

LOPETROL JO

Denne rapport
tilhører



L&U DOK. SENTER

L. NR. 30284290036

KODE Well 31/2-5 nr 44

Returneres etter bruk

SDP BOTTOM HOLE PRESS. AND TEMP. SURVAY

ELS 84.27

: SHELL
: 31/2-5
: \
: NORWAY
: UNCONSOLIDATED SAND
: 15-16 APRIL 1984

FLOPETROL JOHNSTON

Schlumberger



SDP BOTTOM HOLE PRESS. AND TEMP. SURVAY
ELS 84.27

company : SHELL
well : 31/2-5
state : \\
country : NORWAY
tested zone : UNCONSOLIDATED SAND
date of test : 15-16 APRIL 1984

GAUGE SDP T.M. 83117
R.M. 84127

GENERAL INFORMATION

1.1	service	:SDP BOTTOM HOLE PRESS. AND TEMP. SURVAY
1.2	company	:SHELL
1.3	well	:31/2-5
1.4	field	:TROLL
1.6	country	:NORWAY
1.7	tested zone	:UNCONSOLIDATED SAND
1.8	lat.,long.	:60deg 46' 16.20"N-03deg 25' 53.46"E

OPERATION DATA

2.1	date of test	:15-16 APRIL 1984
2.2	report nbr.	:ELS 84/27
2.3	base	:NWB
2.4	district	:EMR/NSD
2.5	recorded by	:G-O.EIKEMO
2.6	witnessed by	:G.RUNDGREN/N.DAY

EQUIPMENT DATA

3.3	surface equipt.	:PCS#1135.HP PLOTTER 9876A #1150
3.4	downhole equipt.	:SDP # 83117, RM # 84127

DEPTH INFORMATION

4.1	depth unit	:MRKB
4.3	elevation	:RKB-MSL=25m
4.6	total depth drlg.	:2552 mSS
4.7	total depth FLO.	:1568.4mRKB, BOTTOM OF AMERADA.
4.9	bottom log	:1658mRKB
4.11	gauge set at	:1562.42mRKB, SDP MP.

WELL DATA

5.1	well type	:APPRAISAL
5.2	fluid type	:OIL
5.5	production interval	:1591-1594 mRKB
5.6	prod. string size	:3.5"
5.7	O.H. size	:9.5/8"
5.8	tbg. size	:3.5"
5.9	tbg. shoe at	:1590.1 mRKB
5.10	min. restriction	:1.937" (RT NIPPEL)
5.13	B.H.P.	:2305 PSI
5.14	B.H.T.	:156 deg F

FLOPETROL

Client : NORSKE SHELL

Section : 3

Field : TROLL

Page : 1

Base: NWB

Well : 31/2-5

Report No.: ELS 84.27

SEQUENCE OF EVENTS

DATE	TIME	OPERATION
		POST-ACID TEST
		SDP NO. 83117.
15.04.84		
	17:48	POWER ON SDP NO. 83117 (TOP GAUGE).
	17:51	POWER ON SDP NO. 83060 (BOTTOM GAUGE).
	18:01	TOOLS IN LUBRICATOR.
	18:07	LUBRICATOR CONNECTED.
	18:15	PRESSURE TEST TO 3000 PSI.
	18:23	BLEED OFF TO 600 PSI.
	18:25	OPEN LUBRICATOR VALVE.
	18:30	1ST GRADIENT STOP IN LUBRICATOR.
	18:42	R.I.H.
	19:11	2ND GRADIENT STOP. SDP NO. 83117 M.P. AT 1393.9 M RKB.
	19:26	R.I.H.
	19:35	3RD GRADIENT STOP. SDP NO. 83117 M.P. AT 1493.9 M RKB.
	19:45	R.I.H.
	19:51	IN 'F' NIPPLE, GAUGES HANG OFF. SDP NO. 83117 M.P. AT 1562.42 M RKB.
	20:10	WELL OPEN ON 12/64" ADJ. CHOKE, BEAMING SLOWLY UP TO 32/64" ADJ. CHOKE.
	20:15	CHANGE TO 32/64" ADJ. CHOKE, BEAMING UP SLOWLY TO 56/64" ADJ.

FLOPETROL

Section : 3

SEQUENCE OF EVENTS (Continuation)

Page : ...2.....

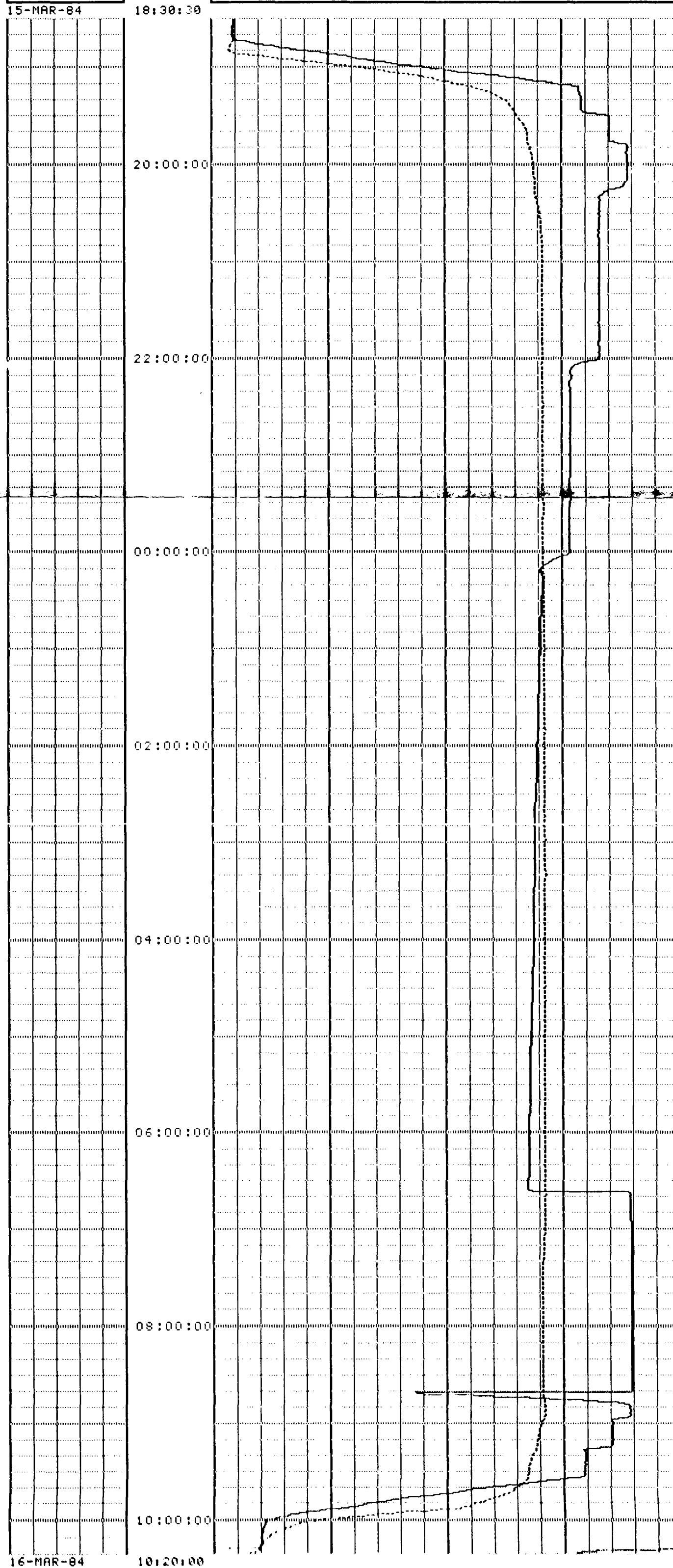
Report No. : ELS 84.27

DATE	TIME	OPERATION
15.04.84	22.00	CHANGE TO 32/64" ADJ. BEAMING UP SLOWLY TO 56/64"
	22:30	CHANGE TO 56/64" FIX. CHOKE.
16.04.84		
	00:00	CHANGE TO 56/64" ADJ. CHOKE, BEAMING UP SLOWLY
		112/64" FIX. CHOKE.
	00:05	AT 112/64" FIX. CHOKE.
	00:36	CHANGE TO 128/64" FIX. CHOKE.
	06:36	SHUT IN PCT-VALVE FOR BUILD UP.
	08:40	OPEN PCT-VALVE.
	08:55	START TO P.O.O.H. WITH GAUGES.
	08:58	1ST GRADIENT STOP. SDP NO. 83117 M.P. AT
		1493.9 M RKB.
	09:13	P.O.O.H.
	09:16	2ND GRADIENT STOP. SDP NO. 83117 M.P. AT
		1393.9 M RKB.
	09:31	P.O.O.H.
	09:59	3RD GRADIENT STOP IN LUBRICATOR.
	10:16	CLOSE LUBRICATOR VALVE, BLEED OFF.
	10:25	DISCONNECT LUBRICATOR.
	10:30	GAUGES OFF STRING.
	10:54	POWER OFF SDP NO. 83117.
	10:57	POWER OFF SDP NO. 83060.
		HORNER TIME 'T' GIVEN BY
		SHELL P.I. V. HOLTAM.

SHELL, WELL: 31/2-5, SDP#83117, MP @ 1562.42mRKB, POST-ACID TEST

(129) VERSUS TIME LOGGING START TIME: 15-APR-84 18:30:00 SCALE: 3600. sec/inch

		SDP (psia)	
		500.	2500.
		[600.42]	
		SDT (degF)	
		40.	200.
		[48.027]	



SHELL, WELL: 31/2-5, SDP#83117, MP @ 1562.42mRKB.

[234] LOG-LOG PLOT T0= 16-APR-84 06:36:30

P0=1870.58

8.6639	P-P0 (psia) 100.	2300.
.....		
[8.5449E-4]		

16-MAR-84 06:36:30

1. E-5		
1. E-4		
1. E-3		
1. E-2		
. 1		
1.		

16-MAR-84 08:40:30

SHELL, WELL: 31/2-5, SDP#83117, MP @ 1562.42mRKB, POST-ACID TEST

11401 HORNER PLOT T0= 16-APR-84 06:36:30

FT=009:00:00

SDP (psia)	
1850.	2300.
.....	
[1870.6]	

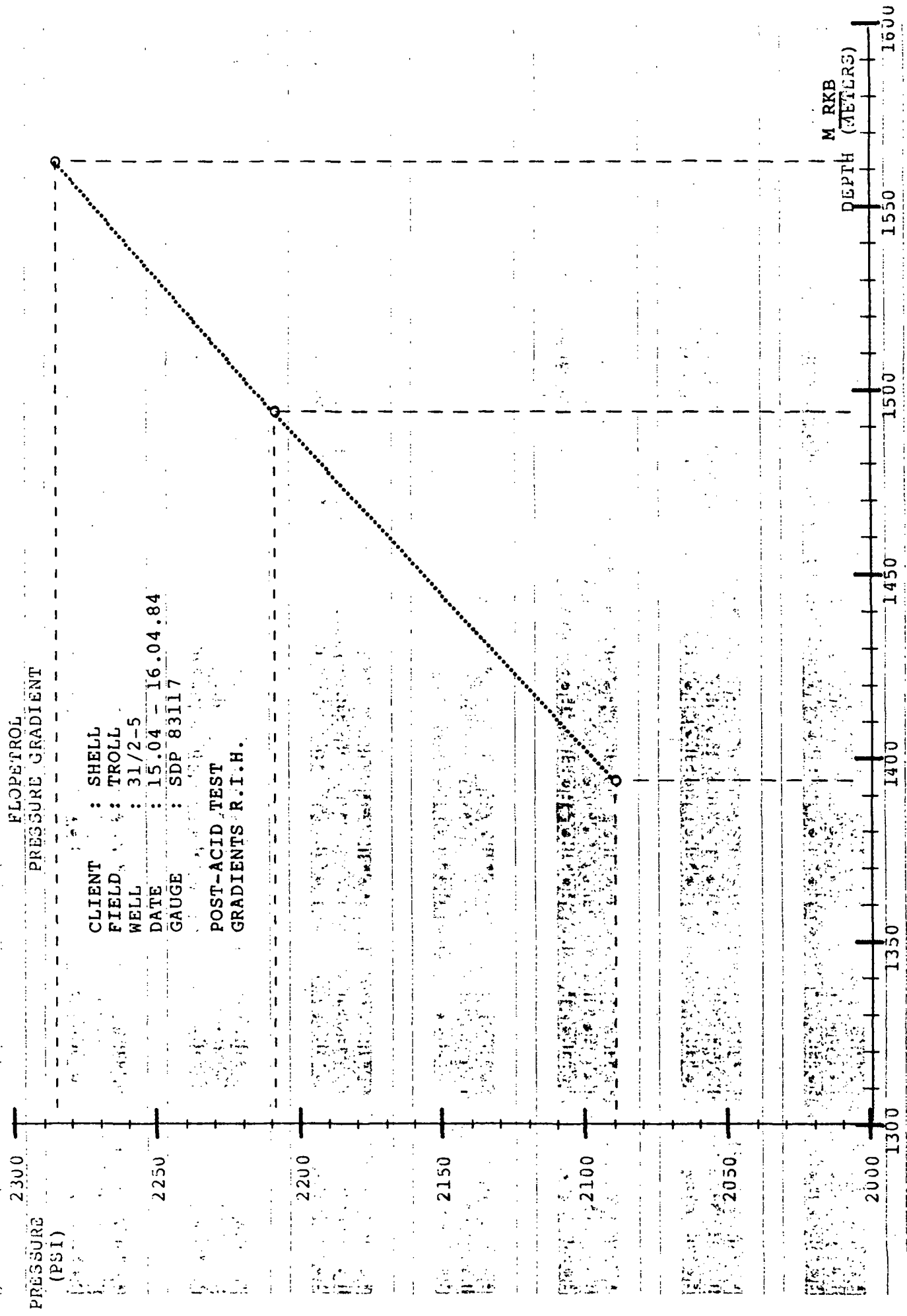
16-MAR-84 06:36:30

10000.			
1000.			
100.			
10.			

16-MAR-84 08:40:30

FLOPETROL
PRESSURE GRADIENT

CLIENT : SHELL
FIELD : TROLL
WELL : 31/2-5
DATE : 15.04 - 16.04.84
GAUGE : SDP 83117
POST-ACID TEST
GRADIENTS R.I.H.

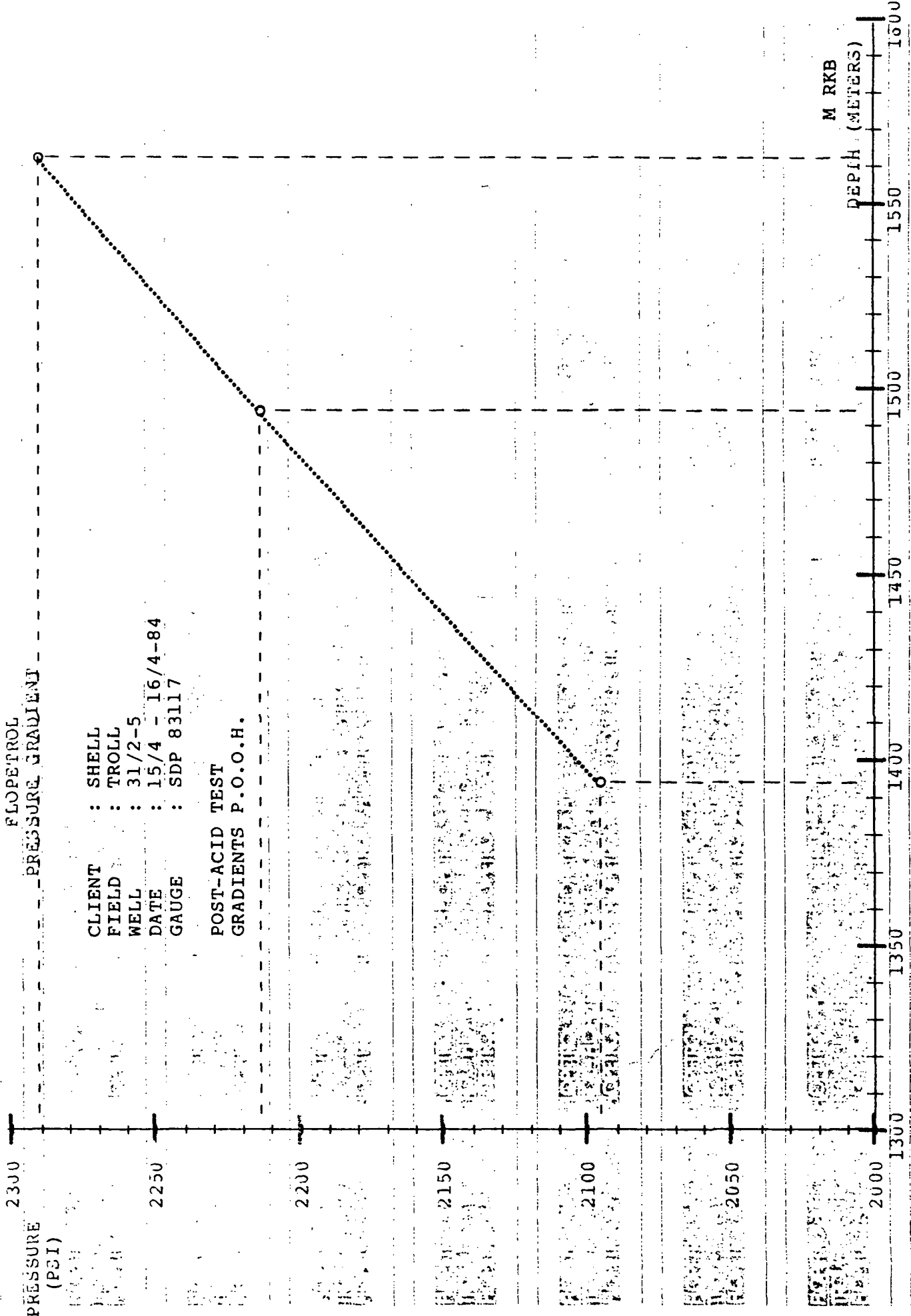


FLOPETROL
PRESSURE GRADIENT

PRESSURE
(PSI)

CLIENT : SHELL
FIELD : TROLL
WELL : 31/2-5
DATE : 15/4 - 16/4-84
GAUGE : SDP 83117

POST-ACID TEST
GRADIENTS P.O.O.H.



15-APR-84	SDT degF	SDP psia
17:49:30	44.26	12.45
17:51:30	45.77	12.78
17:55:30	47.43	13.66
17:57:30	48.03	14.18
18:01:30	48.48	14.48
18:03:30	48.33	14.86
18:11:30	48.18	14.96
18:13:30	48.33	15.17
18:14:00	48.33	15.26
18:14:30	48.33	16.83
18:15:00	48.33	19.66
18:15:30	48.33	23.65
18:16:00	48.33	29.75
18:16:30	48.48	41.73
18:17:00	48.63	75.36
18:17:30	48.63	219.03
18:18:00	48.93	929.26
18:18:30	48.93	2540.73
18:19:00	49.08	2926.97
18:19:30	49.23	2908.08
18:20:00	49.38	2899.35
18:20:30	49.38	2892.15
18:21:00	49.38	2887.39
18:22:00	49.38	2879.51
18:22:30	49.38	2876.45
18:23:30	49.38	2871.36
18:24:30	49.08	2866.36
18:25:00	48.93	651.09
.OPEN LUBRICATOR VALVE.		
18:25:30	48.93	590.23
18:26:00	48.78	590.23
18:26:30	48.63	589.83
18:27:30	48.33	588.41
18:28:00	48.18	587.96
18:28:30	48.18	587.92
18:29:00	48.18	595.85
18:29:30	48.03	602.08
18:30:00	48.03	601.12
.1ST. GRADIENT STOP IN LUBRICATOR.		
18:30:30	48.03	600.42
18:34:30	48.18	596.76
18:36:30	48.18	595.19
18:37:30	48.18	594.43
18:41:30	48.18	592.69
18:42:00	48.18	592.57
.RIH		
18:42:30	48.18	597.01
18:43:00	48.03	609.80
18:43:30	47.88	629.28
18:44:00	47.73	649.96
18:44:30	47.43	666.55
18:45:00	47.27	685.56
18:46:00	46.97	725.90
18:46:30	46.82	747.81
18:47:00	46.52	770.92
18:47:30	46.52	793.12
18:48:00	46.52	815.82
18:48:30	46.22	839.34
18:49:00	46.37	864.76
18:49:30	46.22	892.58
18:50:00	46.22	918.51
18:51:00	47.12	969.67

15-APR-84	SDT degF	SDP psia
18:51:30	48.33	994.61
18:52:00	50.13	1017.84
18:52:30	52.39	1039.70
18:53:30	57.50	1082.13
18:54:00	60.20	1103.27
18:54:30	63.06	1125.14
18:55:00	65.91	1147.71
18:55:30	68.61	1171.42
18:56:00	71.16	1195.96
18:56:30	73.85	1221.42
18:57:00	76.40	1247.62
18:57:30	78.95	1274.45
18:58:00	81.49	1301.77
18:59:00	86.13	1357.10
19:00:00	90.76	1413.85
19:00:30	92.86	1442.29
19:01:30	97.19	1500.66
19:02:00	98.98	1529.78
19:02:30	100.92	1559.43
19:03:30	104.65	1618.24
19:04:30	107.93	1677.31
19:05:30	111.20	1736.95
19:06:00	112.69	1765.58
19:07:00	115.82	1822.36
19:08:00	118.80	1879.46
19:08:30	120.28	1907.94
19:09:00	121.62	1935.95
19:09:30	122.96	1963.40
19:10:00	124.30	1991.14
19:11:00	126.82	2046.05
.2ND. GRADIENT STOP @ 1393.9mRKB.		
19:11:30	128.16	2072.43
19:12:00	129.35	2075.82
19:14:00	133.51	2078.43
19:15:00	135.14	2079.61
19:17:00	137.96	2082.18
19:21:00	141.66	2086.46
19:25:00	143.44	2088.72
19:26:00	143.89	2089.26
.RIH		
19:26:30	144.04	2089.45
19:27:00	144.04	2091.35
19:27:30	144.18	2109.62
19:29:30	144.92	2192.29
19:30:00	145.07	2206.41
19:34:00	146.85	2206.56
.3RD. GRADIENT STOP @ 1493.9mRKB.		
19:38:00	148.04	2207.35
19:42:00	148.63	2207.95
19:44:00	148.78	2208.14
19:44:30	148.78	2208.19
19:45:00	148.92	2208.80
.RIH		
19:45:00	148.92	2208.80
19:45:30	148.78	2214.76
19:46:00	148.92	2227.75
19:46:30	148.92	2244.82
19:47:00	149.07	2262.87
19:47:30	149.07	2281.78
19:48:00	149.07	2284.81
19:48:30	149.22	2285.14
19:50:30	149.66	2285.36

.HANG OF IN F-NIPPEL,SDP MP @ 1562.42mRKB

19:51:30	149.66	2285.12
19:52:00	149.81	2284.10
19:52:30	149.96	2282.01
19:53:00	149.96	2281.83
19:53:30	150.11	2282.61
19:55:30	150.40	2284.51
19:56:30	150.26	2284.68
19:57:00	150.55	2285.60
19:57:30	150.55	2286.55
19:58:00	150.55	2285.97
20:00:00	150.85	2285.26
20:04:00	151.00	2285.28
20:08:00	151.00	2285.42
20:10:00	151.14	2285.59

.WELL OPEN ON 12/64"ADJ.CHOKE, BEAM UP SLOWLY TO 32/64"ADJ.CHOKE.

[163] T0=15-APR-84 20:10:00

P0=2285.59

TIME 15-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
20:10:30	151.14	2283.78	0.0083	-2.0792	1.81	0.2587
20:11:00	151.14	2281.62	0.0167	-1.7782	3.97	0.5992
20:11:30	151.14	2277.49	0.0250	-1.6021	8.10	0.9084
20:12:00	151.14	2276.06	0.0333	-1.4771	9.53	0.9793
20:12:30	151.14	2272.93	0.0417	-1.3802	12.66	1.1025
20:13:00	151.14	2271.91	0.0500	-1.3010	13.68	1.1362
20:13:30	151.14	2268.38	0.0583	-1.2341	17.21	1.2359
20:14:00	151.29	2262.74	0.0667	-1.1761	22.85	1.3589
20:14:30	151.14	2241.97	0.0750	-1.1249	43.62	1.6396
20:15:00	151.14	2228.28	0.0833	-1.0792	57.31	1.7582
.CHANGE TO 32/64"FIX.CHOKE.						
20:15:00	151.14	2228.28	0.0833	-1.0792	57.31	1.7582
20:15:30	151.29	2210.29	0.0917	-1.0378	75.30	1.8768
20:16:00	151.29	2201.31	0.1000	-1.0000	84.28	1.9257
20:16:30	151.14	2194.77	0.1083	-0.9652	90.82	1.9582
20:17:00	151.29	2189.77	0.1167	-0.9331	95.82	1.9815
20:17:30	151.29	2189.04	0.1250	-0.9031	96.55	1.9847
20:18:00	151.29	2189.47	0.1333	-0.8751	96.12	1.9828
20:18:30	151.29	2184.78	0.1417	-0.8487	100.81	2.0035
20:19:00	151.44	2170.11	0.1500	-0.8239	115.48	2.0625
20:19:30	151.44	2166.38	0.1583	-0.8004	119.21	2.0763
20:20:00	151.59	2166.31	0.1667	-0.7782	119.28	2.0766
20:20:30	151.74	2165.41	0.1750	-0.7570	120.18	2.0798
20:21:00	151.74	2166.24	0.1833	-0.7368	119.35	2.0768
20:22:00	151.74	2170.05	0.2000	-0.6990	115.54	2.0627
20:22:30	151.88	2170.53	0.2083	-0.6812	115.06	2.0609
20:23:00	152.03	2168.54	0.2167	-0.6642	117.05	2.0684
20:23:30	152.03	2167.16	0.2250	-0.6478	118.43	2.0735
20:24:00	152.18	2167.42	0.2333	-0.6320	118.17	2.0725
20:24:30	152.18	2167.87	0.2417	-0.6168	117.72	2.0708
20:25:30	152.33	2167.98	0.2583	-0.5878	117.61	2.0705
20:26:00	152.48	2167.55	0.2667	-0.5740	118.04	2.0720
20:26:30	152.48	2167.68	0.2750	-0.5607	117.91	2.0716
20:27:00	152.62	2167.68	0.2833	-0.5477	117.91	2.0716
20:28:00	152.77	2168.61	0.3000	-0.5229	116.98	2.0681
20:29:00	152.77	2169.89	0.3167	-0.4994	115.70	2.0633
20:29:30	152.77	2168.70	0.3250	-0.4881	116.89	2.0678
20:30:00	152.92	2168.29	0.3333	-0.4771	117.30	2.0693
20:31:00	152.92	2169.19	0.3500	-0.4559	116.40	2.0659
20:31:30	153.07	2169.62	0.3583	-0.4457	115.97	2.0643
20:32:30	153.07	2168.86	0.3750	-0.4260	116.73	2.0672
20:33:00	153.22	2168.61	0.3833	-0.4164	116.98	2.0681
20:33:30	153.07	2167.50	0.3917	-0.4071	118.09	2.0722

TIME 15-APR-84	SIT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
20:34:30	153.22	2167.14	0.4083	-0.3890	118.45	2.0735
20:35:30	153.36	2167.33	0.4250	-0.3716	118.26	2.0728
20:36:00	153.36	2168.67	0.4333	-0.3632	116.92	2.0679
20:37:00	153.36	2168.50	0.4500	-0.3468	117.09	2.0685
20:37:30	153.51	2167.76	0.4583	-0.3388	117.83	2.0713
20:38:00	153.51	2165.14	0.4667	-0.3310	120.45	2.0808
20:38:30	153.51	2165.58	0.4750	-0.3233	120.01	2.0792
20:39:00	153.51	2167.83	0.4833	-0.3158	117.76	2.0710
20:39:30	153.51	2165.98	0.4917	-0.3083	119.61	2.0778
20:40:00	153.51	2163.31	0.5000	-0.3010	122.28	2.0873
20:40:30	153.51	2161.97	0.5083	-0.2939	123.62	2.0921
20:41:00	153.51	2162.94	0.5167	-0.2868	122.65	2.0887
20:41:30	153.51	2164.80	0.5250	-0.2798	120.79	2.0820
20:42:00	153.51	2166.37	0.5333	-0.2730	119.22	2.0764
20:42:30	153.51	2166.15	0.5417	-0.2663	119.45	2.0772
20:43:30	153.51	2163.68	0.5583	-0.2531	121.91	2.0861
20:44:30	153.66	2163.66	0.5750	-0.2403	121.93	2.0861
20:45:30	153.51	2165.19	0.5917	-0.2279	120.40	2.0806
20:46:00	153.51	2165.21	0.6000	-0.2218	120.38	2.0805
20:47:00	153.66	2166.02	0.6167	-0.2099	119.57	2.0776
20:47:30	153.66	2165.54	0.6250	-0.2041	120.05	2.0794
20:48:00	153.66	2165.46	0.6333	-0.1984	120.13	2.0796
20:49:00	153.66	2165.90	0.6500	-0.1871	119.69	2.0781
20:49:30	153.66	2165.46	0.6583	-0.1816	120.13	2.0796
20:50:00	153.66	2165.38	0.6667	-0.1761	120.21	2.0799
20:50:30	153.66	2165.86	0.6750	-0.1707	119.73	2.0782
20:51:00	153.66	2165.67	0.6833	-0.1654	119.92	2.0789
20:51:30	153.66	2165.25	0.6917	-0.1601	120.34	2.0804
20:52:30	153.66	2165.24	0.7083	-0.1498	120.35	2.0804
20:53:30	153.66	2165.62	0.7250	-0.1397	119.97	2.0791
20:54:30	153.66	2165.11	0.7417	-0.1298	120.48	2.0809
20:55:00	153.66	2164.65	0.7500	-0.1249	120.94	2.0826
20:55:30	153.66	2164.41	0.7583	-0.1201	121.18	2.0834
20:56:30	153.66	2165.18	0.7750	-0.1107	120.41	2.0807
20:57:00	153.66	2165.38	0.7833	-0.1061	120.21	2.0799
20:57:30	153.66	2165.14	0.7917	-0.1015	120.45	2.0808
20:58:30	153.66	2165.32	0.8083	-0.0924	120.27	2.0802
20:59:00	153.66	2164.83	0.8167	-0.0880	120.76	2.0819
20:59:30	153.66	2164.81	0.8250	-0.0835	120.78	2.0820
21:00:00	153.66	2165.34	0.8333	-0.0792	120.25	2.0801
21:01:00	153.66	2165.45	0.8500	-0.0706	120.14	2.0797
21:02:00	153.66	2165.06	0.8667	-0.0621	120.53	2.0811
21:02:30	153.66	2165.00	0.8750	-0.0580	120.59	2.0813
21:03:30	153.66	2165.80	0.8917	-0.0498	119.79	2.0784
21:04:30	153.66	2164.93	0.9083	-0.0418	120.66	2.0816
21:05:30	153.66	2164.89	0.9250	-0.0339	120.70	2.0817
21:06:30	153.66	2165.40	0.9417	-0.0261	120.19	2.0799
21:07:30	153.66	2165.41	0.9583	-0.0185	120.18	2.0798
21:08:00	153.66	2165.41	0.9667	-0.0147	120.18	2.0798
21:09:00	153.66	2165.02	0.9833	-0.0073	120.57	2.0812
21:11:00	153.81	2165.46	1.0167	0.0072	120.13	2.0796
21:12:00	153.66	2164.85	1.0333	0.0142	120.74	2.0818
21:12:30	153.66	2164.96	1.0417	0.0177	120.63	2.0815
21:13:00	153.66	2164.63	1.0500	0.0212	120.96	2.0826
21:14:00	153.81	2164.76	1.0667	0.0280	120.83	2.0822
21:14:30	153.81	2164.98	1.0750	0.0314	120.61	2.0814
21:16:30	153.66	2164.84	1.1083	0.0447	120.75	2.0819
21:17:00	153.66	2164.41	1.1167	0.0479	121.18	2.0834
21:18:00	153.81	2165.31	1.1333	0.0544	120.28	2.0802
21:18:30	153.66	2165.01	1.1417	0.0575	120.58	2.0813
21:19:00	153.66	2165.16	1.1500	0.0607	120.43	2.0807
21:20:00	153.66	2164.63	1.1667	0.0669	120.96	2.0826

TIME 15-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
21:20:30	153.66	2164.81	1.1750	0.0700	120.78	2.0820
21:21:30	153.66	2164.61	1.1917	0.0762	120.98	2.0827
21:22:00	153.81	2164.79	1.2000	0.0792	120.80	2.0821
21:22:30	153.66	2164.97	1.2083	0.0822	120.62	2.0814
21:23:30	153.66	2164.69	1.2250	0.0881	120.91	2.0824
21:24:30	153.66	2164.92	1.2417	0.0940	120.67	2.0816
21:25:30	153.66	2164.89	1.2583	0.0998	120.70	2.0817
21:26:30	153.81	2164.72	1.2750	0.1055	120.87	2.0823
21:27:00	153.66	2164.32	1.2833	0.1083	121.27	2.0837
21:28:00	153.81	2165.22	1.3000	0.1139	120.37	2.0805
21:29:00	153.81	2164.76	1.3167	0.1195	120.83	2.0822
21:31:00	153.66	2164.45	1.3500	0.1303	121.14	2.0833
21:32:00	153.66	2164.76	1.3667	0.1357	120.83	2.0822
21:32:30	153.81	2164.62	1.3750	0.1383	120.97	2.0827
21:33:30	153.81	2164.97	1.3917	0.1435	120.62	2.0814
21:34:00	153.66	2164.53	1.4000	0.1461	121.06	2.0830
21:35:00	153.81	2164.61	1.4167	0.1513	120.98	2.0827
21:35:30	153.81	2164.30	1.4250	0.1538	121.29	2.0838
21:36:00	153.66	2164.50	1.4333	0.1563	121.09	2.0831
21:36:30	153.66	2164.48	1.4417	0.1589	121.11	2.0832
21:37:00	153.66	2164.22	1.4500	0.1614	121.37	2.0841
21:37:30	153.66	2163.41	1.4583	0.1639	122.18	2.0870
21:38:00	153.66	2163.79	1.4667	0.1663	121.80	2.0856
21:38:30	153.81	2163.94	1.4750	0.1688	121.65	2.0851
21:39:00	153.66	2164.34	1.4833	0.1712	121.25	2.0837
21:39:30	153.66	2164.58	1.4917	0.1737	121.01	2.0828
21:40:30	153.81	2164.58	1.5083	0.1785	121.01	2.0828
21:41:00	153.66	2164.67	1.5167	0.1809	120.92	2.0825
21:42:00	153.66	2164.12	1.5333	0.1856	121.47	2.0845
21:42:30	153.66	2164.22	1.5417	0.1880	121.37	2.0841
21:43:00	153.66	2164.59	1.5500	0.1903	121.00	2.0828
21:43:30	153.66	2164.65	1.5583	0.1927	120.94	2.0826
21:44:30	153.66	2164.25	1.5750	0.1973	121.34	2.0840
21:45:00	153.66	2164.44	1.5833	0.1996	121.15	2.0833
21:46:00	153.81	2164.27	1.6000	0.2041	121.32	2.0839
21:47:00	153.66	2164.62	1.6167	0.2086	120.97	2.0827
21:47:30	153.66	2164.61	1.6250	0.2109	120.98	2.0827
21:48:00	153.66	2164.37	1.6333	0.2131	121.22	2.0836
21:49:00	153.66	2164.62	1.6500	0.2175	120.97	2.0827
21:50:00	153.81	2164.04	1.6667	0.2218	121.55	2.0848
21:51:00	153.66	2163.99	1.6833	0.2262	121.60	2.0849
21:51:30	153.66	2163.75	1.6917	0.2283	121.84	2.0858
21:53:30	153.66	2164.17	1.7250	0.2368	121.42	2.0843
21:54:30	153.66	2164.32	1.7417	0.2410	121.27	2.0837
21:55:30	153.66	2164.10	1.7583	0.2451	121.49	2.0845
21:56:00	153.66	2164.00	1.7667	0.2472	121.59	2.0849
21:56:30	153.66	2164.34	1.7750	0.2492	121.25	2.0837
21:57:00	153.66	2164.21	1.7833	0.2512	121.38	2.0842
21:59:00	153.66	2164.25	1.8167	0.2593	121.34	2.0840
22:00:00	153.66	2164.28	1.8333	0.2632	121.31	2.0839
.CHANGE TO 32/64"ADJ. CHOKE, BEAM UP SLOWLY TO 56/64"ADJ. CHOKE.						
22:00:30	153.66	2158.27	1.8417	0.2652	127.32	2.1049
22:01:30	153.66	2121.40	1.8583	0.2691	164.19	2.2153
22:02:30	153.66	2090.42	1.8750	0.2730	195.17	2.2904
22:03:00	153.66	2078.76	1.8833	0.2749	206.83	2.3156
22:03:30	153.51	2070.18	1.8917	0.2768	215.41	2.3333
22:04:00	153.66	2063.11	1.9000	0.2788	222.48	2.3473
22:04:30	153.66	2057.65	1.9083	0.2807	227.94	2.3578
22:05:00	153.66	2053.92	1.9167	0.2825	231.67	2.3649
22:05:30	153.66	2050.62	1.9250	0.2844	234.97	2.3710
22:06:00	153.66	2048.18	1.9333	0.2863	237.41	2.3755
22:07:00	153.81	2045.00	1.9500	0.2900	240.59	2.3813

TIME 15-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
22:07:30	153.66	2043.19	1.9583	0.2919	242.40	2.3845
22:08:00	153.81	2043.04	1.9667	0.2937	242.55	2.3848
22:09:00	153.66	2043.93	1.9833	0.2974	241.66	2.3832
22:10:00	153.81	2044.02	2.0000	0.3010	241.57	2.3830
22:11:00	153.66	2044.46	2.0167	0.3046	241.13	2.3823
22:12:00	153.81	2044.74	2.0333	0.3082	240.85	2.3817
22:12:30	153.81	2045.35	2.0417	0.3100	240.24	2.3806
22:13:00	153.81	2045.17	2.0500	0.3118	240.42	2.3810
22:13:30	153.81	2043.07	2.0583	0.3135	242.52	2.3847
22:14:00	153.81	2040.53	2.0667	0.3153	245.06	2.3893
22:14:30	153.96	2038.93	2.0750	0.3170	246.66	2.3921
22:15:00	153.81	2037.66	2.0833	0.3188	247.93	2.3943
22:15:30	153.81	2037.18	2.0917	0.3205	248.41	2.3952
22:16:30	153.96	2037.48	2.1083	0.3239	248.11	2.3946
22:17:00	153.96	2037.76	2.1167	0.3257	247.83	2.3941
22:17:30	153.96	2038.81	2.1250	0.3274	246.78	2.3923
22:18:30	153.81	2040.13	2.1417	0.3308	245.46	2.3900
22:20:30	153.96	2042.49	2.1750	0.3375	243.10	2.3858
22:22:30	153.96	2043.37	2.2083	0.3441	242.22	2.3842
22:24:30	153.96	2043.58	2.2417	0.3506	242.01	2.3838
22:25:30	153.96	2043.80	2.2583	0.3538	241.79	2.3834
22:27:30	153.96	2043.58	2.2917	0.3602	242.01	2.3838
22:29:30	154.10	2043.81	2.3250	0.3664	241.78	2.3834
22:30:00	153.96	2043.85	2.3333	0.3680	241.74	2.3833
.CHANGE TO 56/64"FIX.CHOKE.						
22:30:30	153.96	2042.67	2.3417	0.3695	242.92	2.3855
22:31:00	153.96	2042.38	2.3500	0.3711	243.21	2.3860
22:32:00	153.96	2042.74	2.3667	0.3741	242.85	2.3853
22:34:00	153.96	2042.54	2.4000	0.3802	243.05	2.3857
22:35:00	153.96	2042.42	2.4167	0.3832	243.17	2.3859
22:36:00	154.10	2042.20	2.4333	0.3862	243.39	2.3863
22:38:00	153.96	2042.09	2.4667	0.3921	243.50	2.3865
22:42:00	153.96	2041.67	2.5333	0.4037	243.92	2.3873
22:50:00	153.96	2041.24	2.6667	0.4260	244.35	2.3880
22:52:00	153.96	2041.12	2.7000	0.4314	244.47	2.3882
22:53:00	154.10	2041.07	2.7167	0.4340	244.52	2.3883
22:54:00	153.96	2041.08	2.7333	0.4367	244.51	2.3883
22:55:00	153.96	2040.81	2.7500	0.4393	244.78	2.3888
22:59:00	153.96	2040.62	2.8167	0.4497	244.97	2.3891
23:00:00	154.10	2040.56	2.8333	0.4523	245.03	2.3892
23:02:00	153.96	2040.36	2.8667	0.4574	245.23	2.3896
23:03:00	153.96	2040.41	2.8833	0.4599	245.18	2.3895
23:07:00	153.96	2039.92	2.9500	0.4698	245.67	2.3903
23:09:00	153.96	2039.64	2.9833	0.4747	245.95	2.3909
23:10:00	153.96	2039.71	3.0000	0.4771	245.88	2.3907
23:14:00	153.96	2039.12	3.0667	0.4867	246.47	2.3918
23:22:00	153.96	2038.73	3.2000	0.5051	246.86	2.3924
23:24:00	153.96	2038.75	3.2333	0.5097	246.84	2.3924
23:26:00	153.96	2038.29	3.2667	0.5141	247.30	2.3932
23:26:30	153.96	2039.11	3.2750	0.5152	246.48	2.3918
23:27:00	153.96	2040.21	3.2833	0.5163	245.38	2.3898
23:27:30	153.96	2040.53	3.2917	0.5174	245.06	2.3893
23:28:30	153.96	2039.28	3.3083	0.5196	246.31	2.3915
23:29:30	153.96	2038.54	3.3250	0.5218	247.05	2.3928
23:30:00	153.96	2038.27	3.3333	0.5229	247.32	2.3933
23:38:00	154.10	2037.34	3.4667	0.5399	248.25	2.3949
23:46:00	153.96	2037.01	3.6000	0.5563	248.58	2.3955
23:54:00	153.81	2036.25	3.7333	0.5721	249.34	2.3968
23:58:00	153.96	2036.19	3.8000	0.5798	249.40	2.3969
00:00:00	153.81	2035.94	3.8333	0.5836	249.65	2.3973
.CHANGE TO 56/64"ADJ.CHOKE, BEAM UP SLOWLY TO 112/64"FIX.CHOKE.						
00:00:30	153.96	2034.75	3.8417	0.5845	250.84	2.3994

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
00:01:00	154.10	2035.02	3.8500	0.5855	250.57	2.3989
00:01:30	153.96	2029.92	3.8583	0.5864	255.67	2.4077
00:02:00	153.96	2017.78	3.8667	0.5873	267.81	2.4278
00:02:30	154.10	2004.95	3.8750	0.5883	280.64	2.4482
00:03:00	153.96	1993.83	3.8833	0.5892	291.76	2.4650
00:03:30	153.96	1985.04	3.8917	0.5901	300.55	2.4779
00:04:30	153.96	1970.85	3.9083	0.5920	314.74	2.4979
00:05:00	153.96	1955.39	3.9167	0.5929	320.20	2.5054
.AT 112/64"FIX.CHOKE.						
00:05:30	153.96	1961.51	3.9250	0.5938	324.08	2.5107
00:06:30	153.96	1953.31	3.9417	0.5957	332.28	2.5215
00:07:00	153.96	1947.17	3.9500	0.5966	338.42	2.5295
00:07:30	153.96	1939.70	3.9583	0.5975	345.89	2.5389
00:08:00	153.96	1932.77	3.9667	0.5984	352.82	2.5476
00:08:30	153.96	1926.52	3.9750	0.5993	359.07	2.5552
00:09:00	153.96	1921.71	3.9833	0.6002	363.88	2.5610
00:09:30	153.96	1918.21	3.9917	0.6012	367.38	2.5651
00:10:00	153.96	1915.77	4.0000	0.6021	369.82	2.5680
00:10:30	154.10	1914.15	4.0083	0.6030	371.44	2.5699
00:11:00	154.10	1913.19	4.0167	0.6039	372.40	2.5710
00:11:30	154.10	1912.74	4.0250	0.6048	372.85	2.5715
00:12:00	153.96	1912.61	4.0333	0.6057	372.98	2.5717
00:13:00	153.96	1913.56	4.0500	0.6075	372.03	2.5706
00:13:30	154.10	1914.24	4.0583	0.6083	371.35	2.5698
00:14:30	154.10	1915.83	4.0750	0.6101	369.76	2.5679
00:18:30	154.25	1920.66	4.1417	0.6172	364.93	2.5622
00:19:30	154.10	1921.35	4.1583	0.6189	364.24	2.5614
00:20:30	154.10	1921.83	4.1750	0.6207	363.76	2.5608
00:21:30	154.10	1922.05	4.1917	0.6224	363.54	2.5606
00:23:30	154.10	1921.72	4.2250	0.6258	363.87	2.5609
00:25:30	154.10	1920.97	4.2583	0.6292	364.62	2.5618
00:26:30	154.25	1920.87	4.2750	0.6309	364.72	2.5620
00:30:30	154.10	1918.79	4.3417	0.6377	366.80	2.5644
00:31:30	154.25	1918.67	4.3583	0.6393	366.92	2.5646
00:33:30	154.25	1919.20	4.3917	0.6426	366.39	2.5639
00:35:30	154.10	1918.58	4.4250	0.6459	367.01	2.5647
00:36:00	154.25	1918.49	4.4333	0.6467	367.10	2.5648
.CHANGE TO 128/64"FIX.CHOKE						
00:37:00	154.25	1916.94	4.4500	0.6484	368.65	2.5666
00:38:00	154.25	1915.86	4.4667	0.6500	369.73	2.5679
00:39:00	154.25	1915.22	4.4833	0.6516	370.37	2.5686
00:40:00	154.25	1914.24	4.5000	0.6532	371.35	2.5698
00:44:00	154.25	1913.20	4.5667	0.6596	372.39	2.5710
00:45:00	154.10	1912.87	4.5833	0.6612	372.72	2.5714
00:46:00	154.25	1913.16	4.6000	0.6628	372.43	2.5710
00:47:00	154.25	1912.92	4.6167	0.6643	372.67	2.5713
00:48:00	154.10	1912.82	4.6333	0.6659	372.77	2.5714
00:48:30	154.25	1912.98	4.6417	0.6667	372.61	2.5713
00:49:30	154.25	1912.50	4.6583	0.6682	373.09	2.5718
00:51:30	154.10	1911.97	4.6917	0.6713	373.62	2.5724
00:53:30	154.25	1911.43	4.7250	0.6744	374.17	2.5731
00:54:00	154.25	1911.48	4.7333	0.6752	374.11	2.5730
00:56:00	154.25	1911.01	4.7667	0.6782	374.58	2.5735
01:00:00	154.25	1909.72	4.8333	0.6842	375.87	2.5750
01:01:00	154.40	1909.81	4.8500	0.6857	375.78	2.5749
01:03:00	154.25	1909.16	4.8833	0.6887	376.43	2.5757
01:03:30	154.25	1908.94	4.8917	0.6895	376.65	2.5759
01:04:00	154.25	1909.10	4.9000	0.6902	376.49	2.5758
01:08:00	154.25	1908.74	4.9667	0.6961	376.85	2.5762
01:10:00	154.25	1908.32	5.0000	0.6990	377.27	2.5766
01:11:00	154.25	1907.85	5.0167	0.7004	377.74	2.5772
01:12:00	154.25	1907.63	5.0333	0.7019	377.96	2.5775

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
01:13:00	154.10	1907.02	5.0500	0.7033	378.57	2.5781
01:15:00	154.25	1906.86	5.0833	0.7061	378.73	2.5783
01:17:00	154.25	1906.24	5.1167	0.7090	379.35	2.5790
01:18:00	154.40	1906.15	5.1333	0.7104	379.44	2.5791
01:19:00	154.25	1905.51	5.1500	0.7118	380.08	2.5799
01:20:00	154.25	1905.39	5.1667	0.7132	380.20	2.5800
01:20:30	154.25	1905.31	5.1750	0.7139	380.28	2.5801
01:21:30	154.25	1904.81	5.1917	0.7153	380.78	2.5807
01:23:30	154.25	1904.74	5.2250	0.7181	380.85	2.5807
01:25:30	154.25	1904.46	5.2583	0.7208	381.13	2.5811
01:27:30	154.25	1903.92	5.2917	0.7236	381.67	2.5817
01:29:30	154.25	1903.61	5.3250	0.7263	381.98	2.5820
01:31:30	154.25	1903.08	5.3583	0.7290	382.51	2.5826
01:33:30	154.25	1902.95	5.3917	0.7317	382.64	2.5828
01:37:30	154.25	1901.95	5.4583	0.7371	383.64	2.5839
01:45:30	154.10	1900.57	5.5917	0.7475	385.02	2.5855
01:47:30	154.25	1900.34	5.6250	0.7501	385.25	2.5857
01:48:30	154.25	1900.25	5.6417	0.7514	385.34	2.5858
01:49:30	154.25	1899.69	5.6583	0.7527	385.90	2.5865
01:50:30	154.40	1899.73	5.6750	0.7540	385.86	2.5864
01:51:30	154.25	1899.27	5.6917	0.7552	386.32	2.5870
01:52:00	154.25	1898.99	5.7000	0.7559	386.60	2.5873
01:53:00	154.40	1899.29	5.7167	0.7571	386.30	2.5869
01:55:00	154.25	1898.88	5.7500	0.7597	386.71	2.5874
01:57:00	154.25	1898.98	5.7833	0.7622	386.61	2.5873
01:59:00	154.25	1898.34	5.8167	0.7647	387.25	2.5880
02:01:00	154.25	1898.22	5.8500	0.7672	387.37	2.5881
02:02:00	154.40	1898.27	5.8667	0.7684	387.32	2.5881
02:10:00	154.25	1896.47	6.0000	0.7782	389.12	2.5901
02:11:00	154.25	1895.98	6.0167	0.7794	389.61	2.5906
02:12:00	154.25	1895.85	6.0333	0.7806	389.74	2.5908
02:12:30	154.25	1895.78	6.0417	0.7812	389.81	2.5909
02:13:30	154.40	1895.38	6.0583	0.7824	390.21	2.5913
02:15:30	154.25	1895.07	6.0917	0.7847	390.52	2.5916
02:16:30	154.25	1895.01	6.1083	0.7859	390.58	2.5917
02:17:30	154.10	1894.45	6.1250	0.7871	391.15	2.5923
02:18:00	154.25	1894.56	6.1333	0.7877	391.03	2.5922
02:19:00	154.25	1893.97	6.1500	0.7889	391.62	2.5929
02:21:00	154.25	1893.81	6.1833	0.7912	391.78	2.5930
02:22:00	154.25	1893.50	6.2000	0.7924	392.09	2.5934
02:23:00	154.25	1893.57	6.2167	0.7936	392.02	2.5933
02:25:00	154.25	1892.57	6.2500	0.7959	393.02	2.5944
02:26:00	154.25	1892.12	6.2667	0.7970	393.47	2.5949
02:27:00	154.25	1892.09	6.2833	0.7982	393.50	2.5949
02:27:30	154.25	1892.03	6.2917	0.7988	393.56	2.5950
02:28:00	154.25	1891.64	6.3000	0.7993	393.95	2.5954
02:30:00	154.25	1891.31	6.3333	0.8016	394.28	2.5958
02:31:00	154.25	1891.18	6.3500	0.8028	394.41	2.5960
02:33:00	154.25	1890.34	6.3833	0.8050	395.25	2.5969
02:34:00	154.25	1889.72	6.4000	0.8062	395.87	2.5976
02:34:30	154.25	1889.35	6.4083	0.8067	396.24	2.5980
02:35:00	154.25	1888.57	6.4167	0.8073	397.02	2.5988
02:36:00	154.25	1887.64	6.4333	0.8084	397.95	2.5998
02:37:00	154.25	1887.13	6.4500	0.8096	398.46	2.6004
02:38:00	154.25	1886.87	6.4667	0.8107	398.72	2.6007
02:40:00	154.25	1887.40	6.5000	0.8129	398.19	2.6001
02:41:00	154.25	1887.80	6.5167	0.8140	397.79	2.5996
02:43:00	154.25	1887.40	6.5500	0.8162	398.19	2.6001
02:44:00	154.40	1887.08	6.5667	0.8173	398.51	2.6004
02:48:00	154.25	1886.72	6.6333	0.8217	398.87	2.6008
02:52:00	154.25	1885.78	6.7000	0.8261	399.81	2.6019
02:54:00	154.25	1885.74	6.7333	0.8282	399.85	2.6019

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
02:56:00	154.25	1885.19	6.7867	0.8304	400.40	2.6025
02:58:00	154.25	1885.00	6.8000	0.8325	400.59	2.6027
02:59:00	154.40	1885.22	6.8167	0.8336	400.37	2.6025
03:03:00	154.25	1883.99	6.8833	0.8378	401.60	2.6038
03:03:30	154.25	1883.86	6.8917	0.8383	401.73	2.6039
03:04:30	154.25	1884.59	6.9083	0.8394	401.00	2.6031
03:05:30	154.25	1885.57	6.9250	0.8404	400.02	2.6021
03:06:00	154.25	1885.91	6.9333	0.8409	399.69	2.6017
03:08:00	154.25	1885.87	6.9667	0.8430	399.72	2.6018
03:12:00	154.25	1885.39	7.0333	0.8472	400.20	2.6023
03:13:00	154.25	1885.40	7.0500	0.8482	400.19	2.6023
03:13:30	154.25	1885.50	7.0583	0.8487	400.09	2.6022
03:14:30	154.25	1885.30	7.0750	0.8497	400.29	2.6024
03:15:30	154.25	1885.32	7.0917	0.8507	400.27	2.6023
03:16:30	154.25	1884.73	7.1083	0.8518	400.86	2.6030
03:17:30	154.25	1884.61	7.1250	0.8528	400.98	2.6031
03:21:30	154.40	1883.41	7.1917	0.8568	402.18	2.6044
03:23:30	154.25	1883.01	7.2250	0.8588	402.58	2.6049
03:25:30	154.25	1883.31	7.2583	0.8608	402.28	2.6045
03:26:30	154.25	1883.37	7.2750	0.8618	402.22	2.6045
03:27:30	154.25	1882.84	7.2917	0.8628	402.75	2.6050
03:29:30	154.25	1882.55	7.3250	0.8648	403.04	2.6054
03:30:30	154.25	1882.34	7.3417	0.8658	403.25	2.6056
03:31:30	154.25	1882.39	7.3583	0.8668	403.20	2.6055
03:32:00	154.25	1883.18	7.3667	0.8673	402.41	2.6047
03:36:00	154.25	1882.48	7.4333	0.8712	403.11	2.6054
03:37:00	154.25	1882.07	7.4500	0.8722	403.52	2.6059
03:39:00	154.25	1881.81	7.4833	0.8741	403.78	2.6061
03:40:00	154.25	1881.64	7.5000	0.8751	403.95	2.6063
03:40:30	154.25	1881.77	7.5083	0.8755	403.82	2.6062
03:42:30	154.25	1881.65	7.5417	0.8775	403.94	2.6063
03:43:30	154.25	1881.58	7.5583	0.8784	404.01	2.6064
03:44:30	154.25	1881.23	7.5750	0.8794	404.36	2.6068
03:45:30	154.25	1881.42	7.5917	0.8803	404.17	2.6066
03:46:30	154.25	1881.24	7.6083	0.8813	404.35	2.6068
03:47:30	154.25	1881.29	7.6250	0.8822	404.30	2.6067
03:51:30	154.25	1880.84	7.6917	0.8860	404.75	2.6072
03:53:30	154.25	1880.83	7.7250	0.8879	404.76	2.6072
03:55:30	154.25	1880.56	7.7583	0.8898	405.03	2.6075
03:57:30	154.25	1880.53	7.7917	0.8916	405.06	2.6075
04:01:30	154.25	1879.79	7.8583	0.8953	405.80	2.6083
04:03:30	154.25	1879.16	7.8917	0.8972	406.43	2.6090
04:05:30	154.25	1878.99	7.9250	0.8990	406.60	2.6092
04:06:30	154.25	1878.98	7.9417	0.8999	406.61	2.6092
04:07:30	154.25	1878.63	7.9583	0.9008	406.96	2.6096
04:09:30	154.25	1878.71	7.9917	0.9026	406.88	2.6095
04:13:30	154.25	1878.11	8.0583	0.9062	407.48	2.6101
04:14:30	154.25	1877.83	8.0750	0.9071	407.76	2.6104
04:15:30	154.25	1877.91	8.0917	0.9080	407.68	2.6103
04:16:00	154.25	1877.98	8.1000	0.9085	407.61	2.6102
04:17:00	154.25	1877.67	8.1167	0.9094	407.92	2.6106
04:17:30	154.25	1877.18	8.1250	0.9098	408.41	2.6111
04:18:30	154.10	1876.77	8.1417	0.9107	408.82	2.6115
04:19:30	154.25	1876.86	8.1583	0.9116	408.73	2.6114
04:20:00	154.10	1876.81	8.1667	0.9120	408.78	2.6115
04:21:00	154.25	1876.34	8.1833	0.9129	409.25	2.6120
04:23:00	154.25	1875.74	8.2167	0.9147	409.85	2.6126
04:23:30	154.25	1875.57	8.2250	0.9151	410.02	2.6128
04:24:30	154.25	1875.70	8.2417	0.9160	409.89	2.6127
04:26:30	154.10	1875.26	8.2750	0.9178	410.33	2.6131
04:27:30	154.25	1875.05	8.2917	0.9186	410.54	2.6134
04:28:30	154.25	1875.21	8.3083	0.9195	410.38	2.6132

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
04:29:00	154.40	1875.27	8.3167	0.9199	410.32	2.6131
04:29:30	154.25	1874.61	8.3250	0.9204	410.98	2.6138
04:30:30	154.10	1874.08	8.3417	0.9213	411.51	2.6144
04:31:00	154.25	1874.09	8.3500	0.9217	411.50	2.6144
04:31:30	154.25	1873.71	8.3583	0.9221	411.88	2.6148
04:33:30	154.25	1873.64	8.3917	0.9238	411.95	2.6148
04:34:00	154.25	1873.63	8.4000	0.9243	411.96	2.6149
04:34:30	154.25	1873.26	8.4083	0.9247	412.33	2.6153
04:35:30	154.25	1873.22	8.4250	0.9256	412.37	2.6153
04:36:00	154.25	1873.55	8.4333	0.9260	412.04	2.6149
04:38:00	154.40	1873.60	8.4667	0.9277	411.99	2.6149
04:38:30	154.25	1872.66	8.4750	0.9281	412.93	2.6159
04:39:30	154.25	1872.25	8.4917	0.9290	413.34	2.6163
04:43:30	154.25	1871.83	8.5583	0.9324	413.76	2.6167
04:44:30	154.25	1871.68	8.5750	0.9332	413.91	2.6169
04:45:00	154.25	1871.72	8.5833	0.9337	413.87	2.6169
04:46:00	154.25	1871.28	8.6000	0.9345	414.31	2.6173
04:50:00	154.25	1870.53	8.6667	0.9379	415.06	2.6181
04:52:00	154.25	1870.52	8.7000	0.9395	415.07	2.6181
04:53:00	154.25	1870.28	8.7167	0.9404	415.31	2.6184
04:54:00	154.25	1870.28	8.7333	0.9412	415.31	2.6184
04:55:00	154.25	1869.95	8.7500	0.9420	415.64	2.6187
04:57:00	154.25	1869.99	8.7833	0.9437	415.60	2.6187
04:59:00	154.25	1869.66	8.8167	0.9453	415.93	2.6190
05:01:00	154.25	1868.98	8.8500	0.9469	416.61	2.6197
05:03:00	154.25	1868.82	8.8833	0.9486	416.77	2.6199
05:04:00	154.25	1868.64	8.9000	0.9494	416.95	2.6201
05:04:30	154.25	1868.50	8.9083	0.9498	417.09	2.6202
05:05:00	154.25	1868.09	8.9167	0.9502	417.50	2.6207
05:06:00	154.25	1867.87	8.9333	0.9510	417.72	2.6209
05:08:00	154.25	1867.00	8.9667	0.9526	418.59	2.6218
05:09:00	154.25	1866.86	8.9833	0.9534	418.73	2.6219
05:10:00	154.25	1867.00	9.0000	0.9542	418.59	2.6218
05:12:00	154.25	1866.55	9.0333	0.9558	419.04	2.6223
05:16:00	154.25	1866.17	9.1000	0.9590	419.42	2.6226
05:18:00	154.10	1865.84	9.1333	0.9606	419.75	2.6230
05:19:00	154.25	1866.16	9.1500	0.9614	419.43	2.6227
05:23:00	154.25	1865.86	9.2167	0.9646	419.73	2.6230
05:25:00	154.25	1865.71	9.2500	0.9661	419.88	2.6231
05:27:00	154.25	1865.22	9.2833	0.9677	420.37	2.6236
05:29:00	154.25	1865.01	9.3167	0.9693	420.58	2.6238
05:31:00	154.25	1864.38	9.3500	0.9708	421.21	2.6245
05:32:00	154.25	1864.16	9.3667	0.9716	421.43	2.6247
05:33:00	154.10	1864.12	9.3833	0.9724	421.47	2.6248
05:34:00	154.25	1863.99	9.4000	0.9731	421.60	2.6249
05:35:00	154.10	1864.03	9.4167	0.9739	421.56	2.6249
05:39:00	154.25	1863.50	9.4833	0.9770	422.09	2.6254
05:41:00	154.25	1863.02	9.5167	0.9785	422.57	2.6259
05:45:00	154.10	1862.53	9.5833	0.9815	423.06	2.6264
05:46:00	154.25	1862.66	9.6000	0.9823	422.93	2.6263
05:47:00	154.25	1862.34	9.6167	0.9830	423.25	2.6266
05:48:00	154.25	1862.35	9.6333	0.9838	423.24	2.6266
05:52:00	154.25	1861.24	9.7000	0.9868	424.35	2.6277
05:54:00	154.25	1860.59	9.7333	0.9883	425.00	2.6284
05:54:30	154.25	1860.37	9.7417	0.9886	425.22	2.6286
05:55:30	154.25	1860.49	9.7583	0.9894	425.10	2.6285
05:57:30	154.25	1860.28	9.7917	0.9909	425.31	2.6287
05:58:30	154.25	1860.61	9.8083	0.9916	424.98	2.6284
05:59:30	154.25	1860.66	9.8250	0.9923	424.93	2.6283
06:01:30	154.25	1860.05	9.8583	0.9938	425.54	2.6289
06:02:30	154.10	1860.02	9.8750	0.9945	425.57	2.6290
06:03:30	154.10	1859.83	9.8917	0.9953	425.76	2.6292

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
06:04:30	154.25	1850.14	9.9083	0.9960	425.45	2.6288
06:06:30	154.25	1859.80	9.9417	0.9975	425.79	2.6292
06:07:30	154.25	1859.33	9.9583	0.9982	426.26	2.6297
06:09:30	154.25	1859.13	9.9917	0.9996	426.46	2.6299
06:11:30	154.25	1859.18	10.0250	1.0011	426.41	2.6298
06:15:30	154.10	1858.58	10.0917	1.0040	427.01	2.6304
06:19:30	154.25	1857.94	10.1583	1.0068	427.65	2.6311
06:23:30	154.25	1857.56	10.2250	1.0097	428.03	2.6315
06:25:30	154.25	1857.26	10.2583	1.0111	428.33	2.6318
06:26:00	154.10	1857.01	10.2667	1.0114	428.58	2.6320
06:27:00	154.10	1857.10	10.2833	1.0121	428.49	2.6319
06:28:00	154.25	1856.90	10.3000	1.0128	428.69	2.6321
06:32:00	154.10	1856.47	10.3667	1.0156	429.12	2.6326
06:34:00	154.10	1856.19	10.4000	1.0170	429.40	2.6329
06:35:00	154.10	1855.99	10.4167	1.0177	429.60	2.6331
06:35:30	154.25	1856.04	10.4250	1.0181	429.55	2.6330
06:36:00	154.10	1856.50	10.4333	1.0184	429.09	2.6326

.SHUT IN WELL AT PCT-VALVE FOR BUILD UP.

TIME 16-APR-84	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)	L(Horn)
06:36:30	154.25	1870.58	0.0000	-5.0000	0.00	-3.0683	5.9542
06:37:00	154.10	2279.92	0.0083	-2.0792	409.34	2.6121	3.0338
06:37:30	154.25	2289.59	0.0167	-1.7782	419.01	2.6222	2.7332
06:38:00	154.25	2291.95	0.0250	-1.6021	421.37	2.6247	2.5575
06:38:30	154.40	2292.95	0.0333	-1.4771	422.37	2.6257	2.4330
06:39:30	154.55	2293.54	0.0500	-1.3010	422.96	2.6263	2.2577
06:55:30	154.25	2294.25	0.3167	-0.4994	423.67	2.6270	1.4687
07:03:30	154.25	2294.45	0.4500	-0.3468	423.87	2.6272	1.3222
07:19:30	153.66	2294.66	0.7167	-0.1447	424.08	2.6274	1.1322
07:51:30	153.22	2294.89	1.2500	0.0969	424.31	2.6277	0.9138
08:23:30	153.22	2295.24	1.7833	0.2512	424.66	2.6280	0.7815
08:39:30	153.22	2295.34	2.0500	0.3118	424.76	2.6281	0.7316
08:40:30	153.22	2295.36	2.0667	0.3153	424.78	2.6282	0.7287

.OPEN PCT-VALVE,END OF BUILD UP.

16-APR-84	SDT degF	SDP psia
08:41:30	153.07	1402.23
08:42:00	153.07	1517.64
08:42:30	153.22	1612.88
08:43:00	153.22	1695.98
08:43:30	153.22	1778.48
08:44:00	153.36	1855.01
08:44:30	153.36	1935.60
08:45:00	153.51	2012.75
08:45:30	153.66	2083.75
08:46:00	153.66	2146.13
08:46:30	153.81	2197.07
08:47:00	153.81	2236.16
08:47:30	153.96	2260.88
08:48:00	153.96	2273.95
08:48:30	153.96	2280.47
08:49:00	154.10	2284.37
08:49:30	153.96	2286.39
08:50:00	153.96	2287.79

[195] START TIME:16-APR-84 08:41:00

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16-APR-84	SDT degF	SDP psia
08:50:30	154.10	2288.86
08:51:30	154.10	2290.05
08:52:00	154.10	2290.54
08:53:00	153.96	2290.84
08:53:30	154.10	2291.23
08:54:00	154.10	2288.05
08:54:30	154.10	2289.62
08:55:00	154.10	2290.59
.POOH WITH GAUGES.		
08:55:00	154.10	2290.59
08:55:30	154.10	2291.07
08:56:00	153.96	2280.42
08:56:30	153.81	2260.23
08:57:00	153.81	2237.71
08:57:30	153.81	2212.25
08:58:00	153.66	2210.14
.1ST. GRADIENT STOP @ 1493.9mRKB.		
08:58:00	153.66	2210.14
08:58:30	153.51	2213.36
09:00:30	153.07	2213.89
09:02:30	152.62	2214.08
09:06:30	152.03	2214.06
09:10:30	151.59	2213.84
09:12:30	151.44	2213.75
.POOH.		
09:13:30	151.29	2213.65
09:14:00	151.14	2210.69
09:14:30	151.29	2187.33
09:15:00	151.14	2159.76
09:16:00	150.85	2103.75
.2ND. GRADIENT STOP @ 1393.9mRKB.		

[211] START TIME:16APR -84 08:41:00

16-APR-84	SDT degF	SDP psia
09:16:00	150.85	2103.75
09:16:30	150.70	2090.02
09:17:00	150.70	2096.33
09:19:00	150.11	2096.76
09:21:00	149.52	2096.75
09:23:00	149.22	2096.68
09:25:00	148.78	2096.26
09:25:30	148.78	2096.40
09:29:30	148.33	2095.57
.POOH		
09:29:30	148.33	2095.57
09:31:30	148.18	2095.26
09:32:30	148.04	2095.04
09:33:00	148.04	2077.45
09:33:30	147.89	2048.48
09:34:00	147.89	2019.88
09:34:30	147.89	1990.95
09:35:00	147.59	1962.02
09:35:30	147.44	1932.95
09:37:30	146.41	1817.33
09:38:30	145.67	1759.40
09:39:30	144.63	1701.48
09:40:00	144.33	1673.21
09:41:00	143.15	1616.63
09:42:00	141.96	1559.40

16-APR-84	SDT degF	SDP psia
09:42:30	141.22	1530.37
09:43:30	140.13	1474.07
09:44:00	139.44	1445.77
09:45:00	137.96	1390.14
09:45:30	137.36	1362.69
09:46:00	136.62	1336.39
09:46:30	135.73	1309.60
09:47:00	134.84	1286.65
09:47:30	134.10	1265.77
09:48:00	133.21	1245.75
09:48:30	132.47	1226.15
09:49:00	131.58	1205.68
09:50:00	129.65	1163.96
09:50:30	128.90	1143.69
09:51:00	128.01	1124.86
09:51:30	126.97	1105.04
09:52:00	125.78	1080.80
09:52:30	124.45	1054.51
09:53:00	120.88	1019.53
09:53:30	117.31	984.04
09:54:00	113.59	958.05
09:54:30	109.71	932.50
09:55:00	105.99	900.59
09:55:30	102.26	867.85
09:56:00	98.83	848.16
09:56:30	95.25	834.24
09:57:00	92.11	821.05
09:57:30	88.97	805.14
09:58:00	86.13	787.78
09:58:30	83.44	768.43
09:59:00	80.74	748.84
.3RD. GRADIENT STOP IN LUBRICATOR.		
09:59:30	78.35	732.65
10:00:30	74.45	730.94
10:01:00	72.65	729.80
10:02:00	69.81	727.19
10:06:00	62.45	716.14
10:08:00	60.35	712.34
10:09:00	59.60	710.84
10:11:00	58.55	708.66
10:12:00	57.95	707.63
10:14:00	57.20	706.46
10:15:00	57.05	706.00
10:15:30	56.75	702.18
10:16:00	56.60	701.94
.CLOSE LUBRICATOR VALVE, BLEED OFF.		
10:16:00	56.60	701.94
10:16:30	56.45	691.84
10:17:00	56.15	571.93
10:17:30	55.85	412.50
10:18:00	55.55	305.69
10:18:30	55.09	140.10
10:19:00	54.34	79.78
10:19:30	53.59	61.12
10:20:00	52.69	59.76
10:20:30	51.94	60.28
10:21:00	51.19	60.35
10:21:30	50.58	60.18
10:22:00	49.98	54.11
10:22:30	49.23	51.61
10:23:00	48.78	48.43
10:24:00	47.58	36.69

16-APR-84	SDT degF	SDP psia
10:24:30	47.12	32.15
10:25:00	46.67	29.10
10:25:30	46.37	26.96
10:26:00	46.07	20.96
10:27:00	45.47	20.00
10:31:00	43.96	17.90
10:33:00	43.51	17.26
10:37:00	42.91	16.82
10:37:30	42.61	16.70
10:38:00	42.76	17.08
10:38:30	42.61	16.92
10:39:00	42.61	17.32
10:40:00	42.46	16.62
10:41:00	42.61	16.59
10:43:00	42.61	15.79
10:45:00	42.76	15.31

.END OF RECORDING TIME.

TECHNICAL DATA

GAUGE

Type : SDP, STRAIN GAUGE
Transducer module : 83117
Recorder module : 84127

OPERATION SET UP

Delay time : 1 MIN.
Scanning rate : 30 SEC.
Averaging : 16
Relative values : USED
Compression algorithm : GSED
Compression level : 8

CALIBRATION DATA

Before job:

Ambiant pressure : 15.3 PSIA
Ambiant Temperature : 16.25 °C

After job:

Ambiant pressure : 15.3 PSIA
Ambiant temperature : 5.98 °C

Date last calibration : 27.02.84