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PPL 10

EROMANGA BASIN AND COOPER BASIN

DARALINGIE 20

TEST REPORTS

Submitted by

Santos Ltd
1988

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**MINES and ENERGY
RESOURCES** SOUTH
AUSTRALIA



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ENVELOPE 7100/2

TENEMENT: PPL 10; Eromanga and Cooper Basins

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

CONTENTS

REPORTS:	Julien, G. and Aldrich, P., 1987. Operator's summary and field testing contractor's results of the modified isochronal gas production test and 62.3 hour reservoir pressure buildup survey of the Patchawarra Formation producing interval 7462-7497 feet depth KB, conducted over the period 6-14/9/89 (Oilserv Australia Pty Ltd).	MESA NO. 7100/2 R 1 Pgs 3-92
	Giancaspro, G. and Mueller, M., 1991. Field maintenance contractor's results of the flowing bottomhole pressure, 96 hour reservoir pressure buildup and static wellbore pressure gradient surveys of the above Patchawarra producing zone, conducted over the period 16-22/3/91 (Expertest Pty Ltd).	7100/2 R 2 Pgs 93-104
	Smith, A., 1992. Field maintenance contractor's results of the static wellbore pressure gradient survey of the Patchawarra producing zone, conducted on 16/6/92 (Expertest Pty Ltd).	7100/2 R 3 Pgs 105-108
	Sargeant, R., 1993. Field maintenance contractor's results of the static wellbore pressure gradient survey of the Patchawarra producing zone, conducted on 21/2/93 (Expertest Pty Ltd).	7100/2 R 4 Pgs 109-112
	McAllister, D., 1994. Field maintenance contractor's results of the static wellbore pressure gradient survey of the Patchawarra producing zone, conducted on 10/5/94 (Expertest Pty Ltd).	7100/2 R 5 Pgs 113-116

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SANTOS LTD.
WELL TEST SUMMARY

Page 1.

WELL: Daralingie #20

TESTED BY: Oilserv

CASING SIZE: 7 ins

TUBING SIZE: 2-3/8 ins

Lat.: 28° 19' 25.17" S

LOCATION: Long: 139° 58' 47.01" E

PERFORATIONS: 7462-7497 ft

WEIGHT: 23# 26 lb/ft

WEIGHT: 4.7 lb/ft

DATE: 6-14/9/89

PRODUCING THROUGH: Tubing

GRADE: J55 # N80

GRADE: J55

FORMATION: Patchawawa

Mines & Energy SA

R95/03477



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	
9/9/89	1800	0	5033	0	67	Shut well in
12/9/89	1800	72				
	1845		7957	0	19	Began determination of choke settings for mod lso rates.
	2200	0	2330	0	52	Shut well in
13/9/89	1800	20	8012	0	18	Opened well on rate # 1

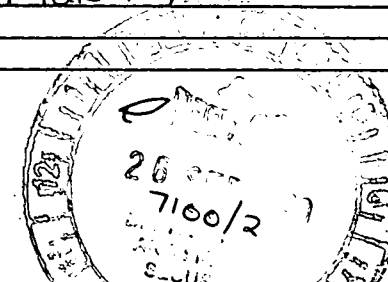
Flow Period

Run No.: 1 Duration of Run: 2 Hours.

Flow Well On: 24/64" Choke.

Orifice Size: 2.000 ins

Meter Run: 4.026 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	kPa	°C		
13/9/89	1800	0	8012	0	18					
	1815	0.25	5957	0	47	1069	17.43	11		
	1830	0.5	5950	0	47	1069	17.68	18		
	1845	0.75	5957	0	48	1069	17.68	19		
	1900	1	5964	0	48	1069	17.68	19	15.600	NIL
	1915	1.25	5964	0	50	1069	17.68	20		
	1930	1.5	5964	0	50	1069	17.68	20		
	1945	1.75	5964	0	50	1103	17.68	21		
	2000	2	5964	0	50	1103	17.68	21	15.600	NIL

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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	kPa	
13/9/89	2000	0	5964	0	50	Shut well in
	2015	0.25	7984	0	39	
	2030	0.5	7998	0	29	
	2045	0.75	8012	0	22	
	2100	1	8019	0	18	
	2115	1.25	8019	0	16	
	2130	1.5	8019	0	15	
	2145	1.75	8019	0	13	
	2200	2	8019	0	12	Opened well on rate #2

Flow Period

Run No.: 2 Duration of Run: 2 Hours.
Flow Well On: 35/64" Choke.

Orifice Size: 2.250 ins
Meter Run: 4.026 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	kPa	°C		
13/9/89	2200	0	8019	0	12					
	2215	0.25	4254	0	49	1034	21.16	23		
	2230	0.5	4240	0	50	1034	21.41	26		
	2245	0.75	4240	0	50	1034	21.41	27		
	2300	1	4227	0	51	1034	21.41	28	15.600	3.600
	2315	1.25	4227	0	51	1034	21.41	29		
	2330	1.5	4220	0	51	1034	21.41	29		
	2345	1.75	4220	0	52	1034	21.41	30		
	2400	2	4220	0	52	1034	21.41	30	14.400	4.080

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3RD SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
13/9/89	2400	0	4220	0	52	Shut well in
14/9/89	0015	0.25	7977	0	43	
	0030	0.5	7991	0	26	
	0045	0.75	8005	0	15	
	0100	1	8012	0	14	
	0115	1.25	8012	0	14	
	0130	1.5	8019	0	13	
	0145	1.75	8019	0	13	
	0200	2	8019	0	12	Opened well on rate # 3

Flow Period

Run No.: 3 Duration of Run: 2 Hours.
Flow Well On: 44/64" Choke.

Orifice Size: 2.500 ins
Meter Run: 4.026 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			
			kPa	kPa	°C	kPa	kPa	°C		
14/9/89	0200	0	8019	0	12					
	0215	0.25	3241	0	50	1034	16.18	30		
	0230	0.5	3227	0	51	1034	16.18	32		
	0245	0.75	3220	0	51	1034	16.18	33		
	0300	1	3220	0	51	1034	16.18	34	18.000	0.720
	0315	1.25	3213	0	52	1034	16.18	34		
	0330	1.5	3213	0	52	1034	16.18	34		
	0345	1.75	3213	0	53	1034	16.18	35		
	0400	2	3213	0	53	1034	16.18	35	13.800	4.800

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WELL TEST SUMMARY

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4TH SHUT IN PERIOD

Time of Observations			Observed Pressures			REMARKS
Date	Time	Shut In Time (Hours)	Tubing	Casing	Temp.	
			kPa	kPa	°C	
14/9/89	0400	0	3213	0	53	Shut well in
	0415	0.25	7964	0	43	
	0430	0.5	7977	0	30	
	0445	0.75	7991	0	18	
	0500	1	7998	0	14	
	0515	1.25	8005	0	12	
	0530	1.5	8005	0	10	
	0545	1.75	8012	0	8	Opened well on rate # 4
	0600	2	8012	0	7	

Flow Period

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

Orifice Size: 2.500 ins
Meter Run: 4.026 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	kPa	°C		
14/9/89	0600	0	8012	0	7					
	0615	0.25	2441	0	50	965	18.92	33		
	0630	0.5	2427	0	51	965	19.17	36		
	0645	0.75	2427	0	51	965	19.17	37		
	0700	1	2420	0	52	965	19.42	38	15.000	2.400
	0715	1.25	2420	0	52	965	19.42	38		
	0730	1.5	2413	0	52	1000	19.42	38		
	0745	1.75	2413	0	53	1000	19.42	39		
	0800	2	2413	0	53	1000	19.42	39	15.000	2.400

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FINAL STABILIZATION FLOW PERIOD PRIOR TRANSIENT FLOW & BUILDUP TESTS

Flow Period

Run No.: 5 Duration of Run: 48 Hours.
Flow Well On: 100 % Choke.

Orifice Size: 1.500 ins
Meter Run: 4.026 ins

[illegible]

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WELL TEST SUMMARY
FINAL BUILD-UP PERIOD PRIOR TRANSIENT FLOW & BUILDUP TESTS

Page 6. ✓

Date	Time	Shut in Period (Hours)	Tubing Pressure psig	Casing Pressure psig	Wellhead Temp. °F	REMARKS
9/9/89	1800	0	5033	0	67	Shut well in
	1815	0.25	7564	0	62	
	1830	0.5	7578	0	58	
	1845	0.75	7598	0	40	
	1900	1	7612	0	31	
	1915	1.25	7619	0	28	
	1930	1.5	7626	0	23	
	1945	1.75	7633	0	23	
	2000	2	7640	0	23	
	2015	2.25	7646	0	22	
	2030	2.5	7646	0	21	
	2045	2.75	7646	0	21	
	2100	3	7653	0	20	
	2115	3.25	7653	0	19	
	2130	3.5	7653	0	19	
	2145	3.75	7660	0	18	
	2200	4	7660	0	18	
10/9/89	0200	8	7674	0	13	
	0600	12	7688	0	10	
	1000	16	7715	0	27	
	1400	20	7743	0	33	
	1800	24	7750	0	25	
	2200	28	7757	0	19	
11/9/89	0200	32	7771	0	15	
	0600	36	7791	0	10	
	1000	40	7805	0	25	
	1400	44	7819	0	24	
	1800	48	7833	0	18	
	2200	52	7853	0	15	
12/9/89	0200	56	7867	0	12	
	0600	60	7881	0	7	
	1000	64	7902	0	20	
	1130	65.5				P.O.O.H. with electric line
	1400	68	7922	0	20	
	1715	71.25	7943	0	20	
	1800	72	7943	0	20	

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FINAL BUILD-UP, SUBSURFACE PRESSURES

ELEMENT NO.

BOMB DEPTH

KB

DWT IN:

PSIG / OUT:

PSIG

LUB. IN :

PSIG / OUT:

PSIG

[illegible]

WP 2548G

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WELL TEST SUMMARY
CALCULATION SHEET

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GAS RATES THROUGH SEPARATOR

Run No.	Hw		Pf		Size Orifice Plate		Ft	
	(kPa)	("w.g.)	(kPa)	(psig)	(mm)	(inches)	(°C)	(°F)
1	17.68	71	1103	160	50.800	2.000	21	69.8
2	21.41	86	1034	150	57.150	2.250	30	86.0
3	16.18	65	1034	150	63.500	2.500	35	95.0
4	19.42	78	1000	145	63.500	2.500	39	102.2
5	17.18	69	4861	705	38.100	1.500	63	145.4

Separator Gas Properties

Specific Gravity = 0.9073

TC = 435.84 °R

PC = 682.93 psia

CO2 CONTENT = 6.84 mole %

Meter Run = 4.026

GAS RATES THROUGH SEPARATOR

Run No.	$\frac{6}{Q}$	$\frac{Q}{6}$
	$\frac{E}{m^3/d}$	$\frac{mm}{scf/d}$
1	0.067	2.386
2	0.091	3.234
3	0.100	3.551
4	0.107	3.796
5	0.072	2.560

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

WELL NAME: Daralinge # 20 DATE: 6-14/9/89 ELEMENT NO: Electric Line DEPTH TESTED: 7425' 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 $\text{E} 3 \text{ m}^3/\text{d}$	H/Carbon Prod. m^3/d	Water Prod. m^3/d	REMARKS
Initial Shut In	20			✓	-	-	-	-	$q = C(\bar{p}_R^2 - p_{wf}^2)^n$ slope $n =$ _____ $\bar{p}_R =$ _____ psia $C = \frac{q}{(\bar{p}_R^2 - p_{wf}^2)^n}$ = _____ AOF (MMscfd) = _____
Flow 1	2			✓			15.600	NIL	
Shut In	2			✓	-	-	-	-	
Flow 2	2			✓			15.000	3.840	
Shut In	2			✓	-	-	-	-	
Flow 3	2			✓			15.900	2.760	
Shut In	2			✓	-	-	-	-	
Flow 4	2			✓			15.000	2.400	
(Prior Mod Iso) Extended Flow	48			✓			10.068	1.805	
(Prior mod Iso) Final Shut In	72			✓	-	-	-	-	

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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	20							
Flow 1	2							
Shut In	2							
Flow 2	2							
Shut In	2							
Flow 3	2							
Shut In	2							
Flow 4	2							
Total=								
(Prior Mod Iso) Extended Flow	48							
(Prior Mod Iso) Final Shut In	72							

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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

REMARKS

RESULTSTRANSIENT FLOW: $\bar{\Psi}_R - \Psi_{wf} = a_t q + bq^2$ i.e. _____ - Ψ_{wf} = _____ q + _____ q²STABILIZED FLOW: $\bar{\Psi}_R - \Psi_{wf} = aq + bq^2$ i.e. _____ - Ψ_{wf} = _____ q + _____ q²

DELIVERABILITY:

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

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

WELL: Daralingie # 20 Pf = — kPa
 ORIFICE SIZE: 48.000 mm 1.890 " ✓ T = — °C
 LINE SIZE: 73.660 mm 2.900 " ✓ Diff = — kPa

Cumulative Production to end of August = 19.051 m³ x 10⁶

Number of hours online in August = 744 ✓

Production in August = 2.504 m³ x 10⁶

.. Average flow rate in August = (2.504 / 744) x 24 = 0.081 m³ x 10⁶ / d

Number of days online in Sept before Shut In 1800 hrs 9 / 9 / 89
 = 7.250 days

.. Production up to 1800 hrs 9 / 9 / 89 = 7.250 x 0.081 = 0.587 m³ x 10⁶

Total cumulative production = 19.051 + 0.587
 = 19.638 m³ x 10⁶
 = 697.040 mmscf ✓

Flow rate just prior to Shut In = 0.072 m³ x 10⁶
 = 2.560 mmscf/d ✓

WELL: DARALINGIE 20

TYPE OF TEST: MOD. ISOTHERMAL



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WELL TEST DATA SHEET

DATE: SEPT 06 1989

PAGE No: 1 OF 10

DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS			
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW IN.S.H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY
SEPT 06 1989																		
1800						ARRIVE ON LOCATION AND SPOT EQUIPMENT.												
SEPT 07 1989																LET : 100%		
0730						COMMENCE RIG UP OF P.T. EQUIPMENT.										Qg : 76.520	E3m ³ /d	✓
1330						SHUT IN WELL TO RIG UP SWAB VALVE.										HIC : 10.068	m ³ /d	✓
1345						OPEN WELL - SWAB VALVE RIGGED UP.										H ₂ O : 1.806	m ³ /d	✓
1400						COMPLETED RIG UP OF P.T. EQUIPMENT.												
1415						PRESSURE TEST FLOW LINES - ALL OKAY												
1430						FLOW WELL BYPASS SEPARATOR												
1600	0	5040	66	100%		DIVERT WELL THRU SEPARATOR												
1800	0	5033	66			4826	1743	64	1.500	725	725		0	-	75.61	8.70	0	8.70 -
2000	0	5013	66			4757	1768	63		1725	865	61.1	145	145	75.71	10.38	1.74	12.12 0.160
2200	0	4999	66			4757	1768	63		2135	840		305	160	75.71	10.08	1.92	12.00 0.158
SEPT 08 1989																		
0000	0	4978	66	100%		4723	1818	63	1.500	3745	850	61.1	465	160	76.45	10.20	1.92	12.12 0.158
0200	0	4964	66			4702	1843	63		4765	860		625	160	76.78	10.32	1.92	12.24 0.159
0400	0	4978	66			4723	1818	63		5780	890		750	125	76.45	10.68	1.50	12.18 0.159
0600	0	4957	66			4689	1843	63		6780	850		900	150	76.65	10.20	1.80	12.00 0.156
0800	0	4923	67			4654	1892	61		0/1025	900		0/125	125	77.73	10.80	1.50	12.30 0.158
1000	0	4895	67			4654	1892	60		2050	875		275	150	77.92	10.50	1.50	12.30 0.158

OPERATOR: GERARD JULIEN

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WELL:.....DARALINGIE 20.....TYPE OF TEST: MOD ISOCHORONAL

SANTOS LTD.

WELL TEST DATA SHEET

DATE:.....SEPT 08, 1989.....PAGE No:.....2 OF 10.....

DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS. H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/DAY	WATER FLOW RATE BBLs/DAY	TOTAL LIQUID FLOW RATE BBLs/DAY	G.O.R. SCF/BBL
SEPT 08, 1989																			
1200	0	489.5	67	100%		4654	19.42	60	1500	2030 3075	875	60.6	275 425	150	78.99	10.50	1.80	12.30	0.156
1400	0	4847	67			4654	19.67	61		4100	875		575	150	79.31	10.50	1.80	12.30	0.155
1600	0	5060	67			4861	17.18	61		5100	875		700	125	75.98	10.50	1.50	12.00	0.158
1800	0	5075	67			4861	17.18	62		6090	870		820	120	75.79	10.44	1.44	11.88	0.157
2000	0	5040	67			4792	17.68	62		6950	860		960	140	76.26	10.32	1.68	12.00	0.157
2200	0	5026	66			4813	17.68	63		0 970	840		0 130	130	76.26	10.08	1.56	11.64	0.153
SEPT 09, 1989																			
0000	0	5013	66			4778	17.93	61		1945	705		400	270	76.85	8.46	3.24	11.70	0.152
0200	0	5006	66			4757	18.18	61		2970	880		545	145	77.19	10.56	1.74	12.30	0.159
0400	0	4999	66			4757	18.43	62		3990	875		690	145	77.53	10.50	1.74	12.24	0.158
0600	0	4964	66			4723	18.67	63		4990	865		825	135	77.55	10.38	1.62	12.00	0.155
0800	0	5019	68			4792	18.43	64		5990	800		1025	200	77.21	9.60	2.40	12.00	0.155
1000	0	5219	68			5033	16.43	63		0 1025	875		0 150	150	75.18	10.50	1.80	12.30	0.163
1030						CHOKE BACK WELL TO R.I.H. WITH ELECTRIC LINE GAUGE.													
1130						GAUGE ON BOTTOM - OPEN WELL TO 100% 7													
1200	0	5047	67			4909	17.18	63		1750	600		275	125	75.77	7.20	1.50	8.70	0.115
1300	0	5033	67			4909	17.18	63		2250	420		355	80	75.77	10.08	1.92	12.00	0.158
1400	0	5026	67			4860	17.18	63		2750	425		430	75	75.34	10.20	1.80	12.00	0.159
1400						OBTAIN FIRST SET OF H.P. SAMPLES (1X CONDENSATE & 1X GAS)													

000016

WELL: DARA LINGIE 20						 SANTOS LTD. WELL TEST DATA SHEET										DATE: SEPT 09 1989				
TYPE OF TEST: MOD. ISOTHERMAL						PAGE No: 3 OF 10														
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS. H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	FLOW RATE MMSCFD	FLOW RATE BBLs/DAY	FLOW RATE BBLs/DAY	TOTAL LIQUID FLOW RATE BBLs/DAY	G.O.R. SCF/BBL	
SEPT 09 1989																				
1500	0	5019	67	100%		4861	17.43	63	1500	2750 3255	425		430 510	80	75.89	10.20	1.92	12.12	0.159	
1500						OBTAIN SECOND SET OF H.P. SAMPLES (1xCONDENSATE & 1xGAS)														
1600	0	5019	67			4861	17.43	63	1500	3750	430		575	65	75.89	10.32	1.56	11.88	0.156	
1700	0	5013	67			4861	17.18	63		4250	420		655	80	75.34	10.08	1.92	12.00	0.159	
1800	0	5033	67			4861	17.18	63		4750	430		725	70	75.34	10.32	1.68	12.00	0.159	
1800				S/I.		SHUT IN WELL TO RECORD PRESSURE BUILD UP.														
1815	0	7564	62																	
1830	0	7578	58																	
1845	0	7598	40																	
1900	0	7612	31																	
1915	0	7619	28																	
1930	0	7626	23																	
1945	0	7633	23																	
2000	0	7640	23																	
2015	0	7646	22																	
2030	0	7646	21																	
2045	0	7646	21																	
2100	0	7653	20																	
2115	0	7653	19																	

000017

FRANK JULIEN

WELL: DARALINGIE 20

TYPE OF TEST: MDD ISOCHORONAL



SANTOS LTD.

WELL TEST DATA SHEET

DATE: SEPT 09, 1989

PAGE No: 4 OF 10

DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING	TUBING	TEMP.	CHOKE	B.S.W.	PI	HW	TEMP.	ORIFICE	TANK	TANK	API	TANK	TANK	GAS	OIL	WATER	TOTAL	G.O.R.
	PSI	PSI	°F	SIZE INS.	%	PSI	INS. H ₂ O	°F	SIZE INS.	DIP INS.	PROD BBLs	GRAVITY @ 60 °F	DIP INS.	PROD BBLs	FLOW RATE MMSCFD	FLOW RATE BBLs/ DAY	FLOW RATE BBLs/ DAY	FLOW RATE BBLs/ DAY	SCF/BBL
SEPT 09, 1989																			
2130	0	7653	19	5 I.															
2145	0	7660	18	↑															
2200	0	7660	18	↓															
SEPT 10, 1989																			
0200	0	7674	13	5 I.															
0600	0	7688	10	↑															
1000	0	7715	27																
1400	0	7743	33																
1800	0	7750	25	↓															
2200	0	7757	19																
SEPT 11, 1989																			
0200	0	7771	15	5 I.															
0600	0	7791	10	↑															
1000	0	7805	25																
1400	0	7819	24																
1800	0	7833	18																
2200	0	7853	15	↓															

OPERATOR GERARD JULIEN

000018

WELL: JARALINGIE 20.....

TYPE OF TEST: ND ISOCHORONAL



SANTOS LTD.

WELL TEST DATA SHEET

DATE: SEPT 12, 1989.....

PAGE No: 5 OF 10.....

DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS				
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS. H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY	G.O.R. SCF/BBL
SEPT 12, 1989																			
0200	0	7867	12	S/I															
0600	0	7881	7	↑															
1000	0	7902	20																
1130						P.O.O.H. WITH ELECTRIC LINE GAUGES.													
1300						ELECTRIC LINE GAUGE O.O.H.													
1330				↓		COMMENCE RIG UP OF SLICK LINE EQUIPMENT.													
1400	0	7922	20	S/I															
1615				↑		HANG AMERADA GAUGES IN LUBE AND PRESSURISE LUBE.													
1715	0	7943	20			R.I.H. WITH B.H.P. GAUGES (AMERADA)													
1800	0	7943	20	↓		HANG GAUGES AT DEPTH OF @ 7425' KB.													
1845	0	7957	19	12/64		COMMENCE ESTABLISHING CHOKE SIZES FOR ISOCHORONAL RATES.													
1930				30/64		W.H.F.P. DROPPING VERY SLOWLY													
2030	0	5902	51	24/64		1034	19.42	22	2.000						71.203				
2100	0	4185	52	35/64		1000	23.41	29	2.250						98.249				
2130	0	3199	52	44/64		931	19.42	33	2.500						109.23				
2200	0	2330	52	64/64		931	20.92	38	2.500						112.35				
2200						SHUT IN WELL FOR PRESSURE BUILD UP.													
2215	0	7667	39	S/I															
2230	0	7798	30	S/I															

OPERATOR: R. R. JULIEN

000019

WELL: <u>DARALINGIE 20</u>						 SANTOS LTD. WELL TEST DATA SHEET										DATE: <u>SEPT 12, 1989</u>				
TYPE OF TEST: <u>MOD ISOCHORONAL</u>						PAGE No: <u>6</u> OF <u>10</u>														
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS. H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY	G.O.R. SCF/BBL	
SEPT 12, 1989																				
2300	0	7867	25	S/I																
2330	0	7915	20	↓																
SEPT 13, 1989																				
0000	0	7950	16	S/I																
0200	0	7964	9	↑																
0600	0	7977	5																	
1000	0	7998	20																	
1400	0	8005	24	↓																
1800	0	8012	18	S/I																
1815	0	5957	47	24/64		1069	17.43	11	2000	0	-	-	0	-	70.02	-	-	-	-	
1830	0	5950	47	↑		1069	17.68	18							69.51					
1845	0	5957	48			1069	17.68	19							69.37					
1900	0	5964	48			1069	17.68	19		650	650	-	0	-	69.37	15.60	-	15.60	4.447	
1915	0	5964	50			1069	17.68	20							69.23					
1930	0	5964	50			1069	17.68	20							69.23					
1945	0	5964	50			1103	17.68	21							70.15					
2000	0	5964	50	↓		1103	17.68	21	↓	1300	650	64.6	0	-	70.15	15.60	-	15.60	4.497	
2000	0					S.I. WELL														
2015	0	7984	39	S/I																

OPERATOR: GERARD JULIEN

000020

WELL: <u>DARALINGIE 20</u>						 SANTOS LTD. WELL TEST DATA SHEET										DATE: <u>SEPT 13, 1989</u>				
TYPE OF TEST: <u>MOD ISOCHORONAL</u>						PAGE No: <u>7</u> OF <u>10</u>														
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS. H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY	G.O.R. SCF/BBL	
SEPT 13, 1989	13	1989																		
2030	0	7998	29	S/I																
2045	0	8012	22	↑																
2100	0	8019	18																	
2115	0	8019	16																	
2130	0	8019	15																	
2145	0	8019	13																	
2200	0	8019	12	↓		COMMENCE 2 nd RATE OF ISOCHORONAL														
2215	0	4254	49	35/64		1034	21.16	23	2.250	1300	-		0	-	95.42	-	-	-	-	
2230	0	4240	50	↑		1034	21.41	26	↑						95.42					
2245	0	4240	50			1034	21.41	27							95.23					
2300	0	4227	51			1034	21.41	28		2100	650		150	150	95.05	15.60	3.60	19.20	4.950	
2315	0	4227	51			1034	21.41	29							94.87					
2330	0	4220	51			1034	21.41	29							94.87					
2345	0	4220	52	↓		1034	21.41	30	↓	2870	600		320	170	94.69	14.40	4.08	18.48	5.124	
SEPT 14, 1989																				
0000	0	4220	52	35/64		1034	21.41	30	2.250						94.69					
0000						SHUT IN WELL FOR P.B.U.														
0015	0	7977	43	S/I																
0030	0	7991	26	↑																

OPERATOR: GEARD JULIEN

000021

WELL:.....DARALINGIE.....20.....						 SANTOS LTD. WELL TEST DATA SHEET										DATE:.....SEPT 14, 1989.....				
TYPE OF TEST:.....MOD ISOCHORONAL.....						PAGE No:.....8 OF 10.....														
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS.H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY	G.O.R. SCF/BBL	
SEPT 14, 1989																				
0045	0	8005	15	S/I																
0100	0	8012	14	↑																
0115	0	8012	14																	
0130	0	8019	13																	
0145	0	8019	13																	
0200	0	8019	12	↓		COMMENCE	3 rd	RATE	OF	ISOCHORONAL										
0215	0	3241	50	44/64		1034	16.18	30	2.500	2870	-	-	320	-	104.89	-	-	-	-	
0230	0	3227	51	↑		1034	16.18	32	↑						104.49					
0245	0	3220	51			1034	16.18	33							104.30					
0300	0	3220	51			1034	16.18	34		3650	750	-	350	30	104.10	18.00	720	18.72	5.561	
0315	0	3213	52			1034	16.18	34							104.10					
0330	0	3213	52			1034	16.18	34							104.10					
0345	0	3213	53			1034	16.18	35							103.91					
0400	0	3213	53	↓		1034	16.18	35	↓	4425	575	60.9	550	200	103.91	13.80	4.80	18.60	5.586	
0400				S/I		SHUT	IN	WELL	FOR	P.B.U.										
0415	0	7964	43	↑																
0430	0	7977	30																	
0445	0	7991	18																	
0500	0	7998	14	↓																

000022

WELL:.....DARALINGIE 20.....						 SANTOS LTD. WELL TEST DATA SHEET										DATE:.....SEPT 14, 1989.....				
TYPE OF TEST:.....MOD ISOCHORONAL.....						PAGE No:.....9 OF 10.....														
DATE TIME	WELLHEAD					GAS FLOW DATA				OIL/CONDENSATE PRODUCTION			WATER PRODUCTION		WELL TEST RESULTS					
	CASING PSI	TUBING PSI	TEMP. °F	CHOKE SIZE INS.	B.S.W. %	PI PSI	HW INS.H ₂ O	TEMP. °F	ORIFICE SIZE INS.	TANK DIP INS.	TANK PROD BBLs	API GRAVITY @ 60 °F	TANK DIP INS.	TANK PROD BBLs	GAS FLOW RATE MMSCFD	OIL FLOW RATE BBLs/ DAY	WATER FLOW RATE BBLs/ DAY	TOTAL LIQUID FLOW RATE BBLs/ DAY	G.O.R. SCF/BBL	
SEPT 14, 1989																				
0515	0	8005	12	3/1																
0530	0	8005	10	↑																
0545	0	8012	8	↓																
0600	0	8012	7	3/1																
0615	0	2441	50	64/64		965	1892	33	2500	4425	-	-	550	-	109.32	-	-	-	-	
0630	0	2427	51	↑		965	19.17	36							109.43					
0645	0	2427	51			965	19.17	37							109.23					
0700	0	2420	52			965	19.42	38		5150	625	-	650	100	109.74	15.00	2.40	17.40	6.307	
0715	0	2420	52			965	19.42	38							109.74					
0730	0	2413	52			1000	19.42	38							111.56					
0745	0	2413	53			1000	19.42	39							111.36					
0800	0	2413	53	↓		1000	19.42	39	↓	5875	625	60.0	750	100	111.36	15.00	2.40	17.40	6.400.	
0800				3/1		END	OF	RATES	S.I.	WELL	FOR	P.B.U.								
0815	0	7957	38	↑																
0830	0	7977	27																	
0845	0	7991	20																	
0900	0	7998	20																	
0915	0	8005	20																	
0930	0	8012	20	↓																

OPERATOR.....*GERARD JULIEN*.....

000023

TYPE OF TEST: MOD ISOCHORONAL



SANTOS LTD.

WELL TEST DATA SHEET

DATE:.....SEPT 14, 1989.....

PAGE No: 10 OF 10

[illegible]

OPERATOR.....

000024

WELL <u>DARALINGIE # 20</u>		SANTOS LTD FLUID PRODUCTION SHEET					DATE <u>SEPT 07, 1989</u>				
TANK:— CAPACITY <u>15900 LTS</u> SCALE _____							PAGE No. <u>1 OF 2</u> OPERATOR <u>GERARD JULIEN</u>				

DATE TIME	CUM. TIME	OIL/CONDENSATE PRODUCTION					WATER PRODUCTION					REMARKS
		TANK DIP INS	TANK PROD. BBLs	FLOWRATE BBLs/D	CUM.PROD. BBLs	OIL CONDENSATE GRAVITY "API60F"	TANK DIP INS	TANK PROD. BBLs	FLOWRATE BBLs/D	CUM.PROD. BBLs	SALINITY PPM	
SEPT 07, 1989												
1600	0	0		DIVERT	WELL THRU' SEPARATOR							
1800	2	0	725	725	8.700	0.725	0	-	-	0		
2000	4		1735	865	10.380	1.590	61.1	145	145	1.740	.145	0
2200	6		2735	840	10.080	2.430		305	160	1.920	.305	
SEPT 08, 1989												
0000	8		3745	850	10.200	3.280	61.1	465	160	1.920	.465	0
0200	10		4765	860	10.320	4.140		625	160	1.920	.625	
0400	12		5780	890	10.680	5.030		750	125	1.500	.750	
0600	14		6780	850	10.200	5.880		900	150	1.800	.900	
0800	16	0	1025	900	10.800	6.780		0	125	1.500	1.025	
1000	18		2050	875	10.500	7.655		275	150	1.800	1.175	
1200	20		3075	875	10.500	8.530	60.6	425	150	1.800	1.325	
1400	22		4100	875	10.500	9.405		575	150	1.800	1.475	
1600	24		5100	875	10.500	10.280		700	125	1.500	1.600	
1800	26		6090	870	10.440	11.150		820	120	1.440	1.720	
2000	28		6950	860	10.320	12.010		960	140	1.680	1.860	
2200	30	0	970	840	10.080	12.850		0	130	1.560	1.990	

WELL <u>JARALINGIE 20</u>		SANTOS LTD FLUID PRODUCTION SHEET										DATE <u>SEPT 09, 1989</u> PAGE No. <u>2</u> OF <u>2</u> OPERATOR <u>GERARD JULIEN</u>	
TANK:— CAPACITY <u>15900 LTS.</u> SCALE													
DATE TIME	CUM. TIME	OIL/CONDENSATE PRODUCTION					WATER PRODUCTION					REMARKS	
		TANK DIP INS	TANK PROD. BBLs	FLOWRATE BBLs/D	CUM.PROD. BBLs	OIL CONDENSATE GRAVITY "API60F"	TANK DIP INS	TANK PROD. BBLs	FLOWRATE BBLs/D	CUM.PROD. BBLs	SALINITY PPM		
<u>SEPT 09, 1989</u>													
0000	32	970 1945	705	8.460	13.555	60.6	130 400	270	3.240	2.260			
0200	34	2970	880	10.560	14.435		545	145	1.740	2.405			
0400	36	3990	875	10.500	15.310		690	145	1.740	2.550			
0600	38	4990	865	10.380	16.175		825	135	1.620	2.685			
0800	40	5990	800	9.600	16.975		1025	200	2.400	2.885			
1000	42	0 1025	875	10.500	17.850		0 150	150	1.800	3.035			
1200	44	1750	600	7.200	18.450		275	125	1.500	3.160		Choked back well from 10:30 to 11:30.	
1300	45	2250	420	10.080	18.870		355	80	1.920	3.240			
1400	46	2750	425	10.200	19.295		430	75	1.800	3.315			
1500	47	3255	425	10.200	19.720		510	80	1.920	3.395			
1600	48	3750	430	10.320	20.150		575	65	1.560	3.460			
1700	49	4250	420	10.080	20.570	(50)	655	80	1.920	3.540			
1800	50 ⁴⁸	4750	430	10.320	21.000	20.460	725	70	1.680	3.610			
1800					SHUT IN	WELL FOR P.B.U.							
					(48):	20.135							

#0/5576

003

000026

WELL <u>DARALINGIE 20</u>		 SANTOS LTD FLUID PRODUCTION SHEET					DATE <u>SEPT 13, 1989</u>					
TANK:— CAPACITY <u>15900 LTS.</u> SCALE							PAGE No. <u>1</u> OF <u>1</u> OPERATOR <u>GERARD JULIEN</u>					
DATE TIME	CUM. TIME	OIL/CONDENSATE PRODUCTION					WATER PRODUCTION					REMARKS
		TANK DIP INS	TANK PROD. BBLS	FLOWRATE BBLS/D	CUM.PROD. BBLS	OIL CONDENSATE GRAVITY "API60F"	TANK DIP INS	TANK PROD. BBLS	FLOWRATE BBLS/D	CUM.PROD. BBLS	SALINITY PPM	
SEPT 13, 1989												
1800	0			COMMENCE 1 ST RATE OF ISOCHORONAL								
1900	1	0	650	15.600	0.650		0	-	-	-		
2000	2	1300	650	15.600	1300	64.6	0	-	-	-		
2000				S.I. WELL FOR P.B.U.								
2200				COMMENCE 2 ND RATE OF ISOCHORONAL								
2300	3	2100	650	15.600	1.950		150	150	3.600	.150		
SEPT 14, 1989												
0000	4	2870	600	14.400	2.550	61.5	320	170	4.080	.320	0	
0000				SHUT IN WELL FOR P.B.U.								
0200				COMMENCE 3 RD RATE OF ISOCHORONAL								
0300	5	3650	750	18.000	3.300		350	30	0.720	.350		
0400	6	4425	575	13.800	3.875	60.9	550	200	4.800	.550	0	
0400				SHUT IN WELL FOR P.B.U.								
0600	*			COMMENCE 4 TH RATE OF ISOCHORONAL								
0700	7	5150	625	15.000	4.500		650	100	2.400	.650		
0800	8	5875	625	15.000	5.125		750	100	2.400	.750	0	
				END OF ISOCHORONAL - SHUT IN WELL FOR P.B.U.								

*0/5576

003

000027

OILSERV AUSTRALIA

GAS RATE CALCULATION

Page 1 of 2

Client: SANTOSWell: DARALINGIE 20Test: MOD ISOCHORONAL

Test No: _____

Interval: 7462' - 7497' KB.Meter Run Size: 4.026"

Date		Gas Gravity Air=1	Orifice diam. Inches	Gas Temp degF	Diff hw "H2O	Static Pf psia	√Hw*Pf	Fb	Fg	Y	Ftf	Fpv	C	Gas Rate Q MscfD	Cumulative Production MMscfD	
Time	Accum															
SEPT	07, 1989															
1600	0	0.846	1.500		DIVERT WELL THRU' SEPARATOR.											
1800	2			147.2	70	715	223.68	460.79	1.0872	1.0006	9254	1.0776	499.9212	2.684	75.610	
2000	4			145.4	71	705	223.69	460.79	1.0872	1.0007	9268	1.0774	500.5433	2.687	75.708	
2200	6			145.4	71	705	223.69	460.79	1.0872	1.0007	9268	1.0774	500.5433	2.687	75.708	
SEPT	08, 1989															
0000	8			145.4	73	700	226.01	460.79	1.0872	1.0007	9268	1.0767	500.2619	2.714	76.451	
0200	10			145.4	74	697	227.06	460.79	1.0872	1.0007	9268	1.0764	500.0925	2.725	76.782	
0400	12			145.4	73	700	226.01	460.79	1.0872	1.0007	9268	1.0767	500.2619	2.714	76.451	
0600	14			145.4	74	695	226.74	460.79	1.0872	1.0007	9268	1.0761	499.9766	2.721	76.654	
0800	16			141.8	76	690	228.95	460.79	1.0872	1.0007	9296	1.0774	502.0846	2.759	77.729	
1000	18			140	76	690	228.95	460.79	1.0872	1.0007	9309	1.0784	503.2981	2.766	77.917	
1200	20	0.844	1.500	140	78	690	231.95	460.79	1.0885	1.0007	9309	1.0779	503.6701	2.804	78.994	
1400	22			141.8	79	690	233.43	460.79	1.0885	1.0007	9296	1.0769	502.4638	2.815	79.308	
1600	24			141.8	69	720	222.85	460.79	1.0885	1.0006	9296	1.0808	504.2148	2.697	75.977	
1800	26			143.6	69	720	222.85	460.79	1.0885	1.0006	9282	1.0798	502.9843	2.690	75.792	

OILSERV AUSTRALIA

GAS RATE CALCULATION

Page 2 of 2

Client: SANTOS.Well: DARALINGIE 20Test: MOD ISOCHRONAL.

Test No: _____

Interval: 7462' - 7497' KB.Meter Run Size: 4.026"

Date	Gas Gravity	Orifice diam.	Gas Temp	Diff hw	Static Pf	√Hw*Pf	Fb	Fg	Y	Ftf	Fpv	C	Gas Rate Q	Cumulative Production
Time	Accum	Air=1	Inches	degF	"H2O	psia							MscfD	MMscfD
SEPT 08,	1989.													
2000	28	0.844	1.500	143.6	71	710	224.48	460.79	1.0885	1.0006	.9282	1.0785	502.4022	76.258
2200	30			145.4	71	713	224.95	460.79	1.0885	1.0006	.9268	1.0779	501.3699	76.262
SEPT 09,	1989													
0000	32	0.844	1.500	141.8	72	708	225.73	460.79	1.0885	1.0007	0.9296	1.0792	503.5063	76.854
0200	34			141.8	73	705	226.81	460.79	1.0885	1.0007	0.9296	1.0788	503.3310	77.194
0400	36			143.6	74	705	228.36	460.79	1.0885	1.0007	0.9282	1.0778	502.1215	77.535
0600	38			145.4	75	700	229.08	460.79	1.0885	1.0007	0.9268	1.0762	500.6369	77.549
0800	40	0.854	1.500	145.4	74	710	229.17	460.79	1.0821	1.0007	0.9254	1.0790	498.2271	77.206
1000	42			145.4	66	745	221.70	460.79	1.0821	1.0006	0.9268	1.0846	501.5176	75.183
1200	44			145.4	69	727	223.93	460.79	1.0821	1.0006	0.9268	1.0823	500.4356	75.774
1300	45			145.4	69	727	223.93	460.79	1.0821	1.0006	0.9268	1.0823	500.4356	75.774
1400	46			145.4	69	720	222.85	460.79	1.0821	1.0006	.9268	1.0813	500.0124	75.344
1500	47			145.4	70	720	224.46	460.79	1.0821	1.0006	.9268	1.0813	500.0169	75.889
1600	48			145.4	70	720	224.46	460.79	1.0821	1.0006	.9268	1.0813	500.0169	75.889
1700	49			145.4	69	720	222.85	460.79	1.0821	1.0006	.9268	1.0813	500.0124	75.344
1800	50			145.4	69	720	222.85	460.79	1.0821	1.0006	.9268	1.0813	500.0124	75.344

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OILSERV AUSTRALIA

GAS RATE CALCULATION

Page 1 of 3

Client: SANTOSWell: DARALINGIE 2DTest: MOD ISOCHORONALTest No: 1Interval: 7462' - 7497' KB.Meter Run Size: 4.026"

Date		Gas Gravity Air=1	Orifice diam. Inches	Gas Temp degF	Diff hw "H2O	Static Pf psia	√Hw*Pf	Fb	Fg	Y	Ftf	Fpv	C	Gas Rate Q MscfD	Cumulative Production MMscfD
Time	Accum														
SEPT	13,	1989													
1800	0				COMMENCE 1 ST RATE OF ISOCHORONAL										
1815		0.851	2.000	51.8	70	170	109.00	842.12	1.0840	1.0025	1.0080	1.0299	950.0382	2.485	70.021
1830		↑	↑	64.4	71	170	109.78	842.12	1.0840	1.0025	1.0058	1.0275	936.4131	2.467	69.508
1845				66.2	71	170	109.78	842.12	1.0840	1.0025	1.0041	1.0272	934.5955	2.462	69.368
1900	1			66.2	71	170	109.78	842.12	1.0840	1.0025	1.0041	1.0272	934.5955	2.462	69.368
1915				68.0	71	170	109.78	842.12	1.0840	1.0025	1.0024	1.0269	932.6397	2.457	69.228
1930				68.0	71	170	109.78	842.12	1.0840	1.0025	1.0024	1.0269	932.6397	2.457	69.228
1945				69.8	71	175	111.38	842.12	1.0840	1.0025	1.0007	1.0274	931.4652	2.495	70.152
2000	2			69.8	71	175	111.38	842.12	1.0840	1.0025	1.0007	1.0274	931.4652	2.495	70.152
2000					SHUT IN WELL FOR P. B. U.										
2200					COMMENCE 2 ND RATE OF ISOCHORONAL										
2215		0.862	2.250	73.4	85	165	118.33	1089.91	1.0771	1.0030	1.0074	1.0259	1192.5739	3.387	95.420
2230		↑	↑	78.8	86	165	119.02	1089.91	1.0771	1.0030	1.0024	1.0250	1185.6205	3.387	95.420
2245				80.6	86	165	119.02	1089.91	1.0771	1.0030	1.0008	1.0247	1183.3212	3.380	95.235
2300	3	↓	↓	82.4	86	165	119.02	1089.91	1.0771	1.0030	1.0091	1.0244	1181.0377	3.374	95.05

Client: SANTOSWell: DARALINGIE 20Test: MOD ISOCHRONALTest No: 1Interval: 7462' - 7497' KB.Meter Run Size: 4.026"

Date		Gas Gravity Air=1	Orifice diam. Inches	Gas Temp degF	Diff hw "H2O	Static Pf psia	√Hw*Pf	Fb	Fg	Y	Ftf	Fpv	C	Gas Rate Q MscfD	Cumulative Production MMscfD
Time	Accum														
SEPT	13,	1989													
2315		0.862	2.250	84.2	86	165	119.02	1089.91	1.0771	1.0030	.9775	1.0242	1178.7699	3.367	94.869
2330		↑	↑	84.2	86	165	119.02	1089.91	1.0771	1.0030	.9775	1.0242	1178.7699	3.367	94.869
2345		↓	↓	86.0	86	165	119.02	1089.91	1.0771	1.0030	.9759	1.0239	1176.5175	3.361	94.688
SEPT	14,	1989													
0000	4	0.862	2.250	86.0	86	165	119.02	1089.91	1.0771	1.0030	.9759	1.0239	1176.5175	3.361	94.688
0000		↑	↑												
0200		0.858	2.500												
0215		↑	↑	86.0	65	165	103.48	1387.18	1.0796	1.0021	.9759	1.0237	1499.1459	3.723	104.893
0230				89.6	65	165	103.48	1387.18	1.0796	1.0021	.9727	1.0231	1493.4715	3.709	104.496
0245				91.4	65	165	103.48	1387.18	1.0796	1.0021	.9711	1.0229	1490.6627	3.702	104.299
0300	5			93.2	65	165	103.48	1387.18	1.0796	1.0021	.9695	1.0226	1487.8724	3.695	104.104
0315				93.2	65	165	103.48	1387.18	1.0796	1.0021	.9695	1.0226	1487.8724	3.695	104.104
0330				93.2	65	165	103.48	1387.18	1.0796	1.0021	.9695	1.0226	1487.8724	3.695	104.104
0345				95.0	65	165	103.48	1387.18	1.0796	1.0021	.9680	1.0224	1485.1004	3.688	103.910
0400	6	↓	↓	95.0	65	165	103.48	1387.18	1.0796	1.0021	.9680	1.0224	1485.1004	3.688	103.910

0400.

SHUT IN WELL FOR P.B.U.

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ISO - CHRONAL AND BUILD-UP SURVEY

Well: DARALINGIE 20

Date: SEPT 12, 1989

Lubricator Data:

- Pg 1 OF 3.

Pressure with D.W.T.

7943 KPA ON 12.9.89 @ 1715 HRS / 8026 KPA ON 14.9.89 @ 1135 HRS.

Time Pressured

1615 @ 12.9.89

Time Depressed

1135 @ 14.9.89

Time Run in Hole

1715 @ 12.9.89

Time off Bottom

1000 @ 14.9.89

Bomb No. 1 Data

Bomb No. 2 Data

Element No. and Range	55982 0-3000kg	49831 0-3000 PSIG
Recorder No.	73359	47405
Clock and Lead Screw Data	F-16591 120 HR. SINGLE PITCH	F-23707 120HR SINGLE PITCH
Engage Stylus	Date: 12.9.89 Time: 1545	Date: 12.9.89 Time: 1545 HRS
Disengage	Date: 14.9.89 Time: 1150	Date: 14.9.89 Time: 1150 HRS.

Remarks: R.T-7 ELEMENT NO: 10066 RECORDER NO: 12068 RANGE: 90°-249°F
 CLOCK: F-23708 120HR SINGLE PITCH ENGAGED STYLUS: 12.9.89 @ 1545
 DISENGAGED STYLUS: 14.9.89 @ 1150

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead P.S.I.G.	Casing P.S.I.G.	Wellhead Temp.	Remarks
12.9.89						
	1615	70.15	7943	0	20	HANG AMERADAS IN LUBE.
	1715	71.15	7943	↑	20	R.I.H. WITH AMERADAS.
	1800	72.0	7943		20	COMMENCE ESTABLISHING CHOKES SIZES.
	2030		5902		51	
	2100		4185		52	
	2130		3199		52	
	2200		2330		52	
	2200	0	2330		52	SHUT IN WELL FOR P.B.U.
	2215		7667		39	
	2230		7798		30	
	2300	1	7867		25	
	2330		7915		20	
13.9.89	0000	2	7950		16	
	0200	4	7964		9	
	0600	8	7977		5	
	1000	12	7998		20	
	1400	16	8005		24	
	1800	20	8012		18	COMMENCE 1 ST ISOCORONAL RATE.
	1815		5957		47	
	1830		5950		47	
	1845		5957		48	
	1900		5964	0	48	

DARALINGIE 20

Date: 13 SEPT 89

Page 2 of 3.

Well-Head Data for Final Build-up

Date	Time	Hours shut-in Time	Wellhead P.S.I.G.	Casing P.S.I.G.	Wellhead Temp.	Remarks
13/9/89	1915		5964	0	50	
	1930		5964	↑	50	
	1945		5964		50	
	2000		5964		50	
	2000	0				S.I. WELL FOR P.B.U.
	2015		7984		39	
	2030		7998		29	
	2045		8012		22	
	2100	1	8019		18	
	2115		8019		16	
	2130		8019		15	
	2145		8019		13	
	2200	2	8019		12	COMMENCE 2 nd ISOCHRONAL RATE.
	2215		4254		49	
	2230		4240		50	
	2245		4240		50	
	2300		4227		51	
	2315		4227		51	
	2330		4220		51	
	2345		4220		52	
14/9/89	0000		4220		52	
	0000	0				S.I. WELL FOR P.B.U.
	0015		7977		43	
	0030		7991		26	
	0045		8005		15	
	0100	1	8012		14	
	0115		8012		14	
	0130		8019		13	
	0145		8019		13	
	0200	2	8019		12	COMMENCE 3 rd ISOCHRONAL RATE.
	0215		3241		50	
	0230		3227		51	
	0245		3220		51	
	0300		3220		51	
	0315		3213		52	
	0330		3213		52	
	0345		3213	✓	53	
	0400	0	3213	0	53	S.I. WELL FOR P.B.U.

ISO - CHRONAL AND BUILD-UP SURVEY CONTINUATION

well:.....DARALINGIE 20

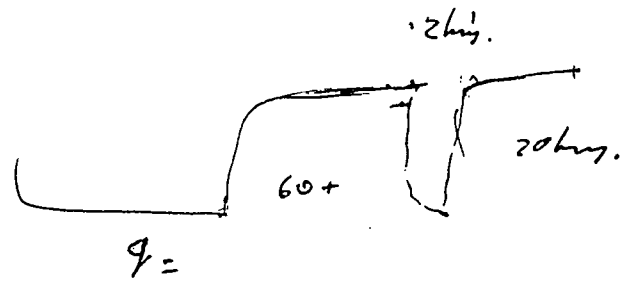
Date: SEPT 14, 1989

PAGE 3 of 3.

[illegible]

COMPANY: OILSERV AUSTRALIA PTY LTD
CLIENT: SANTOS LTD
GAUGE NUMBER: 56652
WELL NAME: DARALINGIE # 20
WELL NUMBER:
TEST NUMBER: 1
LOCATION: COOPER BASIN
TEST OPERATOR: P. ALDRICH
COMMENTS: EXTENDED FLOW AND BUILD-UP
WITH TRANSIENT FLOW AND B-UP.

GEORGE 000036
TOPOLINSKI.



Boysenli # 3
Zochales # 40
Mad is program.
known.

POSITION	GAUGE SERIAL NUMBER
1	56652
2	74442
3	56027
4	74442

PAGE START DATE: 9/ 9/89

GAUGE S/N: 56652

DATA FILE: 1

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:27:42	0.0000		82.59	IN LUBRICATOR
9:27:46	0.0011	25.09		
9:28:51	0.0192		82.64	
9:28:47	0.0181	25.74		
9:29:42	0.0333		82.70	
9:29:50	0.0356	149.08		
9:30:44	0.0506		85.58	
9:30:51	0.0525	737.29		
9:31:45	0.0675		87.40	
9:31:51	0.0692	736.53		
9:32:46	0.0844		87.45	
9:32:53	0.0864	735.23		
9:33:58	0.1044		87.47	
9:33:54	0.1033	734.54		
9:34:49	0.1186		87.47	
9:34:55	0.1203	734.43		
9:35:49	0.1353		87.51	
9:35:57	0.1375	734.09		
9:36:50	0.1522		87.53	
9:36:58	0.1544	733.87		
9:37:53	0.1697		87.55	
9:37:58	0.1711	733.94		
9:39: 3	0.1892		87.55	
9:38:59	0.1881	733.91		
9:39:55	0.2036		87.57	
9:40: 2	0.2056	734.34		
9:40:56	0.2206		87.55	
9:41: 2	0.2222	734.87		
9:41:56	0.2372		87.57	
9:42: 4	0.2394	737.35		
9:42:59	0.2547		87.59	
9:43: 5	0.2564	742.66		
9:44:10	0.2744		87.62	
9:44: 5	0.2731	748.25		
9:45: 0	0.2883		87.66	
9:45: 8	0.2906	753.58		
9:46: 1	0.3053		87.73	
9:46: 9	0.3075	758.66		
9:47: 3	0.3225		87.76	
9:47: 9	0.3242	763.21		
9:48: 4	0.3394		87.85	
9:48:10	0.3411	767.49		
9:49:16	0.3594		87.94	
9:49:11	0.3581	771.43		
9:50: 6	0.3733		88.01	
9:50:13	0.3753	775.21		
9:51: 8	0.3906		88.06	
9:51:15	0.3925	778.62		
9:52: 8	0.4072		88.12	
9:52:16	0.4094	781.99		

PAGE START DATE: 9/ 9/89

GAUGE S/N: 56652

DATA FILE: 1

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:53:11	0.4247		88.22	
9:53:16	0.4261	780.23		
9:54:21	0.4442		88.25	
9:54:17	0.4431	777.11		
9:55:13	0.4586		88.27	
9:55:20	0.4606	775.16		
9:56:14	0.4756		88.32	
9:56:20	0.4772	773.86		
9:57:14	0.4922		88.42	
9:57:21	0.4942	772.71		
9:58:17	0.5097		88.50	
9:58:23	0.5114	771.70		
9:59:28	0.5294		88.59	
9:59:23	0.5281	770.96		
10: 0:18	0.5433		88.67	
10: 0:26	0.5456	770.28		
10: 1:19	0.5603		88.75	
10: 1:26	0.5622	769.71		
10: 2:21	0.5775		88.81	
10: 2:27	0.5792	769.11		
10: 3:22	0.5944		88.83	
10: 3:28	0.5961	768.57		
10: 4:34	0.6144		88.89	
10: 4:30	0.6133	767.95		
10: 5:24	0.6283		88.92	
10: 5:31	0.6303	767.47		
10: 6:25	0.6453		88.95	
10: 6:33	0.6475	767.06		
10: 7:26	0.6622		89.01	
10: 7:34	0.6644	766.68		
10: 8:29	0.6797		89.06	
10: 8:34	0.6811	766.19		
10: 9:39	0.6992		89.13	
10: 9:35	0.6981	765.64		
10:10:30	0.7133		89.17	
10:10:38	0.7156	764.51		
10:11:32	0.7306		89.21	
10:11:38	0.7322	763.09		
10:12:32	0.7472		89.20	
10:12:39	0.7492	761.73		
10:13:35	0.7647		89.18	
10:13:41	0.7664	760.84		
10:14:45	0.7842		89.21	
10:14:41	0.7831	760.55		
10:15:36	0.7983		89.24	
10:15:44	0.8006	759.76		
10:16:37	0.8153		89.27	
10:16:44	0.8172	758.87		
10:17:39	0.8325		89.29	
10:17:45	0.8342	757.86		

PAGE START DATE: 9/ 9/89

GAUGE S/N: 56652

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DATA FILE: 1

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
10:18:40	0.8494		89.31	
10:18:46	0.8511	757.52		
10:19:51	0.8692		89.35	
10:19:48	0.8683	757.39		
10:20:43	0.8836		89.36	
10:20:49	0.8853	757.16		
10:21:43	0.9003		89.41	
10:21:50	0.9022	756.88		
10:22:44	0.9172		89.45	
10:22:51	0.9192	756.67		
10:23:46	0.9344		89.48	
10:23:52	0.9361	756.20		
10:24:57	0.9542		89.47	
10:24:53	0.9531	755.41		
10:25:48	0.9683		89.46	
10:25:55	0.9703	755.00		
10:26:50	0.9856		89.43	
10:26:56	0.9872	754.29		
10:27:50	1.0022		89.42	
10:27:57	1.0042	753.98		
10:28:53	1.0197		89.34	
10:28:59	1.0214	753.76		
10:30: 4	1.0394		89.32	
10:29:59	1.0381	753.82		
10:30:54	1.0533		89.30	
10:31: 1	1.0553	753.68		
10:31:55	1.0703		89.26	
10:32: 3	1.0725	753.60		
12: 3:10	2.5911		230.02	
12: 3:17	2.5931	987.94		
12: 4:11	2.6081		230.02	
12: 4:18	2.6100	987.91		
12: 5:12	2.6250		230.03	
12: 5:19	2.6269	987.94		
12: 6:13	2.6419		230.04	
12: 6:21	2.6442	988.02		
12: 7:16	2.6594		230.05	
12: 7:21	2.6608	988.15		
12: 8:16	2.6761		230.06	
12: 8:22	2.6778	988.23		
12: 9:17	2.6931		230.07	
12: 9:25	2.6953	988.28		
12:10:19	2.7103		230.09	
12:10:25	2.7119	988.39		
12:11:19	2.7269		230.08	
12:11:26	2.7289	988.45		
12:12:21	2.7442		230.09	
12:12:28	2.7461	988.63		
12:13:23	2.7614		230.10	
12:13:29	2.7631	988.74		

PAGE START DATE: 9/ 9/89

GAUGE S/N: 56652

DATA FILE: 1

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
12:14:23	2.7781		230.10	
12:14:30	2.7800	988.76		
12:15:24	2.7950		230.11	
12:15:31	2.7969	988.72		
12:16:26	2.8122		230.11	
12:16:32	2.8139	988.75		
12:17:28	2.8294		230.11	
12:17:33	2.8308	988.83		
12:18:28	2.8461		230.10	
12:18:35	2.8481	988.88		
12:19:30	2.8633		230.11	
12:19:36	2.8650	988.93		
12:20:30	2.8800		230.10	
12:20:37	2.8819	988.94		
12:21:31	2.8969		230.10	
12:21:39	2.8992	988.93		
12:22:34	2.9144		230.08	
12:22:39	2.9158	988.89		
12:23:34	2.9311		230.10	
12:23:40	2.9328	989.03		
12:24:35	2.9481		230.11	
12:24:43	2.9503	988.99		
12:25:37	2.9653		230.12	
12:25:43	2.9669	988.99		
12:26:38	2.9822		230.12	
12:26:44	2.9839	989.03		
12:27:39	2.9992		230.13	
12:27:46	3.0011	989.07		
12:28:41	3.0164		230.12	
12:28:46	3.0178	989.07		
12:29:41	3.0331		230.12	
12:29:48	3.0350	989.06		
12:30:42	3.0500		230.12	
12:30:50	3.0522	989.03		
12:31:44	3.0672		230.12	
12:31:50	3.0689	989.05		
12:32:45	3.0842		230.13	
12:32:51	3.0858	988.98		
12:33:46	3.1011		230.13	
12:33:53	3.1031	988.93		
12:34:48	3.1183		230.13	
12:34:54	3.1200	988.89		
12:35:49	3.1353		230.14	
12:35:55	3.1369	988.86		
12:36:49	3.1519		230.15	
12:36:57	3.1542	988.81		
12:37:51	3.1692		230.15	
12:37:58	3.1711	988.82		
12:38:52	3.1861		230.15	
12:38:58	3.1878	988.82		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
12:39:53	3.2031		230.15	
12:40: 1	3.2053	988.67		
12:40:55	3.2203		230.15	
12:41: 1	3.2219	988.59		
12:41:56	3.2372		230.16	
12:42: 2	3.2389	988.48		
12:42:57	3.2542		230.16	
12:43: 4	3.2561	988.40		
12:43:59	3.2714		230.17	
12:44: 5	3.2731	988.32		
12:45: 0	3.2883		230.16	
12:45: 6	3.2900	988.22		
12:45:60	3.3050		230.16	
12:46: 8	3.3072	988.14		
12:47: 2	3.3222		230.15	
12:47: 9	3.3242	988.01		
12:48: 3	3.3392		230.15	
12:48: 9	3.3408	987.88		
12:49: 4	3.3561		230.15	
12:49:11	3.3581	987.73		
12:50: 6	3.3733		230.13	
12:50:12	3.3750	987.49		
12:51: 7	3.3903		230.12	
12:51:13	3.3919	987.42		
12:52: 8	3.4072		230.15	
12:52:15	3.4092	987.38		
12:53:10	3.4244		230.15	
12:53:16	3.4261	987.31		
12:54:10	3.4411		230.16	
12:54:16	3.4428	987.29		
12:55:11	3.4581		230.16	
12:55:19	3.4603	987.23		
12:56:13	3.4753		230.17	
12:56:19	3.4769	987.15		
12:57:14	3.4922		230.17	
12:57:20	3.4939	987.06		
12:58:15	3.5092		230.17	
12:58:22	3.5111	987.04		
12:59:17	3.5264		230.17	
12:59:23	3.5281	987.02		
13: 0:18	3.5433		230.18	
13: 0:24	3.5450	986.95		
13: 1:18	3.5600		230.18	
13: 1:26	3.5622	987.00		
13: 2:20	3.5772		230.19	
13: 2:26	3.5789	987.01		
13: 3:21	3.5942		230.18	
13: 3:27	3.5958	987.03		
13: 4:22	3.6111		230.19	
13: 4:29	3.6131	986.98		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
13: 5:24	3.6283		230.19	
13: 5:30	3.6300	986.99		
13: 6:25	3.6453		230.20	
13: 6:31	3.6469	987.01		
13: 7:25	3.6619		230.20	
13: 7:33	3.6642	986.99		
13: 8:28	3.6794		230.20	
13: 8:34	3.6811	986.99		
13: 9:29	3.6964		230.21	
13: 9:34	3.6978	987.01		
13:10:29	3.7131		230.21	
13:10:37	3.7153	987.03		
13:11:31	3.7303		230.21	
13:11:38	3.7322	987.03		
13:12:31	3.7469		230.22	
13:12:38	3.7489	987.03		
13:13:33	3.7642		230.22	
13:13:40	3.7661	987.00		
13:14:35	3.7814		230.21	
13:14:40	3.7828	986.98		
13:15:35	3.7981		230.22	
13:15:42	3.8000	986.96		
13:16:36	3.8150		230.22	
13:16:44	3.8172	987.03		
13:17:38	3.8322		230.22	
13:17:45	3.8342	987.01		
13:18:40	3.8494		230.22	
13:18:45	3.8508	987.03		
13:19:40	3.8661		230.21	
13:19:46	3.8678	987.01		
13:20:42	3.8833		230.20	
13:20:49	3.8853	986.97		
13:21:43	3.9003		230.20	
13:21:49	3.9019	987.00		
13:22:43	3.9169		230.16	
13:22:51	3.9192	986.88		
13:23:46	3.9344		230.20	
13:23:51	3.9358	987.07		
13:24:46	3.9511		230.21	
13:24:52	3.9528	986.99		
13:25:47	3.9681		230.21	
13:25:55	3.9703	986.90		
13:26:49	3.9853		230.22	
13:26:55	3.9869	986.92		
13:27:49	4.0019		230.22	
13:27:56	4.0039	986.88		
13:28:51	4.0192		230.22	
13:28:58	4.0211	986.85		
13:29:53	4.0364		230.22	
13:29:59	4.0381	986.87		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
13:30:54	4.0533		230.23	
13:30:60	4.0550	986.83		
13:31:54	4.0700		230.23	
13:32: 2	4.0722	986.81		
13:32:55	4.0869		230.22	
13:33: 3	4.0892	986.79		
13:33:58	4.1044		230.23	
13:34: 3	4.1058	986.73		
13:34:58	4.1211		230.23	
13:35: 4	4.1228	986.69		
13:35:60	4.1383		230.23	
13:36: 6	4.1400	986.67		
13:36:60	4.1550		230.24	
13:37: 7	4.1569	986.62		
13:38: 1	4.1719		230.24	
13:38: 9	4.1742	986.64		
13:39: 4	4.1894		230.24	
13:39: 9	4.1908	986.63		
13:40: 5	4.2064		230.25	
13:40:10	4.2078	986.67		
13:41: 5	4.2231		230.24	
13:41:13	4.2253	986.62		
13:42: 6	4.2400		230.25	
13:42:14	4.2422	986.60		
13:43: 8	4.2572		230.26	
13:43:14	4.2589	986.48		
13:44: 9	4.2742		230.26	
13:44:15	4.2758	986.53		
13:45:11	4.2914		230.26	
13:45:17	4.2931	986.52		
13:46:11	4.3081		230.27	
13:46:18	4.3100	986.41		
13:47:12	4.3250		230.27	
13:47:20	4.3272	986.39		
13:48:13	4.3419		230.27	
13:48:20	4.3439	986.37		
13:49:15	4.3592		230.27	
13:49:21	4.3608	986.31		
13:50:16	4.3761		230.27	
13:50:22	4.3778	986.26		
13:51:17	4.3931		230.27	
13:51:25	4.3953	986.19		
13:52:19	4.4103		230.28	
13:52:25	4.4119	986.14		
13:53:19	4.4269		230.28	
13:53:26	4.4289	986.06		
13:54:22	4.4444		230.28	
13:54:28	4.4461	985.99		
13:55:23	4.4614		230.29	
13:55:28	4.4628	985.93		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
13:56:23	4.4781		230.28	
13:56:31	4.4803	985.95		
13:57:24	4.4950		230.28	
13:57:31	4.4969	985.87		
13:58:26	4.5122		230.28	
13:58:32	4.5139	985.80		
13:59:27	4.5292		230.28	
13:59:33	4.5308	985.72		
14: 0:29	4.5464		230.27	
14: 0:35	4.5481	985.68		
14: 1:30	4.5633		230.26	
14: 1:36	4.5650	985.58		
14: 2:30	4.5800		230.26	
14: 2:38	4.5822	985.53		
14: 3:31	4.5969		230.22	
14: 3:39	4.5992	985.52		
14: 4:34	4.6144		230.26	
14: 4:39	4.6158	985.50		
14: 5:34	4.6311		230.26	
14: 5:40	4.6328	985.37		
14: 6:35	4.6481		230.27	
14: 6:43	4.6503	985.43		
14: 7:37	4.6653		230.28	
14: 7:44	4.6672	985.45		
14: 8:38	4.6822		230.28	
14: 8:44	4.6839	985.35		
14: 9:40	4.6994		230.28	
14: 9:46	4.7011	985.30		
14:10:41	4.7164		230.28	
14:10:46	4.7178	985.33		
14:11:41	4.7331		230.28	
14:11:49	4.7353	985.30		
14:12:42	4.7500		230.29	
14:12:50	4.7522	985.29		
14:13:44	4.7672		230.29	
14:13:50	4.7689	985.23		
14:14:45	4.7842		230.29	
14:14:51	4.7858	985.22		
14:15:46	4.8011		230.29	
14:15:53	4.8031	985.25		
14:16:48	4.8183		230.29	
14:16:54	4.8200	985.23		
14:17:49	4.8353		230.30	
14:17:55	4.8369	985.18		
14:18:49	4.8519		230.29	
14:18:57	4.8542	985.16		
14:19:52	4.8694		230.29	
14:19:58	4.8711	985.10		
14:20:53	4.8864		230.30	
14:20:58	4.8878	985.16		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
14:21:53	4.9031		230.30	
14:22: 1	4.9053	985.19		
14:22:55	4.9203		230.30	
14:23: 1	4.9219	985.18		
14:23:56	4.9372		230.31	
14:24: 2	4.9389	985.20		
14:24:57	4.9542		230.31	
14:25: 4	4.9561	985.16		
14:25:59	4.9714		230.31	
14:26: 5	4.9731	985.15		
14:26:59	4.9881		230.32	
14:27: 6	4.9900	985.18		
14:27:60	5.0050		230.33	
14:28: 8	5.0072	985.18		
14:29: 2	5.0222		230.33	
14:29: 9	5.0242	985.20		
14:30: 4	5.0394		230.33	
14:30: 9	5.0408	985.13		
14:31: 4	5.0561		230.33	
14:31:11	5.0581	985.12		
14:32: 6	5.0733		230.33	
14:32:13	5.0753	985.09		
14:33: 6	5.0900		230.33	
14:33:13	5.0919	985.08		
14:34: 7	5.1069		230.33	
14:34:15	5.1092	985.11		
14:35:10	5.1244		230.33	
14:35:15	5.1258	985.14		
14:36:10	5.1411		230.33	
14:36:16	5.1428	985.11		
14:37:11	5.1581		230.33	
14:37:19	5.1603	985.13		
14:38:13	5.1753		230.33	
14:38:19	5.1769	985.15		
14:39:14	5.1922		230.33	
14:39:20	5.1939	985.19		
14:40:15	5.2092		230.33	
14:40:22	5.2111	985.12		
14:41:17	5.2264		230.33	
14:41:23	5.2281	985.16		
14:42:18	5.2433		230.33	
14:42:24	5.2450	985.21		
14:43:18	5.2600		230.32	
14:43:26	5.2622	985.10		
14:44:20	5.2772		230.31	
14:44:26	5.2789	985.00		
14:45:21	5.2942		230.29	
14:45:27	5.2958	984.91		
14:46:22	5.3111		230.27	
14:46:29	5.3131	985.01		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
14:47:24	5.3283		230.31	
14:47:30	5.3300	985.05		
14:48:25	5.3453		230.31	
14:48:31	5.3469	985.04		
14:49:25	5.3619		230.32	
14:49:33	5.3642	985.02		
14:50:28	5.3794		230.31	
14:50:34	5.3811	984.98		
14:51:29	5.3964		230.31	
14:51:34	5.3978	984.98		
14:52:29	5.4131		230.31	
14:52:37	5.4153	985.00		
14:53:31	5.4303		230.32	
14:53:38	5.4322	985.08		
14:54:32	5.4472		230.32	
14:54:38	5.4489	985.05		
14:55:33	5.4642		230.32	
14:55:40	5.4661	985.12		
14:56:35	5.4814		230.32	
14:56:41	5.4831	985.21		
14:57:36	5.4983		230.33	
14:57:42	5.5000	985.13		
14:58:36	5.5150		230.33	
14:58:44	5.5172	985.10		
14:59:38	5.5322		230.33	
14:59:45	5.5342	985.08		
15: 0:39	5.5492		230.33	
15: 0:45	5.5508	985.15		
15: 1:40	5.5661		230.33	
15: 1:47	5.5681	985.15		
15: 2:42	5.5833		230.33	
15: 2:48	5.5850	985.15		
15: 3:43	5.6003		230.34	
15: 3:49	5.6019	985.19		
15: 4:43	5.6169		230.33	
15: 4:51	5.6192	985.15		
15: 5:46	5.6344		230.34	
15: 5:51	5.6358	985.18		
15: 6:46	5.6511		230.34	
15: 6:53	5.6531	985.21		
15: 7:47	5.6681		230.34	
15: 7:55	5.6703	985.20		
15: 8:49	5.6853		230.34	
15: 8:56	5.6872	985.16		
15: 9:50	5.7022		230.34	
15: 9:56	5.7039	985.22		
15:10:51	5.7192		230.34	
15:10:58	5.7211	985.20		
15:11:53	5.7364		230.34	
15:11:59	5.7381	985.17		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
15:12:54	5.7533		230.34	
15:12:60	5.7550	985.17		
15:13:54	5.7700		230.35	
15:14: 2	5.7722	985.11		
15:14:56	5.7872		230.35	
15:15: 3	5.7892	985.09		
15:15:57	5.8042		230.35	
15:16: 3	5.8058	985.13		
15:16:58	5.8211		230.35	
15:17: 5	5.8231	985.16		
15:18: 0	5.8383		230.35	
15:18: 6	5.8400	985.09		
15:19: 1	5.8553		230.35	
15:19: 7	5.8569	985.06		
15:20: 1	5.8719		230.35	
15:20: 9	5.8742	985.00		
15:21: 4	5.8894		230.35	
15:21:10	5.8911	984.98		
15:22: 5	5.9064		230.35	
15:22:10	5.9078	984.98		
15:23: 5	5.9231		230.35	
15:23:13	5.9253	984.97		
15:24: 7	5.9403		230.36	
15:24:14	5.9422	985.04		
15:25: 8	5.9572		230.37	
15:25:14	5.9589	984.96		
15:26: 9	5.9742		230.37	
15:26:16	5.9761	984.96		
15:27:11	5.9914		230.38	
15:27:16	5.9928	984.98		
15:28:11	6.0081		230.37	
15:28:18	6.0100	985.07		
15:29:13	6.0253		230.38	
15:29:20	6.0272	985.05		
15:30:13	6.0419		230.38	
15:30:21	6.0442	984.98		
15:31:16	6.0594		230.38	
15:31:21	6.0608	985.06		
15:32:16	6.0761		230.38	
15:32:22	6.0778	985.05		
15:33:18	6.0933		230.38	
15:33:25	6.0953	985.01		
15:34:19	6.1103		230.38	
15:34:25	6.1119	985.06		
15:35:19	6.1269		230.38	
15:35:27	6.1292	985.07		
15:36:22	6.1444		230.38	
15:36:28	6.1461	985.12		
15:37:23	6.1614		230.37	
15:37:28	6.1628	985.16		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
15:38:23	6.1781		230.38	
15:38:31	6.1803	985.15		
15:39:25	6.1953		230.38	
15:39:31	6.1969	985.14		
15:40:26	6.2122		230.38	
15:40:33	6.2142	985.16		
15:41:27	6.2292		230.37	
15:41:33	6.2308	985.12		
15:42:29	6.2464		230.36	
15:42:35	6.2481	985.17		
15:43:30	6.2633		230.36	
15:43:36	6.2650	985.10		
15:44:30	6.2800		230.35	
15:44:38	6.2822	985.12		
15:45:31	6.2969		230.33	
15:45:39	6.2992	985.16		
15:46:34	6.3144		230.34	
15:46:39	6.3158	985.19		
15:47:34	6.3311		230.36	
15:47:40	6.3328	985.23		
15:48:36	6.3483		230.36	
15:48:43	6.3503	985.26		
15:49:36	6.3650		230.36	
15:49:43	6.3669	985.20		
15:50:37	6.3819		230.36	
15:50:45	6.3842	985.22		
15:51:40	6.3994		230.36	
15:51:46	6.4011	985.10		
15:52:41	6.4164		230.36	
15:52:46	6.4178	985.09		
15:53:41	6.4331		230.37	
15:53:49	6.4353	985.12		
16:17:26	6.8289		230.37	
16:17:32	6.8306	985.26		
16:18:28	6.8461		230.37	
16:18:35	6.8481	985.26		
16:19:29	6.8631		230.38	
16:19:35	6.8647	985.27		
16:20:29	6.8797		230.37	
16:20:37	6.8819	985.30		
16:21:32	6.8972		230.38	
16:21:38	6.8989	985.21		
16:22:33	6.9142		230.37	
16:22:38	6.9156	985.23		
16:23:33	6.9308		230.38	
16:23:41	6.9331	985.27		
16:24:35	6.9481		230.37	
16:24:41	6.9497	985.30		
16:25:35	6.9647		230.38	
16:25:42	6.9667	985.21		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
16:26:37	6.9819		230.38	
16:26:44	6.9839	985.25		
16:27:39	6.9992		230.38	
16:27:44	7.0006	985.24		
16:28:39	7.0158		230.38	
16:28:46	7.0178	985.28		
16:29:40	7.0328		230.38	
16:29:48	7.0350	985.26		
16:30:41	7.0497		230.39	
16:30:49	7.0519	985.21		
16:31:44	7.0672		230.39	
16:31:49	7.0686	985.22		
16:32:44	7.0839		230.39	
16:32:50	7.0856	985.24		
16:33:46	7.1011		230.40	
16:33:53	7.1031	985.19		
16:34:46	7.1178		230.39	
16:34:53	7.1197	985.10		
16:35:47	7.1347		230.41	
16:35:55	7.1369	985.07		
16:36:50	7.1522		230.40	
16:36:55	7.1536	985.08		
16:37:50	7.1689		230.40	
16:37:56	7.1706	984.98		
16:38:51	7.1858		230.40	
16:38:59	7.1881	984.89		
16:39:52	7.2028		230.41	
16:40: 0	7.2050	984.86		
16:40:54	7.2200		230.40	
16:41: 0	7.2217	984.79		
16:41:55	7.2369		230.41	
16:42: 1	7.2386	984.80		
16:42:57	7.2542		230.41	
16:43: 3	7.2558	984.76		
16:43:58	7.2711		230.41	
16:44: 4	7.2728	984.74		
16:44:58	7.2878		230.41	
16:45: 6	7.2900	984.77		
16:45:59	7.3047		230.41	
16:46: 6	7.3067	984.74		
16:47: 1	7.3219		230.41	
16:47: 7	7.3236	984.66		
16:48: 2	7.3389		230.41	
16:48: 8	7.3406	984.70		
16:49: 3	7.3558		230.41	
16:49:10	7.3578	984.74		
16:50: 4	7.3728		230.41	
16:50:11	7.3747	984.77		
16:51: 5	7.3897		230.41	
16:51:12	7.3917	984.80		

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DATA FILE: 2

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
16:52: 8	7.4072		230.41	
16:52:14	7.4089	984.64		
16:53: 9	7.4242		230.41	
16:53:14	7.4256	984.64		
16:54: 9	7.4408		230.40	
16:54:17	7.4431	984.62		
16:55:10	7.4578		230.41	
16:55:18	7.4600	984.59		
16:56:12	7.4750		230.39	
16:56:18	7.4767	984.50		
16:57:13	7.4919		230.39	
16:57:19	7.4936	984.46		
16:58:15	7.5092		230.39	
16:58:21	7.5108	984.49		
16:59:15	7.5258		230.38	
16:59:22	7.5278	984.47		
17: 0:16	7.5428		230.36	
17: 0:24	7.5450	984.43		
17: 1:17	7.5597		230.36	
17: 1:25	7.5619	984.49		
17: 2:20	7.5772		230.39	
17: 2:25	7.5786	984.60		
17: 3:20	7.5939		230.39	
17: 3:26	7.5956	984.57		
17: 4:21	7.6108		230.39	
17: 4:29	7.6131	984.56		
17: 5:23	7.6281		230.40	
17: 5:29	7.6297	984.51		
17: 6:24	7.6450		230.39	
17: 6:30	7.6467	984.50		
17: 7:26	7.6622		230.40	
17: 7:32	7.6639	984.57		
17: 8:27	7.6792		230.40	
17: 8:33	7.6808	984.64		
17: 9:28	7.6961		230.40	
17: 9:35	7.6981	984.80		
17:10:28	7.7128		230.40	
17:10:36	7.7150	984.84		
17:11:30	7.7300		230.40	
17:11:36	7.7317	984.95		
17:12:31	7.7469		230.40	
17:12:37	7.7486	985.04		
17:13:32	7.7639		230.40	
17:13:39	7.7658	985.07		
17:14:34	7.7811		230.40	
17:14:40	7.7828	985.09		
17:15:34	7.7978		230.40	
17:15:41	7.7997	985.25		
17:16:35	7.8147		230.40	
17:16:43	7.8169	985.28		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
17:17:38	7.8322		230.40	
17:17:44	7.8339	985.40		
17:18:39	7.8492		230.40	
17:18:44	7.8506	985.47		
17:19:39	7.8658		230.41	
17:19:47	7.8681	985.49		
17:20:41	7.8831		230.40	
17:20:48	7.8850	985.65		
17:21:42	7.9000		230.40	
17:21:48	7.9017	985.73		
17:22:43	7.9169		230.41	
17:22:50	7.9189	985.80		
17:23:45	7.9342		230.41	
17:23:51	7.9358	985.85		
17:24:45	7.9508		230.40	
17:24:52	7.9528	985.82		
17:25:46	7.9678		230.41	
17:25:54	7.9700	985.89		
17:26:48	7.9850		230.42	
17:26:54	7.9867	986.03		
17:27:49	8.0019		230.41	
17:27:55	8.0036	986.04		
17:28:50	8.0189		230.41	
17:28:57	8.0208	986.11		
17:29:52	8.0361		230.40	
17:29:59	8.0381	986.20		
17:30:53	8.0531		230.41	
17:30:59	8.0547	986.33		
17:31:53	8.0697		230.41	
17:32: 1	8.0719	986.63		
17:32:56	8.0872		230.41	
17:33: 1	8.0886	986.85		
17:33:56	8.1039		230.41	
17:34: 2	8.1056	987.03		
17:34:57	8.1208		230.41	
17:35: 5	8.1231	987.04		
17:35:59	8.1381		230.41	
17:36: 5	8.1397	987.20		
17:37: 0	8.1550		230.42	
17:37: 6	8.1567	987.29		
17:38: 1	8.1719		230.41	
17:38: 8	8.1739	987.37		
17:39: 3	8.1892		230.41	
17:39: 9	8.1908	987.51		
17:40: 4	8.2061		230.42	
17:40:10	8.2078	987.55		
17:41: 4	8.2228		230.41	
17:41:12	8.2250	987.56		
17:42: 6	8.2400		230.41	
17:42:13	8.2419	987.69		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
17:43: 8	8.2572		230.41	
17:43:13	8.2586	987.84		
17:44: 8	8.2739		230.41	
17:44:15	8.2758	987.82		
17:45:10	8.2911		230.41	
17:45:16	8.2928	987.84		
17:46:11	8.3081		230.42	
17:46:17	8.3097	987.87		
17:47:11	8.3247		230.41	
17:47:19	8.3269	987.96		
17:48:14	8.3422		230.41	
17:48:20	8.3439	987.99		
17:49:14	8.3589		230.41	
17:49:20	8.3606	988.00		
17:50:15	8.3758		230.41	
17:50:23	8.3781	988.02		
17:51:17	8.3931		230.41	
17:51:24	8.3950	988.08		
17:52:18	8.4100		230.42	
17:52:24	8.4117	988.25		
17:53:19	8.4269		230.42	
17:53:26	8.4289	988.29		
17:54:21	8.4442		230.42	
17:54:27	8.4458	988.32		
17:55:22	8.4611		230.41	
17:55:28	8.4628	988.31		
17:56:22	8.4778		230.41	
17:56:30	8.4800	988.32		
17:57:24	8.4950		230.42	
17:57:31	8.4969	988.38		
17:58:25	8.5119		230.41	
17:58:31	8.5136	988.39		
17:59:26	8.5289		230.41	
17:59:33	8.5308	988.24		
18: 0:11	8.5414		230.00	
18: 0:14	8.5422	988.00		
18: 0:25	8.5453		230.42	
18: 0:21	8.5442	988.01		
18: 0:25	8.5453		230.42	
18: 0:29	8.5464	987.87		
18: 0:33	8.5475		230.42	
18: 0:36	8.5483	987.81		
18: 0:39	8.5492		230.41	
18: 0:44	8.5506	988.13		
18: 0:48	8.5517		230.42	
18: 0:50 ⁴⁷	8.5522	992.55		
18: 1: 1	8.5553		230.43	SHUT-IN
18: 0:58	8.5544	1008.62		
18: 1: 1	8.5553		230.43	
18: 1: 5	8.5564	1031.70		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18: 1: 9	8.5575		230.50	
18: 1:13	8.5586	1054.87		
18: 1:15	8.5592		230.60	
18: 1:19	8.5603	1075.30		
18: 1:24	8.5617		230.72	
18: 1:27	8.5625	1094.39		
18: 1:38	8.5656		230.95	
18: 1:34	8.5644	1111.72		
18: 1:38	8.5656		230.95	
18: 1:42	8.5667	1128.39		
18: 1:44	8.5672		231.06	
18: 1:49	8.5686	1143.35		
18: 1:52	8.5694		231.13	
18: 1:55	8.5703	1156.07		
18: 1:59	8.5714		231.18	
18: 2: 3	8.5725	1167.63		
18: 2:14	8.5756		231.23	
18: 2: 9	8.5742	1177.80		
18: 2:14	8.5756		231.23	
18: 2:18	8.5767	1187.29		
18: 2:20	8.5772		231.23	
18: 2:24	8.5783	1195.45		
18: 2:28	8.5794		231.22	
18: 2:32	8.5806	1202.13		
18: 2:35	8.5814		231.19	
18: 2:38	8.5822	1207.98		
18: 2:49	8.5853		231.11	
18: 2:45	8.5842	1213.03		
18: 2:49	8.5853		231.11	
18: 2:53	8.5864	1217.75		
18: 2:57	8.5875		231.06	
18: 2:60	8.5883	1221.63		
18: 3: 8	8.5906		231.00	
18: 2:60	8.5883	1221.63		
18: 3: 8	8.5906		231.00	
18: 3:17	8.5931	1227.30		
18: 3:24	8.5950		230.85	
18: 3:22	8.5944	1231.42		
18: 3:29	8.5964		230.81	
18: 3:27	8.5958	1231.23		
18: 3:33	8.5975		230.76	
18: 3:37	8.5986	1233.68		
18: 3:41	8.5997		230.71	
18: 3:43	8.6003	1235.00		
18: 3:48	8.6017		230.65	
18: 3:51	8.6025	1236.37		
18: 3:54	8.6033		230.60	
18: 3:58	8.6044	1237.50		
18: 4: 2	8.6056		230.54	
18: 4: 6	8.6067	1238.42		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18: 4: 8	8.6072		230.49	
18: 4:13	8.6086	1239.19		
18: 4:16	8.6094		230.44	
18: 4:19	8.6103	1239.76		
18: 4:23	8.6114		230.39	
18: 4:26	8.6122	1240.35		
18: 4:31	8.6136		230.35	
18: 4:34	8.6144	1240.84		
18: 4:37	8.6153		230.30	
18: 4:41	8.6164	1241.28		
18: 4:44	8.6172		230.25	
18: 4:48	8.6183	1241.61		
18: 4:52	8.6194		230.21	
18: 4:56	8.6206	1241.85		
18: 4:59	8.6214		230.17	
18: 5: 2	8.6222	1242.16		
18: 5: 6	8.6233		230.12	
18: 5:11	8.6247	1242.44		
18: 5:13	8.6253		230.08	
18: 5:17	8.6264	1242.69		
18: 5:21	8.6275		230.04	
18: 5:24	8.6283	1242.89		
18: 5:28	8.6294		230.00	
18: 5:31	8.6303	1243.11		
18: 5:36	8.6317		229.96	
18: 5:38	8.6322	1243.28		
18: 5:42	8.6333		229.92	
18: 5:46	8.6344	1243.46		
18: 5:50	8.6356		229.88	
18: 5:53	8.6364	1243.61		
18: 5:56	8.6372		229.84	
18: 6: 1	8.6386	1243.80		
18: 6: 8	8.6406		229.79	
18: 6: 1	8.6386	1243.80		
18: 6: 8	8.6406		229.79	
18: 6:17	8.6431	1244.10		
18: 6:25	8.6453		229.68	
18: 6:22	8.6444	1244.26		
18: 6:30	8.6467		229.68	
18: 6:27	8.6458	1244.33		
18: 6:33	8.6475		229.66	
18: 6:37	8.6486	1244.66		
18: 6:41	8.6497		229.62	
18: 6:43	8.6503	1244.64		
18: 6:49	8.6517		229.59	
18: 6:51	8.6525	1244.77		
18: 6:55	8.6536		229.55	
18: 6:58	8.6544	1244.87		
18: 7: 1	8.6553		229.52	
18: 7: 6	8.6567	1245.04		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
18: 7: 8	8.6572		229.49	
18: 7:12	8.6583	1245.15		
18: 7:16	8.6594		229.46	
18: 7:20	8.6606	1245.26		
18: 7:23	8.6614		229.43	
18: 7:26	8.6622	1245.35		
18: 7:31	8.6636		229.40	
18: 7:35	8.6647	1245.45		
18: 7:37	8.6653		229.37	
18: 7:41	8.6664	1245.59		
18: 7:45	8.6675		229.35	
18: 7:48	8.6683	1245.68		
18: 7:52	8.6694		229.32	
18: 7:56	8.6706	1245.78		
18: 7:60	8.6717		229.29	
18: 8: 2	8.6722	1245.89		
18: 8: 6	8.6733		229.27	
18: 8:11	8.6747	1245.95		
18: 8:14	8.6756		229.24	
18: 8:17	8.6764	1246.07		
18: 8:21	8.6775		229.21	
18: 8:25	8.6786	1246.16		
18: 8:29	8.6797		229.19	
18: 8:31	8.6803	1246.26		
18: 8:36	8.6817		229.16	
18: 8:39	8.6825	1246.30		
18: 8:42	8.6833		229.14	
18: 8:46	8.6844	1246.41		
18: 8:50	8.6856		229.12	
18: 8:54	8.6867	1246.48		
18: 8:56	8.6872		229.09	
18: 9: 0	8.6883	1246.60		
18: 9: 7	8.6903		229.06	
18: 9: 0	8.6883	1246.60		
18: 9: 7	8.6903		229.06	
18: 9:17	8.6931	1246.74		
18: 9:21	8.6942		229.01	
18: 9:22	8.6944	1247.07		
18: 9:30	8.6967		229.00	
18: 9:27	8.6958	1246.71		
18: 9:35	8.6981		228.98	
18: 9:36	8.6983	1247.04		
18: 9:40	8.6994		228.95	
18: 9:44	8.7006	1247.02		
18: 9:47	8.7014		228.93	
18: 9:50	8.7022	1247.11		
18: 9:55	8.7036		228.91	
18: 9:59	8.7047	1247.17		
18:10: 1	8.7053		228.89	
18:10: 5	8.7064	1247.25		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:10:10	8.7078		228.88	
18:10:13	8.7086	1247.32		
18:10:16	8.7094		228.85	
18:10:20	8.7106	1247.35		
18:10:24	8.7117		228.83	
18:10:26	8.7122	1247.38		
18:10:30	8.7133		228.82	
18:10:35	8.7147	1247.46		
18:10:39	8.7158		228.79	
18:10:41	8.7164	1247.59		
18:10:45	8.7175		228.77	
18:10:49	8.7186	1247.62		
18:10:53	8.7197		228.76	
18:10:55	8.7203	1247.68		
18:11: 0	8.7217		228.74	
18:11: 3	8.7225	1247.72		
18:11: 6	8.7233		228.72	
18:11:10	8.7244	1247.77		
18:11:14	8.7256		228.70	
18:11:18	8.7267	1247.84		
18:11:21	8.7275		228.68	
18:11:24	8.7283	1247.83		
18:11:29	8.7297		228.66	
18:11:31	8.7303	1247.94		
18:11:35	8.7314		228.65	
18:11:39	8.7325	1247.99		
18:11:43	8.7336		228.63	
18:11:46	8.7344	1247.97		
18:11:50	8.7356		228.61	
18:11:54	8.7367	1248.08		
18:11:56	8.7372		228.60	
18:11:60	8.7383	1248.09		
18:12: 8	8.7406		228.57	
18:11:60	8.7383	1248.09		
18:12: 8	8.7406		228.57	
18:12:18	8.7433	1248.20		
18:12:24	8.7450		228.54	
18:12:21	8.7442	1248.71		
18:12:29	8.7464		228.53	
18:12:27	8.7458	1248.26		
18:12:34	8.7478		228.51	
18:12:37	8.7486	1248.33		
18:12:40	8.7494		228.50	
18:12:44	8.7506	1248.35		
18:12:48	8.7517		228.48	
18:12:50	8.7522	1248.33		
18:12:54	8.7533		228.47	
18:12:59	8.7547	1248.45		
18:13: 2	8.7556		228.45	
18:13: 5	8.7564	1248.57		

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DATA FILE: 3

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:13: 9	8.7575		228.44	
18:13:13	8.7586	1248.55		
18:13:17	8.7597		228.43	
18:13:19	8.7603	1248.60		
18:13:24	8.7617		228.41	
18:13:27	8.7625	1248.65		
18:13:30	8.7633		228.40	
18:13:34	8.7644	1248.67		
18:13:38	8.7656		228.39	
18:13:42	8.7667	1248.72		
18:13:44	8.7672		228.37	
18:13:48	8.7683	1248.75		
18:13:53	8.7697		228.36	
18:13:55	8.7703	1248.81		
18:13:59	8.7714		228.35	
18:14: 3	8.7725	1248.78		
18:14: 7	8.7736		228.34	
18:14:10	8.7744	1248.88		
18:14:13	8.7753		228.32	
18:14:18	8.7767	1248.88		
18:14:20	8.7772		228.31	
18:14:24	8.7783	1248.95		
18:14:28	8.7794		228.30	
18:14:32	8.7806	1249.00		
18:14:35	8.7814		228.29	
18:14:38	8.7822	1249.04		
18:14:43	8.7836		228.27	
18:14:47	8.7847	1249.06		
18:14:49	8.7853		228.27	
18:14:53	8.7864	1249.09		
18:14:57	8.7875		228.26	
18:15: 1	8.7886	1249.16		
18:15:53	8.8031		228.17	
18:15:57	8.8042	1249.59		
18:16:22	8.8111		228.12	
18:16:26	8.8122	1249.48		
18:16:51	8.8192		228.06	
18:16:56	8.8206	1249.46		
18:17:21	8.8275		228.01	
18:17:23	8.8281	1249.52		
18:17:50	8.8356		227.95	
18:17:53	8.8364	1249.50		
18:18:18	8.8433		227.91	
18:18:21	8.8442	1249.55		
18:18:46	8.8511		227.86	
18:18:51	8.8525	1249.62		
18:19:16	8.8594		227.81	
18:19:20	8.8606	1249.61		
18:19:45	8.8675		227.77	
18:19:47	8.8681	1249.67		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:20:14	8.8756		227.74	
18:20:16	8.8761	1249.67		
18:20:41	8.8831		227.71	
18:20:45	8.8842	1249.78		
18:21:10	8.8911		227.68	
18:21:15	8.8925	1249.72		
18:21:40	8.8994		227.64	
18:21:44	8.9006	1249.71		
18:22: 9	8.9075		227.60	
18:22:11	8.9081	1249.71		
18:22:38	8.9156		227.57	
18:22:40	8.9161	1249.68		
18:23: 5	8.9231		227.53	
18:23: 9	8.9242	1249.73		
18:23:34	8.9311		227.50	
18:23:39	8.9325	1249.72		
18:24: 4	8.9394		227.46	
18:24: 8	8.9406	1249.68		
18:24:33	8.9475		227.43	
18:24:35	8.9481	1249.68		
18:25: 2	8.9556		227.40	
18:25: 4	8.9561	1249.65		
18:25:29	8.9631		227.38	
18:25:33	8.9642	1249.64		
18:25:58	8.9711		227.35	
18:26: 3	8.9725	1249.59		
18:26:28	8.9794		227.31	
18:26:32	8.9806	1249.53		
18:26:56	8.9872		227.28	
18:26:59	8.9881	1249.57		
18:27:26	8.9956		227.26	
18:27:28	8.9961	1249.52		
18:27:53	9.0031		227.24	
18:27:57	9.0042	1249.59		
18:28:22	9.0111		227.21	
18:28:26	9.0122	1249.68		
18:28:51	9.0192		227.19	
18:28:55	9.0203	1249.70		
18:29:21	9.0275		227.16	
18:29:23	9.0281	1249.89		
18:29:50	9.0356		227.15	
18:29:52	9.0361	1249.88		
18:30:17	9.0431		227.12	
18:30:21	9.0442	1250.04		
18:30:46	9.0511		227.10	
18:30:51	9.0525	1250.12		
18:31:16	9.0594		227.08	
18:31:20	9.0606	1250.27		
18:31:45	9.0675		227.07	
18:31:47	9.0681	1250.31		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:32:14	9.0756		227.05	
18:32:16	9.0761	1250.43		
18:32:41	9.0831		227.03	
18:32:45	9.0842	1250.53		
18:33:10	9.0911		227.01	
18:33:15	9.0925	1250.61		
18:33:40	9.0994		226.99	
18:33:44	9.1006	1250.80		
18:34: 9	9.1075		226.97	
18:34:11	9.1081	1250.88		
18:34:38	9.1156		226.96	
18:34:40	9.1161	1250.97		
18:35: 5	9.1231		226.95	
18:35: 9	9.1242	1251.06		
18:35:34	9.1311		226.92	
18:35:39	9.1325	1251.16		
18:36: 3	9.1392		226.90	
18:36: 8	9.1406	1251.25		
18:36:33	9.1475		226.88	
18:36:35	9.1481	1251.34		
18:37: 2	9.1556		226.86	
18:37: 4	9.1561	1251.45		
18:37:29	9.1631		226.84	
18:37:33	9.1642	1251.43		
18:37:58	9.1711		226.82	
18:38: 3	9.1725	1251.53		
18:38:27	9.1792		226.80	
18:38:31	9.1803	1251.57		
18:38:56	9.1872		226.78	
18:38:59	9.1881	1252.00		
18:39:26	9.1956		226.77	
18:39:28	9.1961	1251.78		
18:39:53	9.2031		226.74	
18:39:57	9.2042	1251.82		
18:40:23	9.2114		226.73	
18:40:27	9.2125	1251.87		
18:40:51	9.2192		226.71	
18:40:56	9.2206	1252.05		
18:41:21	9.2275		226.69	
18:41:23	9.2281	1252.18		
18:41:50	9.2356		226.67	
18:41:52	9.2361	1252.33		
18:42:17	9.2431		226.65	
18:42:21	9.2442	1252.43		
18:42:46	9.2511		226.64	
18:42:50	9.2522	1252.56		
18:43:15	9.2592		226.61	
18:43:20	9.2606	1252.72		
18:43:45	9.2675		226.59	
18:43:47	9.2681	1252.89		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:44:14	9.2756		226.57	
18:44:16	9.2761	1252.97		
18:44:41	9.2831		226.55	
18:44:45	9.2842	1253.08		
18:45:10	9.2911		226.53	
18:45:14	9.2922	1253.21		
18:45:39	9.2992		226.52	
18:45:44	9.3006	1253.31		
18:46: 9	9.3075		226.50	
18:46:12	9.3083	1253.47		
18:46:38	9.3156		226.48	
18:46:40	9.3161	1253.54		
18:47: 5	9.3231		226.46	
18:47: 9	9.3242	1253.71		
18:47:34	9.3311		226.45	
18:47:38	9.3322	1253.85		
18:48: 3	9.3392		226.42	
18:48: 8	9.3406	1253.98		
18:48:33	9.3475		226.40	
18:48:36	9.3483	1254.12		
18:49: 2	9.3556		226.38	
18:49: 4	9.3561	1254.20		
18:49:29	9.3631		226.37	
18:49:33	9.3642	1254.30		
18:49:58	9.3711		226.35	
18:50: 2	9.3722	1254.42		
18:50:27	9.3792		226.33	
18:50:31	9.3803	1254.57		
18:50:56	9.3872		226.31	
18:50:60	9.3883	1254.61		
18:51:26	9.3956		226.29	
18:51:28	9.3961	1254.69		
18:51:53	9.4031		226.28	
18:51:58	9.4044	1254.77		
18:52:22	9.4111		226.26	
18:52:26	9.4122	1254.85		
18:52:51	9.4192		226.24	
18:52:56	9.4206	1254.89		
18:53:21	9.4275		226.22	
18:53:24	9.4283	1254.96		
18:53:50	9.4356		226.20	
18:53:52	9.4361	1255.02		
18:54:17	9.4431		226.19	
18:54:21	9.4442	1255.15		
18:54:46	9.4511		226.16	
18:54:50	9.4522	1255.19		
18:55:15	9.4592		226.14	
18:55:20	9.4606	1255.27		
18:55:45	9.4675		226.12	
18:55:48	9.4683	1255.35		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:56:14	9.4756		226.11	
18:56:16	9.4761	1255.39		
18:56:41	9.4831		226.09	
18:56:45	9.4842	1255.45		
18:57:10	9.4911		226.07	
18:57:14	9.4922	1255.50		
18:57:39	9.4992		226.05	
18:57:44	9.5006	1255.50		
18:58: 9	9.5075		226.04	
18:58:12	9.5083	1255.64		
18:58:38	9.5156		226.02	
18:58:40	9.5161	1255.65		
18:59: 5	9.5231		226.00	
18:59: 9	9.5242	1255.67		
18:59:34	9.5311		225.98	
18:59:38	9.5322	1255.67		
19: 0: 3	9.5392		225.96	
19: 0: 8	9.5406	1255.74		
19: 0:33	9.5475		225.95	
19: 0:36	9.5483	1255.84		
19: 1: 1	9.5553		225.93	
19: 1: 4	9.5561	1255.82		
19: 1:29	9.5631		225.92	
19: 1:33	9.5642	1255.87		
19: 1:58	9.5711		225.89	
19: 2: 2	9.5722	1255.91		
19: 2:27	9.5792		225.88	
19: 2:31	9.5803	1255.96		
19: 4: 7	9.6069		225.82	
19: 4:15	9.6092	1256.26		
19: 5: 4	9.6228		225.79	
19: 5:12	9.6250	1256.26		
19: 6: 2	9.6389		225.74	
19: 6:10	9.6411	1256.35		
19: 7: 0	9.6550		225.71	
19: 7: 9	9.6575	1256.42		
19: 7:58	9.6711		225.68	
19: 8: 5	9.6731	1256.52		
19: 8:55	9.6869		225.64	
19: 9: 4	9.6894	1256.63		
19: 9:53	9.7031		225.61	
19: 9:60	9.7050	1256.75		
19:10:50	9.7189		225.58	
19:10:58	9.7211	1256.82		
19:11:48	9.7350		225.55	
19:11:56	9.7372	1256.92		
19:12:46	9.7511		225.52	
19:12:53	9.7531	1257.01		
19:13:43	9.7669		225.48	
19:13:51	9.7692	1257.04		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
19:14:40	9.7828		225.45	
19:14:48	9.7850	1257.15		
19:15:39	9.7992		225.42	
19:15:46	9.8011	1257.25		
19:16:36	9.8150		225.39	
19:16:44	9.8172	1257.27		
19:17:34	9.8311		225.36	
19:17:41	9.8331	1257.33		
19:18:31	9.8469		225.33	
19:18:40	9.8494	1257.46		
19:19:29	9.8631		225.29	
19:19:36	9.8650	1257.49		
19:20:27	9.8792		225.27	
19:20:34	9.8811	1257.55		
19:21:24	9.8950		225.24	
19:21:33	9.8975	1257.57		
19:22:22	9.9111		225.21	
19:22:29	9.9131	1257.68		
19:23:19	9.9269		225.18	
19:23:27	9.9292	1257.80		
19:24:16	9.9428		225.15	
19:24:25	9.9453	1257.87		
19:25:15	9.9592		225.12	
19:25:22	9.9611	1257.94		
19:26:12	9.9750		225.08	
19:26:20	9.9772	1258.01		
19:27:10	9.9911		225.06	
19:27:17	9.9931	1258.09		
19:28: 7	10.0069		225.03	
19:28:15	10.0092	1258.15		
19:29: 5	10.0231		225.00	
19:29:13	10.0253	1258.20		
19:30: 3	10.0392		224.97	
19:30:10	10.0411	1258.28		
19:30:60	10.0550		224.94	
19:31: 9	10.0575	1258.34		
19:31:58	10.0711		224.91	
19:32: 5	10.0731	1258.40		
19:32:55	10.0869		224.88	
19:33: 3	10.0892	1258.40		
19:33:53	10.1031		224.86	
19:34: 1	10.1053	1258.42		
19:34:51	10.1192		224.82	
19:34:58	10.1211	1258.46		
19:35:48	10.1350		224.79	
19:35:56	10.1372	1258.51		
19:36:45	10.1508		224.76	
19:36:53	10.1531	1258.59		
19:37:43	10.1669		224.74	
19:37:51	10.1692	1258.66		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
19:38:40	10.1828		224.72	
19:38:49	10.1853	1258.77		
19:39:39	10.1992		224.69	
19:39:46	10.2011	1258.84		
19:40:36	10.2150		224.66	
19:40:45	10.2175	1258.89		
19:41:34	10.2311		224.64	
19:41:41	10.2331	1258.95		
19:42:32	10.2472		224.61	
19:42:39	10.2492	1259.01		
19:43:29	10.2631		224.58	
19:43:37	10.2653	1259.06		
19:44:27	10.2792		224.55	
19:44:34	10.2811	1259.11		
19:45:24	10.2950		224.52	
19:45:33	10.2975	1259.16		
19:46:21	10.3108		224.50	
19:46:29	10.3131	1259.23		
19:47:20	10.3272		224.47	
19:47:27	10.3292	1259.26		
19:48:16	10.3428		224.44	
19:48:25	10.3453	1259.32		
19:49:15	10.3592		224.42	
19:49:22	10.3611	1259.37		
19:50:12	10.3750		224.40	
19:50:20	10.3772	1259.42		
19:51:10	10.3911		224.37	
19:51:17	10.3931	1259.48		
19:52: 8	10.4072		224.34	
19:52:15	10.4092	1259.50		
19:53: 4	10.4228		224.31	
19:53:13	10.4253	1259.57		
19:54: 3	10.4392		224.29	
19:54:10	10.4411	1259.62		
19:54:60	10.4550		224.26	
19:55: 8	10.4572	1259.67		
19:55:58	10.4711		224.24	
19:56: 6	10.4733	1259.70		
19:56:56	10.4872		224.22	
19:57: 3	10.4892	1259.68		
19:57:52	10.5028		224.19	
19:58: 1	10.5053	1259.70		
19:58:50	10.5189		224.17	
19:58:58	10.5211	1259.77		
19:59:48	10.5350		224.14	
19:59:56	10.5372	1259.79		
20: 0:46	10.5511		224.12	
20: 0:54	10.5533	1259.80		
20: 1:44	10.5672		224.09	
20: 1:51	10.5692	1259.90		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
20: 2:40	10.5828		224.07	
20: 2:49	10.5853	1259.99		
20: 3:39	10.5992		224.05	
20: 3:46	10.6011	1260.06		
20: 4:36	10.6150		224.02	
20: 4:44	10.6172	1260.11		
20: 5:34	10.6311		224.00	
20: 5:42	10.6333	1260.16		
20: 6:32	10.6472		223.98	
20: 6:39	10.6492	1260.21		
20: 7:29	10.6631		223.96	
20: 7:37	10.6653	1260.25		
20: 8:27	10.6792		223.93	
20: 8:34	10.6811	1260.30		
20: 9:25	10.6953		223.91	
20: 9:33	10.6975	1260.35		
20:10:22	10.7111		223.89	
20:10:30	10.7133	1260.39		
20:11:20	10.7272		223.86	
20:11:27	10.7292	1260.42		
20:12:16	10.7428		223.84	
20:12:25	10.7453	1260.45		
20:13:15	10.7592		223.82	
20:13:22	10.7611	1260.50		
20:14:13	10.7753		223.79	
20:14:20	10.7772	1260.54		
20:15: 9	10.7908		223.78	
20:15:18	10.7933	1260.57		
20:16: 8	10.8072		223.74	
20:16:15	10.8092	1260.61		
20:17: 5	10.8231		223.72	
20:17:13	10.8253	1260.64		
20:18: 3	10.8392		223.69	
20:18:10	10.8411	1260.67		
20:19: 1	10.8553		223.67	
20:19: 9	10.8575	1260.74		
20:19:58	10.8711		223.64	
20:20: 6	10.8733	1260.78		
20:20:56	10.8872		223.62	
20:21: 3	10.8892	1260.82		
20:21:53	10.9031		223.60	
20:22: 1	10.9053	1260.85		
20:22:51	10.9192		223.57	
20:22:59	10.9214	1260.89		
20:23:49	10.9353		223.55	
20:23:56	10.9372	1260.93		
20:24:45	10.9508		223.54	
20:24:54	10.9533	1260.97		
20:25:44	10.9672		223.51	
20:25:51	10.9692	1261.01		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
20:26:40	10.9828		223.49	
20:26:49	10.9853	1261.06		
20:27:39	10.9992		223.46	
20:27:47	11.0014	1261.09		
20:28:37	11.0153		223.43	
20:28:44	11.0172	1261.13		
20:29:34	11.0311		223.42	
20:29:42	11.0333	1261.16		
20:30:32	11.0472		223.39	
20:30:39	11.0492	1261.18		
20:31:28	11.0628		223.37	
20:31:37	11.0653	1261.23		
20:32:27	11.0792		223.35	
20:32:35	11.0814	1261.26		
20:33:25	11.0953		223.33	
20:33:32	11.0972	1261.29		
20:34:21	11.1108		223.31	
20:34:30	11.1133	1261.34		
20:35:20	11.1272		223.29	
20:35:27	11.1292	1261.34		
20:36:16	11.1428		223.26	
20:36:25	11.1453	1261.38		
20:37:15	11.1592		223.23	
20:37:23	11.1614	1261.43		
20:38:13	11.1753		223.21	
20:38:20	11.1772	1261.46		
20:39: 9	11.1908		223.20	
20:39:18	11.1933	1261.52		
20:40: 8	11.2072		223.17	
20:40:15	11.2092	1261.56		
20:41: 4	11.2228		223.15	
20:41:13	11.2253	1261.55		
20:42: 3	11.2392		223.13	
20:42:11	11.2414	1261.61		
20:43: 1	11.2553		223.10	
20:43: 8	11.2572	1261.64		
20:43:58	11.2711		223.08	
20:44: 6	11.2733	1261.68		
20:44:56	11.2872		223.06	
20:45: 3	11.2892	1261.68		
20:45:52	11.3028		223.04	
20:46: 1	11.3053	1261.72		
20:46:50	11.3189		223.02	
20:46:59	11.3214	1261.78		
20:47:49	11.3353		223.00	
20:47:56	11.3372	1261.79		
20:48:45	11.3508		222.98	
20:48:54	11.3533	1261.82		
20:49:44	11.3672		222.96	
20:49:51	11.3692	1261.78		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
20:50:40	11.3828		222.93	
20:50:49	11.3853	1261.79		
20:51:39	11.3992		222.91	
20:51:47	11.4014	1261.83		
20:52:37	11.4153		222.88	
20:52:44	11.4172	1261.86		
20:53:34	11.4311		222.87	
20:53:42	11.4333	1261.92		
20:54:32	11.4472		222.84	
20:54:40	11.4494	1262.01		
20:55:28	11.4628		222.82	
20:55:36	11.4650	1262.05		
20:56:26	11.4789		222.80	
20:56:35	11.4814	1262.10		
20:57:25	11.4953		222.78	
20:57:32	11.4972	1262.14		
20:58:21	11.5108		222.76	
20:58:30	11.5133	1262.17		
20:59:20	11.5272		222.74	
20:59:28	11.5294	1262.18		
21: 0:16	11.5428		222.72	
21: 0:24	11.5450	1262.24		
21: 1:14	11.5589		222.70	
21: 1:23	11.5614	1262.28		
21: 2:13	11.5753		222.68	
21: 2:20	11.5772	1262.31		
21: 3: 9	11.5908		222.66	
21: 3:18	11.5933	1262.31		
21: 4: 8	11.6072		222.64	
21: 4:16	11.6094	1262.37		
21: 5: 4	11.6228		222.63	
21: 5:12	11.6250	1262.40		
21: 6: 3	11.6392		222.60	
21: 6:11	11.6414	1262.40		
21: 7: 1	11.6553		222.58	
21: 7: 8	11.6572	1262.46		
21: 7:57	11.6708		222.56	
21: 8: 6	11.6733	1262.47		
21: 8:56	11.6872		222.54	
21: 9: 4	11.6894	1262.50		
21: 9:52	11.7028		222.52	
21:10: 0	11.7050	1262.53		
21:10:50	11.7189		222.50	
21:10:59	11.7214	1262.57		
21:11:49	11.7353		222.48	
21:11:56	11.7372	1262.59		
21:12:45	11.7508		222.47	
21:12:54	11.7533	1262.62		
21:13:43	11.7669		222.44	
21:13:52	11.7694	1262.68		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
21:14:41	11.7831		222.43	
21:14:48	11.7850	1262.69		
21:15:38	11.7989		222.41	
21:15:46	11.8011	1262.73		
21:16:36	11.8150		222.39	
21:16:44	11.8172	1262.76		
21:17:33	11.8308		222.37	
21:17:42	11.8333	1262.78		
21:18:31	11.8469		222.35	
21:18:40	11.8494	1262.82		
21:19:29	11.8631		222.33	
21:19:36	11.8650	1262.85		
21:20:26	11.8789		222.31	
21:20:35	11.8814	1262.87		
21:21:25	11.8953		222.29	
21:21:33	11.8975	1262.90		
21:22:21	11.9108		222.28	
21:22:30	11.9133	1262.94		
21:23:19	11.9269		222.25	
21:23:28	11.9294	1262.97		
21:24:17	11.9431		222.23	
21:24:24	11.9450	1262.98		
21:25:14	11.9589		222.21	
21:25:23	11.9614	1263.02		
21:26:13	11.9753		222.19	
21:26:21	11.9775	1263.05		
21:27: 9	11.9908		222.18	
21:27:17	11.9931	1263.11		
21:28: 7	12.0069		222.15	
21:28:16	12.0094	1263.08		
21:29: 5	12.0231		222.14	
21:29:13	12.0253	1263.13		
21:30: 2	12.0389		222.12	
21:30:11	12.0414	1263.17		
21:31: 1	12.0553		222.10	
21:31: 9	12.0575	1263.21		
21:31:57	12.0708		222.09	
21:32: 5	12.0731	1263.24		
21:32:55	12.0869		222.06	
21:33: 4	12.0894	1263.26		
21:33:53	12.1031		222.04	
21:33:60	12.1050	1263.26		
21:34:50	12.1189		222.03	
21:34:59	12.1214	1263.31		
21:35:49	12.1353		222.01	
21:35:57	12.1375	1263.35		
21:36:45	12.1508		221.99	
21:36:53	12.1531	1263.37		
21:37:43	12.1669		221.97	
21:37:51	12.1692	1263.40		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
21:38:41	12.1831		221.95	
21:38:48	12.1850	1263.42		
21:39:38	12.1989		221.93	
21:39:46	12.2011	1263.46		
21:40:36	12.2150		221.92	
21:40:45	12.2175	1263.48		
21:41:33	12.2308		221.91	
21:41:41	12.2331	1263.51		
21:42:31	12.2469		221.88	
21:42:40	12.2494	1263.54		
21:43:29	12.2631		221.87	
21:43:36	12.2650	1263.57		
21:44:26	12.2789		221.85	
21:44:35	12.2814	1263.59		
21:45:24	12.2950		221.83	
21:45:33	12.2975	1263.61		
21:46:22	12.3111		221.81	
21:46:29	12.3131	1263.65		
21:47:19	12.3269		221.79	
21:47:28	12.3294	1263.67		
21:48:17	12.3431		221.78	
21:48:24	12.3450	1263.71		
21:49:14	12.3589		221.75	
21:49:23	12.3614	1263.73		
21:50:12	12.3750		221.74	
21:50:21	12.3775	1263.76		
21:51:10	12.3911		221.73	
21:51:18	12.3933	1263.76		
21:52: 8	12.4072		221.70	
21:52:16	12.4094	1263.79		
21:53: 5	12.4231		221.69	
21:53:12	12.4250	1263.81		
21:54: 2	12.4389		221.67	
21:54:10	12.4411	1263.85		
21:55: 0	12.4550		221.66	
21:55: 9	12.4575	1263.89		
21:55:58	12.4711		221.63	
21:56: 5	12.4731	1263.91		
21:56:55	12.4869		221.62	
21:57: 4	12.4894	1263.95		
21:57:53	12.5031		221.61	
21:57:50	12.5050	1263.97		
21:58:50	12.5189		221.59	
21:58:58	12.5211	1263.97		
21:59:48	12.5350		221.57	
21:59:57	12.5375	1264.02		
22: 0:46	12.5511		221.55	
22: 0:53	12.5531	1264.05		
22: 1:43	12.5669		221.53	
22: 1:51	12.5692	1264.08		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
22: 2:40	12.5828		221.51	
22: 2:48	12.5850	1264.10		
22: 3:38	12.5989		221.50	
22: 3:46	12.6011	1264.10		
22: 4:36	12.6150		221.48	
22: 4:45	12.6175	1264.14		
22: 5:34	12.6311		221.47	
22: 5:41	12.6331	1264.16		
22: 6:31	12.6469		221.45	
22: 6:40	12.6494	1264.18		
22: 7:29	12.6631		221.43	
22: 7:36	12.6650	1264.18		
22: 8:26	12.6789		221.41	
22: 8:34	12.6811	1264.22		
22: 9:24	12.6950		221.40	
22: 9:33	12.6975	1264.25		
22:10:22	12.7111		221.39	
22:10:29	12.7131	1264.28		
22:16:10	12.8078		221.27	
22:16:31	12.8136	1264.43		
22:21:17	12.8931		221.18	
22:21:38	12.8989	1264.57		
22:26:22	12.9778		221.10	
22:26:44	12.9839	1264.68		
22:31:29	13.0631		221.02	
22:31:49	13.0686	1264.81		
22:36:35	13.1481		220.94	
22:36:55	13.1536	1264.95		
22:41:40	13.2328		220.86	
22:42: 1	13.2386	1265.08		
22:46:46	13.3178		220.77	
22:47: 7	13.3236	1265.20		
22:51:53	13.4031		220.70	
22:52:14	13.4089	1265.33		
22:56:58	13.4878		220.62	
22:57:19	13.4936	1265.47		
23: 2: 5	13.5731		220.54	
23: 2:25	13.5786	1265.58		
23: 7:11	13.6581		220.46	
23: 7:32	13.6639	1265.69		
23:12:16	13.7428		220.38	
23:12:37	13.7486	1265.82		
23:17:23	13.8281		220.31	
23:17:44	13.8339	1265.93		
23:22:28	13.9128		220.23	
23:22:50	13.9189	1266.05		
23:27:34	13.9978		220.16	
23:27:55	14.0036	1266.16		
23:32:41	14.0831		220.08	
23:33: 1	14.0886	1266.28		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
23:37:46	14.1678		220.01	
23:38: 8	14.1739	1266.40		
23:42:53	14.2531		219.94	
23:43:13	14.2586	1266.51		
23:47:59	14.3381		219.87	
23:48:20	14.3439	1266.62		
23:53: 4	14.4228		219.80	
23:53:26	14.4289	1266.73		
23:58:10	14.5078		219.73	
23:58:31	14.5136	1266.84		
10H 0: 3:17	14.5931		219.67	
0: 3:38	14.5989	1266.96		
0: 8:22	14.6778		219.60	
0: 8:44	14.6839	1267.07		
0:13:29	14.7631		219.53	
0:13:49	14.7686	1267.17		
0:18:35	14.8481		219.46	
0:18:56	14.8539	1267.29		
0:23:40	14.9328		219.40	
0:24: 2	14.9389	1267.40		
0:28:46	15.0178		219.34	
0:29: 8	15.0239	1267.51		
0:33:53	15.1031		219.27	
0:34:14	15.1089	1267.63		
0:38:58	15.1878		219.21	
0:39:19	15.1936	1267.73		
0:44: 5	15.2731		219.14	
0:44:25	15.2786	1267.83		
0:49:11	15.3581		219.09	
0:49:31	15.3636	1267.93		
0:54:16	15.4428		219.02	
0:54:37	15.4486	1268.04		
0:59:23	15.5281		218.96	
0:59:43	15.5336	1268.15		
1: 4:29	15.6131		218.90	
1: 4:49	15.6186	1268.25		
1: 9:34	15.6978		218.84	
1: 9:55	15.7036	1268.35		
1:14:40	15.7828		218.78	
1:15: 1	15.7886	1268.46		
1:19:46	15.8678		218.72	
1:20: 8	15.8739	1268.55		
1:24:52	15.9528		218.66	
1:25:13	15.9586	1268.65		
1:29:59	16.0381		218.60	
1:30:19	16.0436	1268.75		
1:35: 4	16.1228		218.54	
1:35:26	16.1289	1268.86		
1:40:10	16.2078		218.48	
1:40:31	16.2136	1268.95		

DATA FILE: 5

REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
1:45:17	16.2931		218.43	
1:45:38	16.2989	1269.06		
1:50:22	16.3778		218.38	
1:50:44	16.3839	1269.16		
1:55:28	16.4628		218.32	
1:55:49	16.4686	1269.25		
2: 0:35	16.5481		218.27	
2: 0:56	16.5539	1269.35		
2: 5:40	16.6328		218.21	
2: 6: 2	16.6389	1269.44		
2:10:46	16.7178		218.16	
2:11: 7	16.7236	1269.54		
2:15:53	16.8031		218.10	
2:16:14	16.8089	1269.63		
2:20:58	16.8878		218.05	
2:21:20	16.8939	1269.73		
2:26: 5	16.9731		218.00	
2:26:25	16.9786	1269.83		
2:31:11	17.0581		217.94	
2:31:32	17.0639	1269.92		
2:36:16	17.1428		217.90	
2:36:38	17.1489	1270.03		
2:41:23	17.2281		217.84	
2:41:44	17.2339	1270.11		
2:46:29	17.3131		217.80	
2:46:50	17.3189	1270.21		
2:51:34	17.3978		217.75	
2:51:55	17.4036	1270.31		
2:56:41	17.4831		217.70	
2:57: 1	17.4886	1270.40		
3: 1:47	17.5681		217.65	
3: 2: 8	17.5739	1270.49		
3: 6:53	17.6531		217.60	
3: 7:13	17.6586	1270.58		
3:11:59	17.7381		217.55	
3:12:19	17.7436	1270.66		
3:17: 5	17.8231		217.50	
3:17:26	17.8289	1270.77		
3:22:10	17.9078		217.45	
3:22:31	17.9136	1270.86		
3:27:16	17.9928		217.40	
3:27:37	17.9986	1270.95		
3:32:22	18.0778		217.35	
3:32:44	18.0839	1271.04		
3:37:28	18.1628		217.31	
3:37:49	18.1686	1271.13		
3:42:35	18.2481		217.26	
3:42:55	18.2536	1271.22		
3:47:40	18.3328		217.21	
3:48: 2	18.3389	1271.32		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
3:52:46	18.4178		217.17	
3:53: 7	18.4236	1271.41		
3:57:53	18.5031		217.12	
3:58:14	18.5089	1271.50		
4: 2:58	18.5878		217.07	
4: 3:20	18.5939	1271.59		
4: 8: 4	18.6728		217.03	
4: 8:25	18.6786	1271.68		
4:13:11	18.7581		216.98	
4:13:31	18.7636	1271.76		
4:18:16	18.8428		216.94	
4:18:38	18.8489	1271.86		
4:23:22	18.9278		216.89	
4:23:43	18.9336	1271.95		
4:28:29	19.0131		216.85	
4:28:49	19.0186	1272.03		
4:33:34	19.0978		216.81	
4:33:56	19.1039	1272.12		
4:38:40	19.1828		216.76	
4:39: 1	19.1886	1272.20		
4:43:47	19.2681		216.72	
4:44: 8	19.2739	1272.30		
4:48:52	19.3528		216.67	
4:49:14	19.3589	1272.38		
4:53:59	19.4381		216.63	
4:54:19	19.4436	1272.47		
4:59: 5	19.5231		216.59	
4:59:25	19.5286	1272.56		
5: 4:10	19.6078		216.55	
5: 4:31	19.6136	1272.65		
5: 9:17	19.6931		216.51	
5: 9:38	19.6989	1272.74		
5:14:23	19.7781		216.47	
5:14:44	19.7839	1272.82		
5:19:29	19.8631		216.43	
5:19:49	19.8686	1272.91		
5:24:35	19.9481		216.38	
5:24:55	19.9536	1273.00		
5:29:41	20.0331		216.34	
5:30: 2	20.0389	1273.09		
5:34:46	20.1178		216.31	
5:35: 7	20.1236	1273.18		
5:39:53	20.2031		216.27	
5:40:14	20.2089	1273.27		
5:44:58	20.2878		216.24	
5:45:20	20.2939	1273.35		
5:50: 4	20.3728		216.19	
5:50:25	20.3786	1273.44		
5:55:11	20.4581		216.15	
5:55:31	20.4636	1273.52		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
6: 0:16	20.5428		216.12	
6: 0:38	20.5489	1273.61		
6: 5:22	20.6278		216.08	
6: 5:43	20.6336	1273.70		
6:10:29	20.7131		216.04	
6:10:50	20.7189	1273.79		
6:15:34	20.7978		216.00	
6:15:56	20.8039	1273.87		
6:20:40	20.8828		215.97	
6:21: 1	20.8886	1273.95		
6:25:47	20.9681		215.93	
6:26: 8	20.9739	1274.04		
6:30:52	21.0528		215.89	
6:31:14	21.0589	1274.12		
6:35:59	21.1381		215.85	
6:36:19	21.1436	1274.21		
6:41: 5	21.2231		215.82	
6:41:26	21.2289	1274.30		
6:46:10	21.3078		215.78	
6:46:32	21.3139	1274.38		
6:51:17	21.3931		215.74	
6:51:38	21.3989	1274.47		
6:56:23	21.4791		215.71	
6:56:44	21.4839	1274.55		
7: 1:28	21.5628		215.67	
7: 1:49	21.5686	1274.64		
7: 6:35	21.6481		215.63	
7: 6:55	21.6536	1274.72		
7:11:41	21.7331		215.60	
7:12: 1	21.7386	1274.81		
7:16:46	21.8178		215.57	
7:17: 7	21.8236	1274.88		
7:21:53	21.9031		215.53	
7:22:13	21.9086	1274.98		
7:26:59	21.9881		215.50	
7:27:19	21.9936	1275.06		
7:32: 4	22.0728		215.46	
7:32:25	22.0786	1275.14		
7:37:10	22.1578		215.43	
7:37:31	22.1636	1275.19		
7:42:16	22.2428		215.38	
7:42:38	22.2489	1275.28		
7:47:22	22.3278		215.35	
7:47:43	22.3336	1275.37		
7:52:29	22.4131		215.32	
7:52:49	22.4186	1275.47		
7:57:34	22.4978		215.29	
7:57:56	22.5039	1275.54		
8: 2:40	22.5828		215.26	
8: 3: 1	22.5886	1275.63		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
8: 7:47	22.6681		215.22	
8: 8: 8	22.6739	1275.71		
8:12:52	22.7528		215.19	
8:13:14	22.7589	1275.79		
8:17:59	22.8381		215.15	
8:18:19	22.8436	1275.87		
8:23: 5	22.9231		215.13	
8:23:26	22.9289	1275.96		
8:28:10	23.0078		215.10	
8:28:32	23.0139	1276.05		
8:33:16	23.0928		215.06	
8:33:37	23.0986	1276.12		
8:38:23	23.1781		215.03	
8:38:44	23.1839	1276.20		
8:43:28	23.2628		215.00	
8:43:50	23.2689	1276.28		
8:48:35	23.3481		214.96	
8:48:55	23.3536	1276.36		
8:53:41	23.4331		214.93	
8:54: 2	23.4389	1276.45		
8:58:46	23.5178		214.89	
8:59: 8	23.5239	1276.52		
9: 3:53	23.6031		214.86	
9: 4:13	23.6086	1276.61		
9: 8:59	23.6881		214.83	
9: 9:20	23.6939	1276.69		
9:14: 4	23.7728		214.80	
9:14:25	23.7786	1276.77		
9:19:11	23.8581		214.77	
9:19:31	23.8636	1276.86		
9:24:17	23.9431		214.74	
9:24:38	23.9489	1276.94		
9:29:23	24.0281		214.71	
9:29:43	24.0336	1277.01		
9:34:29	24.1131		214.68	
9:34:49	24.1186	1277.09		
9:39:35	24.1981		214.64	
9:39:56	24.2039	1277.14		
9:44:40	24.2828		214.60	
9:45: 1	24.2886	1277.21		
9:49:46	24.3678		214.56	
9:50: 7	24.3736	1277.28		
9:54:52	24.4528		214.51	
9:55:14	24.4589	1277.35		
9:59:58	24.5378		214.46	
10: 0:19	24.5436	1277.42		
10: 5: 4	24.6228		214.42	
10: 5:25	24.6286	1277.49		
10:10:10	24.7078		214.38	
10:10:32	24.7139	1277.63		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
10:15:16	24.7928		214.38	
10:15:37	24.7986	1277.75		
10:20:23	24.8781		214.37	
10:20:44	24.8839	1277.84		
10:25:28	24.9628		214.35	
10:25:50	24.9689	1277.91		
10:30:34	25.0478		214.32	
10:30:55	25.0536	1277.92		
10:35:41	25.1331		214.27	
10:36: 1	25.1386	1277.97		
10:40:46	25.2178		214.21	
10:41: 8	25.2239	1278.05		
10:45:52	25.3028		214.18	
10:46:13	25.3086	1278.22		
10:50:59	25.3881		214.18	
10:51:20	25.3939	1278.31		
10:56: 4	25.4728		214.16	
10:56:26	25.4789	1278.38		
11: 1:11	25.5581		214.14	
11: 1:31	25.5636	1278.47		
11: 6:17	25.6431		214.12	
11: 6:38	25.6489	1278.53		
11:11:22	25.7278		214.09	
11:11:44	25.7339	1278.62		
11:16:29	25.8131		214.06	
11:16:49	25.8186	1278.63		
11:21:35	25.8981		214.01	
11:21:56	25.9039	1278.68		
11:26:40	25.9828		213.97	
11:27: 1	25.9886	1278.77		
11:31:47	26.0681		213.93	
11:32: 8	26.0739	1278.85		
11:36:53	26.1531		213.89	
11:37:14	26.1589	1278.94		
11:41:59	26.2381		213.86	
11:42:19	26.2436	1279.01		
11:47: 5	26.3231		213.82	
11:47:25	26.3286	1279.09		
11:52:11	26.4081		213.79	
11:52:32	26.4139	1279.17		
11:57:16	26.4928		213.76	
11:57:37	26.4986	1279.25		
12: 2:23	26.5781		213.74	
12: 2:43	26.5836	1279.35		
12: 7:28	26.6628		213.71	
12: 7:50	26.6689	1279.42		
12:12:34	26.7478		213.69	
12:12:55	26.7536	1279.51		
12:17:41	26.8331		213.66	
12:18: 1	26.8386	1279.57		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
12:22:46	26.9178		213.63	
12:23: 8	26.9239	1279.65		
12:27:52	27.0028		213.60	
12:28:13	27.0086	1279.74		
12:32:59	27.0881		213.58	
12:33:20	27.0939	1279.81		
12:38: 4	27.1728		213.56	
12:38:26	27.1789	1279.90		
12:43:10	27.2578		213.53	
12:43:31	27.2636	1279.98		
12:48:17	27.3431		213.51	
12:48:38	27.3489	1280.07		
12:53:22	27.4278		213.48	
12:53:44	27.4339	1280.12		
12:58:29	27.5131		213.45	
12:58:49	27.5186	1280.21		
13: 3:35	27.5981		213.43	
13: 3:55	27.6036	1280.28		
13: 8:40	27.6828		213.41	
13: 9: 2	27.6889	1280.37		
13:13:46	27.7678		213.38	
13:14: 7	27.7736	1280.47		
13:18:53	27.8531		213.36	
13:19:14	27.8589	1280.52		
13:23:58	27.9378		213.33	
13:24:19	27.9436	1280.60		
13:29: 5	28.0231		213.30	
13:29:25	28.0286	1280.68		
13:34:11	28.1081		213.67	
13:34:31	28.1136	1283.37		
13:39:16	28.1928		213.26	
13:39:37	28.1986	1280.84		
13:44:23	28.2781		213.24	
13:44:43	28.2836	1280.92		
13:49:29	28.3631		213.21	
13:49:49	28.3686	1280.98		
13:54:34	28.4478		213.18	
13:54:55	28.4536	1281.05		
13:59:40	28.5328		213.15	
14: 0: 1	28.5386	1281.13		
14: 4:46	28.6178		213.13	
14: 5: 8	28.6239	1281.22		
14: 9:53	28.7031		213.10	
14:10:13	28.7086	1281.27		
14:14:59	28.7881		213.07	
14:15:19	28.7936	1281.35		
14:20: 4	28.8728		213.04	
14:20:26	28.8789	1281.43		
14:25:10	28.9578		213.02	
14:25:31	28.9636	1281.51		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
14:30:17	29.0431		213.00	
14:30:38	29.0489	1281.58		
14:35:22	29.1278		212.97	
14:35:44	29.1339	1281.66		
14:40:29	29.2131		212.95	
14:40:49	29.2186	1281.74		
14:45:35	29.2981		212.93	
14:45:56	29.3039	1281.81		
14:50:40	29.3828		212.90	
14:51: 2	29.3889	1281.91		
14:55:46	29.4678		212.90	
14:56: 7	29.4736	1282.02		
15: 0:53	29.5531		212.89	
15: 1:14	29.5589	1282.09		
15: 5:58	29.6378		212.87	
15: 6:20	29.6439	1282.17		
15:11: 5	29.7231		212.86	
15:11:25	29.7286	1282.24		
15:16:11	29.8081		212.84	
15:16:31	29.8136	1282.30		
15:21:16	29.8928		212.82	
15:21:38	29.8989	1282.37		
15:26:23	29.9781		212.80	
15:26:43	29.9836	1282.44		
15:31:29	30.0631		212.78	
15:31:50	30.0689	1282.51		
15:36:34	30.1478		212.75	
15:36:55	30.1536	1282.58		
15:41:41	30.2331		212.73	
15:42: 1	30.2386	1282.66		
15:46:47	30.3181		212.70	
15:47: 8	30.3239	1282.71		
15:51:53	30.4031		212.67	
15:52:13	30.4086	1282.76		
15:56:59	30.4881		212.65	
15:57:19	30.4936	1282.85		
16: 2: 5	30.5731		212.62	
16: 2:26	30.5789	1282.92		
16: 7:10	30.6578		212.60	
16: 7:31	30.6636	1282.98		
16:12:16	30.7428		212.57	
16:12:37	30.7486	1283.05		
16:17:22	30.8278		212.55	
16:17:44	30.8339	1283.12		
16:22:28	30.9128		212.52	
16:22:49	30.9186	1283.19		
16:27:34	30.9978		212.50	
16:27:55	31.0036	1283.26		
16:32:40	31.0828		212.48	
16:33: 2	31.0889	1283.34		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
16:37:46	31.1678		212.46	
16:38: 7	31.1736	1283.41		
16:42:53	31.2531		212.44	
16:43:14	31.2589	1283.49		
16:47:58	31.3378		212.42	
16:48:20	31.3439	1283.56		
16:53: 4	31.4228		212.40	
16:53:25	31.4286	1283.63		
16:58:11	31.5081		212.38	
16:58:31	31.5136	1283.71		
17: 3:16	31.5928		212.36	
17: 3:38	31.5989	1283.77		
17: 8:23	31.6781		212.34	
17: 8:43	31.6836	1283.83		
17:13:29	31.7631		212.30	
17:13:50	31.7689	1283.88		
17:18:34	31.8478		212.27	
17:18:56	31.8539	1283.95		
17:23:41	31.9331		212.25	
17:24: 1	31.9386	1284.02		
17:28:47	32.0181		212.22	
17:29: 8	32.0239	1284.10		
17:33:52	32.1028		212.20	
17:34:14	32.1089	1284.15		
17:38:59	32.1881		212.17	
17:39:19	32.1936	1284.23		
17:44: 5	32.2731		212.14	
17:44:26	32.2789	1284.30		
17:49:10	32.3578		212.12	
17:49:31	32.3636	1284.36		
17:54:17	32.4431		212.10	
17:54:38	32.4489	1284.44		
17:59:23	32.5281		212.08	
17:59:44	32.5339	1284.51		
18: 4:28	32.6128		212.07	
18: 4:49	32.6186	1284.66		
18: 9:35	32.6981		212.06	
18: 9:55	32.7036	1284.73		
18:14:41	32.7831		212.06	
18:15: 2	32.7889	1284.35		
18:19:46	32.8678		212.05	
18:20: 7	32.8736	1284.87		
18:24:53	32.9531		212.03	
18:25:13	32.9586	1284.94		
18:29:58	33.0378		212.02	
18:30:20	33.0439	1285.00		
18:35: 4	33.1228		212.00	
18:35:25	33.1286	1285.07		
18:40:11	33.2081		211.99	
18:40:31	33.2136	1285.15		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:45:16	33.2928		211.98	
18:45:38	33.2989	1285.21		
18:50:22	33.3778		211.96	
18:50:43	33.3836	1285.28		
18:55:29	33.4631		211.94	
18:55:50	33.4689	1285.34		
19: 0:34	33.5478		211.93	
19: 0:56	33.5539	1285.41		
19: 5:40	33.6328		211.91	
19: 6: 1	33.6386	1285.48		
19:10:47	33.7181		211.88	
19:11: 8	33.7239	1285.54		
19:15:52	33.8028		211.86	
19:16:14	33.8089	1285.61		
19:20:59	33.8881		211.85	
19:21:19	33.8936	1285.68		
19:26: 5	33.9731		211.83	
19:26:25	33.9786	1285.74		
19:31:10	34.0578		211.81	
19:31:32	34.0639	1285.81		
19:36:16	34.1428		211.79	
19:36:37	34.1486	1285.88		
19:41:23	34.2281		211.77	
19:41:44	34.2339	1285.94		
19:46:28	34.3128		211.75	
19:46:49	34.3186	1286.01		
19:51:35	34.3981		211.73	
19:51:55	34.4036	1286.07		
19:56:41	34.4831		211.72	
19:57: 1	34.4886	1286.15		
20: 1:46	34.5678		211.71	
20: 2: 7	34.5736	1286.22		
20: 6:53	34.6531		211.69	
20: 7:14	34.6589	1286.28		
20:11:59	34.7381		211.67	
20:12:20	34.7439	1286.35		
20:17: 5	34.8231		211.66	
20:17:25	34.8286	1286.42		
20:22:11	34.9081		211.63	
20:22:31	34.9136	1286.48		
20:27:16	34.9928		211.61	
20:27:38	34.9989	1286.54		
20:32:23	35.0781		211.59	
20:32:43	35.0836	1286.61		
20:37:29	35.1631		211.57	
20:37:49	35.1686	1286.67		
20:42:34	35.2478		211.56	
20:42:56	35.2539	1286.74		
20:47:40	35.3328		211.54	
20:48: 1	35.3386	1286.82		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
20:52:47	35.4181		211.53	
20:53: 8	35.4239	1286.88		
20:57:52	35.5028		211.51	
20:58:14	35.5089	1286.94		
21: 2:58	35.5878		211.49	
21: 3:19	35.5936	1287.00		
21: 8: 5	35.6731		211.48	
21: 8:26	35.6789	1287.07		
21:13:10	35.7578		211.46	
21:13:32	35.7639	1287.13		
21:18:16	35.8428		211.44	
21:18:37	35.8486	1287.20		
21:23:23	35.9281		211.42	
21:23:44	35.9339	1287.28		
21:28:28	36.0128		211.40	
21:28:50	36.0189	1287.33		
21:33:35	36.0981		211.38	
21:33:55	36.1036	1287.40		
21:38:41	36.1831		211.35	
21:39: 1	36.1886	1287.46		
21:43:46	36.2678		211.33	
21:44: 8	36.2739	1287.52		
21:48:53	36.3531		211.31	
21:49:13	36.3586	1287.58		
21:53:59	36.4381		211.29	
21:54:20	36.4439	1287.66		
21:59: 4	36.5228		211.27	
21:59:25	36.5286	1287.72		
22: 4:10	36.6078		211.25	
22: 4:31	36.6136	1287.79		
22: 9:17	36.6931		211.23	
22: 9:38	36.6989	1287.86		
22:14:22	36.7778		211.21	
22:14:43	36.7836	1287.92		
22:19:29	36.8631		211.20	
22:19:49	36.8686	1287.99		
22:24:35	36.9481		211.18	
22:24:56	36.9539	1288.06		
22:29:40	37.0328		211.16	
22:30: 1	37.0386	1288.13		
22:34:46	37.1178		211.14	
22:35: 7	37.1236	1288.19		
22:39:52	37.2028		211.13	
22:40:14	37.2089	1288.26		
22:44:58	37.2878		211.11	
22:45:19	37.2936	1288.33		
22:50: 4	37.3728		211.10	
22:50:25	37.3786	1288.40		
22:55:10	37.4578		211.08	
22:55:32	37.4639	1288.46		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
23: 0:16	37.5428		211.07	
23: 0:37	37.5486	1288.54		
23: 5:23	37.6281		211.05	
23: 5:44	37.6339	1288.60		
23:10:28	37.7128		211.03	
23:10:50	37.7189	1288.66		
23:15:34	37.7978		211.02	
23:15:55	37.8036	1288.74		
23:20:41	37.8831		211.00	
23:21: 2	37.8889	1288.81		
23:25:46	37.9678		210.99	
23:26: 8	37.9739	1288.87		
23:30:53	38.0531		210.97	
23:31:13	38.0586	1288.94		
23:35:59	38.1381		210.95	
23:36:20	38.1439	1289.02		
23:41: 4	38.2228		210.93	
23:41:26	38.2289	1289.08		
23:46:11	38.3081		210.92	
23:46:31	38.3136	1289.16		
23:51:17	38.3931		210.90	
23:51:38	38.3989	1289.21		
23:56:22	38.4778		210.88	
23:56:44	38.4839	1289.28		
11/2 0: 1:29	38.5631		210.87	
0: 1:49	38.5686	1289.35		
0: 6:35	38.6481		210.85	
0: 6:56	38.6539	1289.42		
0:11:40	38.7328		210.84	
0:12: 1	38.7386	1289.49		
0:16:46	38.8178		210.82	
0:17: 8	38.8239	1289.55		
0:21:53	38.9031		210.80	
0:22:14	38.9089	1289.62		
0:26:58	38.9878		210.79	
0:27:19	38.9936	1289.69		
0:32: 5	39.0731		210.77	
0:32:25	39.0786	1289.75		
0:37:11	39.1581		210.76	
0:37:32	39.1639	1289.82		
0:42:16	39.2428		210.74	
0:42:37	39.2486	1289.89		
0:47:23	39.3281		210.72	
0:47:43	39.3336	1289.96		
0:52:28	39.4128		210.71	
0:52:50	39.4189	1290.02		
0:57:34	39.4978		210.69	
0:57:55	39.5036	1290.09		
1: 2:40	39.5828		210.67	
1: 3: 1	39.5886	1290.16		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
1: 7:46	39.6678		210.66	
1: 8: 8	39.6739	1290.23		
1:12:52	39.7528		210.64	
1:13:13	39.7586	1290.30		
1:17:59	39.8381		210.62	
1:18:20	39.8439	1290.36		
1:23: 4	39.9228		210.61	
1:23:26	39.9289	1290.43		
1:28:10	40.0078		210.59	
1:28:31	40.0136	1290.49		
1:33:17	40.0931		210.58	
1:33:38	40.0989	1290.56		
1:38:22	40.1778		210.56	
1:38:44	40.1839	1290.63		
1:43:29	40.2631		210.55	
1:43:49	40.2686	1290.69		
1:48:35	40.3481		210.53	
1:48:55	40.3536	1290.76		
1:53:40	40.4328		210.52	
1:54: 2	40.4389	1290.83		
1:58:46	40.5178		210.50	
1:59: 7	40.5236	1290.90		
2: 3:53	40.6031		210.49	
2: 4:14	40.6089	1290.96		
2: 8:58	40.6878		210.47	
2: 9:19	40.6936	1291.03		
2:14: 5	40.7731		210.46	
2:14:25	40.7786	1291.10		
2:19:11	40.8581		210.44	
2:19:32	40.8639	1291.16		
2:24:16	40.9428		210.43	
2:24:37	40.9486	1291.22		
2:29:23	41.0281		210.41	
2:29:44	41.0339	1291.29		
2:34:29	41.1131		210.39	
2:34:50	41.1189	1291.35		
2:39:34	41.1978		210.38	
2:39:55	41.2036	1291.43		
2:44:41	41.2831		210.36	
2:45: 1	41.2886	1291.50		
2:49:46	41.3678		210.35	
2:50: 8	41.3739	1291.56		
2:54:53	41.4531		210.33	
2:55:13	41.4586	1291.64		
2:59:59	41.5381		210.32	
3: 0:19	41.5436	1291.71		
3: 5: 4	41.6228		210.30	
3: 5:26	41.6289	1291.76		
3:10:10	41.7078		210.28	
3:10:31	41.7136	1291.82		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
3:15:17	41.7931		210.28	
3:15:38	41.7989	1291.90		
3:20:22	41.8778		210.26	
3:20:44	41.8839	1291.96		
3:25:28	41.9628		210.25	
3:25:49	41.9686	1292.02		
3:30:35	42.0481		210.23	
3:30:56	42.0539	1292.08		
3:35:40	42.1328		210.22	
3:36: 2	42.1389	1292.16		
3:40:46	42.2178		210.21	
3:41: 7	42.2236	1292.22		
3:45:53	42.3031		210.19	
3:46:14	42.3089	1292.29		
3:50:58	42.3878		210.18	
3:51:20	42.3939	1292.35		
3:56: 5	42.4731		210.16	
3:56:25	42.4786	1292.42		
4: 1:11	42.5581		210.15	
4: 1:31	42.5636	1292.49		
4: 6:16	42.6428		210.13	
4: 6:38	42.6489	1292.55		
4:11:23	42.7281		210.12	
4:11:43	42.7336	1292.62		
4:16:29	42.8131		210.10	
4:16:49	42.8186	1292.69		
4:21:34	42.8978		210.09	
4:21:55	42.9036	1292.75		
4:26:40	42.9828		210.07	
4:27: 1	42.9886	1292.82		
4:31:47	43.0681		210.06	
4:32: 8	43.0739	1292.89		
4:36:52	43.1528		210.05	
4:37:13	43.1586	1292.95		
4:41:59	43.2381		210.03	
4:42:19	43.2436	1293.02		
4:47: 5	43.3231		210.02	
4:47:26	43.3289	1293.08		
4:52:10	43.4078		210.01	
4:52:31	43.4136	1293.14		
4:57:16	43.4928		209.99	
4:57:37	43.4986	1293.20		
5: 2:22	43.5778		209.97	
5: 2:44	43.5839	1293.26		
5: 7:29	43.6631		209.96	
5: 7:49	43.6686	1293.32		
5:12:35	43.7481		209.95	
5:12:55	43.7536	1293.41		
5:17:40	43.8328		209.93	
5:18: 2	43.8389	1293.46		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
5:22:46	43.9178		209.92	
5:23: 7	43.9236	1293.53		
5:27:53	44.0031		209.90	
5:28:14	44.0089	1293.59		
5:32:58	44.0878		209.89	
5:33:20	44.0939	1293.21		
5:38: 4	44.1728		209.88	
5:38:25	44.1786	1293.73		
5:43:11	44.2581		209.86	
5:43:32	44.2639	1293.80		
5:48:16	44.3428		209.85	
5:48:38	44.3489	1293.85		
5:53:23	44.4281		209.84	
5:53:43	44.4336	1293.92		
5:58:29	44.5131		209.83	
5:58:50	44.5189	1293.98		
6: 3:34	44.5978		209.81	
6: 3:56	44.6039	1294.06		
6: 8:41	44.6831		209.80	
6: 9: 1	44.6886	1294.12		
6:13:47	44.7681		209.79	
6:14: 8	44.7739	1294.20		
6:18:52	44.8528		209.77	
6:19:14	44.8589	1294.25		
6:23:59	44.9381		209.76	
6:24:19	44.9436	1294.27		
6:29: 5	45.0231		209.75	
6:29:26	45.0289	1294.29		
6:34:10	45.1078		209.74	
6:34:31	45.1136	1294.32		
6:39:16	45.1928		209.75	
6:39:37	45.1986	1294.36		
6:44:23	45.2781		209.72	
6:44:44	45.2839	1294.42		
6:49:28	45.3628		209.70	
6:49:49	45.3686	1294.47		
6:54:35	45.4481		209.68	
6:54:55	45.4536	1294.52		
6:59:41	45.5331		209.66	
7: 0: 2	45.5389	1294.58		
7: 4:46	45.6178		209.64	
7: 5: 7	45.6236	1294.64		
7: 9:53	45.7031		209.62	
7:10:13	45.7086	1294.70		
7:14:58	45.7878		209.60	
7:15:20	45.7939	1294.80		
7:20: 4	45.8728		209.58	
7:20:25	45.8786	1294.90		
7:25:10	45.9578		209.56	
7:25:31	45.9636	1295.00		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
7:30:16	46.0428		1209.54	
7:30:38	46.0489	1295.11		
7:35:22	46.1278		209.52	
7:35:43	46.1336	1295.23		
7:40:29	46.2131		209.50	
7:40:50	46.2189	1295.27		
7:45:34	46.2978		209.48	
7:45:56	46.3039	1295.35		
7:50:40	46.3828		209.47	
7:51: 1	46.3886	1295.43		
7:55:47	46.4681		209.46	
7:56: 8	46.4739	1295.47		
8: 0:52	46.5528		209.45	
8: 1:14	46.5589	1295.53		
8: 5:59	46.6381		209.45	
8: 6:20	46.6439	1295.65		
8:18: 9	46.8408		209.45	
8:18:29	46.8464	1295.76		
8:23:15	46.9258		209.44	
8:23:36	46.9317	1295.81		
8:28:20	47.0106		209.44	
8:28:42	47.0167	1295.89		
8:33:26	47.0956		209.43	
8:33:47	47.1014	1295.95		
8:38:33	47.1808		209.42	
8:38:54	47.1867	1296.01		
8:43:38	47.2656		209.41	
8:43:60	47.2717	1296.08		
8:48:45	47.3508		209.39	
8:49: 5	47.3564	1296.14		
8:53:51	47.4358		209.38	
8:54:12	47.4417	1296.20		
8:58:56	47.5206		209.37	
8:59:18	47.5267	1296.26		
9: 4: 3	47.6058		209.36	
9: 4:23	47.6114	1296.32		
9: 9: 9	47.6908		209.35	
9: 9:30	47.6967	1296.39		
9:14:14	47.7756		209.34	
9:14:35	47.7814	1296.46		
9:19:21	47.8608		209.33	
9:19:41	47.8664	1296.51		
9:24:27	47.9458		209.32	
9:24:48	47.9517	1296.57		
9:29:33	48.0308		209.30	
9:29:53	48.0364	1296.64		
9:34:39	48.1158		209.29	
9:34:59	48.1214	1296.69		
9:39:45	48.2008		209.28	
9:40: 6	48.2067	1296.77		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:44:50	48.2856		209.27	
9:45:11	48.2914	1296.83		
9:49:56	48.3706		209.25	
9:50:17	48.3764	1296.89		
9:55: 2	48.4556		209.24	
9:55:24	48.4617	1296.95		
10: 0: 8	48.5406		209.23	
10: 0:29	48.5464	1297.01		
10: 5:14	48.6256		209.22	
10: 5:35	48.6314	1297.08		
10:10:20	48.7106		209.20	
10:10:42	48.7167	1297.15		
10:15:26	48.7956		209.19	
10:15:47	48.8014	1297.20		
10:20:33	48.8808		209.18	
10:20:54	48.8867	1297.26		
10:25:38	48.9656		209.17	
10:26: 0	48.9717	1297.33		
10:30:44	49.0506		209.16	
10:31: 5	49.0564	1297.39		
10:35:51	49.1358		209.14	
10:36:11	49.1414	1297.45		
10:40:56	49.2206		209.13	
10:41:18	49.2267	1297.52		
10:46: 2	49.3056		209.12	
10:46:23	49.3114	1297.57		
10:51: 9	49.3908		209.11	
10:51:30	49.3967	1297.65		
10:56:14	49.4756		209.10	
10:56:36	49.4817	1297.70		
11: 1:21	49.5608		209.08	
11: 1:41	49.5664	1297.76		
11: 6:27	49.6458		209.07	
11: 6:48	49.6517	1297.82		
11:11:32	49.7306		209.06	
11:11:54	49.7367	1297.89		
11:16:39	49.8158		209.05	
11:16:50	49.8217	1297.95		
11:21:45	49.9008		209.03	
11:22: 6	49.9067	1298.01		
11:26:50	49.9856		209.02	
11:27:11	49.9914	1298.08		
11:31:57	50.0708		209.01	
11:32:18	50.0767	1298.14		
11:37: 3	50.1558		209.00	
11:37:24	50.1617	1298.20		
11:42: 9	50.2408		208.98	
11:42:29	50.2464	1298.26		
11:47:15	50.3258		208.97	
11:47:35	50.3314	1298.32		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
11:52:21	50.4108		208.96	
11:52:42	50.4167	1298.39		
11:57:26	50.4956		208.95	
11:57:47	50.5014	1298.45		
12: 2:33	50.5808		208.93	
12: 2:53	50.5864	1298.51		
12: 7:38	50.6656		208.92	
12: 7:60	50.6717	1298.58		
12:12:44	50.7506		208.91	
12:13: 5	50.7564	1298.64		
12:17:51	50.8358		208.90	
12:18:11	50.8414	1298.70		
12:22:56	50.9206		208.88	
12:23:18	50.9267	1298.76		
12:28: 2	51.0056		208.87	
12:28:23	51.0114	1298.82		
12:33: 9	51.0908		208.86	
12:33:30	51.0967	1298.89		
12:38:14	51.1756		208.85	
12:38:36	51.1817	1298.96		
12:43:20	51.2606		208.84	
12:43:41	51.2664	1299.02		
12:48:27	51.3458		208.83	
12:48:48	51.3517	1299.08		
12:53:32	51.4306		208.82	
12:53:54	51.4367	1299.15		
12:58:38	51.5156		208.80	
12:58:59	51.5214	1299.21		
13: 3:45	51.6008		208.79	
13: 4: 5	51.6064	1299.27		
13: 8:50	51.6856		208.79	
13: 9:12	51.6917	1299.34		
13:13:56	51.7706		208.78	
13:14:17	51.7764	1299.40		
13:19: 3	51.8558		208.77	
13:19:24	51.8617	1299.47		
13:24: 8	51.9406		208.76	
13:24:30	51.9467	1299.54		
13:29:15	52.0258		208.75	
13:29:35	52.0314	1299.59		
13:34:21	52.1108		208.74	
13:34:41	52.1164	1299.67		
13:39:26	52.1956		208.73	
13:39:47	52.2014	1299.72		
13:44:33	52.2808		208.72	
13:44:53	52.2864	1299.79		
13:49:39	52.3658		208.71	
13:49:59	52.3714	1299.86		
13:54:44	52.4506		208.69	
13:55: 5	52.4564	1299.91		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
13:59:50	52.5356		208.68	
14: 0:11	52.5414	1299.97		
14: 4:57	52.6208		208.68	
14: 5:18	52.6267	1300.04		
14:10: 3	52.7058		208.66	
14:10:23	52.7114	1300.10		
14:15: 9	52.7908		208.65	
14:15:29	52.7964	1300.16		
14:20:14	52.8756		208.63	
14:20:36	52.8817	1300.22		
14:25:20	52.9606		208.62	
14:25:41	52.9664	1300.28		
14:30:27	53.0458		208.61	
14:30:48	53.0517	1300.35		
14:35:32	53.1306		208.60	
14:35:54	53.1367	1300.41		
14:40:39	53.2158		208.59	
14:40:59	53.2214	1300.47		
14:45:45	53.3008		208.58	
14:46: 6	53.3067	1300.54		
14:50:50	53.3856		208.57	
14:51:12	53.3917	1300.59		
14:55:56	53.4706		208.56	
14:56:17	53.4764	1300.66		
15: 1: 3	53.5558		208.55	
15: 1:24	53.5617	1300.72		
15: 6: 8	53.6406		208.53	
15: 6:30	53.6467	1300.78		
15:11:15	53.7258		208.52	
15:11:35	53.7314	1300.84		
15:16:21	53.8108		208.51	
15:16:41	53.8164	1300.90		
15:21:26	53.8956		208.50	
15:21:48	53.9017	1300.96		
15:26:33	53.9808		208.49	
15:26:53	53.9864	1301.03		
15:31:39	54.0658		208.48	
15:32: 0	54.0717	1301.10		
15:36:44	54.1506		208.47	
15:37: 5	54.1564	1301.17		
15:41:51	54.2358		208.47	
15:42:11	54.2414	1301.23		
15:46:57	54.3208		208.46	
15:47:18	54.3267	1301.29		
15:52: 3	54.4058		208.44	
15:52:23	54.4114	1301.35		
15:57: 9	54.4908		208.44	
15:57:29	54.4964	1301.41		
16: 2:15	54.5758		208.43	
16: 2:35	54.5814	1301.47		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
16: 7:20	54.6606		208.42	
16: 7:41	54.6664	1301.53		
16:12:26	54.7456		208.41	
16:12:47	54.7514	1301.58		
16:17:32	54.8306		208.39	
16:17:54	54.8367	1301.65		
16:22:38	54.9156		208.38	
16:22:59	54.9214	1301.71		
16:27:44	55.0006		208.38	
16:28: 5	55.0064	1301.77		
16:32:50	55.0856		208.37	
16:33:12	55.0917	1301.83		
16:37:56	55.1706		208.36	
16:38:17	55.1764	1301.89		
16:43: 3	55.2558		208.35	
16:43:24	55.2617	1301.96		
16:48: 8	55.3406		208.33	
16:48:30	55.3467	1302.02		
16:53:14	55.4256		208.33	
16:53:35	55.4314	1302.07		
16:58:21	55.5108		208.32	
16:58:41	55.5164	1302.14		
17: 3:26	55.5956		208.30	
17: 3:48	55.6017	1302.20		
17: 8:33	55.6808		208.30	
17: 8:53	55.6864	1302.26		
17:13:39	55.7658		208.29	
17:14: 0	55.7717	1302.32		
17:18:44	55.8506		208.28	
17:19: 6	55.8567	1302.38		
17:23:51	55.9358		208.27	
17:24:11	55.9414	1302.44		
17:28:57	56.0208		208.26	
17:29:18	56.0267	1302.51		
17:34: 2	56.1056		208.24	
17:34:24	56.1117	1302.56		
17:39: 9	56.1908		208.23	
17:39:29	56.1964	1302.62		
17:44:15	56.2758		208.22	
17:44:36	56.2817	1302.68		
17:49:20	56.3606		208.21	
17:49:41	56.3664	1302.74		
17:54:27	56.4458		208.20	
17:54:48	56.4517	1302.80		
17:59:33	56.5308		208.19	
17:59:54	56.5367	1302.87		
18: 4:38	56.6156		208.18	
18: 4:59	56.6214	1302.92		
18: 9:45	56.7008		208.17	
18:10: 5	56.7064	1302.98		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
18:14:51	56.7858		208.16	
18:15:12	56.7917	1302.60		
18:19:56	56.8706		208.15	
18:20:17	56.8764	1303.10		
18:25:3	56.9558		208.14	
18:25:23	56.9614	1303.17		
18:30:8	57.0406		208.14	
18:30:30	57.0467	1303.23		
18:35:14	57.1256		208.12	
18:35:35	57.1314	1303.29		
18:40:21	57.2108		208.12	
18:40:41	57.2164	1303.35		
18:45:26	57.2956		208.11	
18:45:48	57.3017	1303.40		
18:50:32	57.3806		208.10	
18:50:53	57.3864	1303.47		
18:55:39	57.4658		208.09	
18:56:0	57.4717	1303.52		
19:0:44	57.5506		208.08	
19:1:6	57.5567	1303.59		
19:5:50	57.6356		208.07	
19:6:11	57.6414	1303.64		
19:10:57	57.7208		208.06	
19:11:18	57.7267	1303.71		
19:16:2	57.8056		208.04	
19:16:24	57.8117	1303.76		
19:21:8	57.8906		208.04	
19:21:29	57.8964	1303.82		
19:26:15	57.9758		208.03	
19:26:35	57.9814	1303.89		
19:31:20	58.0606		208.02	
19:31:42	58.0667	1303.95		
19:36:26	58.1456		208.01	
19:36:47	58.1514	1304.01		
19:41:33	58.2308		208.00	
19:41:54	58.2367	1304.06		
19:46:38	58.3156		207.99	
19:47:0	58.3217	1304.13		
19:51:45	58.4008		207.98	
19:52:5	58.4064	1304.18		
19:56:51	58.4858		207.97	
19:57:11	58.4914	1304.25		
20:1:56	58.5706		207.96	
20:2:17	58.5764	1304.31		
20:7:3	58.6558		207.95	
20:7:24	58.6617	1304.36		
20:12:9	58.7408		207.94	
20:12:30	58.7467	1304.43		
20:17:15	58.8258		207.93	
20:17:35	58.8314	1304.48		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
20:22:21	58.9108		207.92	
20:22:41	58.9164	1304.54		
20:27:27	58.9958		207.91	
20:27:48	59.0017	1304.60		
20:32:33	59.0808		207.90	
20:32:53	59.0864	1304.66		
20:37:39	59.1658		207.89	
20:37:59	59.1714	1304.72		
20:42:44	59.2506		207.88	
20:43: 6	59.2567	1304.78		
20:47:50	59.3356		207.87	
20:48:11	59.3414	1304.84		
20:52:57	59.4208		207.86	
20:53:18	59.4267	1304.91		
20:58: 2	59.5056		207.85	
20:58:24	59.5117	1304.96		
21: 3: 8	59.5906		207.84	
21: 3:29	59.5964	1305.02		
21: 8:15	59.6758		207.83	
21: 8:36	59.6817	1305.09		
21:13:20	59.7606		207.82	
21:13:42	59.7667	1305.14		
21:18:26	59.8456		207.81	
21:18:47	59.8514	1305.20		
21:23:33	59.9308		207.80	
21:23:54	59.9367	1305.70		
21:28:38	60.0156		207.80	
21:28:60	60.0217	1305.32		
21:33:45	60.1008		207.79	
21:34: 5	60.1064	1305.38		
21:38:51	60.1858		207.78	
21:39:11	60.1914	1305.44		
21:43:56	60.2706		207.76	
21:44:18	60.2767	1305.50		
21:49: 3	60.3558		207.76	
21:49:23	60.3614	1305.56		
21:54: 9	60.4408		207.75	
21:54:30	60.4467	1305.61		
21:59:14	60.5256		207.74	
21:59:35	60.5314	1305.67		
22: 4:20	60.6106		207.73	
22: 4:41	60.6164	1305.73		
22: 9:27	60.6958		207.72	
22: 9:48	60.7017	1305.80		
22:14:32	60.7806		207.71	
22:14:53	60.7864	1305.85		
22:19:39	60.8658		207.70	
22:19:59	60.8714	1305.91		
22:24:45	60.9508		207.69	
22:25: 5	60.9564	1305.98		

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REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
22:29:50	61.0356		207.69	
22:30:11	61.0414	1306.04		
22:34:56	61.1206		207.67	
22:35:17	61.1264	1306.09		
22:40: 2	61.2056		207.66	
22:40:24	61.2117	1306.16		
22:45: 8	61.2906		207.66	
22:45:29	61.2964	1306.22		
22:50:14	61.3756		207.64	
22:50:35	61.3814	1306.27		
22:55:20	61.4606		207.64	
22:55:42	61.4667	1306.33		
23: 0:26	61.5456		207.63	
23: 0:47	61.5514	1306.39		
23: 5:33	61.6308		207.62	
23: 5:54	61.6367	1306.45		
23:10:38	61.7156		207.61	
23:11: 0	61.7217	1306.96		
23:15:44	61.8006		207.60	
23:16: 5	61.8064	1306.56		
23:20:51	61.8858		207.59	
23:21:12	61.8917	1306.63		
23:25:56	61.9706		207.58	
23:26:18	61.9767	1306.69		
23:31: 3	62.0558		207.58	
23:31:23	62.0614	1306.75		
23:36: 9	62.1408		207.56	
23:36:30	62.1467	1306.80		
23:41:14	62.2256		207.55	
23:41:36	62.2317	1306.86		
23:46:21	62.3108		207.54	
23:46:41	62.3164	1306.92		

WELL: Daralingie # 20

Pf = 3850 kPa

ORIFICE SIZE: 32.000 mm 1.260 "

T = 59 °C

LINE SIZE: 73.660 mm 2.900 "

Diff = 15 kPa

Cumulative Production to end of Feb '91 = 46.2 m³ x 10⁶ ✓

Number of hours online in Feb '91 = 27.8 days ✓

Production in Feb '91 = 0.7870 m³ x 10⁶ ✓

.. Average flow rate in Feb '91 = $(0.7870 / 27.8) \times 24 = 0.028 \text{ m}^3 \times 10^6 / \text{d}$ ✓

Number of days online in March before Shut In 1800 hrs 17 / 3 / 91
= 16.5 days.

.. Production up to 1800 hrs 17 / 3 / 91 = 16.5 x 0.028 = 0.462 m³ x 10⁶

Total cumulative production = 0.462 + 46.2
= 46.662 m³ x 10⁶
= 1656.221 mmscf ✓

Flow rate just prior to Shut In = 0.043 m³ x 10⁶
= 1.525 mmscf/d ✓

h

SUB-SURFACE PRESSURE SURVEY

000094

CO.		RUN 01 FIELD DARALINGIE	WELL 20
EFF DEPTH		WELL STAT	TOOL HUNG 7413'
CASING	-	CASING PRESS	ON BOTTOM 1305 17/3
LINER	-	TUBING PRESS	OFF BOTTOM 1800 21/3
DATE	910321	ELEMENT RANGE 0 - 4137	ZERO POINT
ELEVATION		ZONE	SHUT-IN 1800 17/3
MAX TEMP	265 °F	PICK-UP	ON-PROD
PERF	-	CAL SER NO. 22410	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BUILD-UP

SURVEY DATA

CO.	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
	18:00	921.2	921.2	.0	23:00	1183.4	1183.4	5.0
	18:01	950.0	950.0	.0	1:22	1185.3	1185.3	7.4
	18:03	987.5	987.5	.0	4:08	1186.3	1186.3	10.1
	18:05	1031.7	1031.7	.1	7:57	1191.2	1191.2	14.0
	18:05	1074.7	1074.7	.1	11:19	1193.1	1193.1	17.3
	18:06	1116.9	1116.9	.1	14:55	1194.4	1194.4	20.9
	18:08	1145.1	1145.1	.1	19:43	1196.0	1196.0	25.7
	18:10	1151.5	1151.5	.2	23:52	1197.8	1197.8	29.9
	18:12	1158.3	1158.3	.2	5:28	1201.8	1201.8	35.5
	18:17	1163.2	1163.2	.3	12:11	1203.3	1203.3	42.2
	18:25	1167.3	1167.3	.4	19:10	1205.9	1205.9	49.2
	18:34	1167.2	1167.2	.6	1:19	1208.0	1208.0	55.3
	18:42	1170.0	1170.0	.7	9:41	1209.4	1209.4	63.7
	18:46	1172.1	1172.1	.8	16:01	1215.1	1215.1	70.0
	18:50	1176.2	1176.2	.8	23:41	1214.4	1214.4	77.7
	18:55	1179.8	1179.8	.9	7:48	1218.2	1218.2	85.8
	18:59	1184.5	1184.5	1.0	9:56	1213.8	1213.8	87.9
	19:10	1181.6	1181.6	1.2	11:01	1221.4	1221.4	89.0
	19:24	1179.6	1179.6	1.4	13:42	1223.5	1223.5	91.7
	20:18	1180.7	1180.7	2.3	18:00	1223.2	1223.2	96.0
	21:26	1181.7	1181.7	3.4	0:00	.0	.0	.0

LUB IN DWT = 583 PSI / OUT = 968 PSI
 LUB IN AMERADA = 564 PSI / OUT = 952 PSI

SUB-SURFACE PRESSURE SURVEY

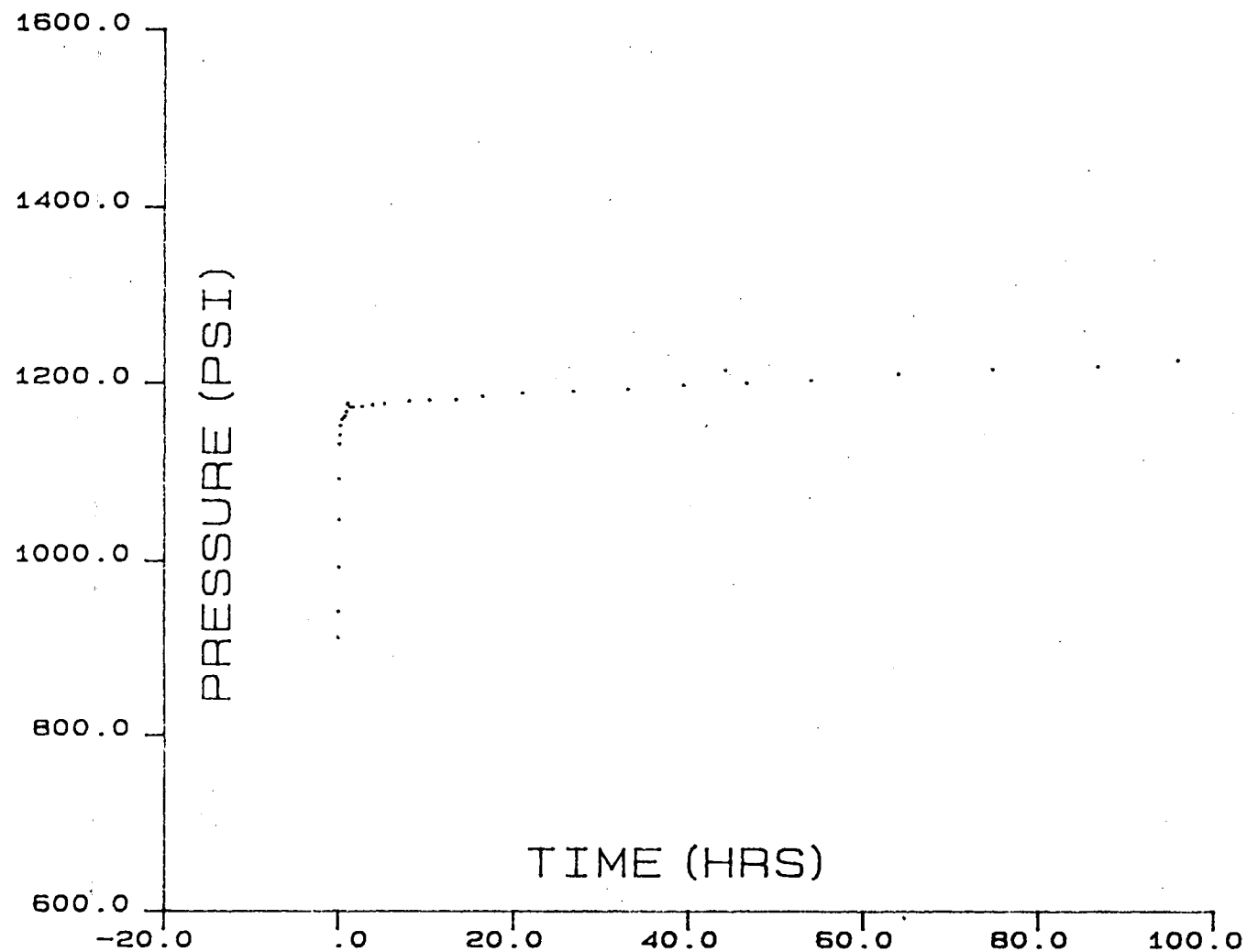
CO.		RUN 02 FIELD DARALINGIE	WELL 20
EFF DEPTH		WELL STAT	TOOL HUNG 7419'
CASING	-	CASING PRESS	ON BOTTOM 1305 17/3
LINER	-	TUBING PRESS	OFF BOTTOM 1800 21/3
DATE	910321	ELEMENT RANGE 0 - 4096	ZERO POINT
ELEVATION		ZONE	SHUT-IN 1800 17/3
MAX TEMP	265°F	PICK-UP	ON-PROD
PERF	-	CAL SER NO. 21374	MPP
TUBING	-		
UNITS	ENGLISH	PURPOSE	BUILD-UP

SURVEY DATA

CO.	RUN 02 FIELD DARALINGIE				WELL 20			
	TIME	P-T	DP-DT	DTIME	TIME	P-T	DP-DT	DTIME
	18:00	911.9	911.9	.0	21:51	1174.8	1174.8	3.8
	18:02	941.9	941.9	.0	23:16	1176.1	1176.1	5.3
	18:03	992.4	992.4	.1	2:05	1179.3	1179.3	8.1
	18:04	1045.8	1045.8	.1	4:24	1180.0	1180.0	10.4
	18:05	1090.9	1090.9	.1	7:27	1180.8	1180.8	13.5
	18:08	1130.7	1130.7	.1	10:28	1184.8	1184.8	16.5
	18:10	1140.8	1140.8	.2	15:02	1189.0	1189.0	21.0
	18:15	1151.2	1151.2	.2	20:50	1191.1	1191.1	26.8
	18:22	1157.4	1157.4	.4	3:05	1193.2	1193.2	33.1
	18:33	1159.6	1159.6	.6	9:28	1198.5	1198.5	39.5
	18:45	1161.8	1161.8	.8	16:40	1201.2	1201.2	46.7
	18:51	1167.0	1167.0	.9	0:01	1204.6	1204.6	54.0
	18:59	1174.9	1174.9	1.0	10:02	1211.2	1211.2	64.0
	19:04	1176.1	1176.1	1.1	20:50	1216.5	1216.5	74.8
	19:18	1171.5	1171.5	1.3	8:51	1219.3	1219.3	86.9
	19:41	1171.9	1171.9	1.7	18:00	1226.3	1226.3	96.0
	20:42	1172.9	1172.9	2.7	0:00	.0	.0	.0

LUB IN DWT = 583 PSI / OUT = 968 PSI
 LUB IN AMERADA = 565 PSI / OUT = 953 PSI

DARALINGIE #20 BUILD-UP MARCH 1991
ELEMENT #21374 (BOT) @7419'KB



960000

EXPERTEST

CIRCUIT & WELL TESTING SERVICE

PO BOX 354 (COMMERCIAL CITY)

PH. (08) 934 0100 TELE (93) 41 11

FAX (08) 93 7555

120 PETERBORO ROAD MARLBOROUGH
SOUTH AUSTRALIA 5003

Tested Friday, 22nd March 1991.

CLIENT	LOCATION	FORMATION
Santos Ltd.	DARLINGIE #26	PATCHAUPARRA

STATIC PRESSURE GRADIENT REPORT

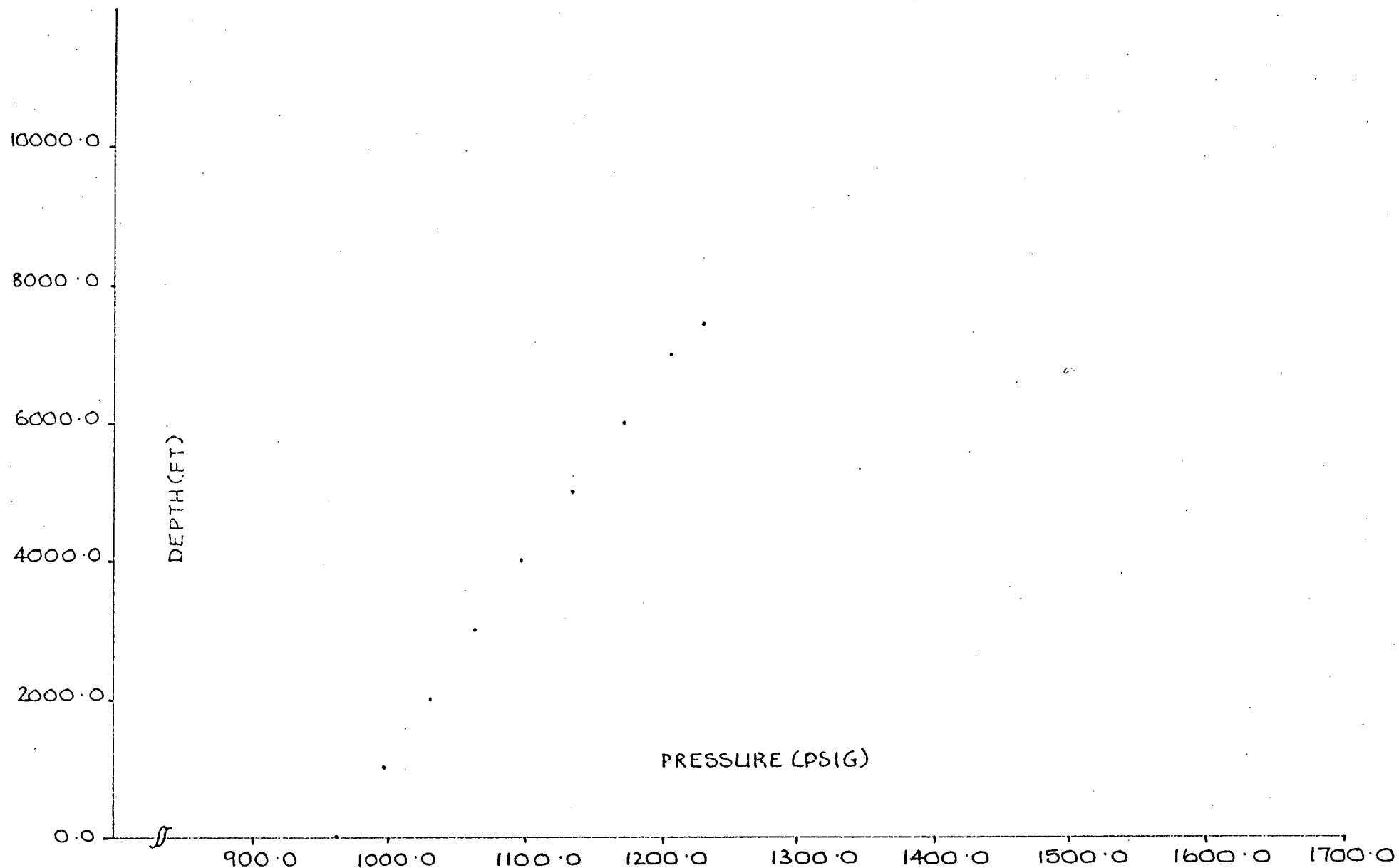
PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	22410	4100	2/ 2/91
Bottom	21374	4075	2/ 2/91

WELL DATA	
PARAMETER	VALUE
DUT In	972 PSIG
DUT Out	971 PSIG
Max BHT	ELEMENT 265°F

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.4740	959.8	---	0.4740	962.0	---
1000	0.4850	988.4	0.029	0.4960	996.4	0.034
2000	0.5000	1029.3	0.041	0.5130	1030.8	0.034
3000	0.5250	1064.1	0.035	0.5290	1063.2	0.032
4000	0.5430	1100.9	0.037	0.5460	1097.6	0.034
5000	0.5550	1133.6	0.033	0.5640	1134.1	0.037
6000	0.5740	1164.3	0.031	0.5820	1170.6	0.037
7000	0.5910	1199.0	0.035	0.5990	1205.1	0.035
7425	0.6005	1219.5	0.046	0.6110	1229.4	0.057
LUB.	0.4740	959.8	---	0.4770	957.8	---

GENERAL REMARKS

DARALINGIE # 20 — STATIC PRESSURE GRADIENT — 22 / 3 / 91
ELEMENT # 21374 / 4075 (BOT)



860000

BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS.

WELL NAME: DARALINGIE #20.

TEST TYPE : *STATIC GRADIENT*

PERFORATIONS: 7462' - 7497' KB.

FORMATION : PATCHANARRA.

PAGE: ONE OF ONE

DATE: 22/3/91.

OPR : G. GIANCASPRO.

GAUGE DATA				RUN DATA		TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)
ELEMENT SERIAL NO.	22410	21374	29217	DATE	22/3/91			
ELEMENT RANGE	4100 PSI	4075 PSI	144° - 338°F	PRESSURE LUBRICATOR		11:47	6702	0
RECORDING SECTION SERIAL NO.	14627	14623	14633	RUN IN HOLE		12:03	6702	0
DATE OF CALIBRATION:	2225°F	2/2/91	2/2/91	ON DEPTH AT	7425 FT/M	13:00	6633	0
CLOCK SERIAL NO.	A-1502	A-1503	A-1504	DATE	22/3/91			
CLOCK RANGE	3hr	3hr	3hr	PULL OUT OF HOLE		13:15	6633	0
LEAD SCREW TYPE	15T5	15T5	15T5	AT SURFACE		13:37	6695	0
				DEPRESSURE LUBRICATOR		13:52	6695	0
ENGAGE STYLUS DATE	22/3/91	TIME	11:37	11:37	11:37	MAXIMUM BHT AT	RAN ELEMENT	FT/M = °FIC
DISENGAGE STYLUS DATE	22/3/91	TIME	14:00	14:00	14:00	N.B. ALL DEPTHS ARE MEASURED FROM K.B.		

[illegible]

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS

PERFORATIONS: 7462' - 7497'

PAGE: 1 OF 1

WELL NAME: DARALINGIE #20

FORMATION : PATCHAWARRA.

DATE: 17.3.91

TEST TYPE : BHPS.

OPR : M. MUELLER.

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

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

ELEMENT SERIAL NO.

22410

21374

29217

DATE : 17.3.91

ELEMENT RANGE

4100 PSI

4075 PSI

144-358 °F

PRESSURE LUBRICATOR :

1050

4020

Ø

RECORDING SECTION SERIAL NO.

14627

14623

14633

RUN IN HOLE :

1250

4027

Ø

DATE OF CALIBRATION: @ 225° F

2.2.91

2.2.91

ON DEPTH AT : 7425 FT/M

1305

4020

Ø

CLOCK SERIAL NO.

F-15295

F-15693

F-15691

DATE : 21/3/91

CLOCK RANGE

120 HR

120 HR

120 HR

PULL OUT OF HOLE :

18:00

6674

Ø

LEAD SCREW TYPE

15 T.S

15 T.S

15 T.S

AT SURFACE :

18:25

6674

Ø

DEPRESSURE LUBRICATOR : 22/3/91

Ø7:40

6674

Ø

ENGAGE STYLUS DATE 17.3.91

TIME

1041

1041

1041

MAXIMUM BHT AT 7425 FT/M = RAN ELEMENT. °F 265° F 96°

DISENGAGE STYLUS DATE 22/3/91

TIME

Ø7:50

Ø7:50

Ø7:50

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

DATE

TIME

REMARKS

17/3/91

18:00

S.W.1 IN FOR 96HR BUILD UP.

IN / OUT

RUN

TOP 564 / 952

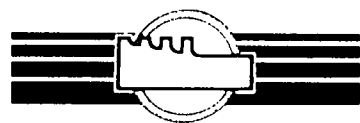
01

BOT 565 / 953

02

CUSTOMER :	SANTOS	PERFORATIONS:	7462 - 7497	PAGE:	1	OF	1
WELL NAME:	DARALINGIE #20	FORMATION :	PATCIAWARRA	DATE:	16.3.91.		
TEST TYPE :	BIIPS			OPR :	M. MUELLER		

0010



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7462' - 7497'

PAGE: 1 OF 3

WELL NAME: DARALINGIE #20

FORMATION : PATCHAWARRA

DATE: 17.3.91

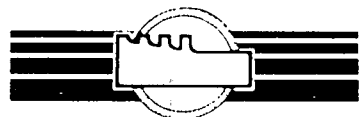
TEST TYPE : BHPS

OPR : M/MUELLER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION						
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD m³10³/D	OIL BPD m³/D	WATER BPD m³/D	GAS MMSCF m³10³	OIL BBLS m³	WATER BBLS m³				
17.3.91																	
1050		4020	Ø	53	100 %	PRESSURE LUBRICATOR FOR BHPS											
1150		4013	Ø	54	"	DEPRESSURE LUBRICATOR											
1250		4027	Ø	54	"	PRESSURE LUBRICATOR & RUN GAUGES IN HOLE											
1305		4020	Ø	55	"	HANG GAUGES @ 7425' KB											
1400	1	4034	Ø	55	"												
1430		4034	Ø	55	"												
1500	2	4034	Ø	54	"												
1530		4020	Ø	54	"												
1600	3	4013	Ø	53	"												
1630		4020	Ø	52	"												
1700	4	4020	Ø	52	"												
1730		4020	Ø	51	"												
1800	5	4013	Ø	49	"	SHUT WELL IN FOR 96 HR BUILD UP.											
1815		6357	Ø														
1830		6378	Ø														
1845		6426	Ø														
1900	1	6474	Ø														
1915		6468	Ø														
1930		6461	Ø														
1945		6461	Ø														
2000	2	6461	Ø														

00010

000102



TEST RESULTS

CUSTOMER : SANTOS

PERFORATIONS: 7462' - 7497'

PAGE: 2 OF 3

WELL NAME: DARALINGIE # 20

FORMATION : PATCHANARRA

DATE: 17.3.91

TEST TYPE : BHPS

OPR : M. MUELLER

TIME		WELLHEAD DATA						FLOW RATES			CUMULATIVE PRODUCTION				
DATE TIME	FLOW OR SHUT IN TIME (HOURS)	TUBING PRESSURE (PSI/KPa)	ANNULUS PRESSURE (PSI/KPa)	WELLHEAD TEMP (°F/°C)	CHOKE SIZE	PRESSURE (PSI/KPa)	TEMP (°F/°C)	GAS MMSCFD m³10³/D	OIL BPD m³/D	WATER BPD m³/D	GAS MMSCF m³10³	OIL BBLS m³	WATER BBLS m³		
17.3.91															
2015		6461	Ø												
2030		6461	Ø												
2045		6468	Ø												
2100	3	6468	Ø												
2115		6468	Ø												
2130		6468	Ø												
2145		6468	Ø												
2200	4	6468	Ø												
18.3.91															
0200	8	6481	Ø												
0600	12	6488	Ø												
1000	16	6495	Ø												
1400	20	6516	Ø												
1800	24	6523	Ø												
2200	28	6530	Ø												
19.3.91															
0200	32	6543	Ø												
0600	36	6550	Ø												
1000	40	6557	Ø												
1400	44	6571	Ø												
1800	48	6585	Ø												

00010

TEST RESULTS

CUSTOMER :	SANTOS
WELL NAME:	DARAKINGIE 20
TEST TYPE :	BHPS

PERFORATIONS: 7462' - 7497'

FORMATION : PATCHAWARRA

PAGE: 3 OF 3
DATE: 12.3.91
OPR: M. MUELLER

0010

	PERFORATIONS
	FORMATION
EAST	

WELL NAME: DARALINGIE # 20

FORMATION : PATCHAWARRA

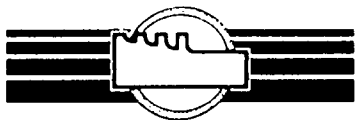
DATE: 16-6-92

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[illegible]

00108

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BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS

PERFORATIONS: 7462' → 7497' K.B.

PAGE: 1. OF 1.

WELL NAME: DARALINGIE #20.

FORMATION : PATCHAWARRA

DATE: 16-6-92

TEST TYPE : STATIC GRADIENT

OPR : A. SMITH

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

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

ELEMENT SERIAL NO.

29388

29386

DATE

16-6-92

ELEMENT RANGE

PSI

3000

2975

PRESSURE LUBRICATOR

12:29

6053

138

RECORDING SECTION SERIAL NO.

6100

61373

RUN IN HOLE

12:49

DATE OF CALIBRATION:

17-3-92

-

-

ON DEPTH AT

7425 FT/M

13:40

CLOCK SERIAL NO.

K 3054

K1850

DATE

16-6-92

CLOCK RANGE

HR

3

3

PULL OUT OF HOLE

13:55

LEAD SCREW TYPE

TUS

15

15

AT SURFACE

14:07

DEPRESSURE LUBRICATOR

14:27

6053

138

ENGAGE STYLUS DATE

16-6-92

TIME

12:24

12:24

MAXIMUM BHT AT 7425 FT/M = 132 $\frac{1}{2}$ C

DISENGAGE STYLUS DATE

— " —

TIME

14:30

14:30

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

DATE

TIME

REMARKS

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183

FAX (08) 43 7408

136 RICHMOND ROAD MARLESTON

SOUTH AUSTRALIA 5033

Tested Tuesday, 16th June 1992.

CLIENT	LOCATION	FORMATION
Santos Ltd.	DARALINGIE#20	PATCHAWARRA

STATIC PRESSURE GRADIENT REPORT

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29388	3000	17/ 3/92
Bottom	29386	2975	17/ 3/92

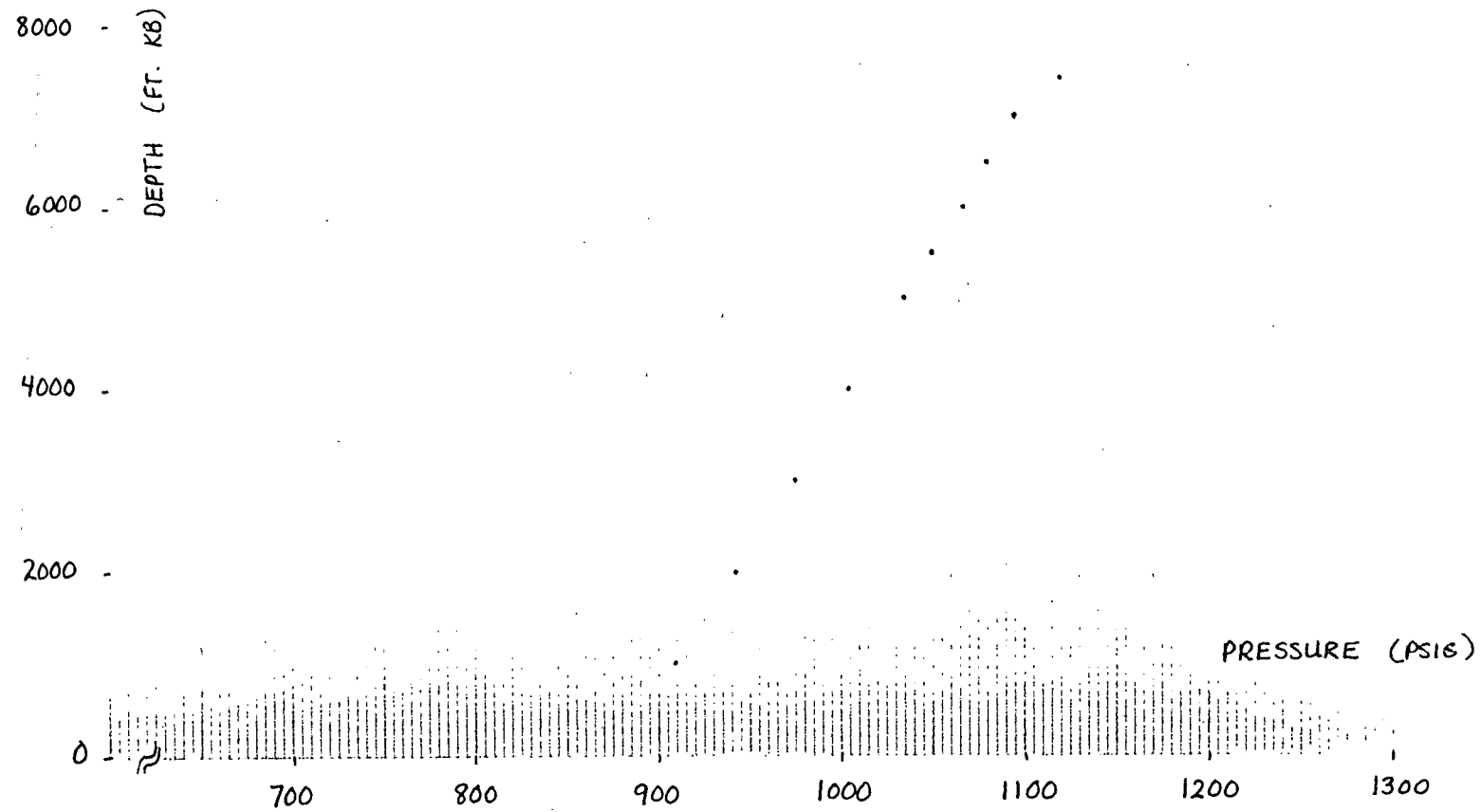
WELL DATA	
PARAMETER	VALUE
DWT In	878 PSIG
DWT Out	878 PSIG
Max BHT	270 F

DEPTH FT. KB	TOP ELEMENT			BOTTOM ELEMENT		
	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.5770	879.8	----	0.5820	870.1	----
1000	0.5960	908.7	0.029	0.6030	901.7	0.032
2000	0.6180	942.1	0.033	0.6250	934.9	0.033
3000	0.6390	974.0	0.032	0.6450	965.1	0.030
4000	0.6590	1004.4	0.030	0.6670	998.3	0.033
5000	0.6790	1034.8	0.030	0.6880	1030.0	0.032
5500	0.6890	1050.0	0.030	0.6990	1045.6	0.033
6000	0.7000	1066.7	0.033	0.7090	1061.7	0.030
6500	0.7090	1080.3	0.027	0.7200	1078.3	0.033
7000	0.7190	1095.5	0.030	0.7300	1093.4	0.030
7425	0.7350	1119.8	0.057	0.7450	1116.1	0.053
LUB.	0.5770	879.8	----	0.5820	870.1	----

GENERAL REMARKS

DARALINGIE # 20 - STATIC PRESSURE GRADIENT - 16/6/92.

ELEMENT # 29388 (TOP)



PERFORATIONS: 7462' - 7497'

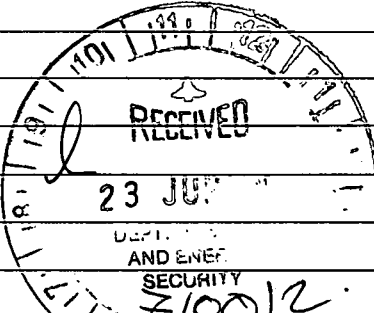
PAGE: 1 OF 1

FORMATION : PATCHAWANNA

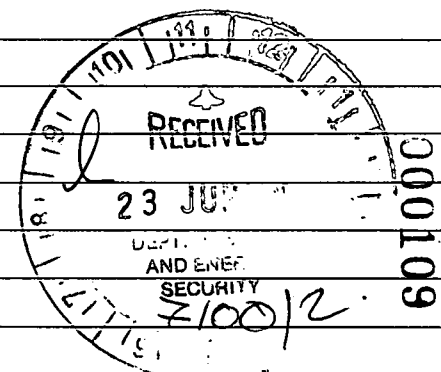
DATE: 21-2-93

OPR : R SAM SEANT

DATE/TIME	DESCRIPTION OF EVENTS
08:30	DEPART MOOMBA FOR LOCATION
09:30	CONDUCT SAFETY MEETING ON LOCATION R.I.H. w/ 1.75" BLIND BOX & TAG OBSTRUCTION AT 7428' KB
	R.I.H. w/ TANDEM AMEZADAS & CONDUCT STATIC GRADIENT AS PER PROGRAM HANG ON BOTTOM STOP AT 7428' KB (TWO FEET HIGHER THAN PROGRAM DUE TO OBSTRUCTION) P.O.O.H.
	R.I.H. w/ 2.0" SB RUNNING TOOL & 1.875" 'A' TUBING STOP - SET TUBING STOP AT 7347' KB
	DROP BUMPER SPRING & PLUNGER - CHASE DOWN HOLE WITH 1.75" BLIND BOX - JAR DOWN TWICE UPON REACHING TUBING STOP TO LATCH BUMPER SPRING TO TUBING STOP AT 7428' KB P.O.O.H. RIG OUT.
17:00	RETURN TO MOOMBA
	NOTE: 7428' KB OBSTRUCTION MOST LIKELY FIRING BAR OF TCP GUNS



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DEFENSE AND ENERGY SECURITY AGENCY
Z/100/12



EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : SANTOS

PERFORATIONS: 7462' - 7497'

PAGE: 1 OF 1

WELL NAME: DATAWINGIE #20

FORMATION : PATCHAWALLA

DATE: 21-2-93

TEST TYPE : STATIC GRADIENT

OPR : R. SARGEANT

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

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

ELEMENT SERIAL NO.

29387

57414

N/A

DATE

21-2-93

ELEMENT RANGE

Psi

2975

3000

PRESSURE LUBRICATOR

11:30

5364

55

RECORDING SECTION SERIAL NO.

59791

12959

RUN IN HOLE

11:35

5364

55

DATE OF CALIBRATION:

ON DEPTH AT

7428 FT/M

12:28

5405

55

CLOCK SERIAL NO.

A-15013

A-16080

DATE

21-2-93

CLOCK RANGE

3 Hrs

3 Hrs

PULL OUT OF HOLE

12:38

5405

55

LEAD SCREW TYPE

15

15

AT SURFACE

12:54

5405

55

DEPRESSURE LUBRICATOR

13:09

5405

55

ENGAGE STYLUS

DATE

21-2-93

TIME

11:07

11:07

MAXIMUM BHT AT

7428 FT/M = 244 °F/°C

DISENGAGE STYLUS

DATE

21-2-93

TIME

13:20

13:20

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

DATE

TIME

REMARKS

000110

EXPERTEST

WIRELINE & WELL TESTING SERVICE

PO BOX 354 COWANDILLA 5033

PH. (08) 354 0488 TELEX AA87183
FAX (08) 43 7408138 RICHMOND ROAD MARLESTON
SOUTH AUSTRALIA 5033

Tested Sunday, 21st February 1993.

STATIC PRESSURE GRADIENT REPORT

CLIENT	LOCATION	FORMATION
SANTOS LTD.	DARALINGIE # 20	PATCHAWARRA

PRESSURE ELEMENT DATA			
POSITION	SERIAL NO.	RANGE	CALIBRATED
Top	29387	2975	25/ 9/91
Bottom	57414	3000	25/ 9/91

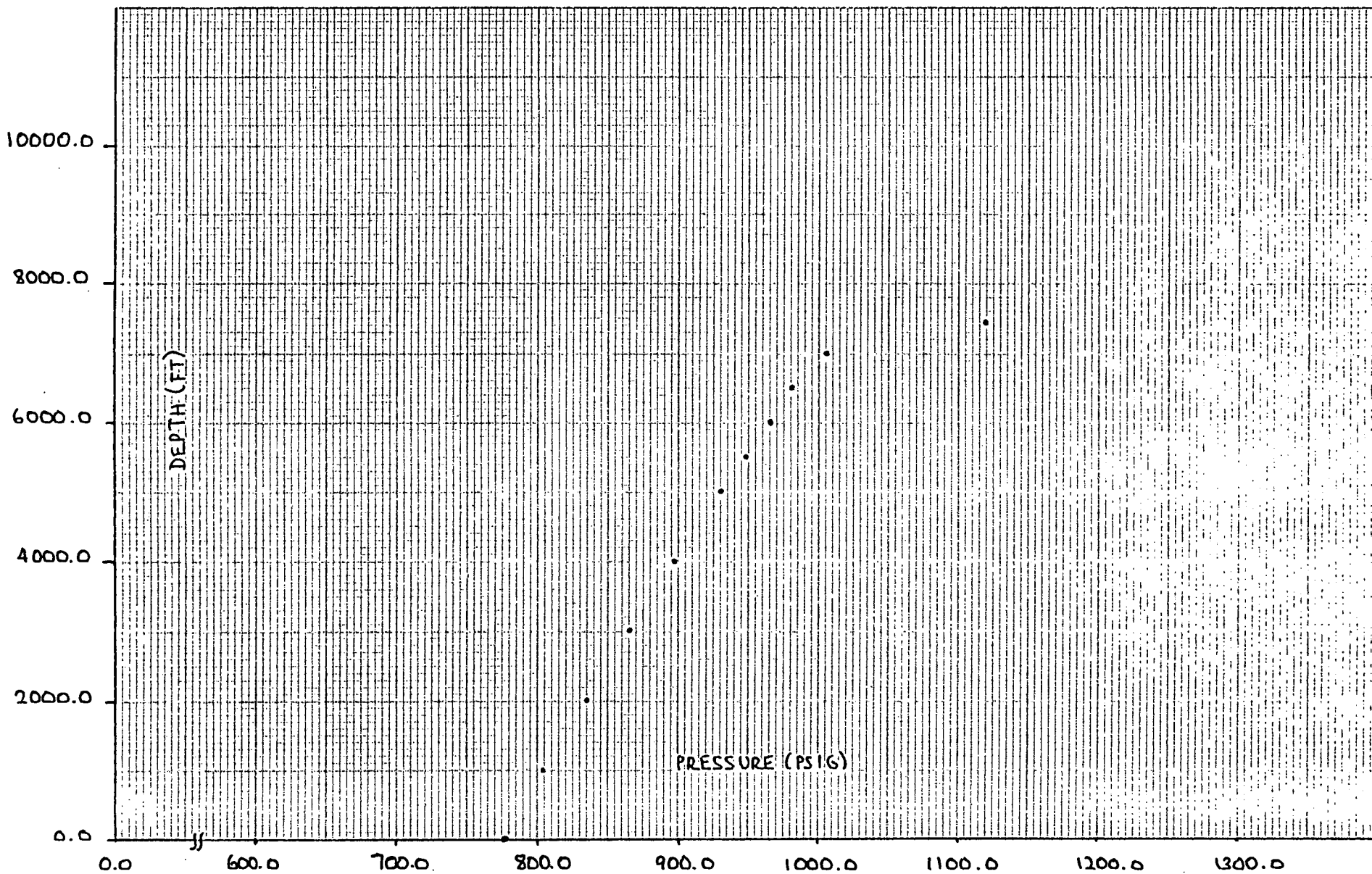
WELL DATA	
PARAMETER	VALUE
DWT In	778 PSIG
DWT Out	783 PSIG
Max BHT	244 F

TOP ELEMENT				BOTTOM ELEMENT		
DEPTH FT KB	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT	DEFLECTION INCHES	PRESSURE PSIG	GRADIENT PSI/FT
LUB.	0.5050	774.5	-	0.5040	776.2	-
1000	0.5230	802.5	0.028	0.5220	804.1	0.028
2000	0.5430	833.6	0.031	0.5420	835.2	0.031
3000	0.5630	864.7	0.031	0.5610	864.7	0.030
4000	0.5840	897.4	0.033	0.5820	897.4	0.033
5000	0.6070	933.2	0.036	0.6030	930.0	0.033
5500	0.6170	948.8	0.031	0.6140	947.1	0.034
6000	0.6270	964.4	0.031	0.6260	965.8	0.037
6500	0.6380	981.6	0.034	0.6350	979.7	0.028
7000	0.6520	1003.4	0.044	0.6510	1004.6	0.050
7428	0.7230	1114.2	0.259	0.7240	1118.1	0.265
LUB.	0.5090	780.7	-	0.5080	782.4	-

GENERAL REMARKS

tag obstruction at 7428'KB [firing bar]

DARALINGIE #20 — STATIC PRESSURE GRADIENT — 21/2/93
ELEMENT # 57414/3000 (BOT.)



000112

PERFORATIONS

WELL NAME: Daralingie *20

PERFORATIONS: 7462'-7497' LB

FORMATION : Patchawarra

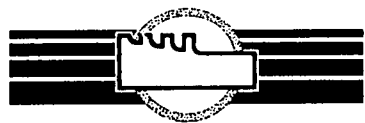
PAGE: 1 OF 1

DATE: 10-5-94

OPR : D. M^c Allister

[illegible]

EXPERTEST PTY. LTD.



BHP/BHT GAUGE RUN DATA

CUSTOMER : Santos L.T.D.

PERFORATIONS: 7462' - 7497' K.B

PAGE: 1 OF 1

WELL NAME: Daralingie #20

FORMATION : Patchawarra

DATE: 10.5.94

TEST TYPE : Static Gradient

OPR : D. McAllister

GAUGE DATA

UPPER
PRESSURE
GAUGELOWER
PRESSURE
GAUGETEMPERATURE
GAUGE

RUN DATA

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

ELEMENT SERIAL NO.

29388

29386

M.B.H.T.

DATE : 10.5.94

ELEMENT RANGE

PSI

3000

2975

PRESSURE LUBRICATOR

13:25

1662

2779

RECORDING SECTION SERIAL NO.

61001

61373

RUN IN HOLE

13:45

1620

2779

DATE OF CALIBRATION:

7-2-94

7-2-94

ON DEPTH AT

7200 FT.

14:41

1551

2779

CLOCK/BATTERY SERIAL NO.

A-16085

A-16081

DATE : 10.5.94

CLOCK/BATTERY RANGE

HR

3

3

PULL OUT OF HOLE

14:56

1551

2779

LEAD SCREW/BATTERY TYPE

TCS

15

15

AT SURFACE

15:11

1503

2779

DEPRESSURE LUBRICATOR

15:31

1503

2779

ENGAGE STYLUS/BATTERY DATE 10.5.94 TIME

13:17

13:17

MAXIMUM BHT AT 7200 FT. = 263 °F

DISENGAGE STYLUS/BATTERY DATE 10.5.94 TIME

15:33

15:33

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

DATE

TIME

REMARKS

No temperature element run.

000114

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 May 1994.

STATIC PRESSURE GRADIENT REPORT

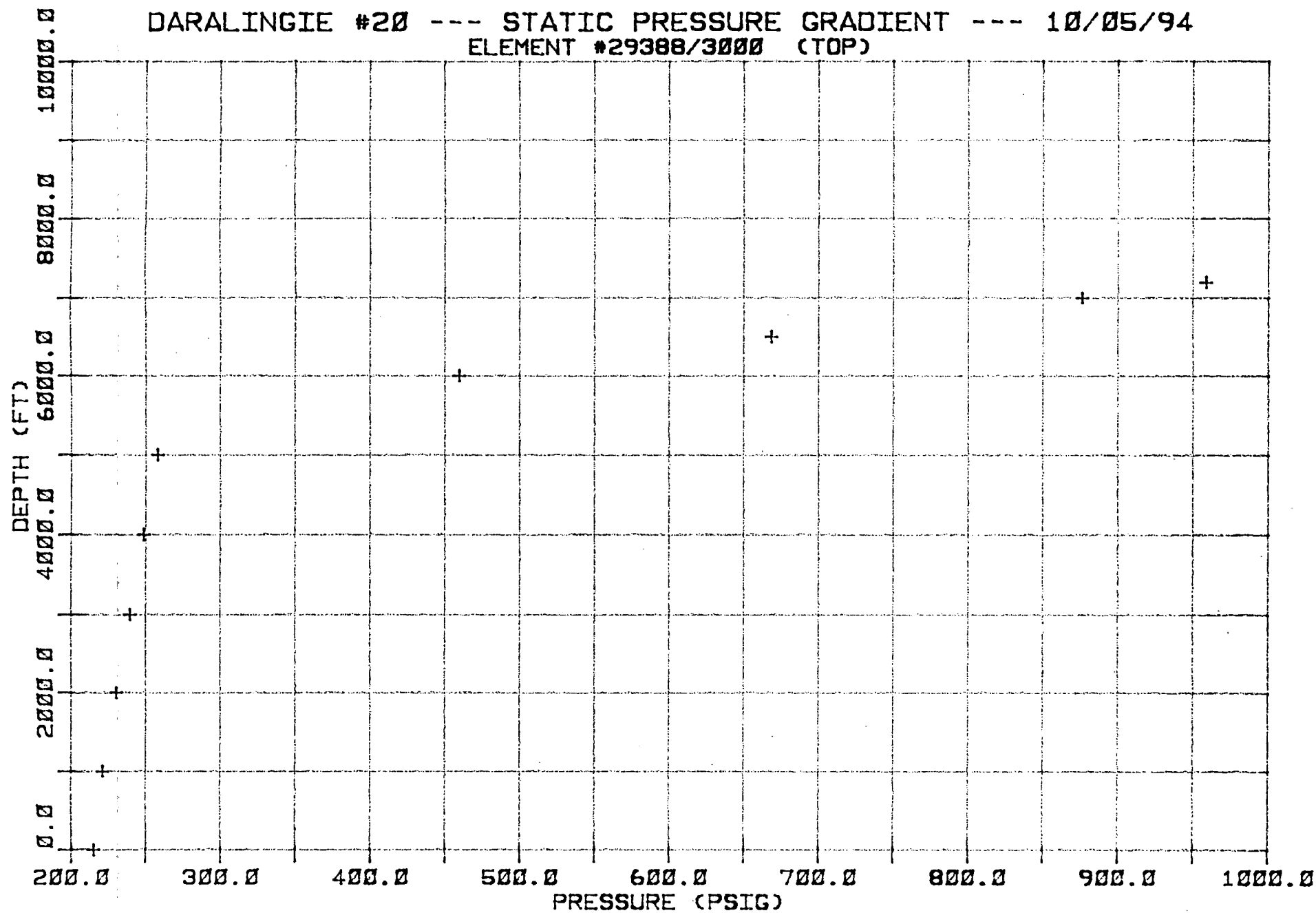
CLIENT	LOCATION	FORMATION
SANTOS LTD.	DARALINGIE #20	PATCHAWARRA

PRESSURE ELEMENT DATA				WELL DATA	
POSITION	SERIAL NO.	RANGE	CALIBRATED	PARAMETER	VALUE
Top	29388	3000	7/ 2/94	DWT In	241 PSIG
Bottom	29386	2975	7/ 2/94	DWT Out	218 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.	0.1500	214.9	-	0.1510	214.7	-
1000	0.1540	221.0	0.006	0.1560	222.3	0.008
2000	0.1600	230.2	0.009	0.1610	229.8	0.008
3000	0.1660	239.3	0.009	0.1670	238.8	0.009
4000	0.1720	248.5	0.009	0.1720	246.3	0.008
5000	0.1780	257.7	0.009	0.1790	256.8	0.011
6000	0.3100	459.0	0.201	0.3140	459.7	0.203
6500	0.4470	668.0	0.418	0.4530	668.6	0.418
7000	0.5830	875.6	0.415	0.5910	876.3	0.415
7200	0.6370	958.1	0.412	0.6450	957.7	0.407
LUB.	0.1350	192.1	-	0.1350	190.7	-

GENERAL REMARKS

DARALINGIE #20 --- STATIC PRESSURE GRADIENT --- 10/05/94
ELEMENT #29388/3000 (TOP)



000116