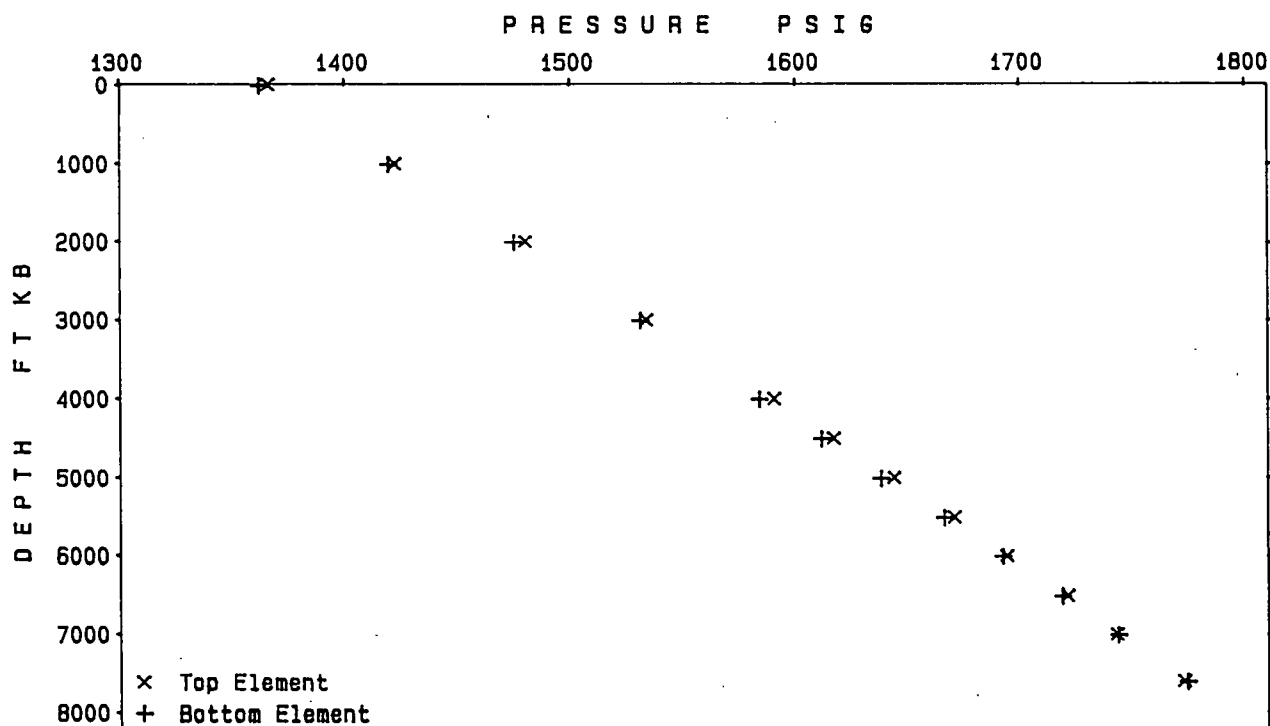
Client: SANTOS LTD.

PRESSURE ELEMENT DATA

Position	Serial No	Range	Calibrated
Top	29387	2975	12/ 7/93
Bottom	57414	3000	12/ 7/93

WELL DATA

DWT In	1363 PSIG
DWT Out	1363 PSIG
Max BHT	272 DEG F



TOP ELEMENT

BOTTOM ELEMENT

Depth FT KB	Deflection Inches	Pressure PSIG	Gradient PSI/FT	Deflection Inches	Pressure PSIG	Gradient PSI/FT
LUB.	0.8840	1366.2	-	0.8820	1362.2	-
1000	0.9200	1422.6	0.056	0.9190	1419.6	0.057
2000	0.9570	1480.6	0.058	0.9550	1475.4	0.056
3000	0.9910	1534.0	0.053	0.9910	1531.2	0.056
4000	1.0270	1590.6	0.056	1.0250	1583.9	0.053
4500	1.0440	1617.3	0.053	1.0430	1611.8	0.056
5000	1.0610	1644.0	0.054	1.0600	1638.1	0.053
5500	1.0780	1670.7	0.054	1.0780	1666.0	0.056
6000	1.0930	1694.3	0.047	1.0950	1692.3	0.053
6500	1.1100	1721.1	0.054	1.1120	1718.7	0.053
7000	1.1240	1743.1	0.044	1.1280	1743.5	0.050
7596	1.1430	1773.0	0.050	1.1480	1774.4	0.052
LUB.	0.8850	1367.8	-	0.8850	1366.9	-

GENERAL REMARKS

SANTOS LIMITED

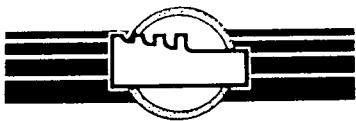
BRIEF PALYNOLOGICAL REPORT

STUDY: THURAKINNA NO. 3

REPORT NO. 1993/40

SAMPLE	DEPTH (LOGGERS)	AGE	STRATIGRAPHY		REMARKS
			BIOSTRATIGRAPHICAL UNIT	INFERRED STRATIGRAPHICAL LIMIT	
FHC	7462'	EARLY PERMIAN	PP3.2	UPPER PATCHAWARRA (BROWN UNIT)	Bisaccate pollen abundant, <u>M. tentula</u> and cavate/zonate spores common. <u>P. sinuosus</u> and <u>P. cicatricosus</u> present.

EXPERTEST PTY. LTD.



SEQUENCE OF EVENTS

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB.

PAGE: 1 OF 2

WELL NAME: Thura Kinna # 3

FORMATION : Patchawarra

DATE: 24th march 1994

TEST TYPE : B. H. P. S.

OPR : B. Potter

DATE/TIME	DESCRIPTION OF EVENTS
24 th march 1994	
0920	Arrive Location, shut in well.
0930	Rig up wireline unit.
1000	R.I.H with 1.75" Blind Box to P.B.T.D.
1020	Tag P.B.T.D @ 7484' KB, no obstructions. P.O.O.H.
1040	Tool string at surface, rig down wireline unit.
1050	Well B.O.L. 100% choke.
6.4.94	
12:05	Arrive on location S.W.I. fit swab valve.
12:15	Well back on line 100% choke.
7.4.94	
13:30	Rig up wireline unit.
	Prepare 2x 3000psi gauges for B.H.P. Survey.
14:00	Pressure lubricator.
15:00	Depressure lubricator.
16:00	Pressure lubricator R.I.H.
16:20	Arrive at hang depth @ 7424' KB.
	Flow well on 100% choke overnight.
18:45	Satellite compressor failure
8.4.94	
12:30	Well not stable, Advise Moomba.
13:25	P.O.O.H with gauges. Test aborted, prepare to re-load gauges
13:45	At surface with gauges, depressure lub and Recover charts.

000350

SEQUENCE OF EVENTS

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB.

PAGE: 2 OF 2

WELL NAME: Thura Kinna # 3

FORMATION : Patchawarra

DATE: 8th April 1994

TEST TYPE : B. H. P. S.

OPR : B. Potter

DATE/TIME	DESCRIPTION OF EVENTS
8 th April 1994	
1350	Prepare gauges for B.H.P.S.
1405	Pressure Lub.
1500	Depressure Lub.
1600	Pressure Lub & R.I.H with gauges.
1620	Hang depth @ 7424' KB, continue to flow well 100% choke.
9 th April 1994	
0900	Shut in well, commence 96hr Build up period.
13 th April 1994	
0900	96hr Build up period completed, P.O.O.H with gauges.
0920	At surface with gauges, Depressure Lub.
1020	Pressure Lub.
1120	Depressure Lub & recover charts.
1130	Both charts good, Prepare gauges for S.G.S.
1158	Perform S.G.S as per program.
1331	S.G.S. completed, Both charts good.
1345	R.D.M.O.
1500	Handover well to production operator Wayne Burgess.

000351

CUSTOMER : Santos (T.O.)

PERFORATIONS: 7484'-7720' KB

PAGE: 1 OF 4

WELL NAME: Thuralima #3

FORMATION : Patchawarra

DATE: 7.4.94

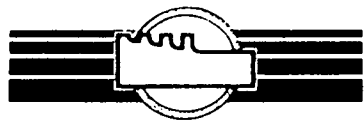
TEST TYPE : B.H.P.S

OPR : S. TAYLOR

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 m³10³/D	OIL BPD m³/D	WATER BPD m³/D	GAS MMSCF m³10³	OIL BBLS m³	WATER BBLS m³			
7.4.94																
	Note :- Drift run conducted on 24.3.94															
13:15	Rig up wire line unit															
	Prepare 2x 3000psi gauges for B.H.P.S															
14:00		4337	462	54	100	Pressure lubricator										
15:00		4489	462	55	100	Depressure lubricator										
16:00		4550	462	55	100	Pressure lubricator R.I.H.										
16:20		4592	462	55	100	Arrive at hang depth @ 7424' KB										
						Flow well overnight on 100% choke										
18:45						Satellite compressor shut down.										
8.4.94																
06:00		4951	262	50	100											
08:00		4875	262	52	↓											
10:00		5123	324	54												
12:30		4364	379	57			Well not stable, Advise Moomba.									
13:25		4309	420	57			P.O.O.H with gauges. Test aborted, prepare to re-load gauges.									
13:45		4268	420	57	↓	@ surface with gauges, depressure Lub and Recover charts.										
		Prepare gauges for B.H.P.S.														
14:05		4261	434	57	↓	Pressure Lub.										
15:00		4275	469	57		Depressure Lub										
16:00		4282	496	57		Press Lub & R.I.H with gauges.										
16:20		4289	517	57			Hang depth @ 7424 KB, continue to flow well.									

000352

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB

PAGE: 2 OF 4

WELL NAME: Thurakinna # 3

FORMATION : Patchawarra

DATE: 9th April 1994

TEST TYPE : B. H. P. S.

OPR : B. Potter

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 th April 1994															
0600		4392	627	59	100										
0900	0	4392	627	61	100	Shut in well, commence 96h - Build up period.									
0915		6936	421												
0930		7040	290												
0945		7102	214												
1000	1	7129	165												
1015		7136	152												
1030		7150	117												
1045		7164	103												
1100	2	7178	90												
1115		7191	76												
1130		7198	69												
1145		7205	69												
1200	3	7212	69												
1215		7212	41												
1230		7212	41												
1245		7219	28												
1300	4	7219	28												
1400	5	7240	0												
1800	9	7322	0												

000853

EXPERTEST PTY. LTD.



TEST RESULTS

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB.

PAGE: 3 OF 4

WELL NAME: Thurakinna # 3

FORMATION : Patchawarra

DATE: 10th April 1994

TEST TYPE : B. H. P.S.

OPR : B. Potter.

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 /D	OIL BPD m ³ /D	WATER BPD m ³ /D	GAS MMSCF m ³ /D	OIL BBLs m ³	WATER BBLs m ³		
10 th April 1994															
0600	21	7385	0												
1000	25	7405													
1400	29	7419													
1800	33	7426													
11 th April 1994															
0600	45	7460													
1000	49	7460													
1400	53	7467													
1800	57	7474													
12 th April 1994															
0600	69	7502													
0800	71	7502													
2000	83	7516													
13 th April 1994															
0600	93	7522													
0900	96	7529													
0920		7529													
1020		7529													
1120		7529													
1130		Both charts good, prepare gauges for S.G.S.													

96hr Build up period completed, P./O.H with gauges.

At surface with gauges, Depressure Lub.

Pressure Lub.

Depressure Lub and Recover charts.

000354

CUSTOMER : Santos Ltd	PERFORATIONS: 7484' - 7720' KB.	PAGE: 4 OF 4
WELL NAME: Thurakina #3	FORMATION : Patchawarra	DATE: 13 th April 1994
TEST TYPE : B.H.P.S.		OPR : B. Potter

[illegible]

6
6
6
6
6
6

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB.

PAGE: 1 OF 2

WELL NAME: Thurakinna # 3

FORMATION : Patchawarra

DATE: 8th April 1994

TEST TYPE : B. H. P. S.

OPR : B. Potter

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

29386

29388

M.B.H.T

DATE

8.4.94

ELEMENT RANGE

(PSI)

2975

3000

PRESSURE LUBRICATOR

1405

4261

434

RECORDING SECTION SERIAL NO.

61373

61001

RUN IN HOLE

1600

4282

496

DATE OF CALIBRATION:

@ 290°F

7.2.94

7.2.94

ON DEPTH AT

7424 FT/M

1620

4289

517

CLOCK SERIAL NO.

24710

24711

DATE

13.4.94

CLOCK RANGE

(hr)

120

120

PULL OUT OF HOLE

0900

7529

0

LEAD SCREW TYPE

15 TLS

15 TLS

AT SURFACE

0920

7529

0

DEPRESSURE LUBRICATOR

1120

7529

0

ENGAGE STYLUS

DATE

8.4.94

TIME

14:00

14:00

MAXIMUM BHT AT 7424 FT/M = 278 °F/°C

DISENGAGE STYLUS

DATE

13.4.94

TIME

11:29

11:29

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

DATE

TIME

REMARKS

9.4.94 09:00 Shut in well, Commence 96hr Build up Period.

000356

SUB-SURFACE PRESSURE SURVEY

CO. SANTOS		RUN 01 FIELD THURAKINNA	WELL 3
EFF DEPTH		WELL STAT	TOOL HUNG 7424'KB
CASING	-	CASING PRESS	ON BOTTOM 1620 8/4
LINER	-	TUBING PRESS	OFF BOTTOM 0900 13/4
DATE	090494	ELEMENT RANGE 0 - 3038	ZERO POINT
ELEVATION		ZONE	SHUT-IN 0900 9/4
MAX TEMP	278	PICK-UP	ON-PROD
PERF	-	CAL SER NO. 29388	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BHP

SURVEY DATA

CO. SANTOS				RUN 01 FIELD THURAKINNA				WELL 3			
TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
START B/W 9:00	959.9	959.9	0	3:10	1301.0	1301.0	18.2				
9:01	979.9	979.9	.0	5:37	1304.2	1304.2	20.6				
9:01	1017.5	1017.5	.0	8:12	1306.4	1306.4	23.2				
9:02	1060.2	1060.2	.0	10:55	1309.3	1309.3	25.9				
9:03	1105.1	1105.1	.1	13:50	1311.7	1311.7	28.8				
9:04	1150.3	1150.3	.1	16:56	1313.7	1313.7	31.9				
9:08	1190.1	1190.1	.1	20:11	1316.4	1316.4	35.2				
9:15	1207.7	1207.7	.3	23:38	1318.2	1318.2	38.6				
9:29	1224.6	1224.6	.5	3:14	1320.7	1320.7	42.2				
9:39	1233.8	1233.8	.6	6:56	1323.1	1323.1	45.9				
9:48	1244.0	1244.0	.8	10:49	1324.7	1324.7	49.8				
10:00	1248.7	1248.7	1.0	14:57	1326.9	1326.9	53.9				
10:14	1248.6	1248.6	1.2	19:08	1328.8	1328.8	58.1				
10:29	1252.6	1252.6	1.5	23:37	1331.2	1331.2	62.6				
10:51	1255.8	1255.8	1.9	4:15	1333.2	1333.2	67.2				
11:22	1260.4	1260.4	2.4	8:53	1335.6	1335.6	71.9				
12:03	1265.3	1265.3	3.1	13:32	1337.9	1337.9	76.5				
12:58	1269.4	1269.4	4.0	18:04	1339.3	1339.3	81.1				
13:52	1273.6	1273.6	4.9	22:43	1341.2	1341.2	85.7				
14:56	1278.9	1278.9	5.9	3:21	1342.3	1342.3	90.4				
16:12	1282.4	1282.4	7.2	9:00	1345.5	1345.5	96.0	EJΔ B/W			
17:33	1285.5	1285.5	8.6	- 5:57	956.4	956.4	-14.9				
19:12	1289.1	1289.1	10.2	- 2:42	958.6	958.6	-11.7				
21:00	1292.4	1292.4	12.0	0:38	960.3	960.3	-8.4				
22:51	1295.5	1295.5	13.8	4:01	960.6	960.6	-5.0				
0:55	1297.8	1297.8	15.9	7:24	961.0	961.0	-1.6				

LUBRICATOR; DWT: IN: 618 psig / OUT: 1092 psig
 AMERADA: IN: 605 psig / OUT: 1093 psig

ELEMENT #29386 was also run.

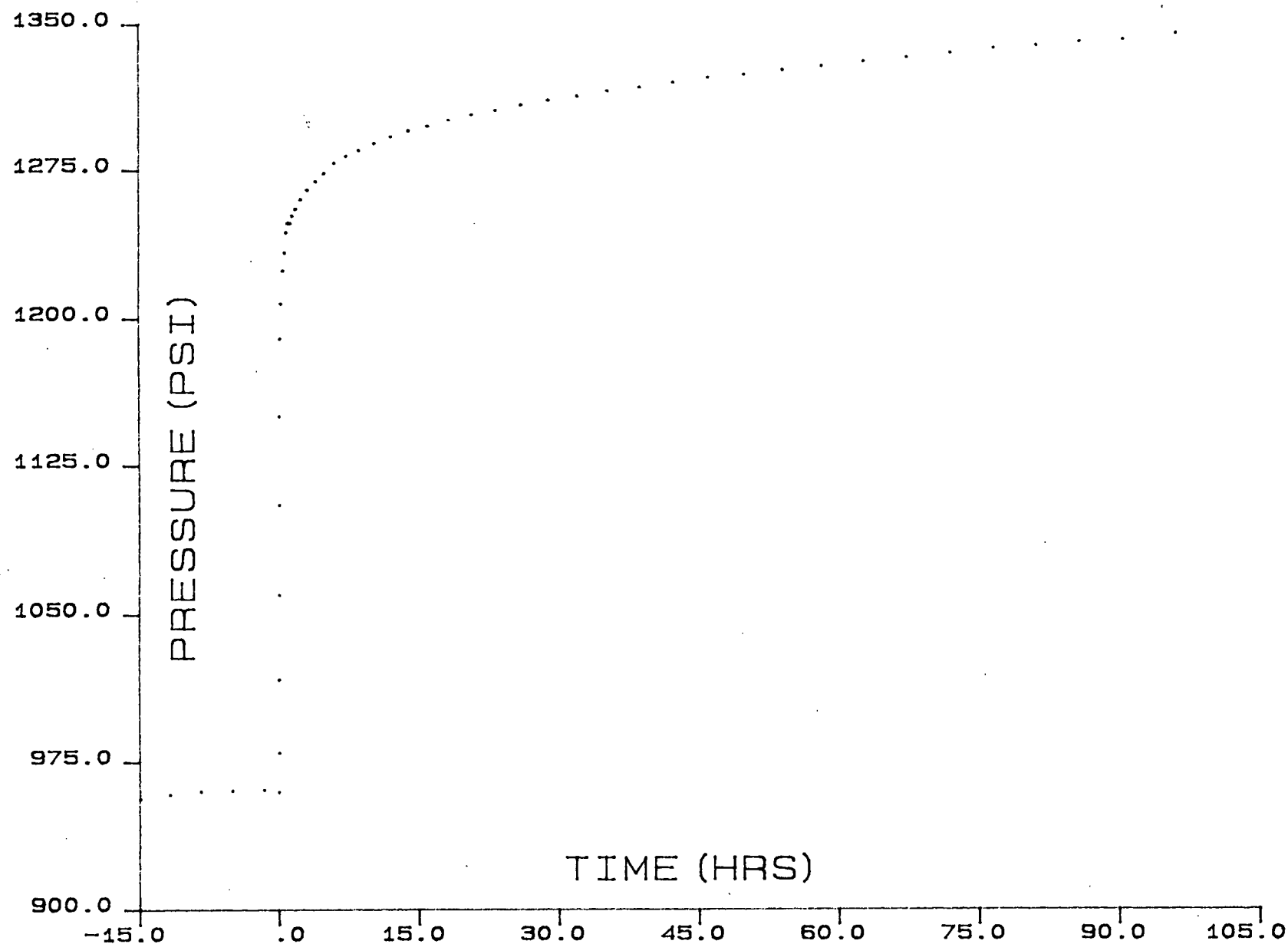
THURAKINNA #3

BHP

APRIL 1994

ELEMENT #29388 @

7424'KB



000358

EXPERTEST PTY. LTD.

BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos Ltd

PERFORATIONS: 7484' - 7720' KB.

PAGE: 2 OF 2

WELL NAME: Thurakinna #3

FORMATION : Patchawarra

DATE: 13th Apr. 1994

TEST TYPE : Static gradient.

OPR : B. Potter.

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

TIME
(HOURS)TUBING
PRESSURE
(PSI/KPa)ANNULUS
PRESSURE
(PSI/KPa)

ELEMENT SERIAL NO.

29386

29388

M.B.H.T

DATE

13.4.94

ELEMENT RANGE

(PSI)

2975

3000

PRESSURE LUBRICATOR

1143

7522

0

RECORDING SECTION SERIAL NO.

61373

61001

RUN IN HOLE

1158

7522

DATE OF CALIBRATION:

@ 290°F

7.2.94

7.2.94

ON DEPTH AT

7596 FT/M

1248

7522

CLOCK SERIAL NO.

A-16080

A-12046

DATE

13.4.94

CLOCK RANGE

(hr)

3

3

PULL OUT OF HOLE

1258

7522

LEAD SCREW TYPE

15 TLS

15 TLS.

AT SURFACE

1317

7522

DEPRESSURE LUBRICATOR

1331

7522

ENGAGE STYLUS DATE 13.4.94 TIME

11:38

11:38

MAXIMUM BHT AT 7596 FT/M = 272 °F/°C

DISENGAGE STYLUS DATE 13.4.94 TIME

13:45

13:45

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

DATE

TIME

REMARKS

060359

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0480 TELFX AAS7183

FAX (08) 43 7408

138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Wednesday, 13th April 1994.

STATIC PRESSURE GRADIENT REPORT**CLIENT**

SANTOS LTD.

LOCATION

THURAKINNA #3

FORMATION

PATCHAWARRA

P R E S S U R E E L E M E N T D A T A

POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29386	2975	7/ 2/94
Bottom	29388	3000	7/ 2/94

W E L L D A T A

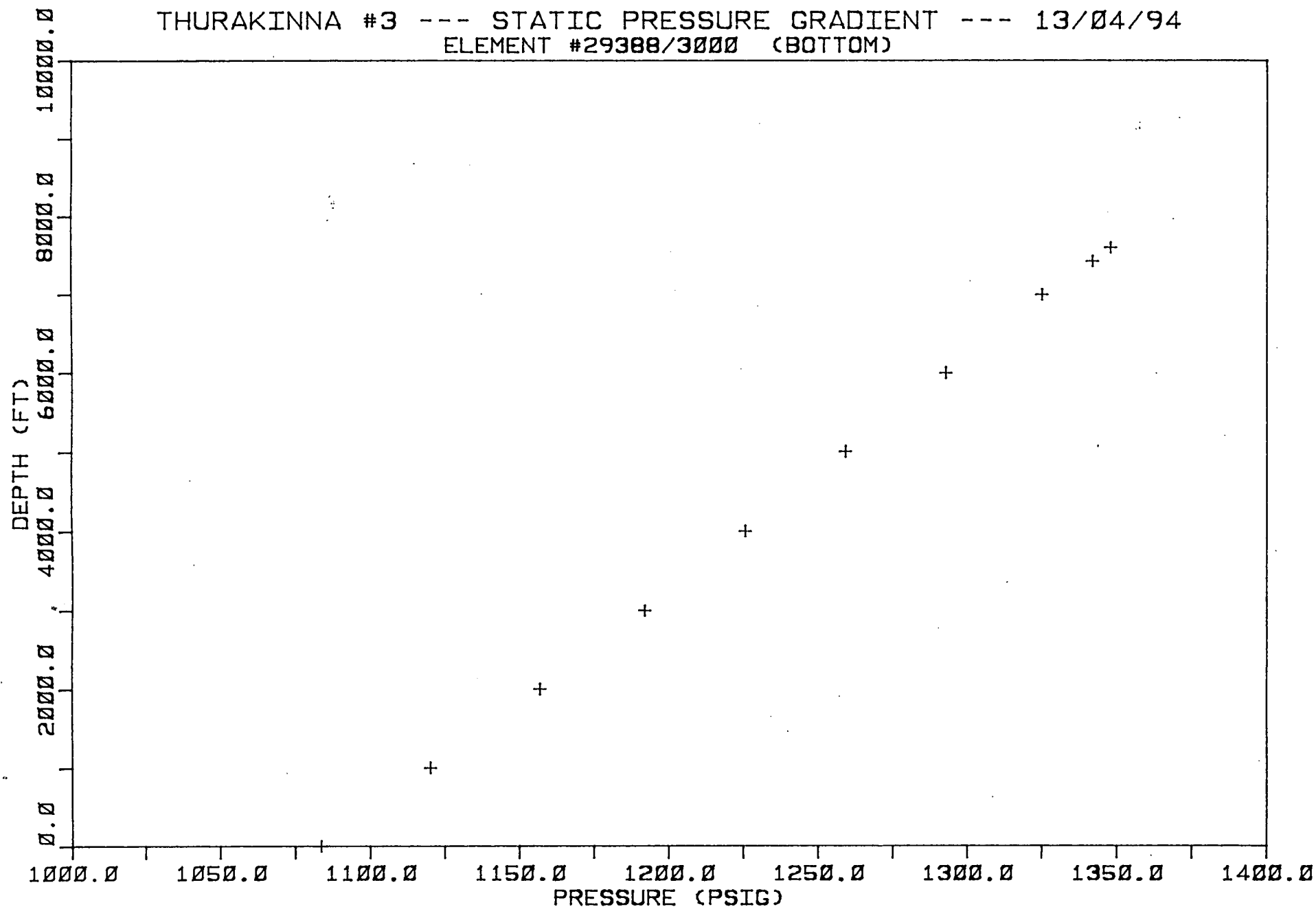
PARAMETER	VALUE
DWT In	1092 PSIG
DWT Out	1091 PSIG
Max BHT	272 DEG F

T O P E L E M E N T**B O T T O M E L E M E N T**

DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.7320	1089.0	-	0.7190	1083.3	-
1000	0.7560	1125.3	0.036	0.7430	1119.9	0.037
2000	0.7790	1160.1	0.035	0.7670	1156.6	0.037
3000	0.8010	1193.4	0.033	0.7900	1191.7	0.035
4000	0.8230	1226.7	0.033	0.8120	1225.4	0.034
5000	0.8440	1258.5	0.032	0.8340	1259.0	0.034
6000	0.8660	1291.8	0.033	0.8560	1292.6	0.034
7000	0.8890	1326.7	0.035	0.8770	1324.7	0.032
7424	0.8980	1340.3	0.032	0.8880	1341.5	0.040
7596	0.9010	1344.9	0.027	0.8920	1347.6	0.036
LUB.	0.7270	1081.5	-	0.7170	1080.2	-

G E N E R A L R E M A R K S

THURAKINNA #3 --- STATIC PRESSURE GRADIENT --- 13/04/94
ELEMENT #29388/3000 (BOTTOM)



000361

1/15/88

9:30:48

OUTPUT FROM PROGRAM LISCNVT

SCIENTIFIC SOFTWARE-INTERCOMP

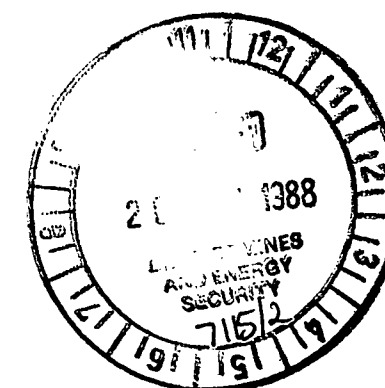
SCIENTIFIC SOFTWARE - INTERCOMP

LIS CONVERSION PROGRAM

* LISCNVT *

VERSION - 1.2 PL - 87

Thunakima #3



USER INPUT DATA

1	2	3	4	5	6	7	8
123456789	123456789	123456789	123456789	123456789	123456789	123456789	123456789
WELL	99999		4	100		00010035	CARD NO. 1

REEL HEADER RECORD

REEL NAME EDIT DATE 88/01/ 7
 SERVICE NAME EDIT
 REEL CONTINUATION NUMBER 01
 PREVIOUS REEL NAME
 COMMENTS EDIT

 START PROCESSING WELL SEQUENCE NUMBER 1

TAPE HEADER RECORD

TAPE NAME 469041 DATE 88/01/ 7
 SERVICE NAME EDIT
 TAPE CONTINUATION NUMBER 01
 PREVIOUS TAPE NAME
 COMMENTS EDIT

FILE HEADER RECORD

FILE NAME EDIT .001
 PREVIOUS FILE NAME

DATA FORMAT SPECIFICATION

LENGTH IS 620 BYTES
 ENTRY BLOCKS:

ENTRY VALUE	ENTRY TYPE	COMMENT NUMBER	SHORT DESCRIPTION
0	1	64.11.1	DATA RECORD TYPE
0	2	64.11.2	DATUM SPECIFICATION BLOCK TYPE
0	3	64.11.3	DATA FRAME SIZE
1	4	64.11.4	UP/DOWN FLAG
*****	8	64.11.8	FRAME SPACING
FT	9	64.11.7	UNITS OF FRAME SPACING
18	11	64.11.11	MAXIMUM FRAMES/RECORD
0	13	64.11.13	OUTPUT DEPTH FLAG
FT	14	64.11.7	UNITS OF DEPTH IN DATA RECORDS
68	15	64.11.15	REPR. CODE FOR OUTPUT DEPTH
1	16	64.11.16	DATUM BLOCK SUB-TYPE
1	0	64.11.0	TERMINATOR (NO MORE ENTRIES)

DATUM SPECIFICATION BLOCKS

MNEMONIC	SERVICE ID	SERVICE ORDER NUMBER	UNITS	API LOG TYPE	API CURVE TYPE	API CURVE CLASS	API MOD-IFIER	FILE NUMB	SIZE	PROCESS LEVEL	SPL	REP. CODE	FILE NAME
DEPT			FT	0	0	0	0	0	4	0	1	68	EDIT .001
CALI	RSN		IN	0	230	1	0	0	4	0	1	68	EDIT .001
TENS	RSN		LB	11	635	21	0	0	4	0	1	68	EDIT .001
GR	RSN		GAPI	11	310	1	0	0	4	0	1	68	EDIT .001
SP	RSN		MV	11	10	1	0	0	4	0	1	68	EDIT .001
LLD	RSN		DHMM	11	220	10	0	0	4	0	1	68	EDIT .001
LLS	RSN		DHMM	11	220	9	0	0	4	0	1	68	EDIT .001
MSFL	RSN		DHMM	11	270	4	0	0	4	0	1	68	EDIT .001
DT	RSN		US/F	0	520	80	0	0	4	0	1	68	EDIT .001
DTL	RSN		US/F	0	520	80	0	0	4	0	1	68	EDIT .001
TT1	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT2	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT3	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT4	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001

DATA FORMAT SPECIFICATION

LENGTH IS 620 BYTES
ENTRY BLOCKS:

ENTRY VALUE	ENTRY TYPE	COMMENT NUMBER	SHORT DESCRIPTION
0	1	64.11.1	DATA RECORD TYPE
0	2	64.11.2	DATUM SPECIFICATION BLOCK TYPE
0	3	64.11.3	DATA FRAME SIZE
1	4	64.11.4	UP/DOWN FLAG
*****	8	64.11.8	FRAME SPACING
FT	9	64.11.7	UNITS OF FRAME SPACING
18	11	64.11.11	MAXIMUM FRAMES/RECORD
0	13	64.11.13	OUTPUT DEPTH FLAG
FT	14	64.11.7	UNITS OF DEPTH IN DATA RECORDS
68	15	64.11.15	REPR. CODE FOR OUTPUT DEPTH
1	16	64.11.16	DATUM BLOCK SUB-TYPE
1	0	64.11.0	TERMINATOR (NO MORE ENTRIES)

DATUM SPECIFICATION BLOCKS

MNEMONIC	SERVICE ID	SERVICE ORDER NUMBER	UNITS	API LOG TYPE	API CURVE TYPE	API CURVE CLASS	API MOD-IFIER	FILE NUMB	SIZE	PROCESS LEVEL	SPL	REP. CODE	FILE NAME
DEPT			FT	0	0	0	0	0	4	0	1	68	EDIT .001
CALI	RSN		IN	0	280	1	0	0	4	0	1	68	EDIT .001
TENS	RSN		LB	11	635	21	0	0	4	0	1	68	EDIT .001
GR	RSN		GAPI	11	310	1	0	0	4	0	1	68	EDIT .001
SP	RSN		MV	11	10	1	0	0	4	0	1	68	EDIT .001
LLD	RSN		OHMM	11	220	10	0	0	4	0	1	68	EDIT .001
LLS	RSN		OHMM	11	220	9	0	0	4	0	1	68	EDIT .001
MSFL	RSN		OHMM	11	270	4	0	0	4	0	1	68	EDIT .001
DT	RSN		US/F	0	520	80	0	0	4	0	1	68	EDIT .001
DTL	RSN		US/F	0	520	80	0	0	4	0	1	68	EDIT .001
TT1	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT2	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT3	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001
TT4	RSN		US	0	522	83	0	0	4	0	1	68	EDIT .001

PROCESSING DATA FILE NUMBER 1

CALI HAS BEEN SELECTED FOR PROCESSING
TENS HAS BEEN SELECTED FOR PROCESSING
GR HAS BEEN SELECTED FOR PROCESSING
SP HAS BEEN SELECTED FOR PROCESSING
LLD HAS BEEN SELECTED FOR PROCESSING
LLS HAS BEEN SELECTED FOR PROCESSING
MSFL HAS BEEN SELECTED FOR PROCESSING
DT HAS BEEN SELECTED FOR PROCESSING
DTL HAS BEEN SELECTED FOR PROCESSING
TT1 HAS BEEN SELECTED FOR PROCESSING
TT2 HAS BEEN SELECTED FOR PROCESSING
TT3 HAS BEEN SELECTED FOR PROCESSING
TT4 HAS BEEN SELECTED FOR PROCESSING

CURVE NAME MNEMONIC	TOP DEPTH	BOTTOM DEPTH	SAMPLE INTERVAL	CURVE VALUE AT TOP DEPTH	CURVE VALUE AT BOTTOM DEPTH
CALI	0.5000	7894.5000	0.5000	2.365	8.375
TENS	0.5000	7894.5000	0.5000	1160.000	2470.000
GR	0.5000	7894.5000	0.5000	6.914	148.250
SP	995.0000	7894.5000	0.5000	26.766	21.688
LLD	995.0000	7894.5000	0.5000	959.333	1137.985
LLS	995.0000	7894.5000	0.5000	1.073	10070.367
MSFL	4699.0000	7893.5000	0.5000	2.867	11.898
DT	995.0000	7894.5000	0.5000	129.500	59.875
DTL	995.0000	7894.5000	0.5000	177.750	59.875
TT1	995.0000	7894.5000	0.5000	1902.000	735.500
TT2	995.0000	7894.5000	0.5000	1431.000	614.000
TT3	995.0000	7894.5000	0.5000	2250.000	853.500
TT4	995.0000	7894.5000	0.5000	1903.000	732.000

FILE TRAILER RECORD

NEXT FILE NAME

FILE HEADER RECORD

FILE NAME EDIT .002
PREVIOUS FILE NAME

DATA FORMAT SPECIFICATION

LENGTH IS 720 BYTES
ENTRY BLOCKS:

ENTRY VALUE	ENTRY TYPE	COMMENT NUMBER	SHORT DESCRIPTION
0	1	64.11.1	DATA RECORD TYPE
0	2	64.11.2	DATUM SPECIFICATION BLOCK TYPE
0	3	64.11.3	DATA FRAME SIZE
1	4	64.11.4	UP/DOWN FLAG
*****	8	64.11.8	FRAME SPACING
FT	9	64.11.7	UNITS OF FRAME SPACING
14	11	64.11.11	MAXIMUM FRAMES/RECORD
0	13	64.11.13	OUTPUT DEPTH FLAG
FT	14	64.11.7	UNITS OF DEPTH IN DATA RECORDS
68	15	64.11.15	REPR. CODE FOR OUTPUT DEPTH
1	16	64.11.16	DATUM BLOCK SUB-TYPE
1	0	64.11.0	TERMINATOR (NO MORE ENTRIES)

DATUM SPECIFICATION BLOCKS

MNEMONIC	SERVICE ID	SERVICE ORDER NUMBER	UNITS	API LOG TYPE	API CURVE TYPE	API CURVE CLASS	API MOD-IFIER	FILE NUMB	SIZE	PROCESS LEVEL	SPL	REP. CODE	FILE NAME
DEPT			FT	0	0	0	0	0	4	0	1	68	EDIT .002
CAL102	NUC		IN	42	280	1	0	0	4	0	1	68	EDIT .002
TENS02	NUC		LB	42	635	21	0	0	4	0	1	68	EDIT .002
GR0002	NUC		GAPI	42	310	1	0	0	4	0	1	68	EDIT .002
RH0B	NUC		G/C3	42	350	2	0	0	4	0	1	68	EDIT .002
DRHO	NUC		G/C3	42	356	1	0	0	4	0	1	68	EDIT .002
RHGX	NUC		G/C3	42	875	1	0	0	4	0	1	68	EDIT .002
NPHI	NUC		PU	42	890	0	0	0	4	0	1	68	EDIT .002
NCNL	NUC		CPS	0	330	31	0	0	4	0	1	68	EDIT .002
FCNL	NUC		CPS	0	330	30	0	0	4	0	1	68	EDIT .002
NRAT	NUC			0	420	1	0	0	4	0	1	68	EDIT .002
PEF	NUC			42	358	1	0	0	4	0	1	68	EDIT .002
LS	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
LITH	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
SS1	NUC		CPS	42	354	2	0	0	4	0	1	68	EDIT .002
SS2	NUC		CPS	42	354	2	0	0	4	0	1	68	EDIT .002
LL	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
LU	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002

DATA FORMAT SPECIFICATION

LENGTH IS 780 BYTES
ENTRY BLOCKS:

ENTRY VALUE	ENTRY TYPE	COMMENT NUMBER	SHORT DESCRIPTION
0	1	64.11.1	DATA RECORD TYPE
0	2	64.11.2	DATUM SPECIFICATION BLOCK TYPE
0	3	64.11.3	DATA FRAME SIZE
1	4	64.11.4	UP/DOWN FLAG
*****	8	64.11.8	FRAME SPACING
FT	9	64.11.7	UNITS OF FRAME SPACING
14	11	64.11.11	MAXIMUM FRAMES/RECORD
0	13	64.11.13	OUTPUT DEPTH FLAG
FT	14	64.11.7	UNITS OF DEPTH IN DATA RECORDS
68	15	64.11.15	REPR. CODE FOR OUTPUT DEPTH
1	16	64.11.16	DATUM BLOCK SUB-TYPE
1	0	64.11.0	TERMINATOR (NO MORE ENTRIES)

DATUM SPECIFICATION BLOCKS

MNEMONIC	SERVICE ID	SERVICE ORDER NUMBER	UNITS	API LOG TYPE	API CURVE TYPE	API CURVE CLASS	API MODIFIER	FILE NUMBER	SIZE	PROCESS LEVEL	SPL	REP. CODE	FILE NAME
DEPT			FT	0	0	0	0	0	4	0	1	68	EDIT .002
CALI02	NUC		IN	42	280	1	0	0	4	0	1	68	EDIT .002
TENS02	NUC		LB	42	635	21	0	0	4	0	1	68	EDIT .002
GR0002	NUC		GAPI	42	310	1	0	0	4	0	1	68	EDIT .002
RH03	NUC		G/C3	42	350	2	0	0	4	0	1	68	EDIT .002
DRHO	NUC		G/C3	42	356	1	0	0	4	0	1	68	EDIT .002
RHGX	NUC		G/C3	42	875	1	0	0	4	0	1	68	EDIT .002
NPHI	NUC		PU	42	890	0	0	0	4	0	1	68	EDIT .002
NCNL	NUC		CPS	0	330	31	0	0	4	0	1	68	EDIT .002
FCNL	NUC		CPS	0	330	30	0	0	4	0	1	68	EDIT .002
NRAT	NUC			0	420	1	0	0	4	0	1	68	EDIT .002
PEF	NUC			42	358	1	0	0	4	0	1	68	EDIT .002
LS	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
LITH	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
SS1	NUC		CPS	42	354	2	0	0	4	0	1	68	EDIT .002
SS2	NUC		CPS	42	354	2	0	0	4	0	1	68	EDIT .002
LL	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002
LU	NUC		CPS	42	354	1	0	0	4	0	1	68	EDIT .002

PROCESSING DATA FILE NUMBER 2

CALI HAS BEEN SELECTED FOR PROCESSING
TENS HAS BEEN SELECTED FOR PROCESSING
GR HAS BEEN SELECTED FOR PROCESSING
RHOB HAS BEEN SELECTED FOR PROCESSING
DRHO HAS BEEN SELECTED FOR PROCESSING
RHGX HAS BEEN SELECTED FOR PROCESSING
NPHI HAS BEEN SELECTED FOR PROCESSING
NCNL HAS BEEN SELECTED FOR PROCESSING
FCNL HAS BEEN SELECTED FOR PROCESSING
NRAT HAS BEEN SELECTED FOR PROCESSING
PEF HAS BEEN SELECTED FOR PROCESSING
LS HAS BEEN SELECTED FOR PROCESSING
LITH HAS BEEN SELECTED FOR PROCESSING
SS1 HAS BEEN SELECTED FOR PROCESSING
SS2 HAS BEEN SELECTED FOR PROCESSING
LL HAS BEEN SELECTED FOR PROCESSING
LU HAS BEEN SELECTED FOR PROCESSING

CURVE NAME MNEMONIC	TOP DEPTH	BOTTOM DEPTH	SAMPLE INTERVAL	CURVE VALUE AT TOP DEPTH	CURVE VALUE AT BOTTOM DEPTH
CALI02	5840.0000	7902.0000	0.5000	9.430	8.156
TENS02	5840.0000	7902.0000	0.5000	2360.000	1810.000
GR0002	5839.5000	7904.5000	0.5000	59.457	171.375
RHOB	5839.5000	7902.0000	0.5000	2.655	2.869
DRHO	5839.5000	7902.0000	0.5000	0.007	0.288
RHGX	5839.5000	7902.0000	0.5000	2.366	3.018
NPHI	5839.5000	7902.0000	0.5000	20.365	23.672
NCNL	5839.5000	7902.0000	0.5000	2718.944	2978.660
FCNL	5839.5000	7902.0000	0.5000	1113.514	1172.492
NRAT	5839.5000	7902.0000	0.5000	2.451	2.569

PEF	5840.0000	7902.5000	0.5000	4.215	3.574
LS	5840.5000	7902.5000	0.5000	182.500	210.125
LITH	5840.0000	7902.5000	0.5000	34.691	39.188
SS1	5840.0000	7902.5000	0.5000	189.078	261.500
SS2	5840.0000	7902.5000	0.5000	251.680	317.250
LL	5840.0000	7902.5000	0.5000	93.938	102.688
LU	5840.0000	7902.5000	0.5000	191.305	213.875

FILE TRAILER RECORD

NEXT FILE NAME

END PROCESSING WELL SEQUENCE NUMBER 1

TAPE TRAILER RECORD

NEXT TAPE NAME

WELL NUMBER 0 0 99999 0 WAS WRITTEN TO THE SSIS OUTPUT FILE.

OUTPUT FROM SSIS DUMP ROUTINE

TAPE IDENTIFICATION RECORD

TAPE IDENTIFICATION MARKER..... LISCNVT
NUMBER OF WELLS..... -1
DATA RECORD SIZE..... 480
TRACE DATA STORAGE MODE..... 2

CROSS REFERENCE LIST OF WELL DATA AS FOLLOWS.....

**** 00 / CALI

	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
0.50 /	2.365	2.365	2.365	2.365	2.365	2.365	2.365	2.365	9.008	9.156

1000.50 /	16.656	9.945	11.570	9.977	10.453	10.695	10.073	10.594	9.445	10.242
2000.50 /	10.031	9.641	11.914	9.695	10.164	10.211	10.633	9.227	9.313	8.914
3000.50 /	9.219	10.430	9.750	10.367	10.844	11.070	11.055	10.875	9.523	10.445
4000.50 /	9.219	10.094	10.875	10.578	10.070	10.000	8.859	10.125	9.375	8.906
5000.50 /	9.155	9.070	8.672	8.555	8.648	8.648	8.648	8.578	8.461	8.555
6000.50 /	8.633	8.500	8.969	9.227	8.953	9.078	8.484	9.070	9.133	9.250
7000.50 /	9.188	8.977	8.828	8.797	8.742	8.406	8.570	8.547	8.719	

**** 00 / TENS

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
0.50 /	1160.000	1235.000	1060.000	1095.000	1110.000	1135.000	1170.000	1195.000	1260.000	1330.000
1000.50 /	1345.000	1295.000	1365.000	1380.000	1440.000	1480.000	1565.000	1545.000	1645.000	1735.000
2000.50 /	1640.000	1695.000	1765.000	1795.000	1795.000	1800.000	1920.000	1845.000	1925.000	2000.000
3000.50 /	1985.000	2054.000	2035.000	2074.000	2150.000	2130.000	2174.000	2230.000	2274.000	2300.000
4000.50 /	2344.000	2394.000	2374.000	2404.000	2490.000	2550.000	2624.000	2650.000	2680.000	2740.000
5000.50 /	2754.000	2760.000	2764.000	2724.000	2774.000	2860.000	2834.000	2904.000	2944.000	2984.000
6000.50 /	2980.000	3044.000	3070.000	3114.000	3214.000	3224.000	3260.000	3260.000	3440.000	3360.000
7000.50 /	3400.000	3420.000	3414.000	3530.000	3544.000	3584.000	3764.000	3680.000	3694.000	

**** 00 / GR

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
0.50 /	6.914	22.672	42.125	32.750	43.313	23.313	23.625	29.797	18.531	19.938
1000.50 /	36.375	43.969	56.375	51.875	56.469	42.625	50.906	42.563	45.500	58.625
2000.50 /	56.625	55.938	57.969	59.813	55.406	58.281	55.594	46.750	68.938	60.406
3000.50 /	61.875	64.063	62.000	67.063	70.688	69.750	77.250	67.750	70.438	65.375
4000.50 /	63.875	69.875	74.875	73.875	70.125	67.375	61.281	70.688	65.125	65.563
5000.50 /	115.250	129.250	31.734	30.219	30.297	38.594	20.625	23.563	40.188	23.094
6000.50 /	39.281	19.906	172.375	115.687	135.250	121.937	39.750	183.750	142.000	147.250
7000.50 /	145.500	145.500	139.375	147.250	142.250	92.875	144.500	177.875	164.000	

**** 00 / SP

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	26.766	9.602	9.477	12.305	9.727	12.867	9.906	9.742	19.578	12.000
1995.00 /	16.578	11.805	15.320	15.078	11.992	14.570	12.734	12.867	13.664	15.141
2995.00 /	17.219	13.469	12.156	12.977	13.648	14.055	13.555	13.477	13.977	12.586
3995.00 /	17.859	11.992	14.000	15.875	11.664	14.641	10.328	9.680	9.664	9.727
4995.00 /	10.125	15.141	73.375	70.875	72.688	76.688	57.688	78.938	62.813	69.875

5995.00 /	67.688	78.500	44.500	35.000	31.125	53.219	75.625	23.969	25.594	28.656
6995.00 /	31.156	17.094	27.531	15.266	17.906	17.438	17.828	3.145	21.703	

**** 00 / LLD

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	959.333	2.734	1.752	1.816	1.371	1.259	1.172	1.209	1.202	1.451
1995.00 /	1.232	1.294	1.462	2.375	1.473	1.342	1.174	1.460	1.373	1.586
2995.00 /	1.529	1.644	1.303	2.041	1.439	1.600	1.436	1.378	1.483	1.420
3995.00 /	3.140	1.826	1.270	2.211	1.675	1.887	2.285	1.807	4.509	2.884
4995.00 /	4.240	9.967	7.766	4.217	7.775	6.643	4.052	7.403	10.665	12.592
5995.00 /	11.844	10.201	11.787	21.091	35.746	283.498	18.923	57.373	23.941	25.028
6995.00 /	37.479	1309.392	33.446	42.265	56.002	63.303	78.698	48.396	21.613	

**** 00 / LLS

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	1.073	1.285	0.990	1.162	0.802	0.837	0.986	0.748	0.609	1.012
1995.00 /	0.847	0.787	0.927	1.454	1.119	1.049	0.838	1.141	0.945	1.021
2995.00 /	1.136	1.133	1.372	1.784	1.234	1.129	1.087	1.098	1.555	0.991
3995.00 /	2.854	1.605	1.060	1.693	1.624	1.781	2.147	1.925	3.613	2.161
4995.00 /	4.634	8.966	3.557	2.607	3.410	3.094	2.256	3.562	4.625	6.927
5995.00 /	6.359	4.390	11.810	9.644	28.581	260.229	7.917	49.403	20.497	23.613
6995.00 /	28.903	1627.450	29.679	34.298	37.936	42.752	80.804	44.931	17.963	

**** 00 / MSFL

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
4699.00 /	2.867	3.898	4.164	7.441	10.941	1.365	1.260	1.438	1.157	1.204
5699.00 /	1.705	1.972	2.057	2.196	1.679	24.688	6.742	25.773	0.232	2.969
6699.00 /	25.182	30.703	27.203	27.820	14.172	36.266	48.281	67.531	28.031	319.000
7699.00 /	58.516	10.125								

**** 00 / DT

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	129.500	153.500	164.600	127.250	163.360	142.339	146.500	142.000	135.000	109.833
1995.00 /	127.083	148.321	136.000	123.000	130.417	125.250	151.750	120.872	130.500	125.000
2995.00 /	127.000	118.983	122.000	109.750	112.500	135.250	125.500	127.750	117.250	120.917
3995.00 /	95.590	109.500	122.025	111.314	116.000	107.250	97.764	109.250	85.375	99.250
4995.00 /	95.833	82.375	82.597	83.335	82.839	81.000	81.063	75.875	81.500	80.625
5995.00 /	77.113	76.750	76.604	75.125	69.344	122.500	75.723	100.281	78.369	77.979
6995.00 /	71.588	119.953	73.220	73.783	78.500	76.375	74.375	81.049	63.342	

**** 00 / DTL

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	177.750	153.500	164.600	127.250	163.360	143.750	146.500	142.000	137.500	178.037
1995.00 /	127.083	150.536	136.500	123.000	141.082	125.250	151.750	120.872	130.500	125.750
2995.00 /	126.179	118.322	122.750	106.000	112.750	123.250	125.500	122.750	116.500	122.083
3995.00 /	95.321	109.250	121.775	109.250	115.750	110.598	98.027	109.000	86.000	99.000
4995.00 /	96.167	82.482	82.577	83.734	82.482	80.875	80.938	75.125	81.375	80.125
5995.00 /	76.598	76.500	76.455	75.125	69.211	122.750	75.611	100.750	78.145	77.854
6995.00 /	71.695	120.031	73.310	73.625	78.250	77.250	74.625	81.225	63.858	

**** 00 / TT1

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	1902.000	1816.000	1884.000	1451.000	1699.221	1673.479	1720.000	1709.000	1586.000	1259.613
1995.00 /	1575.441	1594.857	1591.000	1388.000	1449.667	1431.000	1548.000	1382.316	1452.000	1385.000
2995.00 /	1316.281	1366.777	1195.000	1251.000	1313.000	1362.000	1403.000	1312.000	1336.000	1366.667
3995.00 /	1034.430	1238.000	1342.449	1270.437	1286.000	1219.000	1129.889	1196.000	1111.000	1132.000
4995.00 /	1053.666	951.214	969.081	972.840	966.714	961.500	958.000	912.000	963.000	950.500
5995.00 /	928.436	921.000	951.418	886.000	852.000	1565.000	906.277	1172.000	916.238	944.457
6995.00 /	859.391	1364.676	878.000	887.545	908.000	865.500	928.000	931.900	774.441	

**** 00 / TT2

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	1431.000	1374.000	1548.800	1185.000	1419.000	1379.234	1432.000	1387.000	1281.000	1029.562
1995.00 /	1267.328	1352.430	1252.000	1086.000	1221.332	1166.000	1310.000	1124.781	1196.000	1142.000
2995.00 /	1107.857	1134.906	993.000	1023.500	1069.000	1125.000	1146.000	1078.000	1112.000	1131.666
3995.00 /	850.500	1029.000	1111.102	980.437	1057.000	1004.242	918.328	986.500	905.500	934.500

4995.00 /	870.828	786.286	805.275	811.520	906.000	801.500	782.994	754.500	804.500	796.500
5995.00 /	773.646	770.000	793.903	742.000	713.193	1263.000	754.166	991.823	766.102	784.914
6995.00 /	715.000	1140.000	729.905	740.045	759.500	724.000	753.500	778.102	650.695	

**** 00 / TT3

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	2250.000	2128.000	2193.601	1733.000	1984.902	1976.809	2032.000	2026.000	1890.000	1941.000
1995.00 /	1834.328	1872.000	1882.000	1700.000	1670.000	1692.000	1794.000	1596.391	1707.000	1634.000
2995.00 /	1524.281	1607.066	1434.000	1493.000	1562.000	1606.000	1643.000	1556.000	1558.000	1619.000
3995.00 /	1226.286	1454.000	1583.449	1498.641	1520.000	1433.797	1345.668	1401.000	1297.000	1320.000
4995.00 /	1238.332	1116.429	1132.225	1135.580	1131.571	1124.000	1105.000	1077.000	1122.000	1108.000
5995.00 /	1092.709	1079.000	1103.194	1037.000	992.307	1769.000	1063.555	1355.336	1062.841	1102.457
6995.00 /	1004.391	1534.676	1026.189	1034.000	1056.000	1008.500	1079.000	1092.203	906.254	

**** 00 / TT4

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
995.00 /	1903.000	1818.000	1889.600	1454.000	1700.269	1677.918	1716.000	1716.000	1596.000	1690.250
1995.00 /	1580.000	1593.571	1592.000	1392.000	1451.333	1436.000	1541.000	1382.734	1454.000	1390.000
2995.00 /	1319.715	1371.777	1200.000	1257.000	1322.000	1366.000	1407.000	1310.000	1340.000	1370.333
3995.00 /	1033.143	1243.000	1345.898	1276.281	1290.000	1222.359	1133.444	1200.000	1117.000	1135.000
4995.00 /	1056.666	954.000	971.581	974.840	969.144	964.000	943.754	916.000	966.000	954.000
5995.00 /	931.500	924.500	954.820	888.500	855.000	1569.000	908.277	1184.328	918.738	946.457
6995.00 /	861.391	1367.676	880.000	889.863	910.000	866.500	931.500	936.703	775.508	

**** 00 / CALI02

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5840.00 /	9.430	9.664	8.625	8.492	8.945	8.875	8.664	8.602	8.734	8.992
6840.00 /	8.953	8.961	8.781	8.484	8.820	8.641	8.711	8.508	8.445	8.383
7840.00 /	8.508									

**** 00 / TENS02

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5840.00 /	2360.000	2430.000	2400.000	2510.000	2504.000	2580.000	2550.000	2614.000	2584.000	2714.000
6840.00 /	2730.000	2764.000	2740.000	2820.000	2874.000	2854.000	2904.000	2944.000	3184.000	3114.000
7840.00 /	3280.000									

**** 00 / GR0002

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5839.50 /	59.457	35.816	65.695	26.266	140.000	131.797	77.125	43.031	55.625	155.652
6839.50 /	162.500	141.250	115.312	62.375	152.250	148.375	153.250	57.875	160.625	180.000
7839.50 /	147.875									

**** 00 / RH08

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5839.50 /	2.655	2.543	2.445	2.369	2.424	2.643	2.502	2.479	2.628	2.658
6839.50 /	2.662	2.583	2.547	2.477	2.695	2.600	2.555	2.518	2.400	2.396
7839.50 /	2.735									

**** 00 / DRHO

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5839.50 /	0.007	0.029	0.011	0.000	0.011	0.002	0.013	0.012	0.026	0.004
6839.50 /	0.009	-0.002	0.016	0.010	0.013	0.060	0.032	0.015	0.014	0.052
7839.50 /	-0.036									

**** 00 / RHGX

DEPTH	DEPTH + 0.000	DEPTH + 100.000	DEPTH + 200.000	DEPTH + 300.000	DEPTH + 400.000	DEPTH + 500.000	DEPTH + 600.000	DEPTH + 700.000	DEPTH + 800.000	DEPTH + 900.000
5839.50 /	2.866	2.793	2.744	2.654	2.844	2.914	2.797	2.709	2.803	2.949
6839.50 /	2.914	2.880	2.799	2.705	2.944	2.857	2.828	2.744	2.732	2.830

7839.50 / 2.961

**** 00 / NPHI

[illegible]

**** 00 / NCNL

[illegible]

**** 00 / FCNL

[illegible]

**** 00 / NRAT

[illegible]

**** 00 / PEF

[illegible]

*** 00 / LS

[illegible]

*** 00 / LITH

[illegible]

**** 00 / SS1

[illegible]

**** 00 / SS2

[illegible]

DEPTH	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000	800.000	900.000
5840.00 /	251.680	288.250	288.000	293.750	287.500	258.750	285.000	286.500	272.312	257.250
6340.00 /	262.500	269.625	277.000	286.750	251.570	279.500	280.250	282.000	307.500	329.000
7840.00 /	215.821									

[illegible][illegible]

IEB334I NO EDITING OR CONVERSION WILL BE DONE
PROCESSING ENDED AT EOD