

FLOPE

Denne rapport
tilhører



UND DOK.SENTER

L.NR. 91059100

KODE Well 15/9-11 nr 15

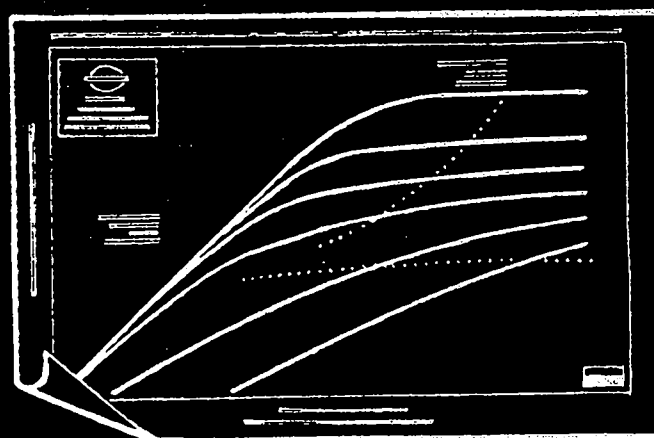
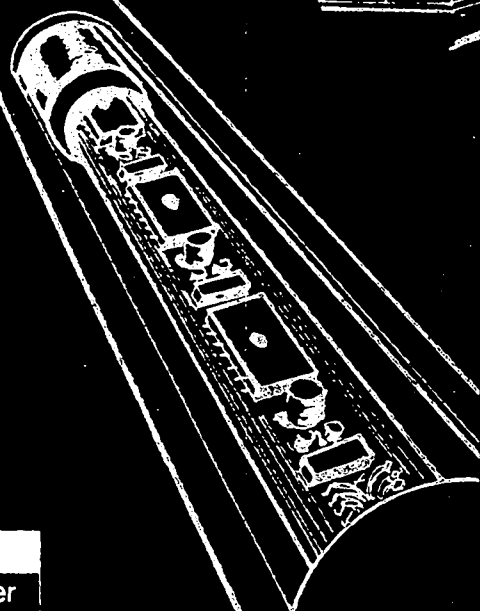
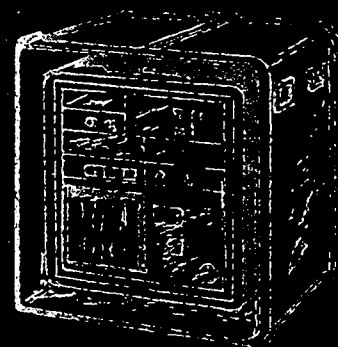
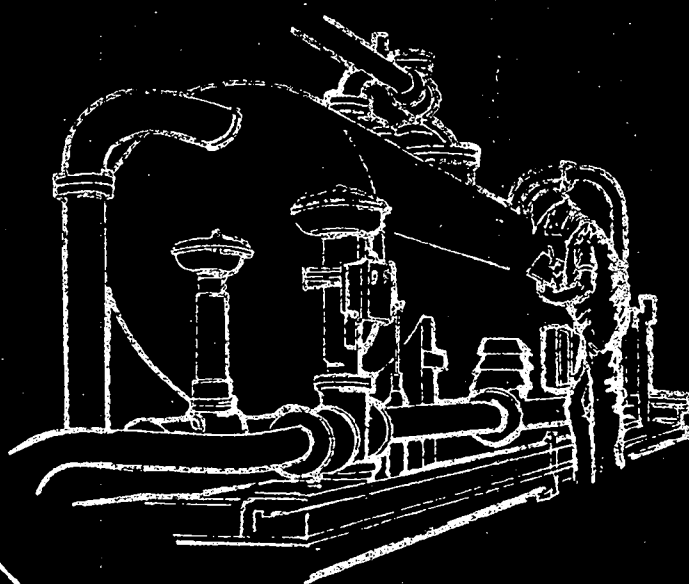
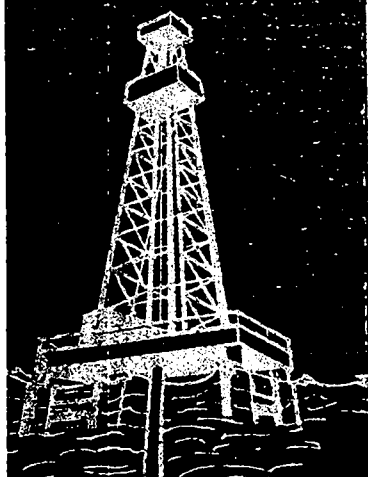
Returneres etter bruk

HIGH ACCURACY PRESSURE TEMPERATURE MEASUREMENTS

Company: STATOIL Country: NORWAY

Field: 15/9 - GAMMA Well: 15/9-11

Zone: PALEOCENE/
HELMØY Date: 12th Dec



FLOPETROL

Schlumberger

CONFIDENTIAL

DISTRICT: NUD

BASE : STAVANGER

REPORT N°: ELS-81-10S

HIGH ACCURACY
PRESSURE TEMPERATURE
MEASUREMENTS

Company: STATOIL

Country: NORWAY

Field: 15/9 - GAMMA Well: 15/9-11

Zone: PALEOCENE/
HEIMDAL

Date: 12th December -
16th December 1981

D.S.T. No. 3

INDEX

- ☒ 1 - CHARTS
- ☒ 2 - MEASUREMENT RESULTS
- ☒ 3 - SEQUENCE OF EVENTS
- ☐ 4 - WELL COMPLETION DATA
- ☐ 5 - OPERATING AND MEASURING CONDITIONS
- ☐ 6 - EQUIPMENT DATA
- ☐ 7 -

FLOPETROL

HIGH ACCURACY PRESSURE MEASUREMENT

[PLAYBACK]

0525

0520

0515

0510

0505

PRESSURE P.S.I.

TIME (HOURS)

0

2

4

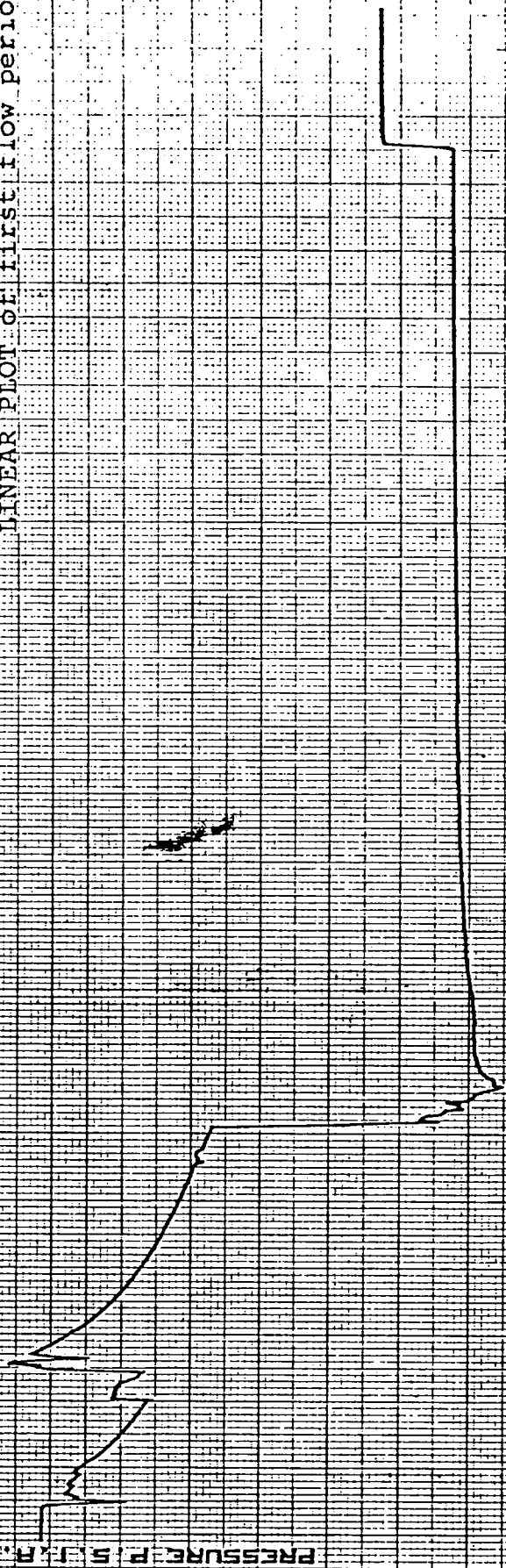
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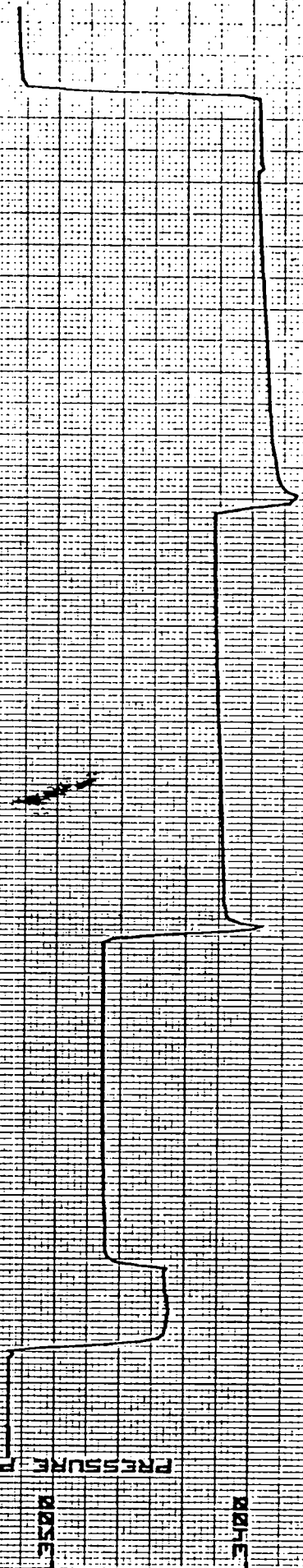
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CLIENT : STATOIL
WELL : 15/9 - 11
DATE : 13/12 - 81
 14/12 - 81
GAUGE : 81048
LINEAR PLOT OF first flow period



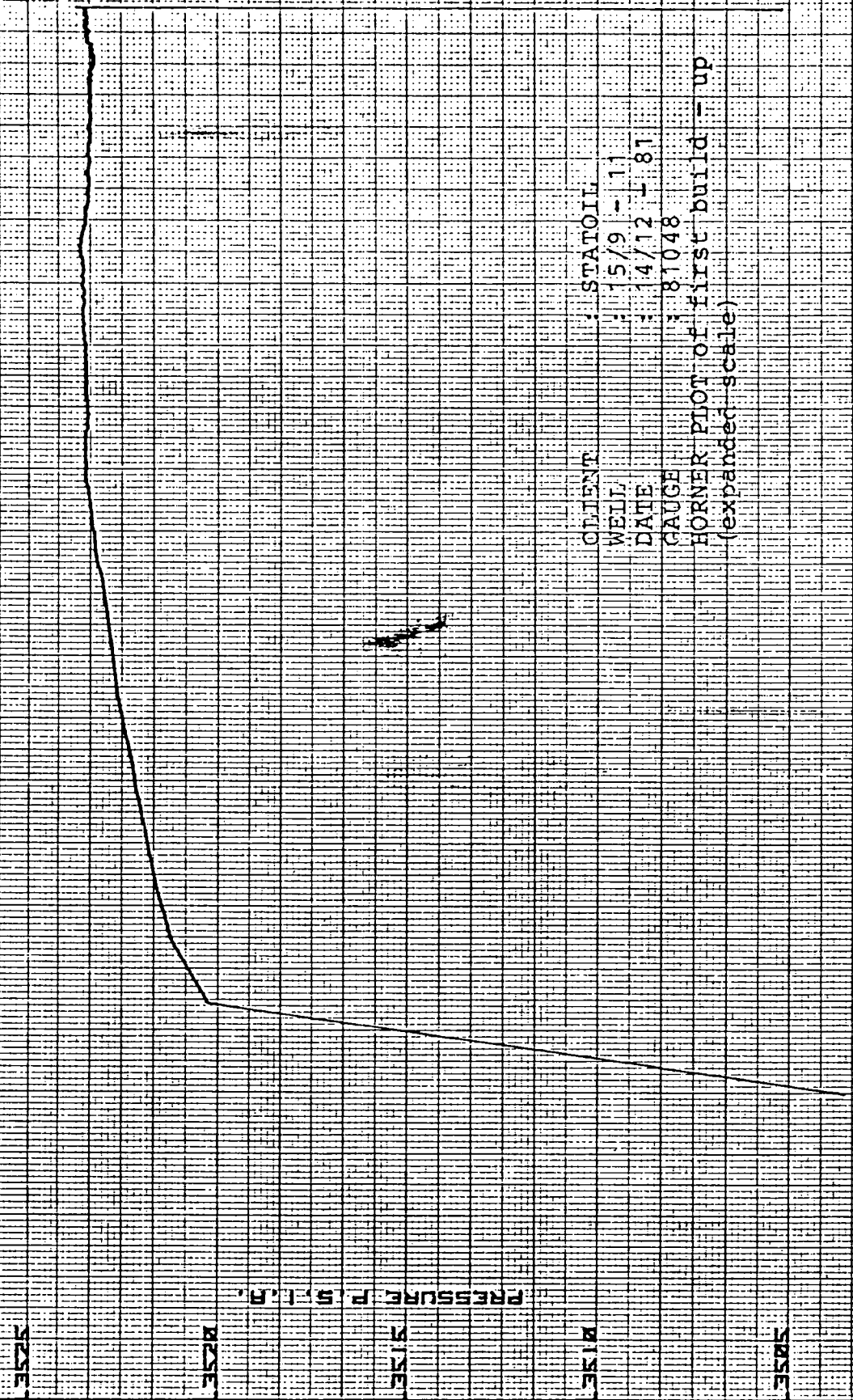
FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

CLIENT : STATOIL
WELL : 15/9 - 11
DATE : 14/12 - 81 -
 15/12 - 81
GAUGE : 81048
LINEAR PLOT of second flow period



TIME HOURS

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT PLAYBACK



CLIENT : STATOIL
WELL : 15/9 - 11
DATE : 14/12 - 87
GAUGE : 81048
HORNER PLOT of first build - up
(expanded scale)

LOG T + DELTA T
DELTA T

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

3550

3500

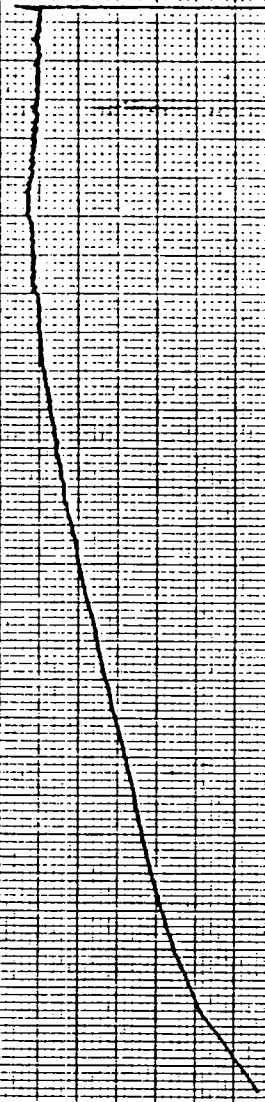
3450

3400

3350

3300

PRESSURE P.S.I.A.



CLIENT : STATOIL
WELL : 15/9-11
DATE : 15/12-81
GAUGE : 81048

HORNER PLOT of second build - up

LOG T + DELTA T
DELTA T

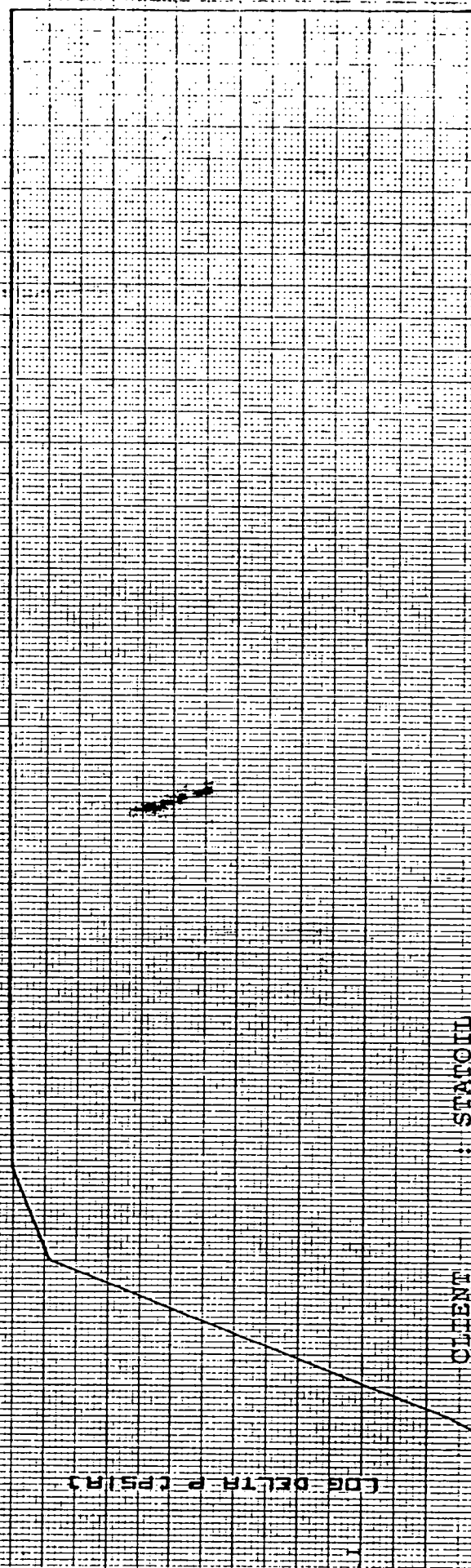
FLOPETROL

HIGH ACCURACY PRESSURE MEASUREMENT

DELTA BACK

2

(LOG DELTA P (PSIA))



CLIENT : STATOIL
WELL : 15/9-11
DATE : 14/12-81
GAUGE : 81048

LOG - LOG PLOT OF FIRST BUILD-UP

LOG DELTA T (MINUTES)

2

2

HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]



CURRENT : STATOIL
WELL : 15/9 W 11
DATE : 5/12-81
GAUGE : 8-048
LOG - LOG Plot of second build - up

LOG DELTA T (MINUTES)

FLUORINE PRESSURE & TEMPERATURE CALCULATIONS

SECTION
PAGE 1

REMARKS
Gauge 81048
Data 12. dec. 4 1981

TIME
HR.MN.SS

PRESS.
PSIA

TEMP.
DEG.F

DEL.T.
(MINUTES)

LOG DEL.T.

DEL.P
PSIA

LOG DEL.P

LOG T+DEL.T
DEL.T

4.54.0	10.62								
4.56.0	22.70								
4.58.0	22.76								
5.0.0	22.83								
5.10.0	23.23								
5.20.0	23.18	50.4							
5.30.0	24.42	50.2							
5.40.0	34.16								
5.50.0	43.06	49.5							
6.0.0	43.68								
6.10.0	46.21	47.7							
6.20.0	49.58								
6.30.0	52.42	46.6							
6.40.0	52.47								
6.50.0	103.05	45.9							
7.0.0	109.86								
7.10.0	118.87	45.7							
7.20.0	168.78								
7.30.0	171.34	45.9							
7.40.0	312.54								
7.50.0	442.47	48.7							
8.0.0	457.31								
8.10.0	463.52	58.1							
8.20.0	472.42								
8.30.0	471.55	64.6							
8.40.0	525.67								
8.50.0	525.26	67.8							
9.0.0	525.41								
9.10.0	525.13	70.0							
9.20.0	527.60								
9.30.0	673.95	71.1							
9.40.0	723.51								
9.50.0	823.55	72.9							
10.0.0	958.58								
10.10.0	1067.53	76.5							
10.20.0	1171.85								
10.30.0	1359.32	81.0							
10.40.0	1452.77								
10.50.0	1453.74	86.0							
11.0.0	1453.84								
11.10.0	1453.22	88.7							
11.20.0	1502.68								

5

6

7

8

PRESSURE & TEMPERATURE CALCULATIONS:

TIME		PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.	MIN.	SS	DEG.F	(MINUTES)		PSIA		DEL.T	
11.30.	0	1599.77	90.0						
11.40.	0	1694.89							
11.50.	0	1748.18	91.4						
12.0.	0	1934.70							
12.10.	0	2031.62	95.4						
12.20.	0	2142.00							
12.30.	0	2324.33	100.9						
12.40.	0	2410.73							
12.50.	0	2412.47	108.9						
13.0.	0	2413.48							
13.10.	0	2413.73	112.5						
13.20.	0	2414.05							
13.30.	0	2559.24	113.9						
13.40.	0	2702.27							
13.50.	0	2787.79	118.6						
14.0.	0	3003.36							
14.10.	0	3097.34	125.1						
14.20.	0	3179.33							
14.30.	0	3370.97	133.0						
14.40.	0	3468.07							
14.50.	0	3471.51	141.1						
15.0.	0	3473.06							
15.10.	0	3473.94	144.7						
15.20.	0	3474.00							
15.30.	0	3573.82	146.1						
15.40.	0	3652.46							
15.50.	0	3709.81	149.4						
16.0.	0	3731.42							
16.10.	0	3733.34	153.1						
16.20.	0	3732.51							
16.30.	0	3743.33	155.1						
16.40.	0	3753.50							
16.50.	0	3785.62	156.2						
17.0.	0	3859.96							
17.10.	0	3862.95	157.6						
17.20.	0	3864.91							
17.30.	0	3880.54	159.6						
17.40.	0	3893.90							
17.50.	0	3914.43	161.1						
18.0.	0	3911.33							
18.10.	0	3912.96	162.3						
18.20.	0	3913.77							

REMARKS

13, dec. 1981

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PRESSURE & TEMPERATURE CALCULATIONS

RES

PAGE

4

TIME	TEMP.	DEL.T	LOG DEL.T	DEL.P	REMARKS
HR.MN.SS	DEG.F	(MINUTES)		PSIA	
1.30.0	3928.51				
1.40.0	3928.65	167.9			
1.50.0	3928.70	167.9			
2.0.0	3928.68				
2.10.0	3928.74	168.1			
2.20.0	3928.82				
2.30.0	3928.88	168.3			
2.40.0	3928.82				
2.50.0	3928.77	168.4			
3.0.0	3928.55				
3.10.0	3928.38	168.4			
3.20.0	3928.25				
3.30.0	3927.91	168.6			
3.40.0	3927.83				
3.50.0	3927.68	168.8			
4.0.0	3927.68				
4.10.0	3927.58	169.0			
4.20.0	3927.53				
4.30.0	3927.49	169.2			
4.40.0	3927.40				
4.50.0	3927.36	169.2			
5.0.0	3927.25				
5.10.0	3927.21	169.5			
5.20.0	3927.19				
5.30.0	3927.16	169.5			
5.40.0	3927.22				
5.50.0	3927.24	169.7			
6.0.0	3927.22				
6.10.0	3927.13	170.1			
6.20.0	3927.05				
6.30.0	3926.92	170.2			
6.40.0	3926.91				
6.50.0	3926.85	170.2			
7.0.0	3926.93				
7.10.0	3926.95	170.6			
7.20.0	3926.84				
7.30.0	3926.76	170.6			
7.40.0	3926.69				
7.50.0	3926.64	170.8			
8.0.0	3926.58				
8.10.0	3926.59	171.1			
8.20.0	3926.42				

TIME HR.NN.SS PRESS. PSIA TEMP. DEG.F DEL.T (MINUTES) LOG DEL.T DEL.P PSIA LCG T+DEL.T DEL.T

8.22.0	3926.35						
8.24.0	3926.30						
8.26.0	3926.25						
8.28.0	3926.22						
8.30.0	3926.19						
8.32.0	3926.18	171.3					
8.34.0	3926.18						
8.36.0	3926.15						
8.38.0	3926.08						
8.40.0	3926.06						
8.42.0	3926.01						
8.44.0	3926.01						
8.46.0	3924.62						
8.48.0	3920.17						
8.50.0	3866.79						
8.52.0	3827.68	171.5					
8.54.0	3888.73						
8.56.0	3882.95						
8.58.0	3889.64						
9.0.0	3898.18						
9.2.0	3895.14						
9.4.0	3892.69						
9.6.0	3890.65						
9.8.0	3888.68						
9.10.0	3894.67						
9.12.0	3891.90	171.1					
9.14.0	3889.01						
9.16.0	3886.19						
9.18.0	3883.38						
9.20.0	3880.52						
9.22.0	3887.62						
9.24.0	3886.02						
9.26.0	3883.00						
9.28.0	3879.37						
9.30.0	3876.33						
9.32.0	3873.87	171.0					
9.34.0	3870.99						
9.36.0	3865.76						
9.38.0	3862.03						
9.40.0	3859.33						
9.42.0	3856.70						
9.44.0	3854.08						

SECTION 6 PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	LOG T+DEL.T DEL.T	REMARKS
9.46.0	3851.55							
9.48.0	3849.01							
9.50.0	3846.58							
9.52.0	3844.20	170.8						
9.54.0	3841.88							
9.56.0	3839.58							
9.58.0	3837.28							
10.0.0	3835.09							
10.2.0	3832.96							
10.4.0	3830.86							
10.6.0	3828.82							
10.8.0	3826.85							
10.10.0	3824.87							
10.12.0	3822.96	170.8						
10.14.0	3821.09							
10.16.0	3819.23							
10.18.0	3817.42							
10.20.0	3815.69							
10.22.0	3813.92							
10.24.0	3812.21							
10.26.0	3810.51							
10.28.0	3808.87							
10.30.0	3807.24							
10.32.0	3805.63	171.0						
10.34.0	3804.02							
10.36.0	3802.45							
10.38.0	3795.43							
10.40.0	3844.28							
10.42.0	3841.52							
10.44.0	3839.05							
10.46.0	3841.04							
10.48.0	3838.91							
10.50.0	3837.76							
10.52.0	3837.85	171.0						
10.54.0	3835.69							
10.56.0	3833.53							
10.58.0	3825.37							
11.0.0	3819.61							
11.2.0	3813.41							
11.4.0	3811.46							
11.6.0	3809.53							
11.8.0	3805.21							

F. TRO

PRESSURE & TEMPERATURE CALCULATIONS

SECTION

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REMARKS

TIME	HR. MN. SS	PRESS. PSIA	TEMP. DEG. F	DEL. T (MINUTES)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	LOG T+DEL. T	DEL. T
11.10.0	0	3911.85							
11.12.0	0	3932.31	171.1						
11.14.0	0	3928.76							
11.16.0	0	3966.69							
11.18.0	0	3959.91							
11.20.0	0	3913.82							
11.22.0	0	3871.69							
11.24.0	0	3918.20							
11.26.0	0	3938.43							
11.28.0	0	3933.28							
11.30.0	0	3928.49							
11.32.0	0	3923.76	171.3						
11.34.0	0	3919.30							
11.36.0	0	3915.06							
11.38.0	0	3911.29							
11.40.0	0	3907.08							
11.42.0	0	3903.42							
11.44.0	0	3900.09							
11.46.0	0	3896.39							
11.48.0	0	3892.89							
11.50.0	0	3889.50							
11.52.0	0	3883.43	171.3						
11.54.0	0	3880.23							
11.56.0	0	3877.15							
11.58.0	0	3874.12							
12.0.0	0	3871.14							
12.2.0	0	3868.26							
12.4.0	0	3865.45							
12.6.0	0	3862.75							
12.8.0	0	3860.09							
12.10.0	0	3857.53							
12.12.0	0	3855.04	171.5						
12.14.0	0	3852.61							
12.16.0	0	3850.22							
12.18.0	0	3847.88							
12.20.0	0	3845.57							
12.22.0	0	3843.33							
12.24.0	0	3841.13							
12.26.0	0	3838.96							
12.28.0	0	3836.84							
12.30.0	0	3834.79							
12.32.0	0	3832.75	171.5						

FILE NO. [REDACTED] SEC. [REDACTED] PAGE 8 PRESSURE & TEMPERATURE CALCULATIONS | TIME | HR. MN. SS | PRESS. PSIA | TEMP. DEG. F | DEL. T (MINUTES) | LOG DEL. T | DEL. P PSIA | LOG DEL. P | LOG T+DEL. T | DEL. T | REMARKS | |------|------------|-------------|--------------|------------------|------------|-------------|------------|--------------|--------|---------| | | 12.34.0 | 3830.70 | | | | | | | | | | | 12.36.0 | 3828.71 | | | | | | | | | | | 12.38.0 | 3826.78 | | | | | | | | | | | 12.40.0 | 3824.83 | | | | | | | | | | | 12.42.0 | 3822.97 | | | | | | | | | | | 12.44.0 | 3821.10 | | | | | | | | | | | 12.46.0 | 3819.30 | | | | | | | | | | | 12.48.0 | 3817.50 | | | | | | | | | | | 12.50.0 | 3815.68 | | | | | | | | | | | 12.52.0 | 3813.91 | | 171.7 | | | | | | | | | 12.54.0 | 3812.17 | | | | | | | | | | | 12.56.0 | 3810.50 | | | | | | | | | | | 12.58.0 | 3808.82 | | | | | | | | | | | 13.0.0 | 3807.21 | | | | | | | | | | | 13.2.0 | 3805.57 | | | | | | | | | | | 13.4.0 | 3803.96 | | | | | | | | | | | 13.6.0 | 3802.40 | | | | | | | | | | | 13.8.0 | 3800.87 | | | | | | | | | | | 13.10.0 | 3799.30 | | | | | | | | | | | 13.12.0 | 3797.75 | | 171.9 | | | | | | | | | 13.14.0 | 3796.24 | | | | | | | | | | | 13.16.0 | 3794.81 | | | | | | | | | | | 13.18.0 | 3793.51 | | | | | | | | | | | 13.20.0 | 3792.04 | | | | | | | | | | | 13.22.0 | 3790.56 | | | | | | | | | | | 13.24.0 | 3789.11 | | | | | | | | | | | 13.26.0 | 3787.93 | | | | | | | | | | | 13.28.0 | 3786.47 | | | | | | | | | | | 13.30.0 | 3785.12 | | | | | | | | | | | 13.32.0 | 3784.18 | | 171.9 | | | | | | | | | 13.34.0 | 3782.48 | | | | | | | | | | | 13.36.0 | 3781.47 | | | | | | | | | | | 13.38.0 | 3780.00 | | | | | | | | | | | 13.40.0 | 3778.99 | | | | | | | | | | | 13.42.0 | 3777.80 | | | | | | | | | | | 13.44.0 | 3776.10 | | | | | | | | | | | 13.46.0 | 3775.30 | | | | | | | | | | | 13.48.0 | 3773.58 | | | | | | | | | | | 13.50.0 | 3772.82 | | | | | | | | | | | 13.52.0 | 3771.27 | | 172.0 | | | | | | | | | 13.54.0 | 3770.04 | | | | | | | | | | | 13.56.0 | 3769.19 | | | | | | | | |

TIME	HR. MN. SS	PRESS. PSIA	TEMP. DEG. F.	DEL. T. (MINUTES)	LOG DEL. T.	DEL. P. PSIA	LOG DEL. P.	LOG T+DEL. T. DEL. T.	REMARKS
15.22.0	0	3724.06		0.00	0.3010	150.26	2.1768		
15.24.0	0	3573.80		2.00	0.6021	192.98	2.2855		Well opened on 24/64" adj.
15.26.0	0	3531.08		4.00	0.7782	271.46	2.4337		15.22.0 27
15.28.0	0	3452.60		6.00	0.9031	249.79	2.3976		
15.30.0	0	3474.27		8.00	1.0000	252.20	2.4017		SHUT IN PRES.
15.32.0	0	3471.86	172.6	10.00	1.0792	257.23	2.4103		3724.06
15.34.0	0	3466.83		12.00	1.1461	274.59	2.4387		Increased choke to 32/64" adj
15.36.0	0	3449.47		14.00	1.2041	277.60	2.4434		
15.38.0	0	3446.46		16.00	1.2553	279.70	2.4467		
15.40.0	0	3444.36		18.00	1.3010	300.51	2.4779		
15.42.0	0	3423.55		20.00	1.3424	295.47	2.4705		
15.44.0	0	3428.59		22.00	1.3802	296.92	2.4726		
15.46.0	0	3427.14		24.00	1.4150	281.89	2.4501		
15.48.0	0	3442.17		26.00	1.4472	307.21	2.4874		
15.50.0	0	3416.85		28.00	1.4771	311.17	2.4930		
15.52.0	0	3412.89	176.7	30.00	1.5051	314.67	2.4979		
15.54.0	0	3409.39		32.00	1.5315	315.41	2.4989		
15.56.0	0	3408.65		34.00	1.5563	323.55	2.5099		Increased choke to 48/64" adj.
15.58.0	0	3400.51		36.00	1.5798	331.87	2.5210		
16.0.0	0	3392.19		38.00	1.6021	342.46	2.5346		
16.2.0	0	3381.60		40.00	1.6232	346.28	2.5394		
16.4.0	0	3377.78		42.00	1.6435	337.41	2.5282		
16.6.0	0	3386.65		44.00	1.6628	338.70	2.5298		
16.8.0	0	3385.36		46.00	1.6812	337.04	2.5277		
16.10.0	0	3387.02		48.00	1.6990	336.43	2.5269		
16.12.0	0	3387.63	180.0	50.00	1.7160	330.31	2.5189		
16.14.0	0	3393.75		52.00	1.7324	327.72	2.5155		
16.16.0	0	3396.34		54.00	1.7482	325.12	2.5120		
16.18.0	0	3398.94		56.00	1.7634	322.59	2.5087		
16.20.0	0	3401.47		58.00	1.7782	320.50	2.5058		
16.22.0	0	3403.56		60.00	1.7924	319.91	2.5050		
16.24.0	0	3404.15		62.00	1.8062	319.16	2.5040		
16.26.0	0	3404.90		64.00	1.8195	318.39	2.5030		
16.28.0	0	3405.67		66.00	1.8325	318.08	2.5025		
16.30.0	0	3405.98		68.00	1.8451	317.14	2.5013		
16.32.0	0	3406.92	183.2	70.00	1.8573	317.34	2.5015		
16.34.0	0	3406.72		72.00	1.8692	315.39	2.4988		
16.36.0	0	3408.67		74.00	1.8808	314.64	2.4978		
16.38.0	0	3409.42		76.00	1.8921	314.81	2.4980		
16.40.0	0	3409.25		78.00	1.9031	314.49	2.4976		
16.42.0	0	3409.57		80.00	1.9138	314.28	2.4973		
16.44.0	0	3409.78		82.00					

FLOPETROL

FLOPETROL

PRESSURE & TEMPERATURE CALCULATIONS

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TIME	HR. MN. SS	PRESS.	TEMP.	DEL. T	LOG DEL. T	DEL. P	LOG DEL. P	LOG T+DEL. T	REMARKS
		PSIA	DEG. F	(MINUTES)		PSIA	DEL. T		
16.46.	0	3409.76		84.00	1.9243	314.30	2.4973		
16.48.	0	3409.50		86.00	1.9345	314.56	2.4977		
16.50.	0	3409.50		88.00	1.9445	314.56	2.4977		
16.52.	0	3409.77	185.9	90.00	1.9542	314.29	2.4973		
16.54.	0	3410.96		92.00	1.9638	313.10	2.4957		
16.56.	0	3410.50		94.00	1.9731	313.56	2.4963		
16.58.	0	3410.16		96.00	1.9823	313.90	2.4968		
17.0.	0	3410.09		98.00	1.9912	313.97	2.4969		
17.2.	0	3409.77		100.00	2.0000	314.29	2.4973		
17.4.	0	3410.23		102.00	2.0086	313.83	2.4967		
17.6.	0	3410.46		104.00	2.0170	313.60	2.4964		
17.8.	0	3410.34		106.00	2.0253	313.72	2.4965		
17.10.	0	3408.48		108.00	2.0334	315.58	2.4991		
17.12.	0	3409.38	187.9	110.00	2.0414	314.68	2.4979		
17.14.	0	3409.99		112.00	2.0492	314.07	2.4970		
17.16.	0	3410.60		114.00	2.0569	313.46	2.4962		
17.18.	0	3410.84		116.00	2.0645	313.22	2.4958		
17.20.	0	3410.90		118.00	2.0719	313.16	2.4958		
17.22.	0	3410.95		120.00	2.0792	313.11	2.4957		
17.24.	0	3411.41		122.00	2.0864	312.65	2.4951		
17.26.	0	3411.71		124.00	2.0934	312.35	2.4946		
17.28.	0	3412.02		126.00	2.1004	312.04	2.4942		
17.30.	0	3412.09		128.00	2.1072	311.97	2.4941		
17.32.	0	3412.17	189.3	130.00	2.1139	311.89	2.4940		
17.34.	0	3412.42		132.00	2.1206	311.64	2.4937		
17.36.	0	3412.59		134.00	2.1271	311.47	2.4934		
17.38.	0	3412.74		136.00	2.1335	311.32	2.4932		
17.40.	0	3413.01		138.00	2.1399	311.05	2.4928		
17.42.	0	3414.30		140.00	2.1461	309.76	2.4910		
17.44.	0	3415.05		142.00	2.1523	309.01	2.4900		
17.46.	0	3415.31		144.00	2.1584	308.75	2.4896		
17.48.	0	3415.41		146.00	2.1644	308.65	2.4895		
17.50.	0	3415.51		148.00	2.1703	308.55	2.4893		
17.52.	0	3415.88	190.4	150.00	2.1761	308.18	2.4888		
17.54.	0	3416.16		152.00	2.1818	307.90	2.4884		
17.56.	0	3416.53		154.00	2.1875	307.53	2.4879		
17.58.	0	3416.98		156.00	2.1931	307.08	2.4873		
18.0.	0	3417.24		158.00	2.1987	306.82	2.4869		
18.2.	0	3417.70		160.00	2.2041	306.36	2.4862		
18.4.	0	3418.15		162.00	2.2095	305.91	2.4856		
18.6.	0	3418.60		164.00	2.2148	305.46	2.4850		
18.8.	0	3419.22		166.00	2.2201	304.84	2.4841		

FLOPETROL

FLOPETROL

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS.	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T+DEL.T	REMARKS
				PSIA	DEG.F.	(MINUTES)		PSIA		DEL.T	
18.10.	0			3419.29		168.00	2.2253	304.77	2.4840		
18.12.	0			3419.49	191.3	170.00	2.2304	304.57	2.4837		
18.14.	0			3419.60		172.00	2.2355	304.46	2.4835		
18.16.	0			3420.39		174.00	2.2405	303.67	2.4824		
18.18.	0			3420.57		176.00	2.2455	303.49	2.4821		
18.20.	0			3420.80		178.00	2.2504	303.26	2.4818		
18.22.	0			3420.82		180.00	2.2553	303.24	2.4818		
18.24.	0			3420.81		182.00	2.2601	303.25	2.4818		
18.26.	0			3421.02		184.00	2.2648	303.04	2.4815		
18.28.	0			3420.76		186.00	2.2695	303.30	2.4819		
18.30.	0			3420.80		188.00	2.2742	303.26	2.4818		
18.32.	0			3421.35	192.0	190.00	2.2788	302.71	2.4810		
18.34.	0			3421.52		192.00	2.2833	302.54	2.4808		
18.36.	0			3421.54		194.00	2.2878	302.52	2.4808		
18.38.	0			3421.48		196.00	2.2923	302.58	2.4808		
18.40.	0			3421.57		198.00	2.2967	302.49	2.4807		
18.42.	0			3421.72		200.00	2.3010	302.34	2.4805		
18.44.	0			3421.95		202.00	2.3054	302.11	2.4802		
18.46.	0			3422.16		204.00	2.3096	301.90	2.4799		
18.48.	0			3422.83		206.00	2.3139	301.23	2.4789		
18.50.	0			3422.90		208.00	2.3181	301.16	2.4788		
18.52.	0			3423.33	192.6	210.00	2.3222	300.73	2.4782		
18.54.	0			3422.94		212.00	2.3263	301.12	2.4787		
18.56.	0			3423.16		214.00	2.3304	300.90	2.4784		
18.58.	0			3423.08		216.00	2.3345	300.98	2.4785		
19. 0.	0			3423.55		218.00	2.3385	300.51	2.4779		
19. 2.	0			3423.48		220.00	2.3424	300.58	2.4780		
19. 4.	0			3423.67		222.00	2.3464	300.39	2.4777		
19. 6.	0			3423.68		224.00	2.3502	300.38	2.4777		
19. 8.	0			3423.80		226.00	2.3541	300.26	2.4775		
19.10.	0			3423.95		228.00	2.3579	300.11	2.4773		
19.12.	0			3424.09	193.1	230.00	2.3617	299.97	2.4771		
19.14.	0			3424.40		232.00	2.3655	299.66	2.4766		
19.16.	0			3424.71		234.00	2.3692	299.35	2.4762		
19.18.	0			3424.70		236.00	2.3729	299.36	2.4762		
19.20.	0			3424.91		238.00	2.3766	299.15	2.4759		
19.22.	0			3424.98		240.00	2.3802	299.08	2.4758		
19.24.	0			3425.12		242.00	2.3838	298.94	2.4756		
19.26.	0			3425.01		244.00	2.3874	299.05	2.4757		
19.28.	0			3425.26		246.00	2.3909	298.80	2.4754		
19.30.	0			3425.38		248.00	2.3945	298.68	2.4752		
19.32.	0			3425.48	193.6	250.00	2.3979	298.58	2.4751		

FLOPETROL

PRESSURE & TEMPERATURE CALCULATIONS

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TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T+DEL.T.	REMARKS
HR.MM.SS	PSIA	DEG.F.	(MINUTES)		PSIA		DEL.T.	
19.34.0	3425.62		252.00	2.4014	298.44		2.4749	
19.36.0	3426.26		254.00	2.4048	297.80		2.4739	
19.38.0	3425.86		256.00	2.4082	298.20		2.4745	
19.40.0	3425.81		258.00	2.4116	298.25		2.4746	
19.42.0	3425.91		260.00	2.4150	298.15		2.4744	
19.44.0	3426.07		262.00	2.4183	297.99		2.4742	
19.46.0	3426.25		264.00	2.4216	297.81		2.4739	
19.48.0	3426.56		266.00	2.4249	297.50		2.4735	
19.50.0	3426.60		268.00	2.4281	297.46		2.4734	
19.52.0	3426.66	194.0	270.00	2.4314	297.40		2.4733	
19.54.0	3427.06		272.00	2.4346	297.00		2.4728	
19.56.0	3426.91		274.00	2.4378	297.15		2.4730	
19.58.0	3427.02		276.00	2.4409	297.04		2.4728	
20.0.0	3427.63		278.00	2.4440	296.43		2.4719	
20.10.0	3428.59		288.00	2.4594	295.47		2.4705	
20.20.0	3428.41	194.4	298.00	2.4742	295.65		2.4708	
20.30.0	3429.10	194.7	308.00	2.4886	294.96		2.4698	
20.40.0	3428.62		318.00	2.5024	295.44		2.4705	
20.50.0	3429.24	194.9	328.00	2.5159	295.82		2.4696	
21.0.0	3430.20		338.00	2.5289	295.86		2.4681	
21.10.0	3430.27	195.3	348.00	2.5416	293.79		2.4680	
21.20.0	3430.31		358.00	2.5539	293.75		2.4680	
21.30.0	3431.03	195.4	368.00	2.5658	293.03		2.4669	
21.40.0	3429.81		378.00	2.5775	294.25		2.4687	
21.50.0	3430.86	195.6	388.00	2.5888	293.20		2.4672	
22.0.0	3431.11		398.00	2.5999	292.95		2.4660	
22.10.0	3431.04	195.8	408.00	2.6107	293.02		2.4669	
22.20.0	3432.04		418.00	2.6212	292.02		2.4654	
22.30.0	3432.47	196.0	428.00	2.6314	291.59		2.4648	
22.40.0	3430.20		438.00	2.6415	293.86		2.4681	
22.50.0	3431.54	196.2	448.00	2.6513	292.52		2.4662	
23.0.0	3431.82		458.00	2.6609	292.24		2.4657	
23.10.0	3431.76	196.3	468.00	2.6702	292.30		2.4658	
23.20.0	3432.03		478.00	2.6794	292.03		2.4654	
23.30.0	3432.36	196.5	488.00	2.6884	291.70		2.4649	
23.40.0	3432.61		498.00	2.6972	291.45		2.4646	
23.50.0	3432.66	196.7	508.00	2.7059	291.40		2.4645	
24.0.0	3432.80		518.00	2.7143	291.26		2.4643	
0.10.0	3433.01		528.00	2.7226	291.05		2.4640	
0.20.0	3433.14	196.7	538.00	2.7308	290.92		2.4638	
0.30.0	3433.49		548.00	2.7388	290.57		2.4633	
0.40.0	3433.71	196.9	558.00	2.7466	290.35		2.4629	

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PRESSURE & TEMPERATURE CALCULATIONS

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TIME — PRESS. — TEMP. — DEL.T. — LOG-DEL.T. — DEL.P. — LOG DEL.P. — LOG T+DEL.T. — REMARKS
HR.MN.SS PSIA DEG.F (MINUTES) PSIA DEL.T

0.50. 0	3433.97	197.1	568.00	2.7543	290.09	2.4625	
1. 0. 0	3434.09	197.1	578.00	2.7619	289.97	2.4624	
1.10. 0	3434.18		588.00	2.7694	289.88	2.4622	
1.20. 0	3434.35	197.2	598.00	2.7767	289.71	2.4620	
1.30. 0	3434.42		608.00	2.7839	289.64	2.4619	
1.40. 0	3434.55	197.2	618.00	2.7910	289.51	2.4617	
1.50. 0	3434.58	197.4	628.00	2.7980	289.48	2.4616	
2. 0. 0	3434.78		638.00	2.8048	289.28	2.4613	
2.10. 0	3434.95	197.6	648.00	2.8116	289.11	2.4611	
2.20. 0	3434.99		658.00	2.8182	289.07	2.4610	
2.30. 0	3435.04	197.6	668.00	2.8248	289.02	2.4609	
2.40. 0	3435.29		678.00	2.8312	288.77	2.4606	
2.50. 0	3435.22	197.6	688.00	2.8376	288.84	2.4607	
3. 0. 0	3435.39		698.00	2.8439	288.67	2.4604	
3.10. 0	3435.58	197.8	708.00	2.8500	288.48	2.4601	
3.20. 0	3435.70		718.00	2.8561	288.36	2.4599	
3.30. 0	3435.75	197.8	728.00	2.8621	288.31	2.4599	
3.40. 0	3435.88		738.00	2.8681	288.18	2.4597	
3.50. 0	3435.90	198.0	748.00	2.8739	288.16	2.4596	
4. 0. 0	3436.34		758.00	2.8797	287.72	2.4590	
4.10. 0	3436.34	198.0	768.00	2.8854	287.72	2.4590	
4.20. 0	3436.39		778.00	2.8910	287.67	2.4589	
4.30. 0	3436.48	198.1	788.00	2.8965	287.58	2.4588	
4.40. 0	3436.57		798.00	2.9020	287.49	2.4586	
4.50. 0	3436.68	198.1	808.00	2.9074	287.38	2.4585	
5. 0. 0	3436.80		818.00	2.9128	287.26	2.4583	
5.10. 0	3436.91	198.3	828.00	2.9180	287.15	2.4581	
5.20. 0	3437.01		838.00	2.9232	287.05	2.4580	
5.30. 0	3437.03	198.3	848.00	2.9284	287.03	2.4579	
5.40. 0	3437.02		858.00	2.9335	287.04	2.4579	
5.50. 0	3437.19	198.3	868.00	2.9385	286.87	2.4577	
6. 0. 0	3437.11		878.00	2.9435	286.95	2.4578	
6.10. 0	3437.21	198.3	888.00	2.9484	286.85	2.4577	
6.20. 0	3437.35		898.00	2.9533	286.71	2.4574	
6.30. 0	3437.48	198.5	908.00	2.9581	286.58	2.4572	
6.40. 0	3437.50		918.00	2.9628	286.56	2.4572	
6.50. 0	3437.60	198.5	928.00	2.9675	286.46	2.4571	
7. 0. 0	3437.67		938.00	2.9722	286.39	2.4570	
7.10. 0	3437.74	198.7	948.00	2.9768	286.32	2.4569	
7.20. 0	3437.78		958.00	2.9814	286.28	2.4568	
7.30. 0	3437.89	198.7	968.00	2.9859	286.17	2.4566	
7.40. 0	3437.89		978.00	2.9903	286.17	2.4566	

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FLOPPING PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MIN. SS	PRESS. PSIA	TEMP. DEG. F.	DEL. T. (MINUTES)	LOG DEL. T.	DEL. P. PSIA	LOG DEL. P.	LOG T+DEL. T. DEL. T.	FENAPKS
7.50.0	3438.02	198.7	988.00	2.9948	286.04	2.4564		37
8.0.0	3438.11	198.7	998.00	2.9991	285.95	2.4563		
8.2.0	3438.19		1000.00	3.0000	285.87	2.4562		
8.4.0	3438.02		1002.00	3.0009	286.04	2.4564		
8.6.0	3437.67		1004.00	3.0017	286.39	2.4570		38
8.8.0	3443.63		2.00	0.3010	5.96	0.7752	2.7007	SHUT IN TIME
8.10.0	3503.54		4.00	0.6021	65.87	1.8187	2.4005	8.6.0
8.12.0	3520.26		6.00	0.7782	82.59	1.9169	2.2253	
8.14.0	3521.22		8.00	0.9031	83.55	1.9219	2.1012	FLOWING PRES.
8.16.0	3521.50		10.00	1.0000	83.91	1.9238	2.0052	3437.67
8.18.0	3521.81		12.00	1.0792	84.14	1.9250	1.9269	
8.20.0	3521.99		14.00	1.1461	84.32	1.9259	1.8608	FLOW TIME T
8.22.0	3522.16		16.00	1.2041	84.49	1.9268	1.8036	[HOURS]
8.24.0	3522.25		18.00	1.2553	84.58	1.9273	1.7533	16.42.0
8.26.0	3522.41		20.00	1.3010	84.74	1.9281	1.7084	
8.28.0	3522.52		22.00	1.3424	84.85	1.9287	1.6679	
8.30.0	3522.62		24.00	1.3802	84.95	1.9292	1.6309	
8.32.0	3522.68	199.0	26.00	1.4150	85.01	1.9295	1.5970	
8.34.0	3522.73		28.00	1.4472	85.06	1.9297	1.5657	
8.36.0	3522.77		30.00	1.4771	85.10	1.9299	1.5366	
8.38.0	3522.83		32.00	1.5051	85.16	1.9302	1.5094	
8.40.0	3522.88		34.00	1.5315	85.21	1.9305	1.4839	
8.42.0	3522.92		36.00	1.5563	85.25	1.9307	1.4599	
8.44.0	3522.97		38.00	1.5798	85.30	1.9309	1.4372	
8.46.0	3523.01		40.00	1.6021	85.34	1.9312	1.4158	
8.48.0	3523.07		42.00	1.6232	85.40	1.9315	1.3955	
8.50.0	3523.16		44.00	1.6435	85.49	1.9319	1.3761	
8.52.0	3523.20	198.5	46.00	1.6628	85.53	1.9321	1.3576	
8.54.0	3523.21		48.00	1.6812	85.54	1.9322	1.3399	
8.56.0	3523.23		50.00	1.6990	85.56	1.9323	1.3230	
8.58.0	3523.28		52.00	1.7160	85.61	1.9325	1.3068	
9.0.0	3523.30		54.00	1.7324	85.63	1.9326	1.2913	
9.2.0	3523.33		56.00	1.7482	85.66	1.9328	1.2763	
9.4.0	3523.35		58.00	1.7634	85.68	1.9329	1.2619	
9.6.0	3523.38		60.00	1.7782	85.71	1.9330	1.2480	
9.8.0	3523.40		62.00	1.7924	85.73	1.9331	1.2345	
9.10.0	3523.45		64.00	1.8062	85.78	1.9334	1.2216	
9.12.0	3523.45	197.2	66.00	1.8195	85.78	1.9334	1.2090	
9.14.0	3523.44		68.00	1.8325	85.77	1.9333	1.1969	
9.16.0	3523.45		70.00	1.8451	85.78	1.9334	1.1851	
9.18.0	3523.47		72.00	1.8573	85.80	1.9335	1.1737	
9.20.0	3523.46		74.00	1.8692	85.79	1.9334	1.1626	

FLUETONOL PRESSURE & TEMPERATURE CALCULATIONS

SECTION 16
PAGE 16

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T+DEL.T	REMARKS
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA		DEL.T	
9.22.0	3523.47		76.00	1.8808	85.80	1.9335	1.1518	
9.24.0	3523.47		78.00	1.8921	85.80	1.9335	1.1413	
9.26.0	3523.46		80.00	1.9031	85.79	1.9334	1.1311	
9.28.0	3523.41		82.00	1.9138	85.74	1.9332	1.1212	
9.30.0	3523.42		84.00	1.9243	85.75	1.9332	1.1116	
9.32.0	3523.42	196.2	86.00	1.9345	85.75	1.9332	1.1021	
9.34.0	3523.40		88.00	1.9445	85.73	1.9331	1.0929	
9.36.0	3523.42		90.00	1.9542	85.75	1.9332	1.0840	
9.38.0	3523.42		92.00	1.9638	85.75	1.9332	1.0752	
9.40.0	3523.42		94.00	1.9731	85.75	1.9332	1.0667	
9.42.0	3523.43		96.00	1.9823	85.76	1.9333	1.0583	
9.44.0	3523.45		98.00	1.9912	85.78	1.9334	1.0502	
9.46.0	3523.45		100.00	2.0000	85.78	1.9334	1.0422	
9.48.0	3523.43		102.00	2.0086	85.76	1.9333	1.0344	
9.50.0	3523.43		104.00	2.0170	85.76	1.9333	1.0267	
9.52.0	3523.45	195.1	106.00	2.0253	85.78	1.9334	1.0192	
9.54.0	3523.44		108.00	2.0334	85.77	1.9333	1.0119	
9.56.0	3523.44		110.00	2.0414	85.77	1.9333	1.0047	
9.58.0	3523.45		112.00	2.0492	85.78	1.9334	0.9977	
10.0.0	3523.44		114.00	2.0569	85.77	1.9333	0.9908	
10.2.0	3523.46		116.00	2.0645	85.79	1.9334	0.9840	
10.4.0	3523.43		118.00	2.0719	85.76	1.9333	0.9773	
10.6.0	3523.47		120.00	2.0792	85.80	1.9335	0.9708	
10.8.0	3523.44		122.00	2.0864	85.77	1.9333	0.9644	
10.10.0	3523.44		124.00	2.0934	85.77	1.9333	0.9581	
10.12.0	3523.48	194.4	126.00	2.1004	85.81	1.9335	0.9519	
10.14.0	3523.50		128.00	2.1072	85.83	1.9336	0.9459	
10.16.0	3523.48		130.00	2.1139	85.81	1.9335	0.9399	
10.18.0	3523.50		132.00	2.1206	85.83	1.9336	0.9340	
10.20.0	3523.52		134.00	2.1271	85.85	1.9337	0.9283	
10.22.0	3523.53		136.00	2.1335	85.86	1.9338	0.9226	
10.24.0	3523.49		138.00	2.1399	85.82	1.9336	0.9170	
10.26.0	3523.53		140.00	2.1461	85.86	1.9338	0.9115	
10.28.0	3523.53		142.00	2.1523	85.86	1.9338	0.9061	
10.30.0	3523.53		144.00	2.1584	85.86	1.9338	0.9008	
10.32.0	3523.53	193.6	146.00	2.1644	85.86	1.9338	0.8956	
10.34.0	3523.54		148.00	2.1703	85.87	1.9338	0.8904	
10.36.0	3523.52		150.00	2.1761	85.85	1.9337	0.8854	
10.38.0	3523.50		152.00	2.1818	85.83	1.9336	0.8804	
10.40.0	3523.48		154.00	2.1875	85.81	1.9335	0.8754	
10.42.0	3523.49		156.00	2.1931	85.82	1.9336	0.8706	
10.44.0	3523.54		158.00	2.1987	85.87	1.9338	0.8658	

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

TIME — PRESS. — TEMP. — DEL.T. — LOG DEL.T. — DEL.P. — LOG DEL.P. — LOG T+DEL.T. — REMARKS
 HR. MIN. SS PSIA DEG. F (MINUTES) PSIA DEL.T.

10.46.0	3523.49	160.00	2.2041	85.82	1.9336	0.8611
10.48.0	3523.49	162.00	2.2095	85.82	1.9336	0.8564
10.50.0	3523.49	164.00	2.2148	85.82	1.9336	0.8519
10.52.0	3523.52	166.00	2.2201	85.85	1.9337	0.8473
10.54.0	3523.55	168.00	2.2253	85.88	1.9339	0.8429
10.56.0	3523.52	170.00	2.2304	85.85	1.9337	0.8385
10.58.0	3523.53	172.00	2.2355	85.86	1.9338	0.8341
11.0.0	3523.51	174.00	2.2405	85.84	1.9337	0.8299
11.10.0	3523.52	184.00	2.2648	85.85	1.9337	0.8093
11.20.0	3523.55	192.6	2.2878	85.88	1.9339	0.7899
11.30.0	3523.58	192.0	2.3096	85.91	1.9340	0.7717
11.40.0	3523.58	214.00	2.3304	85.91	1.9340	0.7545
11.50.0	3523.52	224.00	2.3502	85.85	1.9337	0.7382
12.0.0	3523.46	234.00	2.3692	85.79	1.9334	0.7228
12.10.0	3523.45	244.00	2.3874	85.78	1.9334	0.7081
12.20.0	3523.43	254.00	2.4048	85.76	1.9333	0.6942
12.30.0	3523.39	264.00	2.4216	85.72	1.9331	0.6808
12.40.0	3523.40	274.00	2.4378	85.73	1.9331	0.6681
12.50.0	3523.37	284.00	2.4533	85.70	1.9330	0.6559
13.0.0	3523.39	294.00	2.4683	85.72	1.9331	0.6443
13.10.0	3523.39	304.00	2.4829	85.72	1.9331	0.6331
13.20.0	3523.38	314.00	2.4969	85.71	1.9330	0.6223
13.30.0	3523.37	324.00	2.5105	85.70	1.9330	0.6120
13.40.0	3523.37	334.00	2.5237	85.70	1.9330	0.6021
13.50.0	3523.42	344.00	2.5366	85.75	1.9332	0.5925
14.0.0	3523.38	354.00	2.5490	85.71	1.9330	0.5833
14.10.0	3523.38	364.00	2.5611	85.71	1.9330	0.5743
14.20.0	3523.34	374.00	2.5729	85.67	1.9328	0.5657
14.30.0	3523.35	384.00	2.5843	85.68	1.9329	0.5574
14.40.0	3523.34	394.00	2.5955	85.67	1.9328	0.5494
14.50.0	3523.37	404.00	2.6064	85.70	1.9330	0.5416
15.0.0	3523.35	414.00	2.6170	85.68	1.9329	0.5341
15.10.0	3523.33	424.00	2.6274	85.66	1.9328	0.5268
15.20.0	3523.32	434.00	2.6375	85.65	1.9327	0.5197
15.30.0	3523.33	444.00	2.6474	85.66	1.9328	0.5128
15.40.0	3523.34	454.00	2.6571	85.67	1.9328	0.5061
15.50.0	3523.33	464.00	2.6665	85.66	1.9328	0.4996
16.0.0	3523.32	474.00	2.6758	85.65	1.9327	0.4933
16.10.0	3523.31	484.00	2.6848	85.64	1.9327	0.4872
16.20.0	3523.32	494.00	2.6937	85.65	1.9327	0.4812
16.30.0	3523.35	504.00	2.7024	85.68	1.9329	0.4754
16.40.0	3523.34	514.00	2.7110	85.67	1.9328	0.4697

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LOG DEL.P LOG T+DEL.T
DEL.TDEL.P
PSIA

LOG DEL.T

DEL.T
(MINUTES)TEMP.
DEG.FPRESS.
PSIATIME
HR.MN.SS

16.50.0	3523.33	188.2	524.00	2.7193	85.66	1.9328	0.4642
17.0.0	3523.32		534.00	2.7275	85.65	1.9327	0.4588
17.10.0	3523.33	188.2	544.00	2.7356	85.66	1.9328	0.4536
17.20.0	3523.32		554.00	2.7435	85.65	1.9327	0.4485
17.30.0	3523.31	188.1	564.00	2.7513	85.64	1.9327	0.4435
17.40.0	3523.32		574.00	2.7589	85.65	1.9327	0.4386
17.50.0	3523.33	188.1	584.00	2.7664	85.66	1.9328	0.4339
18.0.0	3523.29		594.00	2.7738	85.62	1.9326	0.4292
18.10.0	3523.26	187.9	604.00	2.7810	85.59	1.9324	0.4247
18.20.0	3523.25		614.00	2.7882	85.58	1.9324	0.4203
18.30.0	3523.24	187.7	624.00	2.7952	85.57	1.9323	0.4159
18.40.0	3523.21		634.00	2.8021	85.54	1.9322	0.4117
18.50.0	3523.26	187.7	644.00	2.8089	85.59	1.9324	0.4075
19.0.0	3523.24		654.00	2.8156	85.57	1.9323	0.4035
19.10.0	3523.28	187.7	664.00	2.8222	85.61	1.9325	0.3995
19.20.0	3523.27		674.00	2.8287	85.60	1.9325	0.3956
19.30.0	3523.26	187.5	684.00	2.8351	85.59	1.9324	0.3918
19.40.0	3523.33		694.00	2.8414	85.66	1.9328	0.3881
19.50.0	3523.28	187.5	704.00	2.8476	85.61	1.9325	0.3844
20.0.0	3523.28		714.00	2.8537	85.61	1.9325	0.3808
20.10.0	3523.40	187.5	724.00	2.8597	85.73	1.9331	0.3773
20.20.0	3523.38		734.00	2.8657	85.71	1.9330	0.3739
20.30.0	3523.38	187.5	744.00	2.8716	85.71	1.9330	0.3705
20.40.0	3523.40		754.00	2.8774	85.73	1.9331	0.3672
20.50.0	3523.42	187.5	764.00	2.8831	85.75	1.9332	0.3639
21.0.0	3523.41		774.00	2.8887	85.74	1.9332	0.3607
21.10.0	3523.32	187.3	784.00	2.8943	85.65	1.9327	0.3576
21.20.0	3523.40		794.00	2.8998	85.73	1.9331	0.3545
21.30.0	3523.44	187.3	804.00	2.9053	85.77	1.9333	0.3515
21.40.0	3523.43		814.00	2.9106	85.76	1.9333	0.3485
21.50.0	3523.42	187.2	824.00	2.9159	85.75	1.9332	0.3456
22.0.0	3523.40		834.00	2.9212	85.73	1.9331	0.3427
22.10.0	3523.42	187.2	844.00	2.9263	85.75	1.9332	0.3399
22.20.0	3523.45		854.00	2.9315	85.78	1.9334	0.3371
22.30.0	3523.40	187.2	864.00	2.9365	85.73	1.9331	0.3344
22.40.0	3523.40		874.00	2.9415	85.73	1.9331	0.3317
22.50.0	3523.42	187.2	884.00	2.9465	85.75	1.9332	0.3291
23.0.0	3523.44		894.00	2.9513	85.77	1.9333	0.3265
23.10.0	3523.44	187.2	904.00	2.9562	85.77	1.9333	0.3240
23.20.0	3523.43		914.00	2.9609	85.76	1.9333	0.3214
23.30.0	3523.41	187.0	924.00	2.9657	85.74	1.9332	0.3190
23.40.0	3523.43		934.00	2.9703	85.76	1.9333	0.3166

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

SECTION
PAGE 19

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.MN.SS	PSIA	DEG.F.	(MINUTES)		PSIA		DEL.T	
23.50.0	3523.46	187.0	944.00	2.9750	85.79	1.9334	0.3142	
24.0.0	3523.44		954.00	2.9795	85.77	1.9333	0.3118	
0.2.0	3523.43		956.00	2.9805	85.76	1.9333	0.3114	15. dec. 1981
0.4.0	3521.11		958.00	2.9814	83.44	1.9214	0.3109	
0.6.0	3523.67		0.00					WELL OPENED ON 24/64" adj.
0.8.0	3505.19		2.00	0.3010	18.48	1.2667		0.6. 0
0.10.0	3474.06		4.00	0.6021	49.61	1.6956		Increased choke to 36/62" adj
0.12.0	3455.54		6.00	0.7782	68.13	1.8333		SHUT IN PRES.
0.14.0	3446.20		8.00	0.9031	77.47	1.8891		3523.67
0.16.0	3443.80		10.00	1.0000	79.87	1.9024		
0.18.0	3443.16		12.00	1.0792	80.51	1.9058		
0.20.0	3442.70		14.00	1.1461	80.97	1.9083		
0.22.0	3442.08		16.00	1.2041	81.59	1.9116		
0.24.0	3441.81		18.00	1.2553	81.86	1.9131		
0.26.0	3441.65		20.00	1.3010	82.02	1.9139		
0.28.0	3441.37		22.00	1.3424	82.30	1.9154		
0.30.0	3441.26		24.00	1.3802	82.41	1.9160		
0.32.0	3441.55	193.8	26.00	1.4150	82.12	1.9144		
0.34.0	3441.59		28.00	1.4472	81.08	1.9142		
0.36.0	3441.85		30.00	1.4771	81.82	1.9129		
0.38.0	3441.85		32.00	1.5051	81.82	1.9129		
0.40.0	3443.18		34.00	1.5315	80.49	1.9057		
0.42.0	3443.27		36.00	1.5563	80.40	1.9053		
0.44.0	3443.20		38.00	1.5798	80.47	1.9056		
0.46.0	3443.23		40.00	1.6021	80.44	1.9055		
0.48.0	3443.47		42.00	1.6232	80.20	1.9042		
0.50.0	3443.71		44.00	1.6435	79.96	1.9029		
0.52.0	3443.84	197.2	46.00	1.6628	79.83	1.9022		Changed choke to 36/64" POS.
0.54.0	3442.15		48.00	1.6812	81.52	1.9113		
0.56.0	3457.17		50.00	1.6990	66.50	1.8228		
0.58.0	3468.78		52.00	1.7160	54.89	1.7395		
1.0.0	3472.57		54.00	1.7324	51.10	1.7084		
1.2.0	3473.48		56.00	1.7482	50.19	1.7006		
1.4.0	3473.97		58.00	1.7634	49.70	1.6964		
1.6.0	3474.14		60.00	1.7782	49.53	1.6949		
1.8.0	3474.31		62.00	1.7924	49.36	1.6934		
1.10.0	3474.24		64.00	1.8062	49.43	1.6940		
1.12.0	3474.19	198.5	66.00	1.8195	49.48	1.6944		
1.14.0	3474.24		68.00	1.8325	49.43	1.6940		
1.16.0	3474.40		70.00	1.8451	49.27	1.6926		
1.18.0	3474.14		72.00	1.8573	49.53	1.6949		
1.20.0	3474.35		74.00	1.8692	49.32	1.6930		

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	LOG T+DEL.T DEL.T	REMARKS
1.22.0	0	3474.42		76.00	1.8808	49.25	1.6924		
1.24.0	0	3474.56		78.00	1.8921	49.11	1.6912		
1.26.0	0	3474.59		80.00	1.9031	49.08	1.6909		
1.28.0	0	3474.67		82.00	1.9138	49.00	1.6902		
1.30.0	0	3474.69		84.00	1.9243	48.98	1.6900		
1.32.0	0	3474.84	198.9	86.00	1.9345	48.83	1.6887		
1.34.0	0	3474.91		88.00	1.9445	48.76	1.6881		
1.36.0	0	3475.02		90.00	1.9542	48.65	1.6871		
1.38.0	0	3475.00		92.00	1.9638	48.67	1.6873		
1.40.0	0	3474.97		94.00	1.9731	48.70	1.6875		
1.42.0	0	3474.95		96.00	1.9823	48.72	1.6877		
1.44.0	0	3475.11		98.00	1.9912	48.56	1.6863		
1.46.0	0	3475.09		100.00	2.0000	48.58	1.6865		
1.48.0	0	3475.00		102.00	2.0086	48.67	1.6873		
1.50.0	0	3475.04		104.00	2.0170	48.63	1.6869		
1.52.0	0	3475.18	199.2	106.00	2.0253	48.49	1.6857		
1.54.0	0	3475.09		108.00	2.0334	48.58	1.6865		
1.56.0	0	3475.25		110.00	2.0414	48.42	1.6850		
1.58.0	0	3475.29		112.00	2.0492	48.38	1.6847		
2.0.0	0	3475.26		114.00	2.0569	48.41	1.6849		
2.2.0	0	3475.29		116.00	2.0645	48.38	1.6847		
2.4.0	0	3475.35		118.00	2.0719	48.32	1.6841		
2.6.0	0	3475.40		120.00	2.0792	48.27	1.6837		
2.8.0	0	3475.42		122.00	2.0864	48.25	1.6835		
2.10.0	0	3475.39		124.00	2.0934	48.28	1.6838		
2.12.0	0	3475.45	199.2	126.00	2.1004	48.22	1.6832		
2.14.0	0	3475.43		128.00	2.1072	48.24	1.6834		
2.16.0	0	3475.43		130.00	2.1139	48.24	1.6834		
2.18.0	0	3475.47		132.00	2.1206	48.20	1.6830		
2.20.0	0	3475.41		134.00	2.1271	48.26	1.6836		
2.22.0	0	3475.48		136.00	2.1335	48.19	1.6830		
2.24.0	0	3475.60		138.00	2.1399	48.07	1.6819		
2.26.0	0	3475.62		140.00	2.1461	48.05	1.6817		
2.28.0	0	3475.62		142.00	2.1523	48.05	1.6817		
2.30.0	0	3475.64		144.00	2.1584	48.03	1.6815		
2.32.0	0	3475.58	199.2	146.00	2.1644	48.09	1.6821		
2.34.0	0	3475.43		148.00	2.1703	48.24	1.6834		
2.36.0	0	3475.64		150.00	2.1761	48.03	1.6815		
2.38.0	0	3475.64		152.00	2.1818	48.03	1.6815		
2.40.0	0	3475.50		154.00	2.1875	48.17	1.6828		
2.42.0	0	3475.52		156.00	2.1931	48.15	1.6826		
2.44.0	0	3475.62		158.00	2.1987	48.05	1.6817		

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA		DEL.T	
2.46.0	3475.62		160.00	2.2041	48.05	1.6817		
2.48.0	3475.56		162.00	2.2095	48.11	1.6822		
2.50.0	3475.60		164.00	2.2148	48.07	1.6819		
2.52.0	3475.66	199.2	166.00	2.2201	48.01	1.6813		
2.54.0	3475.69		168.00	2.2253	47.98	1.6811		
2.56.0	3475.68		170.00	2.2304	47.99	1.6812		
2.58.0	3475.70		172.00	2.2355	47.97	1.6810		
3.0.0	3475.56		174.00	2.2405	48.11	1.6822		
3.2.0	3475.62		176.00	2.2455	48.05	1.6817		
3.4.0	3475.63		178.00	2.2504	48.04	1.6816		
3.6.0	3475.71		180.00	2.2553	47.96	1.6809		
3.8.0	3475.68		182.00	2.2601	47.99	1.6812		
3.10.0	3475.68		184.00	2.2648	47.99	1.6812		
3.12.0	3475.76	199.4	186.00	2.2695	47.91	1.6804		
3.14.0	3475.67		188.00	2.2742	48.00	1.6812		
3.16.0	3475.65		190.00	2.2788	48.02	1.6814		
3.18.0	3475.67		192.00	2.2833	48.00	1.6812		
3.20.0	3475.68		194.00	2.2878	47.99	1.6812		
3.22.0	3475.76		196.00	2.2923	47.91	1.6804		
3.24.0	3475.74		198.00	2.2967	47.93	1.6806		
3.26.0	3475.70		200.00	2.3010	47.97	1.6810		
3.28.0	3475.70		202.00	2.3054	47.97	1.6810		
3.30.0	3475.61		204.00	2.3096	48.06	1.6818		
3.32.0	3475.69	199.4	206.00	2.3139	47.98	1.6811		
3.34.0	3475.70		208.00	2.3181	47.97	1.6810		
3.36.0	3475.68		210.00	2.3222	47.99	1.6812		
3.38.0	3475.60		212.00	2.3263	48.07	1.6819		
3.40.0	3475.66		214.00	2.3304	48.01	1.6813		
3.42.0	3475.72		216.00	2.3345	47.95	1.6808		
3.44.0	3475.73		218.00	2.3385	47.94	1.6807		
3.46.0	3475.78		220.00	2.3424	47.89	1.6802		
3.48.0	3475.82		222.00	2.3464	47.85	1.6799		
3.50.0	3475.81		224.00	2.3502	47.86	1.6800		
3.52.0	3475.76	199.4	226.00	2.3541	47.91	1.6804		
3.54.0	3475.81		228.00	2.3579	47.86	1.6800		
3.56.0	3475.81		230.00	2.3617	47.86	1.6800		
3.58.0	3475.72		232.00	2.3655	47.95	1.6806		
4.0.0	3475.66		234.00	2.3692	48.01	1.6813		
4.2.0	3471.26		236.00	2.3729	52.41	1.7194		Increased choke to 56/64" adj
4.4.0	3448.35		238.00	2.3766	75.32	1.8769		
4.6.0	3414.42		240.00	2.3802	109.25	2.0384		Changed choke to 56/64" POS.
4.8.0	3398.91		242.00	2.3838	124.76	2.0961		

FLOPETROL

inches

SECTION 22
PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS.	PSIA	TEMP.	DEL.T	(MINUTES)	LOG DEL.T	DEL.P	PSIA	LOG DEL.P	LOG T+DEL.T	DEL.T	REMARKS
4.10.0	0	3394.63	199.4	244.00	2.3874	129.04	2.1107							
4.12.0	0	3405.92	199.4	246.00	2.3909	117.75	2.0710							
4.14.0	0	3411.44	199.4	248.00	2.3945	112.23	2.0501							
4.16.0	0	3413.11	199.4	250.00	2.3979	110.56	2.0436							
4.18.0	0	3413.11	199.4	252.00	2.4014	110.56	2.0436							
4.20.0	0	3413.53	199.4	254.00	2.4048	110.14	2.0419							
4.22.0	0	3414.03	199.4	256.00	2.4082	109.64	2.0400							
4.24.0	0	3414.31	199.4	258.00	2.4116	109.36	2.0389							
4.26.0	0	3414.18	199.4	260.00	2.4150	109.49	2.0394							
4.28.0	0	3414.16	199.4	262.00	2.4183	109.51	2.0395							
4.30.0	0	3414.23	199.4	264.00	2.4216	109.44	2.0392							
4.32.0	0	3414.25	199.4	266.00	2.4249	109.42	2.0391							
4.34.0	0	3414.27	199.4	268.00	2.4281	109.40	2.0390							
4.36.0	0	3414.50	199.4	270.00	2.4314	109.17	2.0381							
4.38.0	0	3414.54	199.4	272.00	2.4346	109.13	2.0379							
4.40.0	0	3414.62	199.4	274.00	2.4378	109.05	2.0376							
4.42.0	0	3414.69	199.4	276.00	2.4409	108.98	2.0373							
4.44.0	0	3414.73	199.4	278.00	2.4440	108.94	2.0372							
4.46.0	0	3414.87	199.4	280.00	2.4472	108.80	2.0366							
4.48.0	0	3414.83	199.4	282.00	2.4502	108.84	2.0368							
4.50.0	0	3414.79	199.4	284.00	2.4533	108.88	2.0369							
4.52.0	0	3414.87	199.4	286.00	2.4564	108.80	2.0366							
4.54.0	0	3414.91	199.4	288.00	2.4594	108.76	2.0365							
4.56.0	0	3415.08	199.4	290.00	2.4624	108.59	2.0358							
4.58.0	0	3415.06	199.4	292.00	2.4654	108.61	2.0359							
5.0.0	0	3415.15	199.4	294.00	2.4683	108.52	2.0355							
5.2.0	0	3415.12	199.4	296.00	2.4713	108.55	2.0356							
5.4.0	0	3415.14	199.4	298.00	2.4742	108.53	2.0355							
5.6.0	0	3415.15	199.4	300.00	2.4771	108.52	2.0355							
5.8.0	0	3415.25	199.4	302.00	2.4800	108.42	2.0351							
5.10.0	0	3415.33	199.4	304.00	2.4829	108.34	2.0348							
5.12.0	0	3415.40	199.4	306.00	2.4857	108.27	2.0345							
5.14.0	0	3415.44	199.4	308.00	2.4886	108.23	2.0343							
5.16.0	0	3415.54	199.4	310.00	2.4914	108.13	2.0339							
5.18.0	0	3415.63	199.4	312.00	2.4942	108.04	2.0336							
5.20.0	0	3415.73	199.4	314.00	2.4969	107.94	2.0332							
5.22.0	0	3415.77	199.4	316.00	2.4997	107.90	2.0330							
5.24.0	0	3415.86	199.4	318.00	2.5024	107.81	2.0327							
5.26.0	0	3415.86	199.4	320.00	2.5051	107.81	2.0327							
5.28.0	0	3415.98	199.4	322.00	2.5079	107.69	2.0322							
5.30.0	0	3416.07	199.4	324.00	2.5105	107.60	2.0318							
5.32.0	0	3416.14	199.4	326.00	2.5132	107.53	2.0315							

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

SECTION 2
PAGE 23

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.	P.N.	SS.	PSIA	DEG.F.	(MINUTES)	PSIA	DEL.T	
5.34.0	0	3416.28	328.00	2.5159	107.39	2.0310		
5.36.0	0	3416.46	330.00	2.5185	107.21	2.0302		
5.38.0	0	3416.50	332.00	2.5211	107.17	2.0301		
5.40.0	0	3416.62	334.00	2.5237	107.05	2.0296		
5.42.0	0	3416.38	336.00	2.5263	107.29	2.0306		
5.44.0	0	3416.48	338.00	2.5289	107.19	2.0302		
5.46.0	0	3416.64	340.00	2.5315	107.03	2.0295		
5.48.0	0	3416.61	342.00	2.5340	107.06	2.0296		
5.50.0	0	3416.70	344.00	2.5366	106.97	2.0293		
5.52.0	0	3416.79	346.00	2.5391	106.88	2.0289		
5.54.0	0	3416.96	348.00	2.5416	106.71	2.0282		
5.56.0	0	3416.96	350.00	2.5441	106.71	2.0282		
5.58.0	0	3417.08	352.00	2.5465	106.59	2.0277		
6.0.0	0	3417.12	354.00	2.5490	106.55	2.0276		
6.2.0	0	3417.17	356.00	2.5514	106.50	2.0273		
6.4.0	0	3417.25	358.00	2.5539	106.42	2.0270		
6.6.0	0	3417.44	360.00	2.5563	106.23	2.0262		
6.8.0	0	3417.42	362.00	2.5587	106.25	2.0263		
6.10.0	0	3417.60	364.00	2.5611	106.07	2.0256		
6.12.0	0	3417.76	366.00	2.5635	105.91	2.0249		
6.14.0	0	3417.76	368.00	2.5658	105.91	2.0249		
6.16.0	0	3417.88	370.00	2.5682	105.79	2.0244		
6.18.0	0	3417.89	372.00	2.5705	105.78	2.0244		
6.20.0	0	3418.01	374.00	2.5729	105.66	2.0239		
6.22.0	0	3418.04	376.00	2.5752	105.63	2.0238		
6.24.0	0	3418.12	378.00	2.5775	105.55	2.0235		
6.26.0	0	3418.11	380.00	2.5798	105.56	2.0235		
6.28.0	0	3418.19	382.00	2.5821	105.48	2.0232		
6.30.0	0	3418.29	384.00	2.5843	105.38	2.0228		
6.32.0	0	3418.29	386.00	2.5866	105.38	2.0228		
6.34.0	0	3418.41	388.00	2.5888	105.26	2.0223		
6.36.0	0	3418.45	390.00	2.5911	105.22	2.0221		
6.38.0	0	3418.47	392.00	2.5933	105.20	2.0220		
6.40.0	0	3418.54	394.00	2.5955	105.13	2.0217		
6.42.0	0	3418.56	396.00	2.5977	105.11	2.0216		
6.44.0	0	3418.50	398.00	2.5999	105.17	2.0219		
6.46.0	0	3418.52	400.00	2.6021	105.15	2.0218		
6.48.0	0	3418.58	402.00	2.6042	105.09	2.0216		
6.50.0	0	3418.54	404.00	2.6064	105.13	2.0217		
6.52.0	0	3418.66	406.00	2.6085	105.01	2.0212		
6.54.0	0	3418.81	408.00	2.6107	104.86	2.0206		
6.56.0	0	3418.85	410.00	2.6128	104.82	2.0204		

FLUETROL
PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR. MIN. SS	PSIA	DEG.F	(MINUTES)		PSIA		DEL.T	
6.58.0	3418.86		412.00	2.6149	104.81	2.0204		
7.0.0	3418.88		414.00	2.6170	104.79	2.0203		
7.2.0	3418.81		416.00	2.6191	104.86	2.0206		
7.4.0	3418.88		418.00	2.6212	104.79	2.0203		
7.6.0	3418.88		420.00	2.6232	104.79	2.0203		
7.8.0	3419.00		422.00	2.6253	104.67	2.0198		
7.10.0	3419.05		424.00	2.6274	104.62	2.0196		
7.12.0	3418.97	199.4	426.00	2.6294	104.70	2.0199		
7.14.0	3419.01		428.00	2.6314	104.66	2.0198		
7.16.0	3418.99		430.00	2.6335	104.68	2.0199		
7.18.0	3419.03		432.00	2.6355	104.64	2.0197		
7.20.0	3419.05		434.00	2.6375	104.62	2.0196		
7.22.0	3419.13		436.00	2.6395	104.54	2.0193		
7.24.0	3419.20		438.00	2.6415	104.47	2.0190		
7.26.0	3419.20		440.00	2.6435	104.47	2.0190		
7.28.0	3419.28		442.00	2.6454	104.39	2.0187		
7.30.0	3419.30		444.00	2.6474	104.37	2.0186		
7.32.0	3419.26	199.4	446.00	2.6493	104.41	2.0187		
7.34.0	3419.24		448.00	2.6513	104.43	2.0188		
7.36.0	3419.18		450.00	2.6532	104.49	2.0191		
7.38.0	3419.24		452.00	2.6551	104.43	2.0188		
7.40.0	3419.26		454.00	2.6571	104.41	2.0187		
7.42.0	3419.30		456.00	2.6590	104.37	2.0186		
7.44.0	3419.26		458.00	2.6609	104.41	2.0187		
7.46.0	3419.38		460.00	2.6628	104.29	2.0182		
7.48.0	3419.45		462.00	2.6646	104.22	2.0180		
7.50.0	3419.51		464.00	2.6665	104.16	2.0177		
7.52.0	3419.38	199.4	466.00	2.6684	104.29	2.0182		
7.54.0	3419.45		468.00	2.6702	104.22	2.0180		
7.56.0	3419.51		470.00	2.6721	104.16	2.0177		
7.58.0	3419.48		472.00	2.6739	104.19	2.0178		
8.0.0	3419.48		474.00	2.6758	104.19	2.0178		
8.2.0	3419.47		476.00	2.6776	104.20	2.0179		
8.4.0	3419.56		478.00	2.6794	104.11	2.0175		
8.6.0	3409.27		480.00	2.6812	114.40	2.0584		Changed choke to 56/64" adj. Slowly increasing choke to 80/64" adj.
8.8.0	3396.28		482.00	2.6830	127.39	2.1051		Changed choke to 80/64" POS:
8.10.0	3380.84		484.00	2.6848	142.83	2.1548		
8.12.0	3378.74	199.4	486.00	2.6866	144.93	2.1612		
8.14.0	3377.33		488.00	2.6884	146.34	2.1654		
8.16.0	3381.97		490.00	2.6902	141.70	2.1514		
8.18.0	3364.28		492.00	2.6920	139.39	2.1442		
8.20.0	3385.70		494.00	2.6937	137.97	2.1398		

SECTION 25 LOG DEL.P LOG T+DEL.T DEL.T REMARKS

25

LOG DEL.P LOG T+DEL.T
DEL.T

PSIA

LOG DEL.T

DEL.T
(MINUTES)

TEMP.
DEG.F

PRESS.
PSIA

TIME
HR.MN.SS

8.22.0	3386.44	496.00	2.6955	137.23	2.1374
8.24.0	3387.09	498.00	2.6972	136.58	2.1354
8.26.0	3387.60	500.00	2.6990	136.07	2.1338
8.28.0	3387.78	502.00	2.7007	135.89	2.1332
8.30.0	3388.13	504.00	2.7024	135.54	2.1321
8.32.0	3388.44	506.00	2.7042	135.23	2.1311
8.34.0	3388.49	508.00	2.7059	135.18	2.1309
8.36.0	3388.91	510.00	2.7076	134.76	2.1296
8.38.0	3389.37	512.00	2.7093	134.30	2.1281
8.40.0	3389.80	514.00	2.7110	133.87	2.1267
8.42.0	3390.06	516.00	2.7126	133.61	2.1258
8.44.0	3390.39	518.00	2.7143	133.28	2.1248
8.46.0	3390.62	520.00	2.7160	133.05	2.1240
8.48.0	3390.75	522.00	2.7177	132.92	2.1236
8.50.0	3390.87	524.00	2.7193	132.80	2.1232
8.52.0	3390.87	526.00	2.7210	132.80	2.1232
8.54.0	3390.91	528.00	2.7226	132.76	2.1231
8.56.0	3390.91	530.00	2.7243	132.76	2.1231
8.58.0	3391.00	532.00	2.7259	132.67	2.1228
9.0.0	3391.23	534.00	2.7275	132.44	2.1220
9.2.0	3391.75	536.00	2.7292	131.92	2.1203
9.4.0	3391.88	538.00	2.7308	131.79	2.1199
9.6.0	3391.90	540.00	2.7324	131.77	2.1198
9.8.0	3391.88	542.00	2.7340	131.79	2.1199
9.10.0	3391.96	544.00	2.7356	131.71	2.1196
9.12.0	3392.01	546.00	2.7372	131.66	2.1195
9.14.0	3392.09	548.00	2.7388	131.58	2.1192
9.16.0	3392.23	550.00	2.7404	131.44	2.1187
9.18.0	3392.24	552.00	2.7419	131.43	2.1187
9.20.0	3392.32	554.00	2.7435	131.35	2.1184
9.22.0	3392.44	556.00	2.7451	131.23	2.1180
9.24.0	3392.43	558.00	2.7466	131.24	2.1181
9.26.0	3392.53	560.00	2.7482	131.14	2.1177
9.28.0	3392.67	562.00	2.7497	131.00	2.1173
9.30.0	3392.79	564.00	2.7513	130.88	2.1169
9.32.0	3392.81	566.00	2.7528	130.86	2.1168
9.34.0	3392.85	568.00	2.7543	130.82	2.1167
9.36.0	3392.97	570.00	2.7559	130.70	2.1163
9.38.0	3393.10	572.00	2.7574	130.57	2.1158
9.40.0	3393.21	574.00	2.7589	130.46	2.1155
9.42.0	3393.33	576.00	2.7604	130.34	2.1151
9.44.0	3393.39	578.00	2.7619	130.28	2.1149

FLIGHT LOG PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T-DEL.T.	REMARKS
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA		DEL.T	
9.46.0	3393.54		580.00	2.7634	130.13	2.1144		
9.48.0	3393.62		582.00	2.7649	130.05	2.1141		
9.50.0	3393.71		584.00	2.7664	129.96	2.1138		
9.52.0	3393.89	199.4	586.00	2.7679	129.78	2.1132		
9.54.0	3393.98		588.00	2.7694	129.69	2.1129		
9.56.0	3394.06		590.00	2.7709	129.61	2.1126		
9.58.0	3394.20		592.00	2.7723	129.47	2.1122		
10.0.0	3394.34		594.00	2.7738	129.33	2.1117		
10.2.0	3394.50		596.00	2.7752	129.17	2.1112		
10.4.0	3394.62		598.00	2.7767	129.05	2.1108		
10.6.0	3394.70		600.00	2.7782	128.97	2.1105		
10.8.0	3394.81		602.00	2.7796	128.86	2.1101		
10.10.0	3394.99		604.00	2.7810	128.68	2.1095		
10.12.0	3395.06	199.4	606.00	2.7825	128.61	2.1093		
10.14.0	3395.18		608.00	2.7839	128.49	2.1089		
10.16.0	3395.29		610.00	2.7853	128.38	2.1085		
10.18.0	3395.47		612.00	2.7868	128.20	2.1079		
10.20.0	3395.58		614.00	2.7882	128.09	2.1075		
10.22.0	3395.75		616.00	2.7896	127.92	2.1069		
10.24.0	3395.89		618.00	2.7910	127.78	2.1065		
10.26.0	3396.00		620.00	2.7924	127.67	2.1061		
10.28.0	3395.98		622.00	2.7938	127.69	2.1062		
10.30.0	3396.08		624.00	2.7952	127.59	2.1058		
10.32.0	3396.24	199.4	626.00	2.7966	127.43	2.1053		
10.34.0	3396.28		628.00	2.7980	127.39	2.1051		
10.36.0	3396.39		630.00	2.7993	127.28	2.1048		
10.38.0	3396.45		632.00	2.8007	127.22	2.1046		
10.40.0	3396.55		634.00	2.8021	127.12	2.1042		
10.42.0	3396.62		636.00	2.8035	127.05	2.1040		
10.44.0	3396.78		638.00	2.8048	126.89	2.1034		
10.46.0	3396.80		640.00	2.8062	126.87	2.1034		
10.48.0	3396.90		642.00	2.8075	126.77	2.1030		
10.50.0	3396.95		644.00	2.8089	126.72	2.1028		
10.52.0	3397.04	199.6	646.00	2.8102	126.63	2.1025		
10.54.0	3397.16		648.00	2.8116	126.51	2.1021		
10.56.0	3397.24		650.00	2.8129	126.43	2.1019		
10.58.0	3397.29		652.00	2.8142	126.38	2.1017		
11.0.0	3397.45		654.00	2.8156	126.22	2.1011		
11.2.0	3397.50		656.00	2.8169	126.17	2.1010		
11.4.0	3397.68		658.00	2.8182	125.99	2.1003		
11.6.0	3397.85		660.00	2.8195	125.82	2.0997		
11.8.0	3397.83		662.00	2.8209	125.84	2.0998		

FLOPETROL

SECTION 2

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FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS.	PSIA	TEMP. DEG.F.	DEL.T. (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	LOG T+DEL.T DEL.T	REMARKS
11.10.0	0	3397.89		664.00	2.8222	125.78	2.0996				
11.12.0	0	3397.95		666.00	2.8235	125.72	2.0994				
11.14.0	0	3397.96		668.00	2.8248	125.71	2.0994				
11.16.0	0	3398.06		670.00	2.8261	125.61	2.0990				
11.18.0	0	3398.04		672.00	2.8274	125.63	2.0991				
11.20.0	0	3398.57		674.00	2.8287	126.10	2.1075				
11.22.0	0	3396.22		676.00	2.8299	127.45	2.1053				
11.24.0	0	3396.49		678.00	2.8312	127.18	2.1044				
11.26.0	0	3396.60		680.00	2.8325	127.07	2.1040				
11.28.0	0	3396.62		682.00	2.8338	127.05	2.1040				
11.30.0	0	3396.72		684.00	2.8351	126.95	2.1036				
11.32.0	0	3396.73		686.00	2.8363	126.94	2.1036				
11.34.0	0	3396.81		688.00	2.8376	126.86	2.1033				
11.36.0	0	3396.87		690.00	2.8388	126.80	2.1031				
11.38.0	0	3396.98		692.00	2.8401	126.69	2.1027				
11.40.0	0	3397.00		694.00	2.8414	126.67	2.1027				
11.42.0	0	3397.12		696.00	2.8426	126.55	2.1023				
11.44.0	0	3397.17		698.00	2.8439	126.50	2.1021				
11.46.0	0	3397.23		700.00	2.8451	126.44	2.1019				
11.48.0	0	3397.30		702.00	2.8463	126.37	2.1016				
11.50.0	0	3397.30		704.00	2.8476	126.37	2.1016				
11.52.0	0	3397.32	199.8	706.00	2.8488	126.35	2.1016				
11.54.0	0	3397.37		708.00	2.8500	126.30	2.1014				
11.56.0	0	3397.46		710.00	2.8513	126.21	2.1011				
11.58.0	0	3397.55		712.00	2.8525	126.12	2.1008				
12.0.0	0	3397.56		714.00	2.8537	126.11	2.1007				
12.2.0	0	3409.65		2.00	0.3010	12.09	1.0824				
12.4.0	0	3491.13		4.00	0.6021	93.57	1.9711				
12.6.0	0	3517.83		6.00	0.7782	120.27	2.0802				
12.8.0	0	3519.09		8.00	0.9031	121.53	2.0847				
12.10.0	0	3519.64		10.00	1.0000	122.08	2.0866				
12.12.0	0	3519.98	199.9	12.00	1.0792	122.42	2.0879				
12.14.0	0	3520.22		14.00	1.1461	122.66	2.0887				
12.16.0	0	3520.40		16.00	1.2041	122.84	2.0893				
12.18.0	0	3520.53		18.00	1.2553	122.97	2.0898				
12.20.0	0	3520.68		20.00	1.3010	123.12	2.0903				
12.22.0	0	3520.81		22.00	1.3424	123.25	2.0908				
12.24.0	0	3520.96		24.00	1.3802	123.40	2.0913				
12.26.0	0	3521.05		26.00	1.4150	123.49	2.0916				
12.28.0	0	3521.17		28.00	1.4472	123.61	2.0921				
12.30.0	0	3521.26		30.00	1.4771	123.70	2.0924				
12.32.0	0	3521.31	200.1	32.00	1.5051	123.75	2.0925				

SHUT IN TIME 2.5527
12.0.0
2.2529
2.0780
FLOWING PRES. 1.9542
3397.56
1.8585
1.7806
FLOW TIME T 1.7148
[HOURS] 1.6580
11.52.0
1.6081
1.5635
1.5233
1.4867
1.4531
1.4221
1.3933
1.3664

PRESSURE & TEMPERATURE CALCULATIONS

SECTION

PAGE

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REMARKS

TIME	PRESS.	TEMP.	DEL.T	LOC DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	DEL.T
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA			
12.34.0	3521.40		34.00	1.5315	123.84	2.0929	1.3413	
12.36.0	3521.49		36.00	1.5563	123.93	2.0932	1.3176	
12.38.0	3521.58		38.00	1.5798	124.02	2.0935	1.2953	
12.40.0	3521.63		40.00	1.6021	124.07	2.0937	1.2742	
12.42.0	3521.70		42.00	1.6232	124.14	2.0939	1.2541	
12.44.0	3521.73		44.00	1.6435	124.17	2.0940	1.2351	
12.46.0	3521.78		46.00	1.6628	124.22	2.0942	1.2169	
12.48.0	3521.83		48.00	1.6812	124.27	2.0944	1.1996	
12.50.0	3521.92		50.00	1.6990	124.36	2.0947	1.1830	
12.52.0	3521.95	199.8	52.00	1.7160	124.39	2.0948	1.1671	
12.54.0	3522.00		54.00	1.7324	124.44	2.0950	1.1518	
12.56.0	3521.99		56.00	1.7482	124.43	2.0949	1.1372	
12.58.0	3522.06		58.00	1.7634	124.50	2.0952	1.1231	
13.0.0	3522.07		60.00	1.7782	124.51	2.0952	1.1095	
13.2.0	3522.11		62.00	1.7924	124.55	2.0953	1.0963	
13.4.0	3522.16		64.00	1.8062	124.60	2.0955	1.0837	
13.6.0	3522.13		66.00	1.8195	124.57	2.0954	1.0714	
13.8.0	3522.20		68.00	1.8325	124.64	2.0957	1.0596	
13.10.0	3522.19		70.00	1.8451	124.63	2.0956	1.0481	
13.12.0	3522.24	198.9	72.00	1.8573	124.68	2.0958	1.0370	
13.14.0	3522.27		74.00	1.8692	124.71	2.0959	1.0262	
13.16.0	3522.28		76.00	1.8808	124.72	2.0959	1.0157	
13.18.0	3522.28		78.00	1.8921	124.72	2.0959	1.0055	
13.20.0	3522.31		80.00	1.9031	124.75	2.0960	0.9956	
13.22.0	3522.34		82.00	1.9138	124.78	2.0961	0.9860	
13.24.0	3522.37		84.00	1.9243	124.81	2.0962	0.9766	
13.26.0	3522.40		86.00	1.9345	124.84	2.0964	0.9675	
13.28.0	3522.41		88.00	1.9445	124.85	2.0964	0.9586	
13.30.0	3522.45		90.00	1.9542	124.89	2.0965	0.9499	
13.32.0	3522.44	198.1	92.00	1.9638	124.88	2.0965	0.9415	
13.34.0	3522.47		94.00	1.9731	124.91	2.0966	0.9332	
13.36.0	3522.46		96.00	1.9823	124.90	2.0966	0.9251	
13.38.0	3522.48		98.00	1.9912	124.92	2.0966	0.9173	
13.40.0	3522.47		100.00	2.0000	124.91	2.0966	0.9096	
13.42.0	3522.50		102.00	2.0086	124.94	2.0967	0.9020	
13.44.0	3522.51		104.00	2.0170	124.95	2.0967	0.8947	
13.46.0	3522.53		106.00	2.0253	124.97	2.0968	0.8874	
13.48.0	3522.50		108.00	2.0334	124.94	2.0967	0.8804	
13.50.0	3522.53		110.00	2.0414	124.97	2.0968	0.8735	
13.52.0	3522.51	197.4	112.00	2.0492	124.95	2.0967	0.8667	
13.54.0	3522.51		114.00	2.0569	124.95	2.0967	0.8601	
13.56.0	3522.53		116.00	2.0645	124.97	2.0968	0.8536	

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P	LOG DEL.P	LOG T-DEL.T	DEL.T
HR.MN.SS	PSIA	DEG.F.	(MINUTES)		PSIA			
13.58.0	3522.53		118.00	2.0719	124.97	2.0968	0.8472	
14.0.0	3522.55		120.00	2.0792	124.99	2.0969	0.8409	
14.2.0	3522.63		122.00	2.0864	125.07	2.0972	0.8348	
14.4.0	3522.59		124.00	2.0934	125.03	2.0970	0.8288	
14.6.0	3522.65		126.00	2.1004	125.09	2.0972	0.8229	
14.8.0	3522.63		128.00	2.1072	125.07	2.0972	0.8171	
14.10.0	3522.63		130.00	2.1139	125.07	2.0972	0.8114	
14.12.0	3522.61	196.7	132.00	2.1206	125.05	2.0971	0.8058	
14.14.0	3522.65		134.00	2.1271	125.09	2.0972	0.8003	
14.16.0	3522.63		136.00	2.1335	125.07	2.0972	0.7949	
14.18.0	3522.63		138.00	2.1399	125.07	2.0972	0.7895	
14.20.0	3522.61		140.00	2.1461	125.05	2.0971	0.7843	
14.30.0	3522.63		150.00	2.1761	125.07	2.0972	0.7594	
14.40.0	3522.68	196.2	160.00	2.2041	125.12	2.0973	0.7364	
14.50.0	3522.77	195.6	170.00	2.2304	125.21	2.0976	0.7150	
15.0.0	3522.74		180.00	2.2553	125.18	2.0975	0.6951	
15.10.0	3522.73	195.3	190.00	2.2788	125.17	2.0975	0.6765	
15.20.0	3522.67		200.00	2.3010	125.11	2.0973	0.6590	
15.30.0	3522.67	194.7	210.00	2.3222	125.11	2.0973	0.6425	
15.40.0	3522.66		220.00	2.3424	125.10	2.0973	0.6270	
15.50.0	3522.61	194.2	230.00	2.3617	125.05	2.0971	0.6123	
16.0.0	3522.63		240.00	2.3802	125.07	2.0972	0.5984	
16.10.0	3522.62	194.0	250.00	2.3979	125.06	2.0971	0.5852	
16.20.0	3522.58		260.00	2.4150	125.02	2.0970	0.5727	
16.30.0	3522.57	193.6	270.00	2.4314	125.01	2.0969	0.5607	
16.40.0	3522.56		280.00	2.4472	125.00	2.0969	0.5494	
16.50.0	3522.56	193.3	290.00	2.4624	125.00	2.0969	0.5385	
17.0.0	3522.55		300.00	2.4771	124.99	2.0969	0.5281	
17.10.0	3522.53	192.9	310.00	2.4914	124.97	2.0968	0.5181	
17.20.0	3522.53		320.00	2.5051	124.97	2.0968	0.5085	
17.30.0	3522.55	192.7	330.00	2.5185	124.99	2.0969	0.4994	
17.40.0	3522.52		340.00	2.5315	124.96	2.0968	0.4905	
17.50.0	3522.52	192.6	350.00	2.5441	124.96	2.0968	0.4821	
18.0.0	3522.50		360.00	2.5563	124.94	2.0967	0.4739	
18.10.0	3522.52	192.4	370.00	2.5682	124.96	2.0968	0.4660	
18.20.0	3522.51		380.00	2.5798	124.95	2.0967	0.4584	
18.30.0	3522.55	192.2	390.00	2.5911	124.99	2.0969	0.4511	
18.40.0	3522.52		400.00	2.6021	124.96	2.0968	0.4440	
18.50.0	3522.55	192.0	410.00	2.6128	124.99	2.0969	0.4372	
19.0.0	3522.49		420.00	2.6232	124.93	2.0967	0.4306	
19.10.0	3522.51	191.8	430.00	2.6335	124.95	2.0967	0.4242	
19.20.0	3522.48		440.00	2.6435	124.92	2.0966	0.4180	

SECTION 30 PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.MN.SS	PSIA	DEG.F.	(MINUTES)		PSIA		DEL.T	
19.30.0	3522.47	191.8	450.00	2.6532	124.91	2.0966	0.4120	
19.40.0	3522.49		460.00	2.6628	124.93	2.0967	0.4062	
19.50.0	3522.50	191.7	470.00	2.6721	124.94	2.0967	0.4005	
20.00.0	3523.01		480.00	2.6812	125.45	2.0985	0.3950	
20.20.0	3503.48		482.00	2.6830	105.92	2.0250	0.3940	
20.40.0	3486.05		484.00	2.6848	88.49	1.9469	0.3929	
20.60.0	3472.00		486.00	2.6866	74.44	1.8718	0.3918	
20.80.0	3510.09		488.00	2.6884	112.53	2.0513	0.3908	
20.10.0	3522.12		490.00	2.6902	124.56	2.0954	0.3897	
20.12.0	3522.60	193.8	492.00	2.6920	125.04	2.0970	0.3887	
20.14.0	3522.72		494.00	2.6937	125.16	2.0975	0.3876	
20.16.0	3489.97		496.00	2.6955	92.41	1.9657	0.3866	
20.18.0	3514.57		498.00	2.6972	117.01	2.0682	0.3856	
20.20.0	3522.07		500.00	2.6990	124.51	2.0952	0.3845	
20.22.0	3522.54		502.00	2.7007	124.98	2.0968	0.3835	
20.24.0	3493.37		504.00	2.7024	95.81	1.9814	0.3825	
20.26.0	3516.71		506.00	2.7042	119.15	2.0761	0.3815	
20.28.0	3521.42		508.00	2.7059	123.86	2.0929	0.3805	
20.30.0	3521.93		510.00	2.7076	124.37	2.0947	0.3795	
20.32.0	3519.58	198.0	512.00	2.7093	125.00	2.0864	0.3785	
20.34.0	3522.68		514.00	2.7110	125.12	2.0973	0.3775	
20.36.0	3522.86		516.00	2.7126	125.30	2.0980	0.3765	
20.38.0	3522.91		518.00	2.7143	125.35	2.0981	0.3756	
20.40.0	3522.95		520.00	2.7160	125.39	2.0983	0.3746	
20.42.0	3522.99		522.00	2.7177	125.43	2.0984	0.3736	
20.44.0	3523.03		524.00	2.7193	125.47	2.0985	0.3727	
20.46.0	3523.09		526.00	2.7210	125.53	2.0987	0.3717	
20.48.0	3523.17		528.00	2.7226	125.61	2.0990	0.3708	
20.50.0	3523.31		530.00	2.7243	125.75	2.0995	0.3698	
20.52.0	3523.14	199.2	532.00	2.7259	125.58	2.0989	0.3689	
20.54.0	3530.08		534.00	2.7275	132.52	2.1223	0.3680	End of built up

SECTION 31 PAGE 62 PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	PSIA	TEMP.	DEG.F.	DEL.T	(MINUTES)	LOG DEL.T	DEL.P	PSIA	LOG DEL.P	REMARKS
20.56.	0	3537.71												
20.58.	0	3534.97												
21.0.	0	3537.20												
21.2.	0	3540.93												
21.4.	0	3538.98												
21.6.	0	3547.99												
21.8.	0	3550.40												
21.10.	0	3550.56												
21.12.	0	3551.28							196.5					
21.14.	0	3552.89												
21.16.	0	3559.76												
21.18.	0	3543.69												
21.20.	0	3920.42												
21.22.	0	3938.38												
21.24.	0	4197.36												
21.26.	0	4631.30												
21.28.	0	6384.85												
21.30.	0	6591.32												
21.32.	0	6205.84							186.4					
21.34.	0	5882.88												
21.36.	0	5641.16												
21.38.	0	5424.41												
21.40.	0	5125.54												
21.42.	0	4490.19												
21.44.	0	5037.20												
21.46.	0	5297.36												
21.48.	0	5224.76												
21.50.	0	3958.15												
21.52.	0	3960.53							176.7					
21.54.	0	3983.83												
21.56.	0	3966.50												
21.58.	0	3962.55												
22.0.	0	3947.55												
22.2.	0	3939.04												
22.4.	0	3930.57												
22.6.	0	3924.97												
22.8.	0	3919.98												
22.10.	0	3915.21												
22.12.	0	3911.10							165.7					
22.14.	0	3907.53												
22.16.	0	3904.36												
22.18.	0	3901.41												

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
HR. MN. SS	PSIA	DEG.F	(MINUTES)		PSIA		
22.20.0	3898.58						
22.22.0	3895.88						
22.24.0	3893.13						
22.26.0	3890.30						
22.28.0	3887.50						
22.30.0	3884.85						
22.32.0	3882.60	163.4					
22.34.0	3880.51						
22.36.0	3878.61						
22.38.0	3876.69						
22.40.0	3874.56						
22.42.0	3872.54						
22.44.0	3870.78						
22.46.0	3868.74						
22.48.0	3866.64						
22.50.0	3865.06						
22.52.0	3863.40	164.5					
22.54.0	3859.53						
22.56.0	3857.82						
22.58.0	3856.22						
23.0.0	3854.75						
23.2.0	3853.19						
23.4.0	3851.89						
23.6.0	3850.41						
23.8.0	3848.78						
23.10.0	3847.05						
23.12.0	3845.27	166.6					
23.14.0	3843.54						
23.16.0	3841.89						
23.18.0	3840.38						
23.20.0	3905.47						
23.22.0	3908.36						
23.24.0	3925.02						
23.26.0	3877.17						
23.28.0	3890.87						
23.30.0	3873.67						
23.32.0	3881.37	168.8					
23.34.0	3878.35						
23.36.0	3875.51						
23.38.0	3875.33						
23.40.0	3875.17						
23.42.0	3872.25						

16. dec. 1981

23.44.0	3869.77
23.46.0	3867.38
23.48.0	3865.19
23.50.0	3862.75
23.52.0	3860.68
23.54.0	3858.67
23.56.0	3856.66
23.58.0	3854.49
24.0.0	3852.19
24.0.0	3852.19
0.2.0	3850.16
0.4.0	3848.27
0.6.0	3846.66
0.8.0	3844.84
0.10.0	3843.12
0.12.0	3841.60
0.14.0	3840.24
0.16.0	3838.91
0.18.0	3837.55
0.20.0	3836.30
0.22.0	3835.12
0.24.0	3833.98
0.26.0	3832.87
0.28.0	3831.82
0.30.0	3830.88
0.32.0	3830.04
0.34.0	3829.31
0.36.0	3828.44
0.38.0	3827.28
0.40.0	3826.08
0.42.0	3824.90
0.44.0	3823.53
0.46.0	3821.90
0.48.0	3820.45
0.50.0	3819.31
0.52.0	3818.26
0.54.0	3817.18
0.56.0	3816.09
0.58.0	3815.08
1.0.0	3814.13
1.2.0	3813.20
1.4.0	3812.17

RES PSIA
DEG.F
(MINUTES)
LOC
DEL
PSIA

1

100

175.8

176.7

177.4

178.3

2.30.0	0	4192.07	
2.32.0	0	4194.38	179.6
2.34.0	0	4196.11	
2.36.0	0	4196.63	
2.38.0	0	4197.18	
2.40.0	0	4197.88	
2.42.0	0	4199.10	
2.44.0	0	4197.99	
2.46.0	0	4202.02	
2.48.0	0	4212.90	
2.50.0	0	4219.75	
2.52.0	0	4219.44	180.5
2.54.0	0	4212.91	
2.56.0	0	4207.11	
2.58.0	0	4198.87	
3.0.0	0	4194.60	
3.2.0	0	4193.92	
3.4.0	0	4194.80	
3.6.0	0	4196.61	
3.8.0	0	4198.79	
3.10.0	0	4200.66	
3.12.0	0	4196.37	181.6
3.14.0	0	4191.00	
3.16.0	0	4184.50	
3.18.0	0	4176.61	
3.20.0	0	4171.40	
3.22.0	0	4167.84	
3.24.0	0	4166.74	
3.26.0	0	4166.88	
3.28.0	0	4166.19	
3.30.0	0	4166.19	
3.32.0	0	4166.49	181.6
3.34.0	0	4166.34	
3.36.0	0	4167.27	
3.38.0	0	4168.12	
3.40.0	0	4169.27	
3.42.0	0	4170.72	
3.44.0	0	4093.09	
3.46.0	0	4048.35	
3.48.0	0	4185.20	
3.50.0	0	4064.32	
3.52.0	0	3945.11	182.1

FLUID CONTROL

HIGH ACCURACY PRESSURE MEASUREMENT

[PLAYBACK]

CLIENT : STATOIL
 WELL : 15/9 - 11
 DATE : 12/12 - 81 - 16/12 - 81
 GAUGE : 81049
 LINDAR PLOT of complete test

TEMPERATURE DEG F

PRESSURE P.S.I.

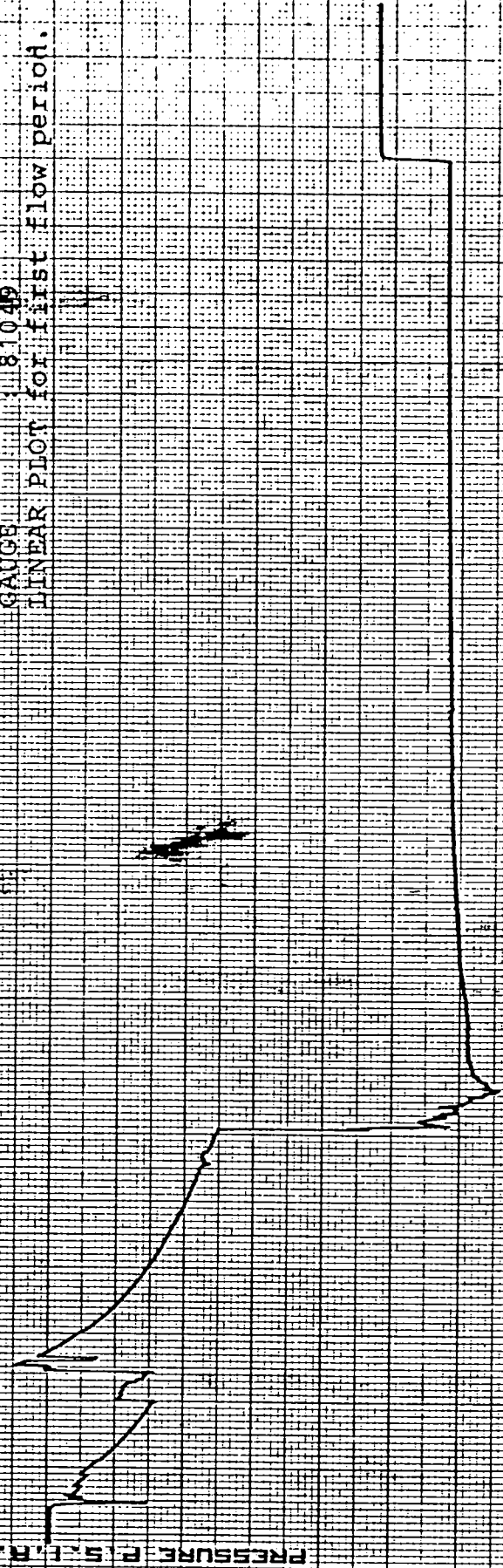
TIME [HOURS]



FLOPPETROL HIGH ACCURACY PRESSURE MEASUREMENT [ALAYBECK]

CLIENT STATOIL
WELL 15/8-11
DATE 13/12/81
GAUGE 181049

LINEAR PLOT for first flow period.



TIME CHOURS

9 12 18 24

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

0000

0000

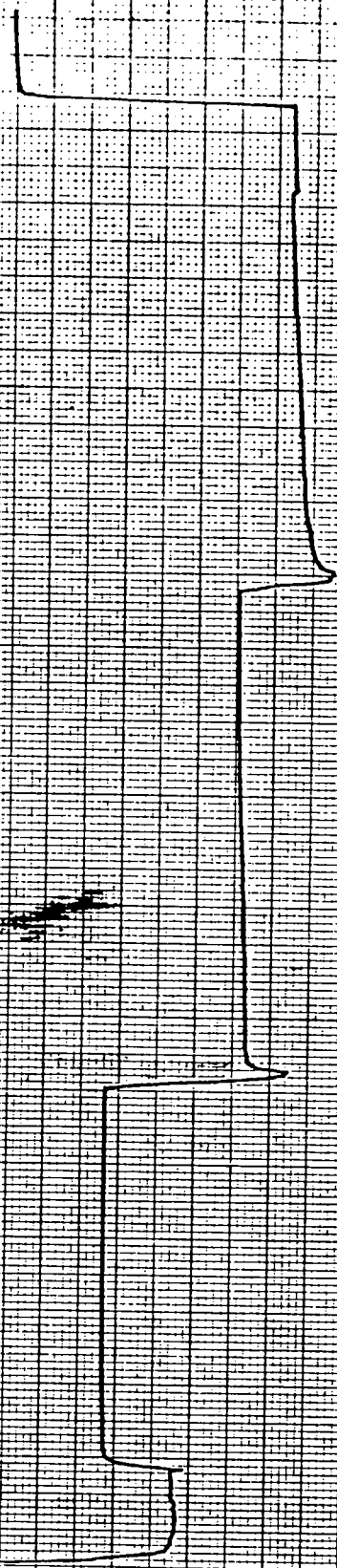
0000

0000

0000

CLIENT : STATOIL
WELL : 15/9H-11
DATE : 14/10 - 81 - 15/12 - 81
GAUGE : 81029
LINEAR plot for second flow period.

PRESSURE P.S.I.



TIME (HOURS)

23 0 1 2 3 4 5 6 7 8 9 10 11 12

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

3525

3525

3150

3150

3050

3050

PRESSURE P.S.I.A.

CLIENT : STATOIL

WELL : 579 - 11

DATE : 4/12 - 81

GAUGE : 81049

CORNER PLOT of first build - up
(expanded scale)

LOS T + DELTA T

DELTA T

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT [PLAYBACK]

3525

3520

3515

3510

3505

3500

PRESSURE P.S.I.B.

CLIENT : STATOIL
WELL : 1579 - 11
DATE : 15/12/81
GAUGE : 81049

HORNER PLOT of second build - up

LOG T + DELTA T
DELTA T

FLUORETROL

HIGH ACCURACY PRESSURE MEASUREMENT

[PLAYBACK]

2

LOG DELTA P (PSI)



CLIENT : STATOIL
WELL : 15/9-11
DATE : 4/12/81
GAUGE : 81049
LOG - LOG PLOT OF FIRST BUILD - UP

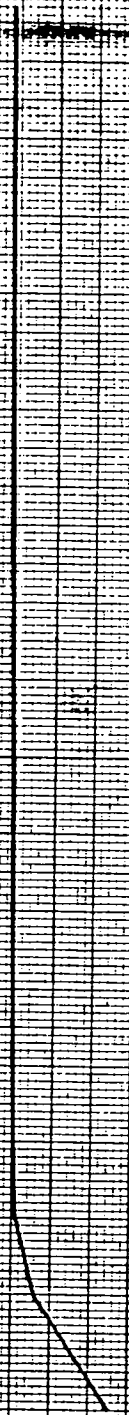
LOG DELTA T (MINUTES)

2

3

FLOPETROL HIGH ACCURACY PRESSURE MEASUREMENT PLAYBACK

LOG DELTA P (PSIA)



CLIENT : STATOIL
WELL : 5/9-11
DATE : 5/12-81
CAUSE : 81049

LOG - LOG PLOT OF SECOND BUILD - up

LOG DELTA T (MINUTES)

RESULTS & TEMPERATURE CALCULATIONS

REMARKS

Gauge 81049
Data 12. Dec. 1981

LOG DEL.F

DLL.F

DEL.T

TEMP.

PRESS.

TIME

PSIA

(MINUTES)

HR.NW.SS

TIME	HR.NW.SS	PRESS.	TEMP.	DEL.T	LOG DEL.T	DLL.F	LOG DEL.F	REMARKS
		PSIA	DEG.F	(MINUTES)		PSIA		
5.22.0	0	11.05	50.0					
5.23.0	0	11.42	50.0					
5.24.0	0	11.41						
5.25.0	0	11.45						
5.26.0	0	11.52						
5.27.0	0	11.57						
5.28.0	0	11.54						
5.29.0	0	11.58						
5.30.0	0	12.55						
5.31.0	0	14.37						
5.32.0	0	19.95						
5.33.0	0	21.11	50.5					
5.34.0	0	21.10						
5.35.0	0	22.55						
5.40.0	0	22.28						
5.45.0	0	27.33	51.1					
5.50.0	0	31.44						
5.55.0	0	30.91	51.1					
6.0.0	0	32.67						
6.5.0	0	33.88	50.5					
6.10.0	0	33.68						
6.15.0	0	36.84	50.4					
6.20.0	0	36.66						
6.25.0	0	37.78	49.5					
6.30.0	0	39.48						
6.35.0	0	39.51	48.9					
6.40.0	0	39.50						
6.45.0	0	43.75	48.2					
6.50.0	0	49.93						
6.55.0	0	56.63	47.5					
7.0.0	0	56.83						
7.5.0	0	105.85	46.8					
7.10.0	0	105.94						
7.15.0	0	106.31	46.4					
7.20.0	0	155.83						
7.25.0	0	155.81	46.4					
7.30.0	0	158.83						
7.35.0	0	252.81	46.4					
7.40.0	0	259.35						
7.45.0	0	348.00	46.8					
7.50.0	0	443.25						
7.55.0	0	443.52	49.6					

5

6

7

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T.	LOG DEL.T	DEL.P
HR. MIN. SS	PSIA	DEG.F	(MINUTES)		PSIA
8.00.0	444.03				
8.05.0	449.63	53.6			
8.10.0	450.19				
8.15.0	455.87	57.6			
8.20.0	456.81				
8.25.0	459.08	60.0			
8.30.0	459.12				
8.35.0	456.81	63.3			
8.40.0	512.55				
8.45.0	512.86	65.1			
8.50.0	512.74				
8.55.0	512.76	66.7			
9.00.0	512.85				
9.05.0	512.77	68.0			
9.10.0	512.97				
9.15.0	512.81	68.9			
9.20.0	518.55				
9.25.0	613.32	69.6			
9.30.0	601.52				
9.35.0	710.87	70.3			
9.40.0	710.56				
9.45.0	731.23	71.4			
9.50.0	810.04				
9.55.0	856.48	72.7			
10.00.0	957.25				
10.05.0	1006.63	74.3			
10.10.0	1054.62				
10.15.0	1059.45	76.3			
10.20.0	1170.52				
10.25.0	1244.65	78.4			
10.30.0	1342.68				
10.35.0	1404.52	81.0			
10.40.0	1439.79				
10.45.0	1439.62	83.7			
10.50.0	1440.62				
10.55.0	1440.60	86.0			
11.00.0	1441.63				
11.05.0	1440.20	87.8			
11.10.0	1440.42				
11.15.0	1471.10	89.2			
11.20.0	1490.57				
11.25.0	1538.61	89.6			

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	ELL.T.	LOC DEL.T.	LLL.P	LOC DEL.P
HR:MM:SS	PSIA	DEG.F	(MINUTES)	PSIA		
11.30. 0	1586.66					
11.35. 0	1619.73	90.5				
11.40. 0	1681.49					
11.45. 0	1750.13	91.0				
11.50. 0	1741.46					
11.55. 0	1822.46	91.5				
12. 0. 0	1918.63					
12. 5. 0	2016.47	93.0				
12.10. 0	2017.61					
12.15. 0	2066.92	95.5				
12.20. 0	2142.36					
12.25. 0	2242.15	96.1				
12.30. 0	2325.45					
12.35. 0	2396.54	101.5				
12.40. 0	2397.43					
12.45. 0	2398.31	105.1				
12.50. 0	2398.20					
12.55. 0	2398.76	108.1				
13. 0. 0	2397.53					
13. 5. 0	2402.16	110.3				
13.10. 0	2399.91					
13.15. 0	2400.35	111.7				
13.20. 0	2400.50					
13.25. 0	2403.96	112.6				
13.30. 0	2559.12					
13.35. 0	2657.07	113.5				
13.40. 0	2687.54					
13.45. 0	2685.97	115.5				
13.50. 0	2603.36					
13.55. 0	2697.47	116.0				
14. 0. 0	2574.42					
14. 5. 0	2975.51	121.1				
14.10. 0	3076.90					
14.15. 0	3165.54	124.3				
14.20. 0	3164.51					
14.25. 0	3259.79	126.1				
14.30. 0	3353.11					
14.35. 0	3447.65	132.4				
14.40. 0	3457.10					
14.45. 0	3454.67	136.9				
14.50. 0	3454.56					
14.55. 0	3456.59	140.0				

13

14

15

16

17

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PNSS.	TEMP.	DEL.T	LOG DEL.T	ELL.F	LOG ELL.F	REMARKS
HR. MIN. SS	PSIA	DEG.F	(MINUTES)		FSIA		
15.00.00	3456.502	142.2					
15.05.00	3456.522	142.2					
15.10.00	3457.65						
15.15.00	3461.19	143.6					
15.20.00	3454.89						
15.25.00	3504.39	144.3					
15.30.00	3551.20						
15.35.00	3614.12	145.2					
15.40.00	3638.79						
15.45.00	3694.77	146.1					
15.50.00	3689.74						
15.55.00	3697.47	147.5					
16.00.00	3712.55						
16.05.00	3709.74	150.1					
16.10.00	3735.77						
16.15.00	3717.55	151.9					
16.20.00	3717.26						
16.25.00	3727.26	153.1					
16.30.00	3724.83						
16.35.00	3723.03	154.0					
16.40.00	3742.76						
16.45.00	3736.02	154.6					
16.50.00	3772.72						
16.55.00	3777.37	155.1					
17.00.00	3647.00						
17.05.00	3841.20	155.8					
17.10.00	3847.94						
17.15.00	3843.07	156.9					
17.20.00	3849.91						
17.25.00	3865.26	157.6					
17.30.00	3861.17						
17.35.00	3871.02	158.5					
17.40.00	3879.11						
17.45.00	3878.35	159.3					
17.50.00	3890.77						
17.55.00	3894.71	160.0					
18.00.00	3893.09						
18.05.00	3890.55	160.7					
18.10.00	3891.35						
18.15.00	3895.44	161.2					
18.20.00	3893.03						
18.25.00	3893.53	161.6					

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	ELL.T	LOG DEL.T	DEL.P	LOG DEL.P
HR:MIN:SS	PSIA	DEG.F	(MINUTES)		PSIA	
18.30.0	3895.62					
18.35.0	3893.39	162.1				
18.40.0	3892.19					
18.45.0	3896.06	162.5				
18.50.0	3895.66					
18.55.0	3894.24	162.7				
19.0.0	3900.22					
19.5.0	3900.98	162.9				
19.10.0	3901.89					
19.15.0	3902.97	163.2				
19.20.0	3903.41					
19.25.0	3903.76	163.4				
19.30.0	3904.26					
19.35.0	3904.60	163.8				
19.40.0	3904.95					
19.45.0	3905.34	163.9				
19.50.0	3905.72					
19.55.0	3906.17	164.1				
20.0.0	3906.65					
20.5.0	3906.19	164.5				
20.10.0	3906.17					
20.15.0	3906.29	164.7				
20.20.0	3906.33					
20.25.0	3906.37	164.7				
20.30.0	3906.39					
20.35.0	3906.47	164.8				
20.40.0	3906.95					
20.45.0	3906.56	165.0				
20.50.0	3906.76					
20.55.0	3906.70	165.2				
21.0.0	3906.76					
21.5.0	3906.80	165.2				
21.10.0	3906.88					
21.15.0	3906.95	165.4				
21.20.0	3906.95					
21.25.0	3906.98	165.6				
21.30.0	3906.96					
21.35.0	3906.96	165.7				
21.40.0	3906.98					
21.45.0	3906.97	165.9				
21.50.0	3907.01					
21.55.0	3907.04	166.1				

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR. IN. SS	PR. SS.	PSIA	TEMP.	DEL. T	LOG DEL. T	DEL. P	LOG DEL. P
				LEG. F	(MINUTES)		PSIA	
22. 0. 0		3906.69						
22. 5. 0		3907.23		166.1				
22.10. 0		3907.79						
22.15. 0		3908.29		166.3				
22.20. 0		3908.54						
22.25. 0		3908.70		166.5				
22.30. 0		3908.81						
22.35. 0		3908.85		166.5				
22.40. 0		3908.89						
22.45. 0		3908.93		166.6				
22.50. 0		3909.05						
22.55. 0		3909.20		166.8				
23. 0. 0		3909.33						
23. 5. 0		3909.46		166.8				
23.10. 0		3909.61						
23.15. 0		3909.72		166.8				
23.20. 0		3909.76						
23.25. 0		3909.88		166.8				
23.30. 0		3910.08						
23.35. 0		3910.19		167.0				
23.40. 0		3910.31						
23.45. 0		3910.40		167.0				
23.50. 0		3910.50						
23.55. 0		3910.56		167.0				
24. 0. 0		3910.68						
24. 0. 0		3910.68						
0. 5. 0		3910.86		167.2				
0.10. 0		3910.99						
0.15. 0		3911.15		167.4				
0.20. 0		3911.21						
0.25. 0		3911.30		167.4				
0.30. 0		3911.38						
0.35. 0		3911.46		167.5				
0.40. 0		3911.58						
0.45. 0		3911.66		167.5				
0.50. 0		3911.74						
0.55. 0		3911.78		167.7				
1. 0. 0		3911.82						
1. 5. 0		3911.95		167.9				
1.10. 0		3911.99						
1.15. 0		3912.06		168.1				
1.20. 0		3912.11						

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SECTION PAGE 7 REMARKS 31 32 33 34 35

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HK.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T. (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
1.25.0	0	3912.19	167.9					
1.30.0	0	3912.23	167.9					
1.35.0	0	3912.26	167.7					
1.40.0	0	3912.34						
1.45.0	0	3912.37	167.7					
1.50.0	0	3912.37						
1.55.0	0	3912.39	167.7					
2.0.0	0	3912.37						
2.5.0	0	3912.39	167.7					
2.10.0	0	3912.41						
2.15.0	0	3912.47	167.7					
2.20.0	0	3912.49						
2.25.0	0	3912.53	167.7					
2.30.0	0	3912.61						
2.35.0	0	3912.64	167.9					
2.40.0	0	3912.55						
2.45.0	0	3912.53	167.9					
2.50.0	0	3912.44						
2.55.0	0	3912.40	168.1					
3.0.0	0	3912.31						
3.5.0	0	3912.19	168.1					
3.10.0	0	3912.11						
3.15.0	0	3912.13	168.3					
3.20.0	0	3912.04						
3.25.0	0	3911.79	168.3					
3.30.0	0	3911.69						
3.35.0	0	3911.65	168.4					
3.40.0	0	3911.61						
3.45.0	0	3911.48	168.4					
3.50.0	0	3911.44						
3.55.0	0	3911.44	168.6					
4.0.0	0	3911.47						
4.5.0	0	3911.47	168.6					
4.10.0	0	3911.39						
4.15.0	0	3911.33	168.8					
4.20.0	0	3911.31						
4.25.0	0	3911.26	168.8					
4.30.0	0	3911.28						
4.35.0	0	3911.22	168.8					
4.40.0	0	3911.20						
4.45.0	0	3911.12	169.0					
4.50.0	0	3911.06						

PRESSURE & TEMPERATURE CALCULATIONS

REMARKS

LOG DEL.P

DEL.P
PSIA

LOG DEL.T

DEL.T
(MINUTES)

TEMP.
DEG.F

PRUSS.
PSIA

TIME
HR.MN.SS

4.55.0	3910.99	169.0			
5.0.0	3910.99				
5.5.0	3910.92	169.2			
5.10.0	3910.94				
5.15.0	3910.90	169.2			
5.20.0	3910.92				
5.25.0	3910.92	169.3			
5.30.0	3910.88				
5.35.0	3910.87	169.3			
5.40.0	3910.89				
5.45.0	3910.93	169.3			
5.50.0	3910.93				
5.55.0	3910.94	169.5			
6.0.0	3910.94				
6.5.0	3910.89	169.5			
6.10.0	3910.84				
6.15.0	3910.76	169.5			
6.20.0	3910.72				
6.25.0	3910.68	169.7			
6.30.0	3910.62				
6.35.0	3910.67	169.7			
6.40.0	3910.65				
6.45.0	3910.65	169.9			
6.50.0	3910.63				
6.55.0	3910.59	169.9			
7.0.0	3910.65				
7.5.0	3910.67	169.9			
7.10.0	3910.68				
7.15.0	3910.62	170.1			
7.20.0	3910.60				
7.25.0	3910.56	170.1			
7.30.0	3910.50				
7.35.0	3910.43	170.1			
7.40.0	3910.41				
7.45.0	3910.40	170.2			
7.50.0	3910.40				
7.55.0	3910.37	170.4			
8.0.0	3910.37				
8.1.0	3910.35	170.4			
8.2.0	3910.36				
8.3.0	3910.37				
8.4.0	3910.38				

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SECTION 2
PAGE 9

REMARKS

OPERATION
PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MN.	SS.	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P
8.5.0				3910.38					
8.6.0				3910.36					
8.7.0				3910.37					
8.8.0				3910.33					
8.9.0				3910.34					
8.10.0				3910.32					
8.11.0				3910.31					
8.12.0				3910.29					
8.13.0				3910.32	170.4				
8.14.0				3910.32					
8.15.0				3910.28					
8.16.0				3910.26					
8.17.0				3910.24					
8.18.0				3910.24					
8.19.0				3910.20					
8.20.0				3910.18					
8.21.0				3910.14					
8.22.0				3910.12					
8.23.0				3910.12	170.4				
8.24.0				3910.11					
8.25.0				3910.07					
8.26.0				3910.10					
8.27.0				3910.08					
8.28.0				3910.07					
8.29.0				3910.05					
8.30.0				3910.06					
8.31.0				3910.04					
8.32.0				3910.05					
8.33.0				3910.03	170.6				
8.34.0				3910.02					
8.35.0				3910.00					
8.36.0				3909.99					
8.37.0				3909.97					
8.38.0				3909.94					
8.39.0				3909.92					
8.40.0				3909.93					
8.41.0				3909.89					
8.42.0				3909.91					
8.43.0				3909.90	170.6				
8.44.0				3909.92					
8.45.0				3909.92					
8.46.0				3907.67					

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
8.47.	0	3905.25						
8.48.	0	3903.74						
8.49.	0	3894.60						
8.50.	0	3875.50						
8.51.	0	3791.54						
8.52.	0	3817.86						
8.53.	0	3860.92		170.6				
8.54.	0	3871.67						
8.55.	0	3884.99						
8.56.	0	3872.87						
8.57.	0	3870.68						
8.58.	0	3877.24						
8.59.	0	3889.85						
9. 0.	0	3880.50						
9. 1.	0	3879.34						
9. 2.	0	3877.94						
9. 3.	0	3876.70		170.6				
9. 4.	0	3875.58						
9. 5.	0	3874.55						
9. 6.	0	3873.56						
9. 7.	0	3872.58						
9. 8.	0	3871.63						
9. 9.	0	3878.17						
9.10.	0	3877.42						
9.11.	0	3876.00						
9.12.	0	3874.57						
9.13.	0	3873.14		170.6				
9.14.	0	3871.70						
9.15.	0	3870.27						
9.16.	0	3868.84						
9.17.	0	3867.46						
9.18.	0	3866.09						
9.19.	0	3864.69						
9.20.	0	3863.28						
9.21.	0	3871.01						
9.22.	0	3871.20						
9.23.	0	3870.19		170.6				
9.24.	0	3868.70						
9.25.	0	3867.17						
9.26.	0	3865.66						
9.27.	0	3863.57						
9.28.	0	3862.04						

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
9.29.0	0	3860.51						
9.30.0	0	3859.04						
9.31.0	0	3858.05						
9.32.0	0	3856.60						
9.33.0	0	3855.14	170.6					
9.34.0	0	3853.71						
9.35.0	0	3852.36						
9.36.0	0	3847.49						
9.37.0	0	3846.14						
9.38.0	0	3844.76						
9.39.0	0	3843.43						
9.40.0	0	3842.07						
9.41.0	0	3840.75						
9.42.0	0	3839.46						
9.43.0	0	3838.14	170.6					
9.44.0	0	3836.87						
9.45.0	0	3835.59						
9.46.0	0	3834.34						
9.47.0	0	3833.06						
9.48.0	0	3831.81						
9.49.0	0	3830.59						
9.50.0	0	3829.43						
9.51.0	0	3828.24						
9.52.0	0	3827.08						
9.53.0	0	3825.96	170.8					
9.54.0	0	3824.80						
9.55.0	0	3823.66						
9.56.0	0	3822.48						
9.57.0	0	3821.31						
9.58.0	0	3820.19						
9.59.0	0	3819.09						
10.0.0	0	3817.98						
10.1.0	0	3816.92						
10.2.0	0	3815.87						
10.3.0	0	3814.83	170.8					
10.4.0	0	3813.78						
10.5.0	0	3812.76						
10.6.0	0	3811.74						
10.7.0	0	3810.74						
10.8.0	0	3809.75						
10.9.0	0	3808.77						
10.10.0	0	3807.81						

SECTION PAGE 12 REMARKS PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	PSIA	TEMP.	DEG.F	DEL.T	(MINUTES)	LOG DEL.T	DEL.P	PSIA	LOG DEL.P	REMARKS
10.11.	0			3806.84										
10.12.	0			3805.90										
10.13.	0			3804.95		171.0								
10.14.	0			3804.02										
10.15.	0			3803.07										
10.16.	0			3802.14										
10.17.	0			3801.25										
10.18.	0			3800.36										
10.19.	0			3799.49										
10.20.	0			3798.62										
10.21.	0			3797.75										
10.22.	0			3796.88										
10.23.	0			3796.03		171.0								
10.24.	0			3795.18										
10.25.	0			3794.33										
10.26.	0			3793.50										
10.27.	0			3792.69										
10.28.	0			3791.86										
10.29.	0			3791.05										
10.30.	0			3790.25										
10.31.	0			3789.44										
10.32.	0			3788.63										
10.33.	0			3787.84		171.0								
10.34.	0			3787.05										
10.35.	0			3786.28										
10.36.	0			3785.53										
10.37.	0			3780.73										
10.38.	0			3783.42										
10.39.	0			3828.63										
10.40.	0			3827.18										
10.41.	0			3825.83										
10.42.	0			3824.52										
10.43.	0			3823.28		171.1								
10.44.	0			3822.08										
10.45.	0			3821.97										
10.46.	0			3824.19										
10.47.	0			3823.11										
10.48.	0			3821.99										
10.49.	0			3821.06										
10.50.	0			3821.42										
10.51.	0			3821.73										
10.52.	0			3820.92										

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
10.53.	0	3819.85	171.1					
10.54.	0	3818.74						
10.55.	0	3817.66						
10.56.	0	3816.52						
10.57.	0	3814.78						
10.58.	0	3805.78						
10.59.	0	3804.04						
11.0.	0	3802.49						
11.1.	0	3797.40						
11.2.	0	3796.46						
11.3.	0	3795.52	171.1					
11.4.	0	3794.55						
11.5.	0	3793.57						
11.6.	0	3792.60						
11.7.	0	3791.52						
11.8.	0	3785.45						
11.9.	0	3917.39						
11.10.	0	3904.99						
11.11.	0	3917.12						
11.12.	0	3914.71						
11.13.	0	3912.39	171.3					
11.14.	0	3915.91						
11.15.	0	3952.12						
11.16.	0	3948.65						
11.17.	0	3945.20						
11.18.	0	3941.91						
11.19.	0	3938.73						
11.20.	0	3859.72						
11.21.	0	3855.83						
11.22.	0	3854.61						
11.23.	0	3853.33	171.3					
11.24.	0	3925.99						
11.25.	0	3923.42						
11.26.	0	3920.67						
11.27.	0	3918.02						
11.28.	0	3915.51						
11.29.	0	3913.05						
11.30.	0	3910.81						
11.31.	0	3908.55						
11.32.	0	3906.09						
11.33.	0	3903.83	171.5					
11.34.	0	3901.64						

ENGINEERING PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	AN.	SS	PRESS.	TEMP.	DEL.T.	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
				PSIA	DEG.F	(MINUTES)		PSIA		
11.35.	0			3899.38						
11.36.	0			3897.54						
11.37.	0			3895.83						
11.38.	0			3893.60						
11.39.	0			3891.49						
11.40.	0			3889.50						
11.41.	0			3887.68						
11.42.	0			3885.76						
11.43.	0			3884.05	171.5					
11.44.	0			3882.47						
11.45.	0			3880.50						
11.46.	0			3878.82						
11.47.	0			3877.04						
11.48.	0			3875.36						
11.49.	0			3873.66						
11.50.	0			3872.00						
11.51.	0			3867.66						
11.52.	0			3865.96						
11.53.	0			3864.36	171.5					
11.54.	0			3862.80						
11.55.	0			3861.27						
11.56.	0			3859.75						
11.57.	0			3858.22						
11.58.	0			3856.73						
11.59.	0			3855.23						
12. 0.	0			3853.76						
12. 1.	0			3852.33						
12. 2.	0			3850.90						
12. 3.	0			3849.49	171.7					
12. 4.	0			3848.12						
12. 5.	0			3846.76						
12. 6.	0			3845.42						
12. 7.	0			3844.13						
12. 8.	0			3842.81						
12. 9.	0			3841.51						
12.10.	0			3840.25						
12.11.	0			3839.01						
12.12.	0			3837.77						
12.13.	0			3836.57	171.7					
12.14.	0			3835.36						
12.15.	0			3834.18						
12.16.	0			3833.02						

TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	TEMP.	DEL.T.	LOG DEL.T	DEL.P	LOG DEL.P
				PSIA	DEG.F	(MINUTES)		PSIA	
12.17.	0			3831.86					
12.18.	0			3830.67					
12.19.	0			3829.53					
12.20.	0			3828.39					
12.21.	0			3827.27					
12.22.	0			3826.17					
12.23.	0			3825.07	171.7				
12.24.	0			3823.97					
12.25.	0			3822.88					
12.26.	0			3821.80					
12.27.	0			3820.74					
12.28.	0			3819.69					
12.29.	0			3818.64					
12.30.	0			3817.62					
12.31.	0			3816.59					
12.32.	0			3815.58					
12.33.	0			3814.58	171.7				
12.34.	0			3813.55					
12.35.	0			3812.55					
12.36.	0			3811.59					
12.37.	0			3810.60					
12.38.	0			3809.64					
12.39.	0			3808.70					
12.40.	0			3807.73					
12.41.	0			3806.79					
12.42.	0			3805.88					
12.43.	0			3804.94	171.9				
12.44.	0			3804.01					
12.45.	0			3803.10					
12.46.	0			3802.19					
12.47.	0			3801.30					
12.48.	0			3800.39					
12.49.	0			3799.49					
12.50.	0			3798.58					
12.51.	0			3797.69					
12.52.	0			3796.82					
12.53.	0			3795.95	171.9				
12.54.	0			3795.10					
12.55.	0			3794.25					
12.56.	0			3793.43					
12.57.	0			3792.60					
12.58.	0			3791.79					

REMARKS

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	NN.	SS.	PRESS.	PSIA	TEMP.	DEG.F.	DEL.T.	(MINUTES)	LOG DEL.T	DEL.P	LOG DEL.P
											PSIA	
12.59.	0			3790.96								
13.0.	0			3790.13								
13.1.	0			3789.34								
13.2.	0			3788.53								
13.3.	0			3787.74		171.9						
13.4.	0			3786.93								
13.5.	0			3786.16								
13.6.	0			3785.36								
13.7.	0			3784.59								
13.8.	0			3783.81								
13.9.	0			3783.06								
13.10.	0			3782.24								
13.12.	0			3780.71								
13.14.	0			3779.21		171.9						
13.16.	0			3777.76								
13.18.	0			3776.46								
13.20.	0			3774.99								
13.22.	0			3773.59								
13.24.	0			3772.14		172.0						
13.26.	0			3770.90								
13.28.	0			3769.49								
13.30.	0			3768.21								
13.32.	0			3767.18								
13.34.	0			3765.48		172.0						
13.36.	0			3764.50								
13.38.	0			3762.96								
13.40.	0			3762.16								
13.42.	0			3760.85								
13.44.	0			3759.13		172.2						
13.46.	0			3758.38								
13.48.	0			3756.61								
13.50.	0			3755.86								
13.52.	0			3754.15								
13.54.	0			3753.35		172.2						
13.56.	0			3752.21								
13.58.	0			3750.59								
14.0.	0			3749.46								
14.2.	0			3748.35								
14.4.	0			3747.48		172.2						
14.6.	0			3746.12								
14.8.	0			3745.23								
14.10.	0			3743.99								

FLARE UNIT PRESSURE & TEMPERATURE CALCULATIONS

SECTION
PAGE 17

TIME PRESS. TEMP. DEL.T' LOG DEL.T' DEL.P LOG DEL.P
HR.MN.SS PSIA DEG.F (MINUTES) PSIA

14.12.0	3742.81				
14.14.0	3742.43	172.2			
14.16.0	3741.33				
14.18.0	3739.70				
14.20.0	3739.12				
14.22.0	3738.30				
14.24.0	3736.60	172.4			
14.26.0	3735.61				
14.28.0	3735.42				
14.30.0	3733.62				
14.32.0	3732.67				
14.34.0	3732.87	172.4			
14.36.0	3730.73				
14.38.0	3729.81				
14.40.0	3730.32				
14.42.0	3728.66				
14.44.0	3727.02	172.4			
14.46.0	3718.19				
14.48.0	3724.89				
14.50.0	3724.02				
14.52.0	3727.16				
14.54.0	3726.81	172.4			
14.56.0	3726.01				
14.58.0	3720.09				
15.0.0	3718.86				
15.2.0	3717.69				
15.4.0	3716.55	172.6			
15.6.0	3715.46				
15.8.0	3714.42				
15.10.0	3713.37				
15.12.0	3712.33				
15.13.0	3711.84				
15.14.0	3711.32	172.6			
15.15.0	3710.82				
15.16.0	3710.31				
15.17.0	3709.81				
15.18.0	3709.35				
15.19.0	3708.84				
15.20.0	3708.32				
15.21.0	3707.76				
15.22.0	3707.25				
15.23.0	3525.16	172.6	0.00	182.09	2.2603
			1.00	0.0000	

WELL OPENED
15.22.0
SHUT IN PRES.
3707.25

Opened well on 24/64" adj.

PRESSURE & TEMPERATURE CALCULATIONS SEC. 18 PAGE 18 REMARKS

TIME	HR.	MIN.	SS	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P
				PSIA	DEG.F	(MINUTES)		PSIA	
15.24.	0	50	0	3550.56		12.00	0.3010	156.69	2.1950
15.25.	0	50	0	3523.16		13.00	0.4771	184.09	2.2650
15.26.	0	50	0	3505.22		4.00	0.6021	202.03	2.3054
15.27.	0	50	0	3427.08		5.00	0.6990	280.17	2.4474
15.28.	0	50	0	3439.55		6.00	0.7782	267.70	2.4276
15.29.	0	50	0	3447.33		7.00	0.8451	259.92	2.4148
15.30.	0	50	0	3457.60		8.00	0.9031	249.65	2.3973 ✓
15.31.	0	50	0	3462.92		9.00	0.9542	244.33	2.3880
15.32.	0	50	0	3463.01		10.00	1.0000	244.24	2.3878
15.33.	0	50	0	3457.05	-172.8	11.00	1.0414	250.20	2.3983
15.34.	0	50	0	3451.90		12.00	1.0792	255.35	2.4071
15.35.	0	50	0	3444.19		13.00	1.1139	263.06	2.4201
15.36.	0	50	0	3431.47		14.00	1.1461	275.78	2.4406
15.37.	0	50	0	3443.35		15.00	1.1761	263.90	2.4214
15.38.	0	50	0	3436.94		16.00	1.2041	270.31	2.4319
15.39.	0	50	0	3437.03		17.00	1.2304	270.22	2.4317
15.40.	0	50	0	3435.13		18.00	1.2553	272.12	2.4348
15.41.	0	50	0	3416.43		19.00	1.2788	290.82	2.4636
15.42.	0	50	0	3420.90		20.00	1.3010	286.35	2.4569
15.43.	0	50	0	3420.88	174.6	21.00	1.3222	286.37	2.4569
15.44.	0	50	0	3419.39		22.00	1.3424	286.86	2.4592
15.45.	0	50	0	3417.83		23.00	1.3617	286.42	2.4615
15.46.	0	50	0	3420.35		24.00	1.3802	286.90	2.4577
15.47.	0	50	0	3438.87		25.00	1.3979	268.38	2.4288
15.48.	0	50	0	3427.21		26.00	1.4150	280.04	2.4472
15.49.	0	50	0	3411.57		27.00	1.4314	295.68	2.4708
15.50.	0	50	0	3409.35		28.00	1.4472	297.90	2.4741
15.51.	0	50	0	3406.93		29.00	1.4624	300.32	2.4776
15.52.	0	50	0	3404.48		30.00	1.4771	302.77	2.4811
15.53.	0	50	0	3402.72	176.9	31.00	1.4914	304.53	2.4836
15.54.	0	50	0	3400.96		32.00	1.5051	306.29	2.4861
15.55.	0	50	0	3400.59		33.00	1.5185	306.66	2.4867
15.56.	0	50	0	3401.28		34.00	1.5315	305.97	2.4857
15.57.	0	50	0	3402.61		35.00	1.5441	304.64	2.4838
15.58.	0	50	0	3386.68		36.00	1.5563	320.57	2.5059 ✓
15.59.	0	50	0	3386.27		37.00	1.5682	320.98	2.5065
16.00.	0	50	0	3384.03		38.00	1.5798	323.22	2.5095
16.01.	0	50	0	3384.91		39.00	1.5911	322.34	2.5083
16.02.	0	50	0	3372.20		40.00	1.6021	335.05	2.5251
16.03.	0	50	0	3371.61	178.5	41.00	1.6128	335.44	2.5256
16.04.	0	50	0	3368.51		42.00	1.6232	338.74	2.5299
16.05.	0	50	0	3374.88		43.00	1.6335	332.37	2.5216

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Increased choke to 48/64" adj.

choked to 32/64" adj.

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR. MIN. SS	PRESS. PSIA	TEMP. DEG. F.	DEL. T. (MINUTES)	LOG DEL. T.	DEL. P. PSIA	LOG DEL. P.
	16. 6. 0	3385.65		44.00	1.6435	321.40	2.5070
	16. 7. 0	3379.70		45.00	1.6532	327.55	2.5153
	16. 8. 0	3380.45		46.00	1.6628	326.80	2.5143
	16. 9. 0	3381.37		47.00	1.6721	325.88	2.5131
	16.10. 0	3383.04		48.00	1.6812	324.21	2.5108
	16.11. 0	3383.34		49.00	1.6902	323.91	2.5104
	16.12. 0	3383.16		50.00	1.6990	324.09	2.5107
	16.13. 0	3387.87	180.0	51.00	1.7076	319.38	2.5043
	16.14. 0	3389.73		52.00	1.7160	317.52	2.5018
	16.15. 0	3391.01		53.00	1.7243	316.24	2.5000
	16.16. 0	3392.00		54.00	1.7324	315.25	2.4987
	16.17. 0	3393.59		55.00	1.7404	313.66	2.4965
	16.18. 0	3394.83		56.00	1.7482	312.42	2.4947
	16.19. 0	3395.49		57.00	1.7559	311.76	2.4938
	16.20. 0	3397.35		58.00	1.7634	309.90	2.4912
	16.21. 0	3398.36		59.00	1.7709	308.89	2.4898
	16.22. 0	3399.37		60.00	1.7782	307.88	2.4884
	16.23. 0	3399.63	181.8	61.00	1.7853	307.62	2.4880
	16.24. 0	3399.27		62.00	1.7924	307.98	2.4885
	16.25. 0	3399.99		63.00	1.7993	307.26	2.4875
	16.26. 0	3400.18		64.00	1.8062	307.07	2.4872
	16.27. 0	3400.78		65.00	1.8129	306.47	2.4864
	16.28. 0	3401.40		66.00	1.8195	305.85	2.4855
	16.29. 0	3401.01		67.00	1.8261	306.24	2.4861
	16.30. 0	3401.67		68.00	1.8325	305.58	2.4851
	16.31. 0	3402.15		69.00	1.8388	305.10	2.4844
	16.32. 0	3402.50		70.00	1.8451	304.75	2.4839
	16.33. 0	3403.10	183.4	71.00	1.8513	304.15	2.4831
	16.34. 0	3402.05		72.00	1.8573	305.20	2.4846
	16.35. 0	3403.79		73.00	1.8633	303.46	2.4821
	16.36. 0	3404.07		74.00	1.8692	303.18	2.4817
	16.37. 0	3404.57		75.00	1.8751	302.68	2.4810
	16.38. 0	3404.84		76.00	1.8808	302.41	2.4806
	16.39. 0	3404.82		77.00	1.8865	302.43	2.4806
	16.40. 0	3404.75		78.00	1.8921	302.50	2.4807
	16.41. 0	3404.83		79.00	1.8976	302.42	2.4806
	16.42. 0	3404.94		80.00	1.9031	302.31	2.4805
	16.43. 0	3405.19	184.8	81.00	1.9085	302.06	2.4801
	16.44. 0	3405.07		82.00	1.9138	302.18	2.4803
	16.45. 0	3405.05		83.00	1.9191	302.20	2.4803
	16.46. 0	3405.13		84.00	1.9243	302.12	2.4802
	16.47. 0	3405.02		85.00	1.9294	302.23	2.4803

REMARKS

SECTION 20 PAGE 20 REMARKS PSIOMETRIC PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P
16.48.	0	3404.80		86.00	1.9345	302.45	2.4807
16.49.	0	3404.57		87.00	1.9395	302.68	2.4810
16.50.	0	3405.00		88.00	1.9445	302.25	2.4804
16.51.	0	3405.02		89.00	1.9494	302.23	2.4803
16.52.	0	3405.54		90.00	1.9542	301.71	2.4796
16.53.	0	3406.28	186.1	91.00	1.9590	300.97	2.4785
16.54.	0	3406.37		92.00	1.9638	300.88	2.4784
16.55.	0	3406.04		93.00	1.9685	301.21	2.4789
16.56.	0	3405.94		94.00	1.9731	301.31	2.4790
16.57.	0	3405.70		95.00	1.9777	301.55	2.4794
16.58.	0	3405.56		96.00	1.9823	301.69	2.4796
16.59.	0	3405.63		97.00	1.9868	301.62	2.4795
17. 0.	0	3405.30		98.00	1.9912	301.95	2.4799
17. 1.	0	3405.03		99.00	1.9956	302.22	2.4803
17. 2.	0	3405.14		100.00	2.0000	302.11	2.4802
17. 3.	0	3405.47	187.2	101.00	2.0043	301.78	2.4797
17. 4.	0	3405.70		102.00	2.0086	301.55	2.4794
17. 5.	0	3406.08		103.00	2.0128	301.17	2.4788
17. 6.	0	3405.98		104.00	2.0170	301.27	2.4790
17. 7.	0	3405.54		105.00	2.0212	301.71	2.4796
17. 8.	0	3405.76		106.00	2.0253	301.49	2.4793
17. 9.	0	3403.46		107.00	2.0294	303.79	2.4826
17.10.	0	3404.18		108.00	2.0334	303.07	2.4815
17.11.	0	3404.58		109.00	2.0374	302.67	2.4810
17.12.	0	3404.82		110.00	2.0414	302.43	2.4806
17.13.	0	3405.25	187.9	111.00	2.0453	302.00	2.4800
17.14.	0	3405.46		112.00	2.0492	301.79	2.4797
17.15.	0	3405.75		113.00	2.0531	301.50	2.4793
17.16.	0	3406.18		114.00	2.0569	301.07	2.4787
17.17.	0	3406.25		115.00	2.0607	301.00	2.4786
17.18.	0	3406.18		116.00	2.0645	301.07	2.4787
17.19.	0	3406.22		117.00	2.0682	301.03	2.4786
17.20.	0	3406.43		118.00	2.0719	300.82	2.4783
17.22.	0	3406.55		120.00	2.0792	300.70	2.4781
17.24.	0	3406.87	188.6	122.00	2.0864	300.38	2.4777
17.26.	0	3407.46		124.00	2.0934	299.79	2.4768
17.28.	0	3407.53		126.00	2.1004	299.72	2.4767
17.30.	0	3407.50		128.00	2.1072	299.75	2.4768
17.32.	0	3407.70		130.00	2.1139	299.55	2.4765
17.34.	0	3407.80	189.3	132.00	2.1206	299.45	2.4763
17.36.	0	3408.05		134.00	2.1271	299.20	2.4760
17.38.	0	3408.22		136.00	2.1335	299.03	2.4757

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T. (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
17.40.	0	3408.88		138.00	2.1399	298.37	2.4748	
17.42.	0	3409.93		140.00	2.1461	297.32	2.4732	
17.44.	0	3410.70	189.9	142.00	2.1523	296.55	2.4721	
17.46.	0	3410.89		144.00	2.1584	296.36	2.4718	
17.48.	0	3411.07		146.00	2.1644	296.18	2.4716	
17.50.	0	3411.12		148.00	2.1703	296.13	2.4715	
17.52.	0	3411.47		150.00	2.1761	295.78	2.4710	
17.54.	0	3411.75	190.4	152.00	2.1818	295.50	2.4706	
17.56.	0	3412.26		154.00	2.1875	294.99	2.4698	
17.58.	0	3412.54		156.00	2.1931	294.71	2.4694	
18. 0.	0	3412.74		158.00	2.1987	294.51	2.4691	
18. 2.	0	3413.41		160.00	2.2041	293.84	2.4681	
18. 4.	0	3413.71	190.8	162.00	2.2095	293.54	2.4677	
18. 6.	0	3414.30		164.00	2.2148	292.95	2.4668	
18. 8.	0	3414.73		166.00	2.2201	292.52	2.4662	
18.10.	0	3414.93		168.00	2.2253	292.32	2.4659	
18.12.	0	3415.07		170.00	2.2304	292.18	2.4657	
18.14.	0	3415.04	191.3	172.00	2.2355	292.21	2.4657	
18.16.	0	3415.88		174.00	2.2405	291.37	2.4644	
18.18.	0	3416.11		176.00	2.2455	291.14	2.4641	
18.20.	0	3416.38		178.00	2.2504	290.87	2.4637	
18.22.	0	3416.34		180.00	2.2553	290.91	2.4638	
18.24.	0	3416.55	191.5	182.00	2.2601	290.70	2.4634	
18.26.	0	3416.58		184.00	2.2648	290.67	2.4634	
18.28.	0	3416.31		186.00	2.2695	290.94	2.4638	
18.30.	0	3416.28		188.00	2.2742	290.97	2.4638	
18.32.	0	3417.23		190.00	2.2788	290.02	2.4624	
18.34.	0	3417.11	191.8	192.00	2.2833	290.14	2.4626	
18.36.	0	3417.12		194.00	2.2878	290.13	2.4626	
18.38.	0	3417.04		196.00	2.2923	290.21	2.4627	
18.40.	0	3417.16		198.00	2.2967	290.09	2.4625	
18.42.	0	3417.38		200.00	2.3010	289.87	2.4622	
18.44.	0	3417.52	192.2	202.00	2.3054	289.73	2.4620	
18.46.	0	3417.78		204.00	2.3096	289.47	2.4616	
18.48.	0	3418.54		206.00	2.3139	288.71	2.4605	
18.50.	0	3418.61		208.00	2.3181	288.64	2.4604	
18.52.	0	3419.01		210.00	2.3222	288.24	2.4598	
18.54.	0	3418.68	192.6	212.00	2.3263	288.57	2.4603	
18.56.	0	3418.85		214.00	2.3304	288.40	2.4600	
18.58.	0	3418.97		216.00	2.3345	288.28	2.4598	
19. 0.	0	3419.29		218.00	2.3385	287.96	2.4593	
19. 2.	0	3419.50		220.00	2.3424	287.75	2.4590	

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SECTION
PAGE

LOG DEL.P

DEL.P

LOG DEL.T

DEL.T

TEMP.

PRESS.

TIME

PSIA

(MINUTES)

PSIA

HR.MN.SS

19. 4. 0	3419.45	192.9	222.00	2.3464	287.80	2.4591
19. 6. 0	3419.55	192.9	224.00	2.3502	287.70	2.4589
19. 8. 0	3419.69	192.9	226.00	2.3541	287.56	2.4587
19.10. 0	3419.83	192.9	228.00	2.3579	287.42	2.4585
19.12. 0	3419.99	193.1	230.00	2.3617	287.26	2.4583
19.14. 0	3420.31	193.1	232.00	2.3655	286.94	2.4578
19.16. 0	3420.58	193.1	234.00	2.3692	286.67	2.4574
19.18. 0	3420.51	193.1	236.00	2.3729	286.74	2.4575
19.20. 0	3420.73	193.1	238.00	2.3766	286.52	2.4572
19.22. 0	3420.96	193.1	240.00	2.3802	286.29	2.4568
19.24. 0	3420.91	193.3	242.00	2.3838	286.34	2.4569
19.26. 0	3421.09	193.3	244.00	2.3874	286.16	2.4566
19.28. 0	3421.33	193.3	246.00	2.3909	285.92	2.4562
19.30. 0	3421.29	193.3	248.00	2.3945	285.96	2.4563
19.32. 0	3421.28	193.3	250.00	2.3979	285.97	2.4563
19.34. 0	3421.82	193.5	252.00	2.4014	285.43	2.4555
19.36. 0	3422.18	193.5	254.00	2.4048	285.07	2.4550
19.38. 0	3421.68	193.5	256.00	2.4082	285.57	2.4557
19.40. 0	3421.74	193.5	258.00	2.4116	285.51	2.4556
19.42. 0	3421.80	193.5	260.00	2.4150	285.45	2.4555
19.44. 0	3422.14	193.6	262.00	2.4183	285.11	2.4550
19.46. 0	3422.30	193.6	264.00	2.4216	284.95	2.4548
19.48. 0	3422.48	193.6	266.00	2.4249	284.77	2.4545
19.50. 0	3422.56	194.0	268.00	2.4281	284.69	2.4544
19.55. 0	3422.84	194.0	273.00	2.4362	284.41	2.4539
20. 0. 0	3423.47	194.0	278.00	2.4440	283.78	2.4530
20. 5. 0	3423.72	194.0	283.00	2.4518	283.53	2.4526
20.10. 0	3424.64	194.2	288.00	2.4594	282.61	2.4512
20.15. 0	3425.07	194.2	293.00	2.4669	282.18	2.4505
20.20. 0	3424.62	194.4	298.00	2.4742	282.63	2.4512
20.25. 0	3424.97	194.4	303.00	2.4814	282.28	2.4507
20.30. 0	3425.53	194.5	308.00	2.4886	281.72	2.4498
20.35. 0	3426.38	194.5	313.00	2.4958	280.87	2.4485
20.40. 0	3425.38	194.7	318.00	2.5024	281.87	2.4500
20.45. 0	3425.62	194.7	323.00	2.5092	281.63	2.4497
20.50. 0	3425.87	194.7	328.00	2.5159	281.38	2.4493
20.55. 0	3426.30	194.7	333.00	2.5224	280.95	2.4486
21. 0. 0	3427.05	194.9	338.00	2.5289	280.20	2.4475
21. 5. 0	3426.55	195.1	343.00	2.5353	280.70	2.4482
21.10. 0	3427.15	195.1	348.00	2.5416	280.10	2.4473
21.15. 0	3427.28	195.1	353.00	2.5478	279.97	2.4471
21.20. 0	3427.25	195.1	358.00	2.5539	280.00	2.4472

dec 1981

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.MN.SS	PRESS.	TEMP.	DEL.T.	LOG DEL.T	DEL.P	LOG DEL.P	REMARKS
		PSIA	DEG.F	(MINUTES)		PSIA		
	21.25.0	3427.98	195.3	363.00	2.5599	279.27	2.4460	
	21.30.0	3428.09	195.3	368.00	2.5658	279.16	2.4459	
	21.35.0	3427.73	195.3	373.00	2.5717	279.52	2.4464	
	21.40.0	3426.85		378.00	2.5775	280.40	2.4478	
	21.45.0	3427.49	195.4	383.00	2.5832	279.76	2.4468	
	21.50.0	3427.86		388.00	2.5888	279.39	2.4462	
	21.55.0	3427.97	195.4	393.00	2.5944	279.28	2.4460	
	22.0.0	3428.13		398.00	2.5999	279.12	2.4458	
	22.5.0	3428.11	195.4	403.00	2.6053	279.14	2.4458	
	22.10.0	3428.17		408.00	2.6107	279.08	2.4457	
	22.15.0	3429.29	195.6	413.00	2.6160	277.96	2.4440	
	22.20.0	3429.26		418.00	2.6212	277.99	2.4440	
	22.25.0	3429.31	195.8	423.00	2.6263	277.94	2.4440	
	22.30.0	3429.60		428.00	2.6314	277.65	2.4435	
	22.35.0	3429.30	195.8	433.00	2.6365	277.95	2.4440	
	22.40.0	3427.64		438.00	2.6415	279.61	2.4466	
	22.45.0	3428.42	196.0	443.00	2.6464	278.83	2.4453	
	22.50.0	3428.73		448.00	2.6513	278.52	2.4449	
	22.55.0	3428.87	196.0	453.00	2.6561	278.38	2.4446	
	23.0.0	3429.02		458.00	2.6609	278.23	2.4444	
	23.5.0	3428.94	196.0	463.00	2.6656	278.31	2.4445	
	23.10.0	3428.99		468.00	2.6702	278.26	2.4445	
	23.15.0	3429.19	196.2	473.00	2.6749	278.06	2.4441	
	23.20.0	3429.34		478.00	2.6794	277.91	2.4439	
	23.25.0	3429.38	196.3	483.00	2.6839	277.87	2.4438	
	23.30.0	3429.57		488.00	2.6884	277.68	2.4435	
	23.35.0	3429.76	196.3	493.00	2.6928	277.49	2.4432	
	23.40.0	3429.81		498.00	2.6972	277.44	2.4432	
	23.45.0	3429.82	196.3	503.00	2.7016	277.43	2.4432	
	23.50.0	3429.85		508.00	2.7059	277.40	2.4431	
	23.55.0	3429.95	196.5	513.00	2.7101	277.30	2.4429	
	24.0.0	3430.06		518.00	2.7143	277.19	2.4428	
	24.0.0	3430.06		518.00	2.7143	277.19	2.4428	
	24.0.5	3430.17	196.5	523.00	2.7185	277.08	2.4426	
	0.10.0	3430.22		528.00	2.7226	277.03	2.4425	
	0.15.0	3430.21	196.5	533.00	2.7267	277.04	2.4425	
	0.20.0	3430.44		538.00	2.7308	276.81	2.4422	
	0.25.0	3430.63	196.7	543.00	2.7348	276.62	2.4419	
	0.30.0	3430.73		548.00	2.7388	276.52	2.4417	
	0.35.0	3430.90	196.7	553.00	2.7427	276.35	2.4415	
	0.40.0	3431.02		558.00	2.7466	276.23	2.4413	
	0.45.0	3431.08	196.9	563.00	2.7505	276.17	2.4412	

PRESSURE & TEMPERATURE CALCULATIONS

TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	REMARKS
0.50. 0	3431.18		568.00	2.7543	276.07	2.4410	
0.55. 0	3431.23	196.9	573.00	2.7582	276.02	2.4409	
1. 0. 0	3431.34		578.00	2.7619	275.91	2.4408	
1. 5. 0	3431.41	196.9	583.00	2.7657	275.84	2.4407	
1.10. 0	3431.41		588.00	2.7694	275.84	2.4407	
1.15. 0	3431.43	196.9	593.00	2.7731	275.82	2.4406	
1.20. 0	3431.52		598.00	2.7767	275.73	2.4405	
1.25. 0	3431.42	197.1	603.00	2.7803	275.83	2.4406	
1.30. 0	3431.59		608.00	2.7839	275.66	2.4404	
1.35. 0	3431.74	197.1	613.00	2.7875	275.51	2.4401	
1.40. 0	3431.69		618.00	2.7910	275.56	2.4402	
1.45. 0	3431.91	197.1	623.00	2.7945	275.34	2.4399	
1.50. 0	3431.79		628.00	2.7980	275.46	2.4401	
1.55. 0	3431.76	197.1	633.00	2.8014	275.49	2.4401	
2. 0. 0	3432.01		638.00	2.8048	275.24	2.4397	
2. 5. 0	3432.03	197.2	643.00	2.8082	275.22	2.4397	
2.10. 0	3432.14		648.00	2.8116	275.11	2.4395	
2.15. 0	3432.12	197.2	653.00	2.8149	275.13	2.4395	
2.20. 0	3432.27		658.00	2.8182	274.98	2.4393	
2.25. 0	3432.13	197.4	663.00	2.8215	274.12	2.4395	
2.30. 0	3432.30		668.00	2.8248	274.95	2.4393	
2.35. 0	3432.39	197.4	673.00	2.8280	274.86	2.4391	
2.40. 0	3432.54		678.00	2.8312	274.71	2.4389	
2.45. 0	3432.40	197.4	683.00	2.8344	274.85	2.4391	
2.50. 0	3432.44		688.00	2.8376	274.81	2.4390	
2.55. 0	3432.51	197.4	693.00	2.8407	274.74	2.4389	
3. 0. 0	3432.68		698.00	2.8439	274.57	2.4387	
3. 5. 0	3432.72	197.6	703.00	2.8470	274.53	2.4386	
3.10. 0	3432.74		708.00	2.8500	274.51	2.4386	
3.15. 0	3432.80	197.6	713.00	2.8531	274.45	2.4385	
3.20. 0	3432.93		718.00	2.8561	274.32	2.4383	
3.25. 0	3432.94	197.6	723.00	2.8591	274.31	2.4382	
3.30. 0	3433.03		728.00	2.8621	274.22	2.4381	
3.35. 0	3433.13	197.6	733.00	2.8651	274.12	2.4379	
3.40. 0	3433.09		738.00	2.8681	274.16	2.4380	
3.45. 0	3433.11	197.6	743.00	2.8710	274.14	2.4380	
3.50. 0	3433.09		748.00	2.8739	274.16	2.4380	
3.55. 0	3433.28	197.6	753.00	2.8768	273.97	2.4377	
4. 0. 0	3433.48		758.00	2.8797	273.77	2.4374	
4. 5. 0	3433.54	197.8	763.00	2.8825	273.71	2.4373	
4.10. 0	3433.54		768.00	2.8854	273.71	2.4373	
4.15. 0	3433.59	197.8	773.00	2.8882	273.66	2.4372	

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.NN.SS	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P
		PSIA	DEG.F	(MINUTES)		PSIA	
4.20.	0	3433.63	198.0	778.00	2.8910	273.62	2.4371
4.25.	0	3433.62	198.0	783.00	2.8938	273.63	2.4372
4.30.	0	3433.70	198.0	788.00	2.8965	273.55	2.4370
4.35.	0	3433.76	198.0	793.00	2.8993	273.49	2.4369
4.40.	0	3433.82	198.0	798.00	2.9020	273.43	2.4368
4.45.	0	3433.83	198.0	803.00	2.9047	273.42	2.4368
4.50.	0	3433.90	198.0	808.00	2.9074	273.35	2.4367
4.55.	0	3434.00	198.0	813.00	2.9101	273.25	2.4366
5.0.	0	3434.00	198.0	818.00	2.9128	273.25	2.4366
5.5.	0	3434.02	198.0	823.00	2.9154	273.23	2.4365
5.10.	0	3434.08	198.0	828.00	2.9180	273.17	2.4364
5.15.	0	3434.13	198.0	833.00	2.9206	273.12	2.4364
5.20.	0	3434.11	198.0	838.00	2.9232	273.14	2.4364
5.25.	0	3434.22	198.0	843.00	2.9258	273.03	2.4362
5.30.	0	3434.12	198.1	848.00	2.9284	273.13	2.4364
5.35.	0	3434.08	198.1	853.00	2.9309	273.17	2.4364
5.40.	0	3434.14	198.1	858.00	2.9335	273.11	2.4363
5.45.	0	3434.14	198.1	863.00	2.9360	273.11	2.4363
5.50.	0	3434.27	198.1	868.00	2.9385	272.98	2.4361
5.55.	0	3434.21	198.1	873.00	2.9410	273.04	2.4362
6.0.	0	3434.30	198.1	878.00	2.9435	272.95	2.4361
6.5.	0	3434.34	198.1	883.00	2.9460	272.91	2.4360
6.10.	0	3434.38	198.1	888.00	2.9484	272.87	2.4360
6.15.	0	3434.41	198.1	893.00	2.9509	272.84	2.4359
6.20.	0	3434.49	198.1	898.00	2.9533	272.76	2.4358
6.25.	0	3434.53	198.1	903.00	2.9557	272.72	2.4357
6.30.	0	3434.61	198.1	908.00	2.9581	272.64	2.4356
6.35.	0	3434.62	198.1	913.00	2.9605	272.63	2.4356
6.40.	0	3434.69	198.3	918.00	2.9628	272.56	2.4355
6.45.	0	3434.69	198.3	923.00	2.9652	272.56	2.4355
6.50.	0	3434.81	198.3	928.00	2.9675	272.44	2.4353
6.55.	0	3434.79	198.3	933.00	2.9699	272.46	2.4353
7.0.	0	3434.85	198.3	938.00	2.9722	272.40	2.4352
7.5.	0	3434.80	198.3	943.00	2.9745	272.45	2.4353
7.10.	0	3434.93	198.3	948.00	2.9768	272.32	2.4351
7.15.	0	3434.93	198.3	953.00	2.9791	272.32	2.4351
7.20.	0	3435.01	198.3	958.00	2.9814	272.24	2.4350
7.25.	0	3435.01	198.3	963.00	2.9836	272.24	2.4350
7.30.	0	3435.03	198.3	968.00	2.9859	272.22	2.4349
7.35.	0	3434.97	198.3	973.00	2.9881	272.28	2.4350
7.40.	0	3435.01	198.3	978.00	2.9903	272.24	2.4350
7.45.	0	3435.02	198.3	983.00	2.9926	272.23	2.4349

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REMARKS

LOG DEL.P LOG T-DEL.T
DEL.T

DEL.P
PSIA

LOG DEL.T

DEL.T
(MINUTES)

TEMP.
DEG.F

PRESS.
PSIA

TIME
HR.MN.SS

7.50.0	3435.15	198.5	988.00	2.9948	272.10	2.4347	3.0022
7.55.0	3435.19	198.5	993.00	2.9969	272.06	2.4347	2.7016
7.56.0	3435.21		994.00	2.9974	272.04	2.4346	2.5259
7.57.0	3435.19		995.00	2.9978	272.06	2.4347	2.4014
7.58.0	3435.21		996.00	2.9983	272.04	2.4346	2.3049
7.59.0	3435.22		997.00	2.9987	272.03	2.4346	2.2262
8.0.0	3435.26		998.00	2.9991	271.99	2.4346	2.1597
8.1.0	3435.30		999.00	2.9996	271.95	2.4345	2.1021
8.2.0	3435.34		1000.00	3.0000	271.91	2.4344	2.0514
8.3.0	3435.38	198.5	1001.00	3.0004	271.87	2.4344	2.0060
8.4.0	3434.82		1002.00	3.0009	272.43	2.4353	1.9651
8.5.0	3434.75		1003.00	3.0013	272.50	2.4354	1.9277
8.6.0	3434.86		1004.00	3.0017	272.39	2.4352	1.8934
8.7.0	3435.06		0.00				1.8616
8.8.0	3451.16		1.00	0.0000	16.10	1.2068	1.8321
8.9.0	3484.41		2.00	0.3010	49.35	1.6933	1.8045
8.10.0	3508.45		3.00	0.4771	73.39	1.8656	1.7786
8.11.0	3516.58		4.00	0.6021	81.52	1.9113	1.7542
8.12.0	3517.77		5.00	0.6990	82.71	1.9176	1.7311
8.13.0	3518.24	198.7	6.00	0.7782	83.18	1.9200	1.7093
8.14.0	3518.54		7.00	0.8451	83.48	1.9216	1.6885
8.15.0	3518.73		8.00	0.9031	83.67	1.9226	1.6687
8.16.0	3518.90		9.00	0.9542	83.84	1.9235	1.6498
8.17.0	3519.02		10.00	1.0000	83.96	1.9241	1.6318
8.18.0	3519.11		11.00	1.0414	84.05	1.9245	1.6145
8.19.0	3519.20		12.00	1.0792	84.14	1.9250	1.5979
8.20.0	3519.29		13.00	1.1139	84.23	1.9255	1.5819
8.21.0	3519.37		14.00	1.1461	84.31	1.9259	1.5665
8.22.0	3519.42		15.00	1.1761	84.36	1.9261	
8.23.0	3519.47	198.9	16.00	1.2041	84.41	1.9264	
8.24.0	3519.50		17.00	1.2304	84.44	1.9265	
8.25.0	3519.51		18.00	1.2553	84.45	1.9266	
8.26.0	3519.55		19.00	1.2788	84.49	1.9268	
8.27.0	3519.56		20.00	1.3010	84.50	1.9269	
8.28.0	3519.59		21.00	1.3222	84.53	1.9270	
8.29.0	3519.60		22.00	1.3424	84.54	1.9271	
8.30.0	3519.64		23.00	1.3617	84.58	1.9273	
8.31.0	3519.69		24.00	1.3802	84.63	1.9275	
8.32.0	3519.68		25.00	1.3979	84.62	1.9275	
8.33.0	3519.71	198.7	26.00	1.4150	84.65	1.9276	
8.34.0	3519.78		27.00	1.4314	84.72	1.9280	
8.35.0	3519.79		28.00	1.4472	84.73	1.9280	

SHUT IN TIME
8.7.0

FLOWING PRES.
3435.06

FLOW TIME T
[HOURS]
16.44.0

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MN.	SS.	TEMP. DEG. F	DEL. T. (MINUTES)	LOG DEL. T.	DEL. P. PSIA	LOG DEL. P.	LOG T-DEL. T. DEL. T.	REMARKS
8.36	0	0	0	3519.83	29.00	1.4624	84.77	1.9282	1.5517	
8.37	0	0	0	3519.86	30.00	1.4771	84.80	1.9284	1.5374	
8.38	0	0	0	3519.86	31.00	1.4914	84.80	1.9284	1.5236	
8.39	0	0	0	3519.89	32.00	1.5051	84.83	1.9285	1.5102	
8.40	0	0	0	3519.94	33.00	1.5185	84.88	1.9288	1.4973	
8.41	0	0	0	3519.96	34.00	1.5315	84.90	1.9289	1.4847	
8.42	0	0	0	3519.97	35.00	1.5441	84.91	1.9290	1.4725	
8.43	0	0	0	3519.99	36.00	1.5563	84.93	1.9291	1.4607	
8.44	0	0	0	3519.98	37.00	1.5682	84.92	1.9290	1.4492	
8.45	0	0	0	3519.97	38.00	1.5798	84.91	1.9290	1.4381	
8.46	0	0	0	3519.98	39.00	1.5911	84.92	1.9290	1.4272	
8.47	0	0	0	3520.00	40.00	1.6021	84.94	1.9291	1.4166	
8.48	0	0	0	3520.03	41.00	1.6128	84.97	1.9293	1.4063	
8.49	0	0	0	3520.05	42.00	1.6232	84.99	1.9294	1.3963	
8.50	0	0	0	3520.08	43.00	1.6335	85.02	1.9295	1.3865	
8.51	0	0	0	3520.09	44.00	1.6435	85.03	1.9296	1.3769	
8.52	0	0	0	3520.10	45.00	1.6532	85.04	1.9296	1.3676	
8.53	0	0	0	3520.10	46.00	1.6628	85.04	1.9296	1.3584	
8.54	0	0	0	3520.12	47.00	1.6721	85.06	1.9297	1.3495	
8.55	0	0	0	3520.14	48.00	1.6812	85.08	1.9298	1.3408	
8.56	0	0	0	3520.14	49.00	1.6902	85.08	1.9298	1.3322	
8.57	0	0	0	3520.14	50.00	1.6990	85.08	1.9298	1.3239	
8.58	0	0	0	3520.16	51.00	1.7076	85.10	1.9299	1.3157	
8.59	0	0	0	3520.17	52.00	1.7160	85.11	1.9300	1.3077	
9. 0	0	0	0	3520.19	53.00	1.7243	85.13	1.9301	1.2998	
9. 1	0	0	0	3520.19	54.00	1.7324	85.13	1.9301	1.2921	
9. 2	0	0	0	3520.19	55.00	1.7404	85.13	1.9301	1.2845	
9. 3	0	0	0	3520.21	56.00	1.7482	85.15	1.9302	1.2771	
9. 4	0	0	0	3520.21	57.00	1.7559	85.15	1.9302	1.2698	
9. 5	0	0	0	3520.24	58.00	1.7634	85.18	1.9303	1.2627	
9. 6	0	0	0	3520.27	59.00	1.7709	85.21	1.9305	1.2557	
9. 7	0	0	0	3520.28	60.00	1.7782	85.22	1.9305	1.2488	
9. 8	0	0	0	3520.28	61.00	1.7853	85.22	1.9305	1.2420	
9. 9	0	0	0	3520.29	62.00	1.7924	85.23	1.9306	1.2354	
9.10	0	0	0	3520.30	63.00	1.7993	85.24	1.9306	1.2288	
9.11	0	0	0	3520.31	64.00	1.8062	85.25	1.9307	1.2224	
9.12	0	0	0	3520.31	65.00	1.8129	85.25	1.9307	1.2161	
9.13	0	0	0	3520.32	66.00	1.8195	85.26	1.9307	1.2098	
9.14	0	0	0	3520.35	67.00	1.8261	85.29	1.9309	1.2037	
9.15	0	0	0	3520.35	68.00	1.8325	85.29	1.9309	1.1977	
9.16	0	0	0	3520.36	69.00	1.8388	85.30	1.9309	1.1918	
9.17	0	0	0	3520.37	70.00	1.8451	85.31	1.9310	1.1859	

FLUORINOL PRESSURE & TEMPERATURE CALCULATIONS

SECTION
PAGE 28

TIME	HR.	MIN.	SS.	PRESS.	TEMP.	DEL. T.	LOG DEL. T.	DEL. P.	LOG DEL. P.	LOG T+DEL. T.	REMARKS
				PSIA	DEG. F.	(MINUTES)		PSIA	DEL. T.		
9.18.	0			3520.38		71.00	1.8513	85.32	1.9311	1.1802	
9.19.	0			3520.38		72.00	1.8573	85.32	1.9311	1.1745	
9.20.	0			3520.39		73.00	1.8633	85.33	1.9311	1.1689	
9.21.	0			3520.40		74.00	1.8692	85.34	1.9312	1.1634	
9.22.	0			3520.43		75.00	1.8751	85.37	1.9313	1.1580	
9.23.	0			3520.43	196.3	76.00	1.8808	85.37	1.9313	1.1526	
9.24.	0			3520.44		77.00	1.8865	85.38	1.9314	1.1473	
9.25.	0			3520.45		78.00	1.8921	85.39	1.9314	1.1421	
9.26.	0			3520.46		79.00	1.8976	85.40	1.9315	1.1370	
9.27.	0			3520.45		80.00	1.9031	85.39	1.9314	1.1319	
9.28.	0			3520.47		81.00	1.9085	85.41	1.9315	1.1269	
9.29.	0			3520.48		82.00	1.9138	85.42	1.9316	1.1220	
9.30.	0			3520.47		83.00	1.9191	85.41	1.9315	1.1172	
9.31.	0			3520.48		84.00	1.9243	85.42	1.9316	1.1123	
9.32.	0			3520.49		85.00	1.9294	85.43	1.9316	1.1076	
9.33.	0			3520.51	195.8	86.00	1.9345	85.45	1.9317	1.1029	
9.34.	0			3520.50		87.00	1.9395	85.44	1.9317	1.0983	
9.35.	0			3520.51		88.00	1.9445	85.45	1.9317	1.0937	
9.36.	0			3520.52		89.00	1.9494	85.46	1.9318	1.0892	
9.37.	0			3520.53		90.00	1.9542	85.47	1.9318	1.0848	
9.38.	0			3520.53		91.00	1.9590	85.47	1.9318	1.0804	
9.39.	0			3520.52		92.00	1.9638	85.46	1.9318	1.0760	
9.40.	0			3520.55		93.00	1.9685	85.49	1.9319	1.0717	
9.41.	0			3520.56		94.00	1.9731	85.50	1.9320	1.0675	
9.42.	0			3520.57		95.00	1.9777	85.51	1.9320	1.0633	
9.43.	0			3520.55	195.3	96.00	1.9823	85.49	1.9319	1.0591	
9.44.	0			3520.57		97.00	1.9868	85.51	1.9320	1.0550	
9.45.	0			3520.58		98.00	1.9912	85.52	1.9321	1.0510	
9.46.	0			3520.58		99.00	1.9956	85.52	1.9321	1.0469	
9.47.	0			3520.59		100.00	2.0000	85.53	1.9321	1.0430	
9.48.	0			3520.61		101.00	2.0043	85.55	1.9322	1.0390	
9.49.	0			3520.60		102.00	2.0086	85.54	1.9322	1.0352	
9.50.	0			3520.62		103.00	2.0128	85.56	1.9323	1.0313	
9.51.	0			3520.61		104.00	2.0170	85.55	1.9322	1.0275	
9.52.	0			3520.62		105.00	2.0212	85.56	1.9323	1.0237	
9.53.	0			3520.62	194.7	106.00	2.0253	85.56	1.9323	1.0200	
9.54.	0			3520.63		107.00	2.0294	85.57	1.9323	1.0163	
9.55.	0			3520.65		108.00	2.0334	85.59	1.9324	1.0127	
9.56.	0			3520.64		109.00	2.0374	85.58	1.9324	1.0091	
9.57.	0			3520.64		110.00	2.0414	85.58	1.9324	1.0055	
9.58.	0			3520.65		111.00	2.0453	85.59	1.9324	1.0020	
9.59.	0			3520.67		112.00	2.0492	85.61	1.9325	0.9984	

FLIGHT PRO- PRESSURE & TEMPERATURE CALCULATIONS

SECTION
PAGE

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REMARKS

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA		DEL.T
10. 0. 0	3520.66		113.00	2.0531	85.60	1.9325	0.9950
10. 5. 0	3520.71	194.4	118.00	2.0719	85.65	1.9327	0.9781
10.10. 0	3520.75		123.00	2.0899	85.69	1.9329	0.9620
10.15. 0	3520.77	194.0	128.00	2.1072	85.71	1.9330	0.9466
10.20. 0	3520.74		133.00	2.1239	85.68	1.9329	0.9319
10.25. 0	3520.71	193.6	138.00	2.1399	85.65	1.9327	0.9178
10.30. 0	3520.74		143.00	2.1553	85.68	1.9329	0.9042
10.35. 0	3520.78	193.3	148.00	2.1703	85.72	1.9331	0.8912
10.40. 0	3520.81		153.00	2.1847	85.75	1.9332	0.8786
10.45. 0	3520.84	192.9	158.00	2.1987	85.78	1.9334	0.8665
10.50. 0	3520.85		163.00	2.2122	85.79	1.9334	0.8549
10.55. 0	3520.88	192.6	168.00	2.2253	85.82	1.9336	0.8436
11. 0. 0	3520.92		173.00	2.2380	85.86	1.9338	0.8327
11. 5. 0	3520.93	192.4	178.00	2.2504	85.87	1.9338	0.8222
11.10. 0	3520.96		183.00	2.2625	85.90	1.9340	0.8120
11.15. 0	3520.98	192.0	188.00	2.2742	85.92	1.9341	0.8021
11.20. 0	3520.98		193.00	2.2856	85.92	1.9341	0.7925
11.25. 0	3520.99	191.8	198.00	2.2967	85.93	1.9341	0.7832
11.30. 0	3520.99		203.00	2.3075	85.93	1.9341	0.7742
11.35. 0	3520.96	191.7	208.00	2.3181	85.90	1.9340	0.7654
11.40. 0	3520.91		213.00	2.3284	85.85	1.9337	0.7569
11.45. 0	3520.88	191.3	218.00	2.3385	85.82	1.9336	0.7486
11.50. 0	3520.86		223.00	2.3483	85.80	1.9335	0.7405
11.55. 0	3520.84	191.1	228.00	2.3579	85.78	1.9334	0.7327
12. 0. 0	3520.84		233.00	2.3674	85.78	1.9334	0.7250
12. 5. 0	3520.82	190.9	238.00	2.3766	85.76	1.9333	0.7175
12.10. 0	3520.80		243.00	2.3856	85.74	1.9332	0.7103
12.15. 0	3520.80	190.8	248.00	2.3945	85.74	1.9332	0.7032
12.20. 0	3520.78		253.00	2.4031	85.72	1.9331	0.6962
12.25. 0	3520.76	190.6	258.00	2.4116	85.70	1.9330	0.6894
12.30. 0	3520.76		263.00	2.4200	85.70	1.9330	0.6828
12.35. 0	3520.76	190.2	268.00	2.4281	85.70	1.9330	0.6764
12.40. 0	3520.74		273.00	2.4362	85.68	1.9329	0.6700
12.45. 0	3520.74	190.0	278.00	2.4440	85.68	1.9329	0.6638
12.50. 0	3520.73		283.00	2.4518	85.67	1.9328	0.6578
12.55. 0	3520.74	189.9	288.00	2.4594	85.68	1.9329	0.6519
13. 0. 0	3520.73		293.00	2.4669	85.67	1.9328	0.6461
13. 5. 0	3520.76	189.7	298.00	2.4742	85.70	1.9330	0.6404
13.10. 0	3520.77		303.00	2.4814	85.71	1.9330	0.6348
13.15. 0	3520.77	189.7	308.00	2.4886	85.71	1.9330	0.6294
13.20. 0	3520.77		313.00	2.4955	85.71	1.9330	0.6240
13.25. 0	3520.74	189.5	318.00	2.5024	85.68	1.9329	0.6188

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FLIGHT FROM [REDACTED] TO [REDACTED] PRESSURE & TEMPERATURE CALCULATIONS

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REMARKS

LOG DEL.P LOG T+DEL.T
DEL.T

DEL.P
PSIA

LOG DEL.T

DEL.T
(MINUTES)

TEMP.
DEG.F

PRESS.
PSIA

HR.MN.SS

13.30.0	3520.75	189.3	323.00	2.5092	85.69	1.9329	0.6137
13.40.0	3520.75	189.3	333.00	2.5224	85.69	1.9329	0.6037
13.50.0	3520.76	189.1	343.00	2.5353	85.70	1.9330	0.5941
14.00.0	3520.78	189.1	353.00	2.5478	85.72	1.9331	0.5848
14.10.0	3520.78	189.0	363.00	2.5599	85.72	1.9331	0.5759
14.20.0	3520.74	189.0	373.00	2.5717	85.68	1.9329	0.5672
14.30.0	3520.76	188.6	383.00	2.5832	85.70	1.9330	0.5589
14.40.0	3520.78	188.6	393.00	2.5944	85.72	1.9331	0.5508
14.50.0	3520.79	188.6	403.00	2.6053	85.73	1.9331	0.5430
15.00.0	3520.79	188.4	413.00	2.6160	85.73	1.9331	0.5354
15.10.0	3520.77	188.4	423.00	2.6263	85.71	1.9330	0.5281
15.20.0	3520.77	188.2	433.00	2.6365	85.71	1.9330	0.5210
15.30.0	3520.76	188.1	443.00	2.6464	85.70	1.9330	0.5141
15.40.0	3520.76	188.1	453.00	2.6561	85.70	1.9330	0.5074
15.50.0	3520.78	188.1	463.00	2.6656	85.72	1.9331	0.5008
16.00.0	3520.76	187.9	473.00	2.6749	85.70	1.9330	0.4945
16.10.0	3520.78	187.9	483.00	2.6839	85.72	1.9331	0.4884
16.20.0	3520.76	187.9	493.00	2.6928	85.70	1.9330	0.4824
16.30.0	3520.78	187.7	503.00	2.7016	85.72	1.9331	0.4765
16.40.0	3520.78	187.7	513.00	2.7101	85.72	1.9331	0.4709
16.50.0	3520.77	187.7	523.00	2.7185	85.71	1.9330	0.4653
17.00.0	3520.77	187.5	533.00	2.7267	85.71	1.9330	0.4599
17.10.0	3520.75	187.5	543.00	2.7348	85.69	1.9329	0.4547
17.20.0	3520.77	187.3	553.00	2.7427	85.71	1.9330	0.4496
17.30.0	3520.77	187.3	563.00	2.7505	85.71	1.9330	0.4446
17.40.0	3520.74	187.3	573.00	2.7582	85.68	1.9329	0.4397
17.50.0	3520.76	187.2	583.00	2.7657	85.70	1.9330	0.4349
18.00.0	3520.78	187.2	593.00	2.7731	85.72	1.9331	0.4303
18.10.0	3520.76	187.2	603.00	2.7803	85.70	1.9330	0.4257
18.20.0	3520.72	187.2	613.00	2.7875	85.66	1.9328	0.4212
18.30.0	3520.73	187.0	623.00	2.7945	85.67	1.9328	0.4169
18.40.0	3520.75	187.0	633.00	2.8014	85.69	1.9329	0.4126
18.50.0	3520.75	187.0	643.00	2.8082	85.69	1.9329	0.4085
19.00.0	3520.75	186.8	653.00	2.8149	85.69	1.9329	0.4044
19.10.0	3520.73	186.8	663.00	2.8215	85.67	1.9328	0.4004
19.20.0	3520.73	186.8	673.00	2.8280	85.67	1.9328	0.3965
19.30.0	3520.75	186.8	683.00	2.8344	85.69	1.9329	0.3927
19.40.0	3520.73	186.8	693.00	2.8407	85.67	1.9328	0.3889
19.50.0	3520.74	186.6	703.00	2.8470	85.68	1.9329	0.3853
20.00.0	3520.72	186.6	713.00	2.8531	85.66	1.9328	0.3817
20.10.0	3520.99	186.6	723.00	2.8591	85.93	1.9341	0.3782
20.20.0	3521.01	186.6	733.00	2.8651	85.95	1.9342	0.3747

FLUOROL PRESSURE & TEMPERATURE CALCULATIONS

SECTION
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TIME HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	LOG T-DEL.T DEL.T	REMARKS
20.30.0	3520.99	186.6	743.00	2.8710	85.93	1.9341	0.3713	
20.40.0	3520.97	186.6	753.00	2.8768	85.91	1.9340	0.3680	
20.50.0	3520.97	186.6	763.00	2.8825	85.91	1.9340	0.3647	88
21.0.0	3520.97	186.6	773.00	2.8882	85.91	1.9340	0.3615	
21.10.0	3520.97	186.6	783.00	2.8938	85.91	1.9340	0.3584	
21.20.0	3520.95	186.6	793.00	2.8993	85.89	1.9339	0.3553	
21.30.0	3520.99	186.6	803.00	2.9047	85.93	1.9341	0.3522	89
21.40.0	3520.97	186.6	813.00	2.9101	85.91	1.9340	0.3493	
21.50.0	3520.98	186.4	823.00	2.9154	85.92	1.9341	0.3463	
22.0.0	3520.98	186.4	833.00	2.9206	85.92	1.9341	0.3435	
22.10.0	3521.02	186.4	843.00	2.9258	85.96	1.9343	0.3406	
22.20.0	3521.00	186.4	853.00	2.9309	85.94	1.9342	0.3379	90
22.30.0	3521.02	186.3	863.00	2.9360	85.96	1.9343	0.3351	
22.40.0	3521.04	186.3	873.00	2.9410	85.98	1.9344	0.3325	
22.50.0	3521.06	186.3	883.00	2.9460	86.00	1.9345	0.3298	
23.0.0	3521.02	186.3	893.00	2.9509	85.96	1.9343	0.3272	91
23.10.0	3521.02	186.3	903.00	2.9557	85.96	1.9343	0.3247	
23.20.0	3521.06	186.3	913.00	2.9605	86.00	1.9345	0.3222	
23.30.0	3521.06	186.3	923.00	2.9652	86.00	1.9345	0.3197	
23.40.0	3521.04	186.3	933.00	2.9699	85.98	1.9344	0.3172	92
23.50.0	3521.07	186.1	943.00	2.9745	86.01	1.9345	0.3149	
24.0.0	3521.07	186.1	953.00	2.9791	86.01	1.9345	0.3125	
0.1.0	3521.08		954.00	2.9795	86.02	1.9346	0.3123	15. dec. 1981
0.2.0	3521.08		955.00	2.9800	86.02	1.9346	0.3120	
0.3.0	3521.07		956.00	2.9805	86.01	1.9345	0.3118	
0.4.0	3519.60	186.1	957.00	2.9809	84.54	1.9271	0.3116	
0.5.0	3520.91		958.00	2.9814	85.85	1.9337	0.3113	
0.6.0	3521.44		959.00	2.9818	86.38	1.9364	0.3111	
0.7.0	3521.19		960.00	2.9823	86.13	1.9352	0.3109	
0.8.0	3486.21		1.00	0.0000	34.98	1.5438		WELL OPENED ON 24/64" adj.
0.9.0	3474.79		2.00	0.3010	46.40	1.6665		0.7.0
0.10.0	3470.27		3.00	0.4771	50.92	1.7069		Increased choke to 36/64" adj.
0.11.0	3459.18		4.00	0.6021	62.01	1.7925		SHUT IN PRES.
0.12.0	3449.70		5.00	0.6990	71.49	1.8542		3521.19
0.13.0	3445.19	186.6	6.00	0.7782	76.00	1.8808		
0.14.0	3443.17		7.00	0.8451	78.02	1.8922		
0.15.0	3442.02		8.00	0.9031	79.17	1.8986		
0.16.0	3441.45		9.00	0.9542	79.74	1.9017		
0.17.0	3441.17		10.00	1.0000	80.02	1.9032		
0.18.0	3441.01		11.00	1.0414	80.18	1.9041		
0.19.0	3440.81		12.00	1.0792	80.38	1.9051		
0.20.0	3440.61		13.00	1.1139	80.58	1.9062		

PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	TEMP.	DEL. T.	DEL. T.	LOG DEL. T.	DEL. P.	LOG DEL. P	LOG T+DEL. T	DEL. T	REMARKS
				PSIA	DEG. F	(MINUTES)			PSIA				
0.21.	0	0	0	3440.24		14.00	1.1461		80.95	1.9082			
0.22.	0	0	0	3439.77		15.00	1.1761		81.42	1.9107			
0.23.	0	0	0	3439.67	190.6	16.00	1.2041		81.52	1.9113			
0.24.	0	0	0	3439.59		17.00	1.2304		81.60	1.9117			
0.25.	0	0	0	3439.51		18.00	1.2553		81.68	1.9121			
0.26.	0	0	0	3439.30		19.00	1.2788		81.89	1.9132			
0.27.	0	0	0	3439.12		20.00	1.3010		82.07	1.9142			
0.28.	0	0	0	3438.97		21.00	1.3222		82.22	1.9150			
0.29.	0	0	0	3438.78		22.00	1.3424		82.41	1.9160			
0.30.	0	0	0	3438.95		23.00	1.3617		82.24	1.9151			
0.31.	0	0	0	3439.13		24.00	1.3802		82.06	1.9141			
0.32.	0	0	0	3439.33		25.00	1.3979		81.86	1.9131			
0.33.	0	0	0	3439.27	194.2	26.00	1.4150		81.92	1.9134			
0.34.	0	0	0	3439.87		27.00	1.4314		81.32	1.9102			
0.35.	0	0	0	3440.16		28.00	1.4472		81.03	1.9086			
0.36.	0	0	0	3439.44		29.00	1.4624		81.75	1.9125			
0.37.	0	0	0	3439.44		30.00	1.4771		81.75	1.9125			
0.38.	0	0	0	3439.89		31.00	1.4914		81.30	1.9101			
0.39.	0	0	0	3440.70		32.00	1.5051		80.49	1.9057			
0.40.	0	0	0	3441.13		33.00	1.5185		80.06	1.9034			
0.41.	0	0	0	3441.05		34.00	1.5315		80.14	1.9038			
0.42.	0	0	0	3440.97		35.00	1.5441		80.22	1.9043			
0.43.	0	0	0	3440.99	196.2	36.00	1.5563		80.20	1.9042			
0.44.	0	0	0	3440.91		37.00	1.5682		80.28	1.9046			
0.45.	0	0	0	3440.84		38.00	1.5798		80.35	1.9050			
0.46.	0	0	0	3440.87		39.00	1.5911		80.32	1.9048			
0.47.	0	0	0	3441.09		40.00	1.6021		80.10	1.9036			
0.48.	0	0	0	3440.97		41.00	1.6128		80.22	1.9043			
0.49.	0	0	0	3441.09		42.00	1.6232		80.10	1.9036			
0.50.	0	0	0	3441.18		43.00	1.6335		80.01	1.9031			
0.51.	0	0	0	3441.31		44.00	1.6435		79.88	1.9024			
0.52.	0	0	0	3441.42		45.00	1.6532		79.77	1.9018			
0.53.	0	0	0	3441.56	197.4	46.00	1.6628		79.63	1.9011			
0.54.	0	0	0	3436.29		47.00	1.6721		84.90	1.9289			
0.55.	0	0	0	3448.92		48.00	1.6812		72.27	1.8590			
0.56.	0	0	0	3458.43		49.00	1.6902		62.76	1.7977			
0.57.	0	0	0	3464.30		50.00	1.6990		56.89	1.7550			
0.58.	0	0	0	3467.49		51.00	1.7076		53.70	1.7300			
0.59.	0	0	0	3469.39		52.00	1.7160		51.80	1.7143			
1. 0.	0	0	0	3470.36		53.00	1.7243		50.83	1.7061			
1. 1.	0	0	0	3470.80		54.00	1.7324		50.39	1.7023			
1. 2.	0	0	0	3471.00		55.00	1.7404		50.19	1.7006			

Changed choke to 36/64" POS.

PRESSURE & TEMPERATURE CALCULATIONS

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	DEL.T	REMARKS
HR.FN.SS	PSIA	DEG.F	(MINUTES)		PSIA				
1. 3. 0	3471.30	198.0	56.00	1.7482	49.89	1.6980			
1. 4. 0	3471.50		57.00	1.7559	49.69	1.6963			
1. 5. 0	3471.55		58.00	1.7634	49.64	1.6958			
1. 6. 0	3471.59		59.00	1.7709	49.60	1.6955			
1. 7. 0	3471.64		60.00	1.7782	49.55	1.6950			
1. 8. 0	3471.70		61.00	1.7853	49.49	1.6945			
1. 9. 0	3471.67		62.00	1.7924	49.52	1.6948			
1.10. 0	3471.60		63.00	1.7993	49.59	1.6954			
1.11. 0	3471.53		64.00	1.8062	49.66	1.6960			
1.12. 0	3471.55		65.00	1.8129	49.64	1.6958			
1.13. 0	3471.62	198.3	66.00	1.8195	49.57	1.6952			
1.14. 0	3471.65		67.00	1.8261	49.54	1.6950			
1.15. 0	3471.74		68.00	1.8325	49.45	1.6942			
1.16. 0	3471.79		69.00	1.8388	49.40	1.6937			
1.17. 0	3471.51		70.00	1.8451	49.68	1.6962			
1.18. 0	3471.58		71.00	1.8513	49.61	1.6956			
1.19. 0	3471.65		72.00	1.8573	49.54	1.6950			
1.20. 0	3471.80		73.00	1.8633	49.39	1.6936			
1.21. 0	3471.80		74.00	1.8692	49.39	1.6936			
1.22. 0	3471.81		75.00	1.8751	49.38	1.6936			
1.23. 0	3471.92	198.7	76.00	1.8808	49.27	1.6926			
1.24. 0	3471.94		77.00	1.8865	49.25	1.6924			
1.25. 0	3471.91		78.00	1.8921	49.28	1.6927			
1.26. 0	3471.94		79.00	1.8976	49.25	1.6924			
1.27. 0	3471.98		80.00	1.9031	49.21	1.6921			
1.28. 0	3472.01		81.00	1.9085	49.18	1.6918			
1.29. 0	3472.01		82.00	1.9138	49.18	1.6918			
1.30. 0	3472.06		83.00	1.9191	49.13	1.6913			
1.31. 0	3472.11		84.00	1.9243	49.08	1.6909			
1.32. 0	3472.15		85.00	1.9294	49.04	1.6906			
1.33. 0	3472.16	198.7	86.00	1.9345	49.03	1.6905			
1.34. 0	3472.30		87.00	1.9395	48.89	1.6892			
1.35. 0	3472.34		88.00	1.9445	48.85	1.6889			
1.36. 0	3472.29		89.00	1.9494	48.90	1.6893			
1.37. 0	3472.28		90.00	1.9542	48.91	1.6894			
1.38. 0	3472.29		91.00	1.9590	48.90	1.6893			
1.39. 0	3472.27		92.00	1.9638	48.92	1.6895			
1.40. 0	3472.20		93.00	1.9685	48.99	1.6901			
1.41. 0	3472.17		94.00	1.9731	49.02	1.6904			
1.42. 0	3472.27		95.00	1.9777	48.92	1.6895			
1.43. 0	3472.34	198.9	96.00	1.9823	48.85	1.6889			
1.44. 0	3472.34		97.00	1.9868	48.85	1.6889			

FLUORINE & TEMPERATURE CALCULATIONS

SECTION
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TIME	HR.	MIN.	SS.	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T+DEL.T.	REMARKS
				PSIA	DEG.F.	(MINUTES)		PSIA		DEL.T.	
1.45.	0			3472.43		98.00	1.9912	48.76	1.6881		
1.46.	0			3472.34		99.00	1.9956	48.85	1.6889		
1.47.	0			3472.30		100.00	2.0000	48.89	1.6892		
1.48.	0			3472.33		101.00	2.0043	48.86	1.6890		
1.49.	0			3472.28		102.00	2.0086	48.91	1.6894		
1.50.	0			3472.38		103.00	2.0128	48.81	1.6885		
1.51.	0			3472.45		104.00	2.0170	48.74	1.6879		
1.52.	0			3472.39		105.00	2.0212	48.80	1.6884		
1.53.	0			3472.34	198.9	106.00	2.0253	48.85	1.6889		
1.54.	0			3472.42		107.00	2.0294	48.77	1.6882		
1.55.	0			3472.50		108.00	2.0334	48.69	1.6874		
1.56.	0			3472.59		109.00	2.0374	48.60	1.6866		
1.57.	0			3472.59		110.00	2.0414	48.60	1.6866		
1.58.	0			3472.57		111.00	2.0453	48.62	1.6868		
1.59.	0			3472.52		112.00	2.0492	48.67	1.6873		
2. 0.	0			3472.59		113.00	2.0531	48.60	1.6866		
2. 5.	0			3472.65	198.9	118.00	2.0719	48.54	1.6861		
2.10.	0			3472.67		123.00	2.0899	48.52	1.6859		
2.15.	0			3472.68	198.9	128.00	2.1072	48.51	1.6858		
2.20.	0			3472.76		133.00	2.1239	48.43	1.6851		
2.25.	0			3472.91	199.0	138.00	2.1399	48.28	1.6838		
2.30.	0			3472.93		143.00	2.1553	48.26	1.6836		
2.35.	0			3472.91	199.0	148.00	2.1703	48.28	1.6838		
2.40.	0			3472.85		153.00	2.1847	48.34	1.6843		
2.45.	0			3472.96	199.0	158.00	2.1987	48.23	1.6833		
2.50.	0			3472.99		163.00	2.2122	48.20	1.6830		
2.55.	0			3472.99	199.2	168.00	2.2253	48.20	1.6830		
3. 0.	0			3472.94		173.00	2.2380	48.25	1.6835		
3. 5.	0			3473.03	199.2	178.00	2.2504	48.16	1.6827		
3.10.	0			3473.03		183.00	2.2625	48.16	1.6827		
3.15.	0			3472.94	199.2	188.00	2.2742	48.25	1.6835		
3.20.	0			3472.97		193.00	2.2856	48.22	1.6832		
3.25.	0			3473.01	199.2	198.00	2.2967	48.18	1.6829		
3.30.	0			3472.97		203.00	2.3075	48.22	1.6832		
3.35.	0			3472.99	199.2	208.00	2.3181	48.20	1.6830		
3.40.	0			3472.94		213.00	2.3284	48.25	1.6835		
3.45.	0			3473.03	199.2	218.00	2.3385	48.16	1.6827		
3.50.	0			3473.01		223.00	2.3483	48.18	1.6829		
3.55.	0			3473.06	199.2	228.00	2.3579	48.13	1.6824		
4. 0.	0			3472.94		233.00	2.3674	48.25	1.6835		
4. 1.	0			3472.95		234.00	2.3692	48.24	1.6834		
4. 2.	0			3462.11		235.00	2.3711	59.08	1.7714		

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Increased choke to 56/64" adj.

FLOPETROL PRESSURE & TEMPERATURE CALCULATIONS

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TIME	HR.MN.SS	PRESS. PSIA	TEMP. DEG.F	DEL.T (MINUTES)	LOG DEL.T	DEL.P PSIA	LOG DEL.P	LOG T+DEL.T DEL.T	REMARKS
4.3.0	0	3453.03	199.2	236.00	2.3729	68.16	1.8335		
4.4.0	0	3438.04	199.2	237.00	2.3747	83.15	1.9199		
4.5.0	0	3418.60		238.00	2.3766	102.59	2.0111		
4.6.0	0	3407.04		239.00	2.3784	114.15	2.0575		
4.7.0	0	3398.14		240.00	2.3802	123.05	2.0901		
4.8.0	0	3394.97	199.2	241.00	2.3820	126.22	2.1011		Changed choke to 56/64" POS.
4.9.0	0	3392.89		242.00	2.3838	128.30	2.1082		
4.10.0	0	3392.58		243.00	2.3856	128.61	2.1093		
4.11.0	0	3399.08		244.00	2.3874	122.11	2.0868		
4.12.0	0	3405.84		245.00	2.3892	115.35	2.0620		
4.13.0	0	3408.08	199.0	246.00	2.3909	113.11	2.0535		
4.14.0	0	3409.12		247.00	2.3927	112.07	2.0495		
4.15.0	0	3410.23		248.00	2.3945	110.96	2.0452		
4.16.0	0	3410.36		249.00	2.3962	110.83	2.0447		
4.17.0	0	3410.34		250.00	2.3979	110.85	2.0447		
4.18.0	0	3410.45		251.00	2.3997	110.74	2.0443		
4.19.0	0	3410.63		252.00	2.4014	110.56	2.0436		
4.20.0	0	3410.80		253.00	2.4031	109.39	2.0429		
4.21.0	0	3410.99		254.00	2.4048	110.20	2.0422		
4.22.0	0	3411.33		255.00	2.4065	109.86	2.0408		
4.23.0	0	3411.42	198.9	256.00	2.4082	109.77	2.0405		
4.24.0	0	3411.44		257.00	2.4098	109.75	2.0404		
4.25.0	0	3411.35		258.00	2.4116	109.84	2.0408		
4.26.0	0	3411.29		259.00	2.4133	109.90	2.0410		
4.27.0	0	3411.20		260.00	2.4150	109.99	2.0414		
4.28.0	0	3411.26		261.00	2.4168	109.93	2.0411		
4.29.0	0	3411.29		262.00	2.4183	109.90	2.0410		
4.30.0	0	3411.32		263.00	2.4200	109.87	2.0409		
4.31.0	0	3411.37		264.00	2.4216	109.82	2.0407		
4.32.0	0	3411.25		265.00	2.4232	109.94	2.0412		
4.33.0	0	3411.28	198.9	266.00	2.4249	109.91	2.0410		
4.34.0	0	3411.26		267.00	2.4265	109.93	2.0411		
4.35.0	0	3411.38		268.00	2.4281	109.81	2.0406		
4.36.0	0	3411.55		269.00	2.4298	109.64	2.0400		
4.37.0	0	3411.57		270.00	2.4314	109.62	2.0399		
4.38.0	0	3411.53		271.00	2.4330	109.66	2.0400		
4.39.0	0	3411.61		272.00	2.4346	109.58	2.0397		
4.40.0	0	3411.59		273.00	2.4362	109.60	2.0398		
4.41.0	0	3411.65		274.00	2.4378	109.54	2.0396		
4.42.0	0	3411.65		275.00	2.4393	109.54	2.0396		
4.43.0	0	3411.71	198.9	276.00	2.4409	109.48	2.0393		
4.44.0	0	3411.75		277.00	2.4425	109.44	2.0392		

FLIGHT RECORD PRESSURE & TEMPERATURE CALCULATIONS

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REMARKS

LOG DEL.P LOG T+DEL.T
DEL.T

DEL.P
PSIA

LOG DEL.T

DEL.T
(MINUTES)

TEMP.
DEG.F

PRESS.
PSIA

TIME
HR.MN.SS

4.45.0	3411.84	198.9	278.00	2.4440	109.35	2.0388
4.46.0	3411.86	198.9	279.00	2.4456	109.33	2.0387
4.47.0	3411.82	198.9	280.00	2.4472	109.37	2.0389
4.48.0	3411.75	198.9	281.00	2.4487	109.44	2.0392
4.49.0	3411.78	198.9	282.00	2.4502	109.41	2.0391
4.50.0	3411.75	198.9	283.00	2.4518	109.44	2.0392
4.51.0	3411.80	198.9	284.00	2.4533	109.39	2.0390
4.52.0	3411.82	198.9	285.00	2.4548	109.37	2.0389
4.53.0	3411.86	198.9	286.00	2.4564	109.33	2.0387
4.54.0	3411.86	198.9	287.00	2.4579	109.33	2.0387
4.55.0	3411.94	198.9	288.00	2.4594	109.25	2.0384
4.56.0	3411.96	198.9	289.00	2.4609	109.23	2.0383
4.57.0	3411.90	198.9	290.00	2.4624	109.29	2.0386
4.58.0	3411.96	198.9	291.00	2.4639	109.23	2.0383
4.59.0	3411.98	198.9	292.00	2.4654	109.21	2.0383
5.0.0	3412.06	198.9	293.00	2.4669	109.13	2.0379
5.5.0	3412.02	198.9	298.00	2.4742	109.17	2.0381
5.10.0	3412.25	198.9	303.00	2.4814	109.94	2.0372
5.15.0	3412.39	198.9	308.00	2.4886	110.80	2.0366
5.20.0	3412.56	198.9	313.00	2.4958	108.63	2.0359
5.25.0	3412.68	198.9	318.00	2.5024	108.51	2.0355
5.30.0	3412.81	198.9	323.00	2.5091	108.38	2.0349
5.35.0	3413.14	198.9	328.00	2.5159	108.05	2.0336
5.40.0	3413.55	198.9	333.00	2.5224	107.64	2.0320
5.45.0	3413.42	198.9	338.00	2.5289	107.77	2.0325
5.50.0	3413.48	198.9	343.00	2.5353	107.71	2.0323
5.55.0	3413.61	198.9	348.00	2.5416	107.58	2.0317
6.0.0	3413.88	198.9	353.00	2.5478	107.31	2.0306
6.5.0	3414.27	198.9	358.00	2.5539	106.92	2.0291
6.10.0	3414.48	198.9	363.00	2.5599	106.71	2.0282
6.15.0	3414.66	198.9	368.00	2.5658	106.53	2.0275
6.20.0	3414.83	198.9	373.00	2.5717	106.36	2.0268
6.25.0	3414.96	198.9	378.00	2.5775	106.23	2.0262
6.30.0	3415.22	198.9	383.00	2.5832	105.97	2.0252
6.35.0	3415.38	199.0	388.00	2.5888	105.81	2.0245
6.40.0	3415.52	199.0	393.00	2.5944	105.67	2.0240
6.45.0	3415.46	199.0	398.00	2.5999	105.73	2.0242
6.50.0	3415.53	199.0	403.00	2.6053	105.66	2.0239
6.55.0	3415.73	199.0	408.00	2.6107	105.46	2.0231
7.0.0	3415.79	199.0	413.00	2.6160	105.40	2.0228
7.5.0	3415.80	199.0	418.00	2.6212	105.39	2.0226
7.10.0	3416.04	199.0	423.00	2.6263	105.15	2.0218

FLUET TOOL PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR. NN. SS.	PRESS.	TEMP.	DEL. T.	LOG DEL. T.	DEL. P.	LOG DEL. P.	LOG T+DEL. T	REMARKS
		PSIA	DEG. F.	(MINUTES)		PSIA		DEL. T	
7.15.0	0	3415.95	199.2	428.00	2.6314	105.24	2.0222		
7.20.0	0	3415.97		433.00	2.6365	105.22	2.0221		
7.25.0	0	3416.12	199.2	438.00	2.6415	105.07	2.0215		
7.30.0	0	3416.28		443.00	2.6464	104.91	2.0208		
7.35.0	0	3416.16	199.2	448.00	2.6513	105.03	2.0213		
7.40.0	0	3416.16		453.00	2.6561	105.03	2.0213		
7.45.0	0	3416.25	199.2	458.00	2.6609	104.94	2.0209		
7.50.0	0	3416.42		463.00	2.6656	104.77	2.0202		
7.55.0	0	3416.46	199.2	468.00	2.6702	104.73	2.0201		
8.0.0	0	3416.50		473.00	2.6749	104.69	2.0199		
8.1.0	0	3416.51		474.00	2.6758	104.68	2.0199		
8.2.0	0	3416.55		475.00	2.6767	104.64	2.0197		
8.3.0	0	3416.53	199.2	476.00	2.6776	104.66	2.0198		
8.4.0	0	3416.33		477.00	2.6785	104.86	2.0206		
8.5.0	0	3408.39		478.00	2.6794	112.80	2.0523		-12 Changed choke to 56/64" adj. slowly increasing choke to 80/64"
8.6.0	0	3404.64		479.00	2.6803	116.55	2.0665		
8.7.0	0	3400.22		480.00	2.6812	120.97	2.0827		
8.8.0	0	3387.41		481.00	2.6821	118.78	2.1264		
8.9.0	0	3380.06		482.00	2.6830	118.13	2.1496		
8.10.0	0	3376.36		483.00	2.6839	144.83	2.1609		Changed choke to 80/64" POS.
8.11.0	0	3376.27		484.00	2.6848	144.92	2.1611		
8.12.0	0	3375.43		485.00	2.6857	145.76	2.1636		
8.13.0	0	3374.48	199.2	486.00	2.6866	146.71	2.1665		
8.14.0	0	3375.03		487.00	2.6875	146.16	2.1648		
8.15.0	0	3378.05		488.00	2.6884	143.14	2.1558		
8.16.0	0	3379.71		489.00	2.6893	141.48	2.1507		
8.17.0	0	3380.79		490.00	2.6902	140.40	2.1474		
8.18.0	0	3381.71		491.00	2.6911	139.48	2.1445		
8.19.0	0	3382.34		492.00	2.6920	138.85	2.1425		
8.20.0	0	3382.86		493.00	2.6928	138.33	2.1409		
8.21.0	0	3383.14		494.00	2.6937	138.05	2.1400		
8.22.0	0	3383.49		495.00	2.6946	137.70	2.1389		
8.23.0	0	3383.90	199.0	496.00	2.6955	137.29	2.1376		
8.24.0	0	3384.02		497.00	2.6964	137.17	2.1373		
8.25.0	0	3384.29		498.00	2.6972	136.90	2.1364		
8.26.0	0	3384.64		499.00	2.6981	136.55	2.1353		
8.27.0	0	3384.78		500.00	2.6990	136.41	2.1348		
8.28.0	0	3384.95		501.00	2.6998	136.24	2.1343		
8.29.0	0	3385.11		502.00	2.7007	136.08	2.1338		
8.30.0	0	3385.32		503.00	2.7016	135.87	2.1331		
8.31.0	0	3385.28		504.00	2.7024	135.91	2.1333		
8.32.0	0	3385.59		505.00	2.7033	135.60	2.1323		

SECTION 38 PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS.	PRESS.	TEMP.	DEL.T.	LOG DEL.T.	DEL.P.	LOG DEL.P.	LOG T+DEL.T.	DEL.T.	REMARKS
				PSIA	DEG.F.	(MINUTES)		PSIA				
8.33.	0			3385.53	199.0	506.00	2.7042	135.66	2.1325			
8.34.	0			3385.59	199.0	507.00	2.7050	135.60	2.1323			
8.35.	0			3385.94	199.0	508.00	2.7059	135.25	2.1311			
8.36.	0			3386.07	199.0	509.00	2.7067	135.12	2.1307			
8.37.	0			3386.36	199.0	510.00	2.7076	134.83	2.1298			
8.38.	0			3386.48	199.0	511.00	2.7084	134.71	2.1294			
8.39.	0			3386.64	199.0	512.00	2.7093	134.55	2.1289			
8.40.	0			3386.77	199.0	513.00	2.7101	134.42	2.1285			
8.41.	0			3386.95	199.0	514.00	2.7110	134.24	2.1279			
8.42.	0			3387.26	199.0	515.00	2.7118	133.93	2.1269			
8.43.	0			3387.45	199.0	516.00	2.7126	133.74	2.1263			
8.44.	0			3387.39	199.0	517.00	2.7135	133.80	2.1265			
8.45.	0			3387.62	199.0	518.00	2.7143	133.57	2.1257			
8.46.	0			3387.70	199.0	519.00	2.7152	133.49	2.1254			
8.47.	0			3387.66	199.0	520.00	2.7160	133.53	2.1256			
8.48.	0			3387.82	199.0	521.00	2.7168	133.37	2.1251			
8.49.	0			3387.84	199.0	522.00	2.7177	133.35	2.1250			
8.50.	0			3388.03	199.0	523.00	2.7185	133.16	2.1244			
8.51.	0			3388.03	199.0	524.00	2.7193	133.16	2.1244			
8.52.	0			3387.89	199.0	525.00	2.7202	133.30	2.1248			
8.53.	0			3388.05	199.0	526.00	2.7210	133.14	2.1243			
8.54.	0			3388.01	199.0	527.00	2.7218	133.18	2.1244			
8.55.	0			3388.01	199.0	528.00	2.7226	133.18	2.1244			
8.56.	0			3388.03	199.0	529.00	2.7235	133.16	2.1244			
8.57.	0			3388.05	199.0	530.00	2.7243	133.14	2.1243			
8.58.	0			3388.09	199.0	531.00	2.7251	133.10	2.1242			
8.59.	0			3388.05	199.0	532.00	2.7259	133.14	2.1243			
9.0.	0			3388.57	199.0	533.00	2.7267	132.62	2.1226			
9.5.	0			3389.00	199.0	538.00	2.7308	132.19	2.1212			
9.10.	0			3389.13	199.0	543.00	2.7348	132.06	2.1208			
9.15.	0			3389.24	199.0	548.00	2.7388	131.95	2.1204			
9.20.	0			3389.37	199.0	553.00	2.7427	131.82	2.1200			
9.25.	0			3389.68	199.2	558.00	2.7466	131.51	2.1190			
9.30.	0			3389.84	199.2	563.00	2.7505	131.35	2.1184			
9.35.	0			3390.13	199.2	568.00	2.7543	131.06	2.1175			
9.40.	0			3390.42	199.2	573.00	2.7582	130.77	2.1165			
9.45.	0			3390.61	199.2	578.00	2.7619	130.58	2.1159			
9.50.	0			3390.86	199.2	583.00	2.7657	130.33	2.1150			
9.55.	0			3391.17	199.2	588.00	2.7694	130.02	2.1140			
10.0.	0			3391.43	199.2	593.00	2.7731	129.76	2.1131			
10.5.	0			3391.81	199.2	598.00	2.7767	129.38	2.1119			
10.10.	0			3392.19	199.2	603.00	2.7803	129.00	2.1106			

TIME	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T+DEL.T	REMARKS
HR.MN.SS	PSIA	DEG.F	(MINUTES)		PSIA	DEL.T		
10.15.0	3392.30	199.2	608.00	2.7839	128.89	2.1102		
10.20.0	3392.85	199.2	613.00	2.7875	128.34	2.1084		
10.25.0	3392.96	199.2	618.00	2.7910	128.23	2.1080		
10.30.0	3393.25	199.2	623.00	2.7945	127.94	2.1070		
10.35.0	3393.60	199.2	628.00	2.7980	127.59	2.1058		
10.40.0	3393.66	199.2	633.00	2.8014	127.53	2.1056		
10.45.0	3393.92	199.2	638.00	2.8048	127.27	2.1047		
10.50.0	3394.07	199.4	643.00	2.8082	127.12	2.1042		
10.55.0	3394.27	199.4	648.00	2.8116	126.92	2.1035		
11.0.0	3394.56	199.4	653.00	2.8149	126.63	2.1025		
11.5.0	3394.92	199.4	658.00	2.8182	126.27	2.1013		
11.10.0	3395.08	199.4	663.00	2.8215	126.11	2.1007		
11.15.0	3395.06	199.4	668.00	2.8248	126.13	2.1008		
11.20.0	3392.89	199.4	673.00	2.8280	128.30	2.1082		
11.25.0	3393.66	199.4	678.00	2.8312	127.53	2.1056		
11.30.0	3393.81	199.4	683.00	2.8344	127.38	2.1051		
11.35.0	3394.02	199.4	688.00	2.8376	127.17	2.1044		
11.40.0	3394.04	199.4	693.00	2.8407	127.15	2.1043		
11.45.0	3394.48	199.4	698.00	2.8439	127.71	2.1028		
11.50.0	3394.45	199.4	703.00	2.8470	126.74	2.1029		
11.55.0	3394.54	199.4	708.00	2.8500	126.65	2.1026		
11.56.0	3394.56	199.4	709.00	2.8506	126.63	2.1025		
11.57.0	3394.58	199.4	710.00	2.8513	126.61	2.1025		
11.58.0	3394.50	199.4	711.00	2.8519	126.69	2.1027		
11.59.0	3394.52	199.4	712.00	2.8526	126.67	2.1027		
12.0.0	3394.60	199.4	713.00	2.8531	126.59	2.1024		
12.1.0	3394.58	199.4	714.00	2.8536				
12.2.0	3426.70	199.4	715.00	0.0000	32.12	1.5068	2.8537	SHUT IN TIME 12.1.0
12.3.0	3469.89	199.4	716.00	0.3010	75.31	1.8769	2.5533	
12.4.0	3502.98	199.4	717.00	0.4771	108.40	2.0350	2.3778	FLOWING PRES. 3394.58
12.5.0	3514.08	199.4	718.00	0.6021	119.50	2.0774	2.2535	
12.6.0	3515.40	199.4	719.00	0.6990	120.82	2.0821	2.1572	
12.7.0	3516.02	199.4	720.00	0.7782	121.44	2.0844	2.0786	FLOW TIME T
12.8.0	3516.41	199.4	721.00	0.8451	121.83	2.0858	2.0122	(HOURS) 11.53.0
12.9.0	3516.68	199.4	722.00	0.9031	122.10	2.0867	1.9548	
12.10.0	3516.89	199.4	723.00	0.9542	122.31	2.0875	1.9043	
12.11.0	3517.08	199.4	724.00	1.0000	122.50	2.0881	1.8591	
12.12.0	3517.22	199.4	725.00	1.0414	122.64	2.0886	1.8183	
12.13.0	3517.36	199.4	726.00	1.0792	122.78	2.0891	1.7812	
12.14.0	3517.47	199.4	727.00	1.1139	122.89	2.0895	1.7470	
12.15.0	3517.56	199.4	728.00	1.1461	122.98	2.0898	1.7154	
12.16.0	3517.67	199.4	729.00	1.1761	123.09	2.0902	1.6860	

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FLIGHT RECORD PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	TEMP.	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T DEL.T	DEL.T	REMARKS
				PSIA	DEG.F	(MINUTES)		PSIA				
12.17.	0			3517.74		16.00	1.2041	123.16	2.0905		1.6586	
12.18.	0			3517.79		17.00	1.2304	123.21	2.0906		1.6329	
12.19.	0			3517.86		18.00	1.2553	123.28	2.0909		1.6086	
12.20.	0			3517.93		19.00	1.2788	123.35	2.0911		1.5858	
12.21.	0			3518.00		20.00	1.3010	123.42	2.0914		1.5641	
12.22.	0			3518.07		21.00	1.3222	123.49	2.0916		1.5435	
12.23.	0			3518.12	199.9	22.00	1.3424	123.54	2.0918		1.5239	
12.24.	0			3518.16		23.00	1.3617	123.58	2.0919		1.5051	
12.25.	0			3518.19		24.00	1.3802	123.61	2.0921		1.4873	
12.26.	0			3518.24		25.00	1.3979	123.66	2.0922		1.4701	
12.27.	0			3518.27		26.00	1.4150	123.69	2.0923		1.4537	
12.28.	0			3518.31		27.00	1.4314	123.73	2.0925		1.4379	
12.29.	0			3518.32		28.00	1.4472	123.74	2.0925		1.4227	
12.30.	0			3518.37		29.00	1.4624	123.79	2.0927		1.4080	
12.31.	0			3518.40		30.00	1.4771	123.82	2.0928		1.3939	
12.32.	0			3518.43		31.00	1.4914	123.85	2.0929		1.3802	
12.33.	0			3518.47	199.9	32.00	1.5051	123.89	2.0930		1.3670	
12.34.	0			3518.49		33.00	1.5185	123.91	2.0931		1.3542	
12.35.	0			3518.51		34.00	1.5315	123.93	2.0932		1.3416	
12.36.	0			3518.54		35.00	1.5441	123.96	2.0933		1.3298	
12.37.	0			3518.58		36.00	1.5563	124.00	2.0934		1.3182	
12.38.	0			3518.62		37.00	1.5682	124.04	2.0936		1.3069	
12.39.	0			3518.66		38.00	1.5798	124.08	2.0937		1.2959	
12.40.	0			3518.66		39.00	1.5911	124.08	2.0937		1.2852	
12.41.	0			3518.68		40.00	1.6021	124.10	2.0938		1.2747	
12.42.	0			3518.70		41.00	1.6128	124.12	2.0938		1.2646	
12.43.	0			3518.74	199.6	42.00	1.6232	124.16	2.0940		1.2547	
12.44.	0			3518.75		43.00	1.6335	124.17	2.0940		1.2451	
12.45.	0			3518.76		44.00	1.6435	124.18	2.0941		1.2356	
12.46.	0			3518.80		45.00	1.6532	124.22	2.0942		1.2265	
12.47.	0			3518.83		46.00	1.6628	124.25	2.0943		1.2175	
12.48.	0			3518.84		47.00	1.6721	124.26	2.0943		1.2087	
12.49.	0			3518.85		48.00	1.6812	124.27	2.0944		1.2001	
12.50.	0			3518.89		49.00	1.6902	124.31	2.0945		1.1918	
12.51.	0			3518.90		50.00	1.6990	124.32	2.0945		1.1836	
12.52.	0			3518.91		51.00	1.7076	124.33	2.0946		1.1755	
12.53.	0			3518.93	199.2	52.00	1.7160	124.35	2.0946		1.1677	
12.54.	0			3518.96		53.00	1.7243	124.38	2.0948		1.1600	
12.55.	0			3518.98		54.00	1.7324	124.40	2.0948		1.1524	
12.56.	0			3519.00		55.00	1.7404	124.42	2.0949		1.1450	
12.57.	0			3519.04		56.00	1.7482	124.46	2.0950		1.1377	
12.58.	0			3519.06		57.00	1.7559	124.48	2.0951		1.1306	

SECTION 11 PAGE 1 PRESSURE & TEMPERATURE CALCULATIONS

TIME	HR.	MIN.	SS	PRESS.	TEMP.	DEL.T	DEL.T	LOG DEL.T	DEL.P	LOG DEL.P	LOG T-DEL.T	DEL.T	REMARKS
				PSIA	DEG.F	(MINUTES)			PSIA				
12.59.	0			3519.08		58.00		1.7634	124.50	2.0952		1.1236	
13.0.	0			3519.10		59.00		1.7709	124.52	2.0952		1.1168	
13.1.	0			3519.12		60.00		1.7782	124.54	2.0953		1.1100	
13.2.	0			3519.14		61.00		1.7853	124.56	2.0954		1.1034	
13.3.	0			3519.18	198.9	62.00		1.7924	124.60	2.0955		1.0969	
13.4.	0			3519.19		63.00		1.7993	124.61	2.0956		1.0905	
13.5.	0			3519.20		64.00		1.8062	124.62	2.0956		1.0842	
13.6.	0			3519.22		65.00		1.8129	124.64	2.0957		1.0781	
13.7.	0			3519.21		66.00		1.8195	124.63	2.0956		1.0720	
13.8.	0			3519.24		67.00		1.8261	124.66	2.0957		1.0660	
13.9.	0			3519.26		68.00		1.8325	124.68	2.0958		1.0601	
13.10.	0			3519.27		69.00		1.8388	124.69	2.0958		1.0544	
13.11.	0			3519.28		70.00		1.8451	124.70	2.0959		1.0487	
13.12.	0			3519.30		71.00		1.8513	124.72	2.0959		1.0431	
13.13.	0			3519.31	198.3	72.00		1.8573	124.73	2.0960		1.0375	
13.14.	0			3519.32		73.00		1.8633	124.74	2.0960		1.0321	
13.15.	0			3519.34		74.00		1.8692	124.76	2.0961		1.0267	
13.16.	0			3519.35		75.00		1.8751	124.77	2.0961		1.0215	
13.17.	0			3519.36		76.00		1.8808	124.78	2.0961		1.0163	
13.18.	0			3519.38		77.00		1.8865	124.80	2.0962		1.0111	
13.19.	0			3519.39		78.00		1.8921	124.81	2.0962		1.0061	
13.20.	0			3519.40		79.00		1.8976	124.82	2.0963		1.0011	
13.21.	0			3519.42		80.00		1.9031	124.84	2.0964		0.9962	
13.22.	0			3519.41		81.00		1.9085	124.83	2.0963		0.9913	
13.23.	0			3519.42	198.0	82.00		1.9138	124.84	2.0964		0.9866	
13.24.	0			3519.44		83.00		1.9191	124.86	2.0964		0.9818	
13.25.	0			3519.44		84.00		1.9243	124.86	2.0964		0.9772	
13.26.	0			3519.48		85.00		1.9294	124.90	2.0966		0.9726	
13.27.	0			3519.48		86.00		1.9345	124.90	2.0966		0.9680	
13.28.	0			3519.50		87.00		1.9395	124.92	2.0966		0.9636	
13.29.	0			3519.52		88.00		1.9445	124.94	2.0967		0.9591	
13.30.	0			3519.52		89.00		1.9494	124.94	2.0967		0.9548	
13.31.	0			3519.54		90.00		1.9542	124.96	2.0968		0.9505	
13.32.	0			3519.54		91.00		1.9590	124.96	2.0968		0.9462	
13.33.	0			3519.56	197.6	92.00		1.9638	124.98	2.0968		0.9420	
13.34.	0			3519.60		93.00		1.9685	125.02	2.0970		0.9379	
13.35.	0			3519.60		94.00		1.9731	125.02	2.0970		0.9337	
13.36.	0			3519.62		95.00		1.9777	125.04	2.0970		0.9297	
13.37.	0			3519.62		96.00		1.9823	125.04	2.0970		0.9257	
13.38.	0			3519.64		97.00		1.9868	125.06	2.0971		0.9217	
13.39.	0			3519.66		98.00		1.9912	125.08	2.0972		0.9178	
13.40.	0			3519.68		99.00		1.9956	125.10	2.0973		0.9139	

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FLUORINOL PRESSURE & TEMPERATURE CALCULATIONS

TIME HR. MIN. SS	PRESS. PSIA	TEMP. DEG. F.	DEL. T (MINUTES)	LOG DEL. T	DEL. P PSIA	LOG DEL. P	LOG T+DEL. T	DEL. T	REMARKS
15.55.0	3519.97	193.5	234.00	2.3692	125.39	2.0983	0.6071	0.6071	
16.00.0	3519.97	193.5	239.00	2.3784	125.39	2.0983	0.6002	0.6002	
16.05.0	3519.97	193.6	244.00	2.3874	125.39	2.0983	0.5935	0.5935	
16.10.0	3519.97	193.6	249.00	2.3962	125.39	2.0983	0.5870	0.5870	
16.15.0	3519.96	193.5	254.00	2.4048	125.38	2.0982	0.5806	0.5806	
16.20.0	3519.97	193.5	259.00	2.4133	125.39	2.0983	0.5744	0.5744	
16.25.0	3519.96	193.3	264.00	2.4216	125.38	2.0982	0.5683	0.5683	
16.30.0	3519.96	193.3	269.00	2.4298	125.38	2.0982	0.5624	0.5624	
16.35.0	3519.95	193.1	274.00	2.4378	125.37	2.0982	0.5566	0.5566	
16.40.0	3519.98	192.9	279.00	2.4456	125.40	2.0983	0.5509	0.5509	
16.45.0	3519.97	192.9	284.00	2.4533	125.39	2.0983	0.5454	0.5454	
16.50.0	3520.00	192.9	289.00	2.4609	125.42	2.0984	0.5400	0.5400	
16.55.0	3520.00	192.9	294.00	2.4683	125.42	2.0984	0.5347	0.5347	
17.00.0	3519.96	192.9	299.00	2.4757	125.38	2.0982	0.5295	0.5295	

End of build up due to
end of the gauge re-
cording time

HR. MIN. PSIA
PRE. DEG. F (MINUTES)
T. L. ES. DE. B
OG. B

3.54.0	3937.86
3.56.0	3938.19
3.58.0	3925.34
4.0.0	3936.99
4.2.0	3936.94
4.4.0	3938.29
4.6.0	3939.07
4.8.0	3939.20
4.10.0	3939.47
4.12.0	3939.94
4.14.0	3939.64
4.16.0	3940.85
4.18.0	3940.28
4.20.0	3941.09
4.22.0	3918.62
4.24.0	3928.72
4.26.0	3922.09
4.28.0	3924.43
4.30.0	3920.85
4.40.0	3918.46
4.50.0	3895.68
5.0.0	3817.65
5.10.0	3772.37
5.20.0	3760.22
5.30.0	3756.78
5.40.0	3758.00
5.50.0	3755.06
6.0.0	3755.30
6.10.0	3755.98
6.20.0	3742.62
6.30.0	3691.24
6.40.0	3643.09
6.50.0	3497.13
7.0.0	3293.30
7.10.0	3151.84
7.20.0	2945.83
7.30.0	2841.17
7.40.0	2658.42
7.50.0	2452.40
8.0.0	2255.81
8.10.0	2070.84
8.20.0	1873.46

FORM 10-1 (REV. 10-1-60) (MINUTES)

HR. ANN. PSIA DEG. F. (MINUTES)

8.30.0 1676.39 113.2
8.40.0 1448.73
8.50.0 1235.43 107.8
9.0.0 1038.83
9.10.0 847.67 102.2
9.20.0 651.04
9.30.0 451.41 95.9
9.40.0 249.71
9.50.0 40.21 88.5
10.0.0 1433.27
10.10.0 337.22 83.8
10.20.0 186.60
10.30.0 147.03 78.8
10.40.0 92.47
10.50.0 82.46 70.2
11.0.0 75.39
11.10.0 28.29 64.2
11.20.0 23.98
11.30.0 23.80 61.9
11.40.0 13.21
11.50.0 13.96 61.7
12.0.0 8.96

- SEQUENCE OF EVENTS -

DATE	TIME	OPERATION
		PERFORATION INT. 2395 - 2145m.
12.12.81	04.00	Start to prepare tools
	04.30	Battery connected to S.S.D.R. 81048
	04.42	First transfer verified
	04.50	Gauge in tail pipe. D.S.T. Hanging kit
	05.03	Battery connected to S.S.D 81049
	05.09	First transfer verified
	05.21	Gauge in tail pipe. XN-niple
	05.25	Start to run in hole
13.12.81	09.02	Set packer. Drop in riser level. Opened master valve.
		RTTS circulating valve open. Gauge 81048 at 2382.5m.
		Gauge 81049 at 2370.9m.
	10.40	Recycled RTTS circ. valve. Valve closed.
	11.15	Opened RTTS circ. valve, reverse mud into tubing.
	15.24	Opened APR-N valve for first flow.
	15.26	Opened well on 24/64" adj. choke
	15.30	Increased choke to 32/64" adj.
	15.56	Gas to surface
	15.58	Increased choke to 48/64" adj. mud to surface
	20.40	Flow through heater
	21.00	Flow through separator. Relief valve leaking. By passed separator.

FLOPETROL

Section : 3

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SEQUENCE OF EVENTS -(Continuation)

DATE	TIME	OPERATION
13/12-81	22.06	Flow through separator.
	23.22	Flow to stock tank.
	23.47	By-passed tank.
14/12-81	08.03	By-passed separator.
	08.05	Attempted to close APR-N. Negative.
	08.07	Close choke manifold for first build up.
	22.42	Close fail safe valve.
15/12-81	00.03	Open fail safe valve.
	00.05	Open APR-N for second flow.
	00.08	Open well on 24/64" adj. choke.
	00.10	Increased choke to 36/64" adj.
	00.53	Changed choke to 36/64" POS.
	01.15	Flow through separator.
	04.01	Bypassed separator. Increased choke to 56/64" adj.
	04.09	Changed choke to 56/64" POS.
	04.30	Flow through separator.
	08.01	Bypass separator.
	08.02	Bypass heater
	08.04	Changed choke to 56/64" adj. Slowly increasing
		choke to 80/64" adj.
	08.07	Changed choke to 80/64" POS.
	08.34	Flow through separator.
	12.00	Bypass separator.
	12.01	Close choke manifold for second build up.
	12.02	Bleed off annulus pressure.
	12.03	Close APR-N valve.
	20.54	Open kill valve. Start bull heading.
	21.25	Open APR-N valve.
	21.52	Finished bull heading.

FLOPETROL

Section : 3

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SEQUENCE OF EVENTS (Continuation)

[illegible]