

# FLOPET

Denne rapport  
tilhører



L&U DOK. SENTER

L. NR. 20088360010

KODE well 31/2-12 nr 8

Returneres etter bruk

## HIGH ACCURACY PRESSURE TEMPERATURE MEASUREMENTS

Company : NORSKE SHELL      Country : NORWAY

Field : TROLL      Well : 31/2-12

Zone : UPPER JURASSIC      Date : 28.08.83

FLOPETROL JOHNSTON

Schlumberger

# FLOPETROL

DISTRICT : EMR / NSD  
BASE : NWB  
REPORT No. : ELS 83.49 A

## HIGH ACCURACY PRESSURE TEMPERATURE MEASUREMENTS

Company : NORSKE SHELL      Country : NORWAY  
Field : TROLL                      Well : 31/2-12  
Zone : UPPER JURASSIC          Date : 28.08.83

PERF. INT. : 1385 - 1405 m RKB  
DEPTH: 1367.00 m RKB  
GAUGE: CRG 82814

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GENERAL INFORMATION

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1.1 service :SDP CRG PRESSURE AND TEMPERATURE SURVEY  
1.2 company :NORSKE SHELL  
1.3 well :31/2-12  
1.4 field :TROLL  
1.6 country :NORWAY  
1.7 tested zone :UPPER JURASSIC

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OPERATION DATA

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2.1 date of test :28-AUG-83  
2.2 report nbr. :ELS 83.49 A  
2.3 base :NWB  
2.4 district :EMR / NSD  
2.5 recorded by :A. ENGEBAKKEN  
2.6 witnessed by :N. CRAWLEY

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EQUIPMENT DATA

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3.3 surface equipt. :PCS-B AND HP-9876A  
3.4 downhole equipt. :CRG # 82814

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DEPTH INFORMATION

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4.1 depth unit :METERS  
4.11 gauge set at :1367.00 M RKB

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WELL DATA

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5.1 well type :EXPLORATION  
5.2 fluid type :GAS  
5.5 production interval :1385 - 1405 M RKB

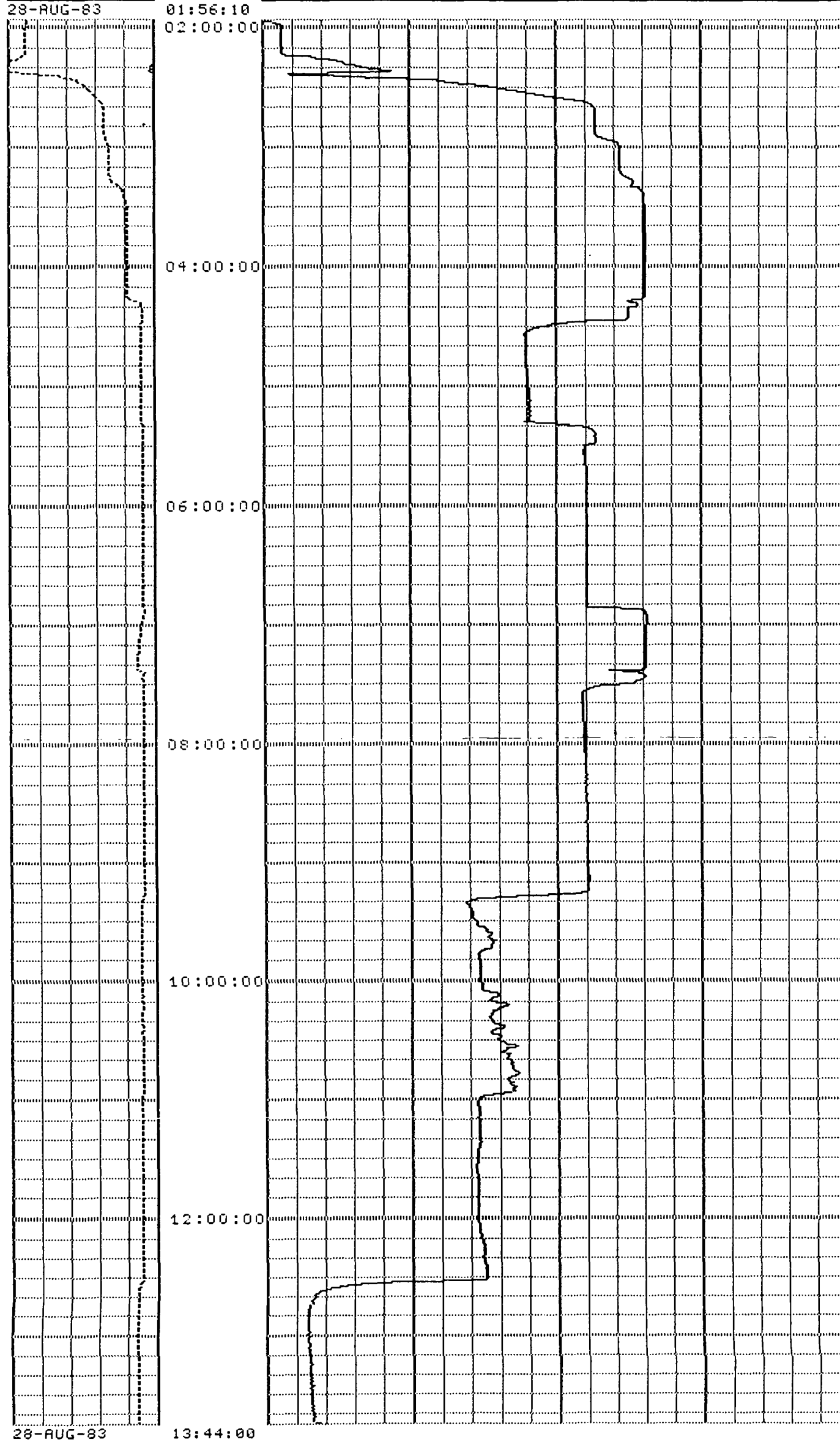
## SEQUENCE OF EVENTS

!	28-AUG-83 01:35:00	POWER ON CRG # 82814
!	28-AUG-83 01:39:00	CRG IN TOOLSTRING
!	28-AUG-83 01:40:00	CRG START RECORDING 10 SEC MODE
!	28-AUG-83 01:45:00	TOOLSTRING IN LUBRICATOR
!	28-AUG-83 01:55:00	OPEN LUBRICATOR VALVE
!	28-AUG-83 01:56:00	1st GRADIENT STOP IN LUBRICATOR
!	28-AUG-83 02:12:00	START RIH
!	28-AUG-83 02:37:00	2nd GRADIENT STOP 1167.00 M RKB
!	28-AUG-83 02:53:00	CONTINUE RIH
!	28-AUG-83 02:56:00	3rd GRADIENT STOP 1267.00 M RKB
!	28-AUG-83 03:12:00	CONTINUE RIH
!	28-AUG-83 03:18:00	ON DEPTH 1367.00 M RKB MD
!	28-AUG-83 04:15:00	OPEN WELL ON 24/64" ADJ. CHOKE
!	28-AUG-83 04:19:00	CHANGE TO 32/64" ADJ. CHOKE
!	28-AUG-83 04:25:00	START TO INCREASE CHOKE SLOWLY
!	28-AUG-83 04:30:00	ON 48/64" ADJ. CHOKE. CHANGE TO 48/64" FIXED CHOKE
!	28-AUG-83 04:45:00	SWITCH FLOW THROUGH SEPERATOR
!	28-AUG-83 05:15:00	CHANGE TO 48/64" ADJ. CHOKE
!	28-AUG-83 05:16:00	CHANGE TO 40/64" ADJ. CHOKE
!	28-AUG-83 05:28:00	CHANGED TO 40/64" FIXED CHOKE
!	28-AUG-83 06:50:30	SHUT IN WELL DUE TO LEAKAGE
!	28-AUG-83 07:21:40	OPEN MASTER VALVE
!	28-AUG-83 07:26:00	OPEN WELL ON 24/64" ADJ. CHOKE
!	28-AUG-83 07:27:00	CHANGE TO 40/64" ADJ. CHOKE
!	28-AUG-83 07:30:00	CHANGE TO 40/64" FIXED CHOKE
!	28-AUG-83 07:35:00	SWITCH FLOW THROUGH SEPERATOR
!	28-AUG-83 09:15:00	CHANGE TO 40/64" ADJ. CHOKE
!	28-AUG-83 09:16:00	CHANGE TO 56/64" ADJ. CHOKE
!	28-AUG-83 09:43:00	CHANGE TO 56/64" FIXED CHOKE
!	28-AUG-83 12:31:00	CHANGE TO 96/64" FIXED CHOKE
!	28-AUG-83 13:44:00	CRG STOP RECORDING DUE TO STRONG VIBRATIONS

CLIENT : NORSKE SHELL, WELL: 31/2-12, GAUGE: CRG # 82814

[173] VERSUS TIME LOGGING START TIME:28-AUG-83 01:56:00 SCALE:3600.sec/inch

SDT (degF)	SDP (psia)
50. 150.	2000. 2400.
[62.438]	[2000.9]



CLIENT: NORSKE SHELL, WELL: 31/2-12, GAUGE: CRG # 82814, RIH

[154] START TIME: 28-AUG-83 01:39:00

28-AUG-83	SDT degF	SDP psia
01:40:00	55.89	14.95
01:40:40	55.84	14.96
01:41:00	55.84	14.89
01:41:40	56.13	13.71
01:41:50	56.13	13.37
01:42:10	56.08	13.74
01:42:20	56.04	13.57
01:42:30	56.04	14.19
01:42:40	55.99	14.20
01:42:50	55.99	14.61
01:43:00	55.89	14.40
01:43:20	55.75	15.16
01:43:40	55.60	15.34
01:44:00	55.60	15.11
01:44:10	55.55	15.60
01:44:30	55.55	15.00
01:47:10	55.31	14.60
01:48:30	55.16	14.53
01:49:10	55.12	14.51
01:49:50	55.12	14.97
01:50:00	55.16	15.10
01:51:20	55.16	20.50
01:52:00	55.21	22.54
01:52:40	55.21	25.44
01:53:00	55.21	26.82
01:53:10	55.21	27.40
01:53:20	55.21	85.91
01:53:30	55.36	533.65
01:53:40	55.84	1035.78
01:53:50	56.57	1450.14
01:54:00	57.44	1618.77
01:54:10	58.17	1624.79
01:54:50	59.72	1646.40
01:55:00	59.82	1651.08
01:55:10	59.92	1655.05
01:55:20	59.96	1658.48
01:55:30	59.96	1661.35
01:55:40	59.96	1669.01
01:55:50	60.45	1986.99
01:56:00	61.66	2004.50
01:56:10	62.44	2000.87
01:56:20	62.92	2000.32
01:56:30	63.21	2001.10
01:57:10	63.75	2007.07
01:57:30	63.85	2009.58
01:57:50	63.89	2011.38
01:58:10	63.99	2012.59
01:58:50	64.04	2013.81
02:00:10	63.99	2014.31
02:10:50	63.02	2013.48
02:12:10	62.92	2013.43
02:12:50	62.87	2013.58
02:13:10	62.78	2015.11
02:13:20	62.68	2016.15
02:13:40	62.29	2019.49
02:13:50	62.00	2021.55
02:14:30	59.77	2033.62
02:14:40	59.14	2036.03
02:15:00	58.07	2039.57
02:15:40	55.75	2045.76

Open lubricator valve

1st gradient stop  
in lubricator

Start RIH

28-AUG-83	SDT degF	SDP psia
02:16:00	54.58	2048.92
02:16:20	53.42	2051.39
02:16:40	52.55	2052.86
02:17:20	51.24	2054.78
02:17:40	50.76	2056.01
02:19:00	49.26	2063.41
02:19:40	49.06	2067.34
02:19:50	49.01	2068.63
02:20:10	48.72	2072.53
02:20:50	47.90	2081.48
02:21:10	47.56	2085.44
02:21:30	47.32	2088.38
02:21:40	47.56	2088.93
02:21:50	48.53	2085.41
02:22:00	50.81	2075.41
02:22:20	57.49	2045.39
02:22:30	61.03	2033.17
02:22:40	64.38	2024.56
02:22:50	67.63	2019.74
02:23:00	70.70	2018.28
02:23:10	73.47	2019.66
02:23:20	76.05	2023.12
02:23:30	78.34	2028.34
02:23:40	80.43	2034.82
02:24:00	83.94	2049.30
02:24:20	86.77	2063.50
02:24:30	87.99	2070.42
02:24:40	89.06	2076.91
02:25:00	90.87	2088.44
02:25:10	91.65	2093.83
02:25:20	92.39	2098.53
02:25:30	93.07	2102.66
02:25:40	93.75	2106.23
02:25:50	94.44	2109.27
02:26:30	96.83	2119.65
02:26:50	97.71	2124.97
02:27:30	99.18	2134.49
02:27:50	99.72	2138.70
02:28:30	100.94	2145.97
02:28:50	101.58	2149.17
02:29:30	103.05	2154.37
02:30:10	104.37	2160.23
02:31:30	106.58	2173.91
02:32:50	108.44	2186.89
02:33:30	109.22	2192.80
02:36:10	113.00	2213.91
02:36:50	113.93	2219.42
02:37:10	114.37	2221.91
02:37:30	114.77	2223.41
02:38:10	115.21	2225.11
02:38:50	115.45	2226.32
02:40:10	115.85	2227.29
02:42:50	116.24	2227.70
02:53:30	116.88	2227.78
02:53:50	116.88	2227.99
02:54:10	116.88	2229.06
02:55:30	117.37	2235.70
02:56:10	117.86	2239.95
02:56:30	118.25	2241.76
02:57:10	118.65	2242.98
02:58:30	119.04	2244.25
03:01:10	119.43	2244.92

2nd gradient stop  
1167.00 m RKB MD

Continue RIH

3rd gradient stop  
1267.00 m RKB MD

28-AUG-83	SDT degF	SDP psia
03:11:50	120.02	2245.07
03:13:10	120.02	2245.44
03:13:50	120.07	2246.78
03:15:10	120.47	2251.09
03:15:50	120.81	2253.30
03:16:00	120.91	2253.96
03:16:20	121.15	2254.49
03:17:00	121.84	2253.99
03:17:20	122.14	2253.86
03:17:40	122.58	2254.62
03:18:00	123.32	2253.99
03:18:40	125.04	2254.13
03:19:00	126.07	2253.45
03:19:10	126.52	2253.55
03:19:50	127.35	2256.86
03:20:30	127.94	2258.70
03:21:50	128.73	2260.55
03:23:10	129.32	2261.19
03:28:30	130.85	2261.77
03:49:50	132.52	2262.28
04:11:10	132.77	2262.35
04:13:50	132.77	2262.35
04:15:10	132.77	2262.12

Continue RIH

On depth 1367.00 m RKB



CLIENT: NORSKE SHELL, WELL: 31/2-12, FLOW

[158] T0=28-AUG-83 04:15:10

P0=2262.12

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)	
04:15:20	132.87	2261.99	0.0028	-2.5563	0.13	-0.8736	Open well on
04:15:30	132.97	2261.39	0.0056	-2.2553	0.73	-0.1349	24/64" adj. choke
04:15:40	133.21	2260.07	0.0083	-2.0792	2.05	0.3126	
04:16:00	134.35	2255.96	0.0139	-1.8573	6.16	0.7896	
04:16:10	135.04	2254.12	0.0167	-1.7782	8.00	0.9032	
04:16:20	135.83	2252.75	0.0194	-1.7112	9.37	0.9719	
04:16:40	137.16	2251.49	0.0250	-1.6021	10.63	1.0265	
04:17:00	138.34	2251.52	0.0306	-1.5149	10.60	1.0255	
04:18:20	140.91	2255.90	0.0528	-1.2775	6.22	0.7935	
04:19:00	141.45	2257.51	0.0639	-1.1946	4.61	0.6640	Change to 32/64"
04:19:10	141.55	2257.75	0.0667	-1.1761	4.37	0.6408	adj. choke
04:19:20	141.65	2257.52	0.0694	-1.1584	4.60	0.6628	
04:19:40	141.80	2254.59	0.0750	-1.1249	7.53	0.8768	
04:19:50	141.85	2253.56	0.0778	-1.1091	8.56	0.9325	
04:20:10	142.05	2252.37	0.0833	-1.0792	9.75	0.9892	
04:20:50	142.34	2251.29	0.0944	-1.0248	10.83	1.0345	
04:21:30	142.59	2250.90	0.1056	-0.9765	11.22	1.0499	
04:24:10	142.84	2250.88	0.1500	-0.8239	11.24	1.0506	
04:25:30	142.89	2250.67	0.1722	-0.7639	11.45	1.0589	Start to increase
04:25:50	142.94	2250.56	0.1778	-0.7501	11.56	1.0628	choke slowly
04:26:00	142.94	2250.17	0.1806	-0.7434	11.95	1.0774	
04:26:10	142.94	2245.25	0.1833	-0.7368	16.87	1.2272	
04:26:20	142.94	2238.30	0.1861	-0.7302	23.82	1.3769	
04:26:30	142.89	2232.34	0.1889	-0.7238	29.78	1.4739	
04:26:50	142.74	2223.33	0.1944	-0.7112	38.79	1.5887	
04:27:00	142.64	2218.77	0.1972	-0.7050	43.35	1.6370	
04:27:10	142.59	2215.02	0.2000	-0.6990	47.10	1.6731	
04:27:20	142.49	2211.87	0.2028	-0.6930	50.25	1.7011	
04:27:30	142.44	2209.21	0.2056	-0.6871	52.91	1.7235	
04:27:50	142.29	2205.13	0.2111	-0.6755	57.00	1.7558	
04:28:10	142.19	2201.96	0.2167	-0.6642	60.16	1.7793	
04:28:30	142.10	2199.24	0.2222	-0.6532	62.88	1.7985	
04:29:10	142.00	2195.40	0.2333	-0.6320	66.72	1.8243	
04:29:30	141.90	2193.88	0.2389	-0.6218	68.24	1.8340	
04:29:40	141.85	2193.10	0.2417	-0.6168	69.02	1.8390	
04:29:50	141.90	2189.52	0.2444	-0.6118	72.60	1.8610	
04:30:00	141.85	2188.22	0.2472	-0.6069	73.90	1.8686	On 48/64" adj.
04:30:40	141.70	2185.32	0.2583	-0.5878	76.80	1.8853	Change to 48/64"
04:31:20	141.60	2183.25	0.2694	-0.5695	78.87	1.8969	fixed choke
04:32:00	141.55	2181.73	0.2806	-0.5520	80.39	1.9052	
04:33:20	141.50	2179.88	0.3028	-0.5189	82.24	1.9151	
04:34:40	141.45	2178.91	0.3250	-0.4881	83.21	1.9202	
04:40:00	141.55	2180.22	0.4139	-0.3831	81.90	1.9133	
04:50:40	141.65	2180.66	0.5917	-0.2279	81.46	1.9109	Switch flow thr-
04:53:20	141.60	2180.97	0.6361	-0.1965	81.15	1.9093	ough seperator
04:54:40	141.65	2180.99	0.6583	-0.1816	81.13	1.9092	
04:55:20	141.65	2180.97	0.6694	-0.1743	81.15	1.9093	
04:56:00	141.65	2181.38	0.6806	-0.1671	80.74	1.9071	
04:56:40	141.70	2181.03	0.6917	-0.1601	81.09	1.9090	
04:58:00	141.65	2181.13	0.7139	-0.1464	80.99	1.9084	
04:59:20	141.65	2181.71	0.7361	-0.1331	80.41	1.9053	
05:00:40	141.70	2181.63	0.7583	-0.1201	80.49	1.9057	
05:01:00	141.70	2181.84	0.7639	-0.1170	80.28	1.9046	
05:02:20	141.70	2182.07	0.7861	-0.1045	80.05	1.9034	
05:03:00	141.70	2181.79	0.7972	-0.0984	80.33	1.9049	
05:04:20	141.70	2182.09	0.8194	-0.0865	80.03	1.9032	
05:05:00	141.75	2181.85	0.8306	-0.0806	80.27	1.9045	
05:06:20	141.70	2182.14	0.8528	-0.0692	79.98	1.9030	
05:07:00	141.70	2182.81	0.8639	-0.0635	79.31	1.8993	
05:07:40	141.70	2182.33	0.8750	-0.0580	79.79	1.9020	

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
05:10:20	141.75	2182.69	0.9194	-0.0365	79.43	1.9000
05:11:40	141.70	2182.68	0.9417	-0.0261	79.44	1.9001
05:12:20	141.70	2183.12	0.9528	-0.0210	79.00	1.8976
05:13:00	141.75	2182.67	0.9639	-0.0160	79.45	1.9001
05:13:40	141.75	2182.74	0.9750	-0.0110	79.38	1.8997
05:14:00	141.75	2182.99	0.9806	-0.0085	79.13	1.8983
05:16:40	141.75	2182.67	1.0250	0.0107	79.45	1.9001
05:16:50	141.70	2179.61	1.0278	0.0119	82.51	1.9165
05:17:00	141.70	2179.96	1.0306	0.0131	82.16	1.9147
05:17:10	141.70	2181.70	1.0333	0.0142	80.42	1.9054
05:17:20	141.70	2186.23	1.0361	0.0154	75.89	1.8802
05:17:30	141.70	2189.94	1.0389	0.0166	72.18	1.8584
05:17:50	141.85	2195.84	1.0444	0.0189	66.28	1.8214
05:18:10	142.00	2200.93	1.0500	0.0212	61.19	1.7867
05:18:30	142.15	2205.54	1.0556	0.0235	56.58	1.7526
05:18:50	142.19	2209.76	1.0611	0.0258	52.36	1.7190
05:19:10	142.34	2213.29	1.0667	0.0280	48.83	1.6887
05:19:30	142.44	2216.20	1.0722	0.0303	45.92	1.6620
05:19:50	142.49	2218.66	1.0778	0.0325	43.46	1.6381
05:20:10	142.59	2220.57	1.0833	0.0348	41.55	1.6186
05:20:50	142.74	2223.26	1.0944	0.0392	38.86	1.5895
05:21:30	142.84	2225.12	1.1056	0.0436	37.00	1.5682
05:22:50	142.89	2227.32	1.1278	0.0522	34.80	1.5416
05:24:10	142.94	2227.73	1.1500	0.0607	34.39	1.5364
05:25:30	142.98	2227.56	1.1722	0.0690	34.56	1.5386
05:26:50	142.98	2228.02	1.1944	0.0772	34.10	1.5327
05:28:10	142.98	2227.98	1.2167	0.0852	34.14	1.5333
05:28:30	142.98	2227.77	1.2222	0.0872	34.35	1.5359
05:28:40	142.98	2224.29	1.2250	0.0881	37.83	1.5779
05:29:20	142.94	2222.48	1.2361	0.0921	39.64	1.5981
05:30:00	142.89	2221.35	1.2472	0.0959	40.77	1.6103
05:31:20	142.84	2220.36	1.2694	0.1036	41.76	1.6207
05:34:00	142.79	2220.07	1.3139	0.1186	42.05	1.6238
05:44:40	142.84	2221.43	1.4917	0.1737	40.69	1.6095
05:50:00	142.84	2221.83	1.5806	0.1988	40.29	1.6053
05:55:20	142.84	2221.80	1.6694	0.2226	40.32	1.6055
05:58:00	142.89	2221.84	1.7139	0.2340	40.28	1.6051
05:59:20	142.89	2221.49	1.7361	0.2396	40.63	1.6088
06:02:00	142.89	2221.77	1.7806	0.2506	40.35	1.6058
06:07:20	142.89	2221.56	1.8694	0.2717	40.56	1.6081
06:08:40	142.89	2221.63	1.8917	0.2768	40.49	1.6073
06:09:20	142.84	2221.99	1.9028	0.2794	40.13	1.6035
06:10:40	142.89	2221.75	1.9250	0.2844	40.37	1.6061
06:16:00	142.89	2222.05	2.0139	0.3040	40.07	1.6028
06:16:40	142.89	2222.05	2.0250	0.3064	40.07	1.6028
06:17:00	142.89	2222.21	2.0306	0.3076	39.91	1.6011
06:17:40	142.84	2221.71	2.0417	0.3100	40.41	1.6065
06:20:20	142.89	2221.98	2.0861	0.3193	40.14	1.6036
06:21:40	142.89	2221.96	2.1083	0.3239	40.16	1.6038
06:22:00	142.89	2222.19	2.1139	0.3251	39.93	1.6013
06:22:40	142.89	2221.84	2.1250	0.3274	40.28	1.6051
06:23:20	142.89	2222.10	2.1361	0.3296	40.02	1.6023
06:28:40	142.94	2222.06	2.2250	0.3473	40.06	1.6027
06:29:20	142.94	2222.34	2.2361	0.3495	39.78	1.5996
06:30:00	142.94	2221.97	2.2472	0.3516	40.15	1.6037
06:30:40	142.89	2222.17	2.2583	0.3538	39.95	1.6016
06:31:00	142.94	2222.37	2.2639	0.3549	39.75	1.5994
06:31:40	142.89	2221.89	2.2750	0.3570	40.23	1.6046
06:34:20	142.89	2221.82	2.3194	0.3654	40.30	1.6053
06:34:40	142.94	2221.95	2.3250	0.3664	40.17	1.6039
06:35:20	142.89	2221.63	2.3361	0.3685	40.49	1.6073
06:38:00	142.89	2221.68	2.3806	0.3767	40.44	1.6068

Change to 48/64"  
adj. choke  
Change to 40/64"  
adj. choke

Change to 40/64"  
fixed choke

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
06:39:20	142.89	2221.98	2.4028	0.3807	40.14	1.6036
06:40:40	142.89	2221.72	2.4250	0.3847	40.40	1.6063
06:42:00	142.89	2222.07	2.4472	0.3887	40.05	1.6026
06:47:20	142.94	2222.23	2.5361	0.4042	39.89	1.6009
06:50:00	142.89	2222.07	2.5806	0.4117	40.05	1.6026
06:50:20	142.89	2222.07	2.5861	0.4126	40.05	1.6026
06:50:30	142.89	2222.14	2.5889	0.4131	39.98	1.6018

CLIENT: NORSKE SHELL, WELL: 31/2-12, SHUT-IN DUE TO LEAKAGE

[162] T0=28-AUG-83 06:50:30

P0=2222.14 FT=002:35:20

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)	L(Horn)
06:50:30	142.89	2222.14	0.0000	-5.0000	0.00	-2.6581	5.4131
06:50:40	142.89	2223.21	0.0028	-2.5563	1.07	0.0294	2.9699
06:50:50	142.89	2235.24	0.0056	-2.2553	13.10	1.1173	2.6693
06:51:00	142.98	2245.28	0.0083	-2.0792	23.14	1.3644	2.4937
06:51:10	143.13	2251.41	0.0111	-1.9542	29.27	1.4665	2.3692
06:51:20	143.23	2255.37	0.0139	-1.8573	33.23	1.5215	2.2728
06:51:30	143.33	2257.82	0.0167	-1.7782	35.68	1.5524	2.1941
06:51:40	143.38	2259.23	0.0194	-1.7112	37.09	1.5692	2.1276
06:52:00	143.53	2260.52	0.0250	-1.6021	38.38	1.5842	2.0193
06:52:40	143.48	2261.72	0.0361	-1.4424	39.58	1.5974	1.8615
06:54:00	143.28	2262.61	0.0583	-1.2341	40.47	1.6071	1.6569
06:59:20	141.95	2263.23	0.1472	-0.8320	41.09	1.6138	1.2692
07:20:40	138.34	2262.67	0.5028	-0.2986	40.53	1.6077	0.7888
07:21:20	138.25	2262.68	0.5139	-0.2891	40.54	1.6079	0.7809
07:21:40	138.20	2262.67	0.5194	-0.2845	40.53	1.6078	0.7770

CLIENT: NORSKE SHELL, WELL: 31/2-12, FLOW

[166] T0=28-AUG-83 07:21:40

P0=2262.67

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)	
07:21:50	138.20	2260.14	0.0028	-2.5563	2.53	0.4036	
07:22:10	138.59	2253.56	0.0083	-2.0792	9.11	0.9593	Open master
07:22:20	139.18	2237.11	0.0111	-1.9542	25.56	1.4076	valve
07:22:30	139.82	2240.48	0.0139	-1.8573	22.19	1.3461	
07:22:40	140.57	2246.35	0.0167	-1.7782	16.32	1.2128	
07:22:50	141.16	2250.68	0.0194	-1.7112	11.99	1.0788	
07:23:00	141.55	2253.47	0.0222	-1.6532	9.20	0.9637	
07:23:10	141.90	2255.13	0.0250	-1.6021	7.54	0.8773	
07:23:30	142.29	2257.27	0.0306	-1.5149	5.40	0.7323	
07:23:50	142.39	2258.95	0.0361	-1.4424	3.72	0.5705	
07:24:10	142.49	2260.17	0.0417	-1.3802	2.50	0.3988	
07:24:50	142.39	2261.62	0.0528	-1.2775	1.05	0.0203	
07:26:10	142.10	2262.86	0.0750	-1.1249	0.19	-0.7270	Open well on
07:26:20	142.00	2261.06	0.0778	-1.1091	1.61	0.2063	24/64" adj. choke
07:26:40	141.90	2260.94	0.0833	-1.0792	1.73	0.2380	
07:27:20	142.29	2258.97	0.0944	-1.0248	3.70	0.5685	Change to 40/64"
07:27:40	142.54	2257.95	0.1000	-1.0000	4.72	0.6740	adj. choke
07:28:20	142.89	2256.52	0.1111	-0.9542	6.15	0.7888	
07:28:40	142.98	2255.11	0.1167	-0.9331	7.56	0.8786	
07:28:50	142.98	2253.51	0.1194	-0.9228	9.16	0.9620	
07:29:10	143.08	2249.19	0.1250	-0.9031	13.48	1.1296	
07:29:30	143.08	2244.50	0.1306	-0.8842	18.17	1.2594	
07:29:40	143.08	2243.31	0.1333	-0.8751	19.35	1.2868	
07:29:50	143.13	2238.80	0.1361	-0.8661	23.87	1.3778	
07:30:00	143.08	2235.37	0.1389	-0.8573	27.30	1.4361	Change to 40/64"
07:30:20	143.03	2231.73	0.1444	-0.8403	30.94	1.4905	fixed choke
07:30:40	142.98	2228.98	0.1500	-0.8239	33.69	1.5275	
07:31:00	142.94	2226.87	0.1556	-0.8081	35.80	1.5539	
07:31:40	142.84	2223.96	0.1667	-0.7782	38.71	1.5878	
07:32:20	142.79	2222.11	0.1778	-0.7501	40.56	1.6081	
07:33:40	142.74	2220.01	0.2000	-0.6990	42.66	1.6300	
07:35:00	142.74	2219.01	0.2222	-0.6532	43.66	1.6401	Switch flow thr-
07:37:40	142.69	2218.85	0.2667	-0.5740	43.82	1.6416	ough seperator
07:39:00	142.69	2218.95	0.2889	-0.5393	43.72	1.6407	
07:40:20	142.69	2218.53	0.3111	-0.5071	44.14	1.6448	
07:43:00	142.69	2218.81	0.3556	-0.4491	43.86	1.6421	
07:48:20	142.69	2218.76	0.4444	-0.3522	43.91	1.6426	
07:59:00	142.74	2219.68	0.6222	-0.2061	42.99	1.6334	
08:04:20	142.74	2220.31	0.7111	-0.1481	42.36	1.6270	
08:05:40	142.74	2220.77	0.7333	-0.1347	41.90	1.6222	
08:07:00	142.79	2220.60	0.7556	-0.1217	42.07	1.6239	
08:08:20	142.79	2220.95	0.7778	-0.1091	41.72	1.6203	
08:11:00	142.79	2220.93	0.8222	-0.0850	41.74	1.6206	
08:12:20	142.79	2221.02	0.8444	-0.0734	41.65	1.6196	
08:13:00	142.79	2220.90	0.8556	-0.0678	41.77	1.6208	
08:13:40	142.79	2221.28	0.8667	-0.0621	41.39	1.6169	
08:15:00	142.79	2221.28	0.8889	-0.0512	41.39	1.6169	
08:15:40	142.79	2221.53	0.9000	-0.0458	41.14	1.6142	
08:16:20	142.79	2221.00	0.9111	-0.0404	41.67	1.6198	
08:17:00	142.79	2221.02	0.9222	-0.0352	41.65	1.6196	
08:17:40	142.79	2221.58	0.9333	-0.0300	41.09	1.6138	
08:17:50	142.79	2221.67	0.9361	-0.0287	41.00	1.6128	
08:18:30	142.84	2220.94	0.9472	-0.0235	41.73	1.6204	
08:19:50	142.79	2221.16	0.9694	-0.0135	41.51	1.6181	
08:20:30	142.79	2221.32	0.9806	-0.0085	41.35	1.6165	
08:20:40	142.79	2221.44	0.9833	-0.0073	41.23	1.6152	
08:21:00	142.79	2220.95	0.9889	-0.0049	41.72	1.6203	
08:21:40	142.79	2220.97	1.0000	0.0000	41.70	1.6201	
08:22:00	142.79	2221.23	1.0056	0.0024	41.44	1.6174	
08:24:40	142.79	2221.30	1.0500	0.0212	41.37	1.6167	

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
08:25:20	142.79	2221.51	1.0611	0.0258	41.16	1.6145
08:26:00	142.84	2221.17	1.0722	0.0303	41.50	1.6180
08:26:20	142.79	2221.25	1.0778	0.0325	41.42	1.6172
08:26:40	142.79	2220.86	1.0833	0.0348	41.81	1.6213
08:29:20	142.79	2221.35	1.1278	0.0522	41.32	1.6162
08:34:40	142.79	2221.44	1.2167	0.0852	41.23	1.6152
08:36:00	142.84	2221.55	1.2389	0.0930	41.12	1.6141
08:36:40	142.84	2221.78	1.2500	0.0969	40.89	1.6116
08:37:20	142.84	2221.38	1.2611	0.1008	41.29	1.6158
08:38:00	142.79	2221.49	1.2722	0.1046	41.18	1.6147
08:38:20	142.84	2221.64	1.2778	0.1065	41.03	1.6131
08:39:40	142.79	2220.60	1.3000	0.1139	42.07	1.6239
08:45:00	142.84	2221.45	1.3889	0.1427	41.22	1.6151
08:50:20	142.84	2221.57	1.4778	0.1696	41.10	1.6138
08:55:40	142.84	2222.24	1.5667	0.1950	40.43	1.6067
08:58:20	142.84	2222.03	1.6111	0.2071	40.64	1.6089
09:01:00	142.89	2222.35	1.6556	0.2189	40.32	1.6055
09:06:20	142.89	2222.28	1.7444	0.2417	40.39	1.6063
09:09:00	142.84	2222.68	1.7889	0.2526	39.99	1.6019
09:10:20	142.89	2222.77	1.8111	0.2579	39.90	1.6010
09:13:00	142.84	2222.01	1.8556	0.2685	40.66	1.6092
09:14:20	142.89	2222.31	1.8778	0.2736	40.36	1.6060
09:14:40	142.89	2222.31	1.8833	0.2749	40.36	1.6060
09:14:50	142.89	2222.23	1.8861	0.2756	40.44	1.6068
09:15:00	142.89	2217.33	1.8889	0.2762	45.34	1.6564
09:15:10	142.84	2217.83	1.8917	0.2768	44.84	1.6517
09:15:20	142.84	2216.85	1.8944	0.2775	45.82	1.6610
09:15:30	142.79	2213.01	1.8972	0.2781	49.66	1.6960
09:15:40	142.74	2207.12	1.9000	0.2788	55.55	1.7447
09:16:00	142.59	2194.32	1.9056	0.2800	68.35	1.8347
09:16:10	142.49	2187.79	1.9083	0.2807	74.88	1.8744
09:16:20	142.34	2182.19	1.9111	0.2813	80.48	1.9057
09:16:30	142.19	2177.16	1.9139	0.2819	85.51	1.9320
09:16:40	142.05	2172.70	1.9167	0.2825	89.97	1.9541
09:17:00	141.80	2164.99	1.9222	0.2838	97.68	1.9898
09:17:20	141.60	2158.80	1.9278	0.2851	103.87	2.0165
09:17:40	141.40	2153.77	1.9333	0.2863	108.90	2.0370
09:18:00	141.26	2149.69	1.9389	0.2876	112.98	2.0530
09:18:20	141.16	2146.26	1.9444	0.2888	116.41	2.0660
09:18:40	141.01	2143.74	1.9500	0.2900	118.93	2.0753
09:19:00	140.91	2141.66	1.9556	0.2913	121.01	2.0828
09:19:40	140.76	2138.67	1.9667	0.2937	124.00	2.0934
09:20:00	140.66	2138.06	1.9722	0.2950	124.61	2.0955
09:20:40	140.61	2138.02	1.9833	0.2974	124.65	2.0957
09:23:20	140.61	2140.58	2.0278	0.3070	122.09	2.0867
09:24:40	140.66	2142.05	2.0500	0.3118	120.62	2.0814
09:26:00	140.71	2142.91	2.0722	0.3164	119.76	2.0783
09:27:20	140.66	2143.17	2.0944	0.3211	119.50	2.0774
09:28:00	140.71	2143.18	2.1056	0.3234	119.49	2.0773
09:29:20	140.71	2144.16	2.1278	0.3279	118.51	2.0738
09:30:00	140.71	2145.16	2.1389	0.3302	117.51	2.0701
09:31:20	140.76	2146.12	2.1611	0.3347	116.55	2.0665
09:31:40	140.76	2146.10	2.1667	0.3358	116.57	2.0666
09:31:50	140.76	2146.10	2.1694	0.3363	116.57	2.0666
09:32:00	140.76	2146.68	2.1722	0.3369	115.99	2.0644
09:32:10	140.76	2148.10	2.1750	0.3375	114.57	2.0591
09:32:50	140.81	2150.32	2.1861	0.3397	112.35	2.0506
09:33:10	140.86	2151.21	2.1917	0.3408	111.46	2.0471
09:34:30	140.91	2151.97	2.2139	0.3452	110.70	2.0441
09:34:40	140.91	2151.93	2.2167	0.3457	110.74	2.0443
09:35:00	140.96	2153.40	2.2222	0.3468	109.27	2.0385
09:35:40	141.01	2154.97	2.2333	0.3490	107.70	2.0322

Change to 40/64"  
adj. choke

Change to 56/64"  
adj. choke

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
09:36:20	141.01	2155.07	2.2444	0.3511	107.60	2.0318
09:37:00	141.01	2154.60	2.2556	0.3533	108.07	2.0337
09:37:20	141.06	2154.29	2.2611	0.3543	108.38	2.0349
09:37:30	141.01	2154.32	2.2639	0.3549	108.35	2.0348
09:37:50	141.01	2153.63	2.2694	0.3559	109.04	2.0376
09:38:10	141.01	2153.74	2.2750	0.3570	108.93	2.0371
09:38:50	141.01	2155.67	2.2861	0.3591	107.00	2.0294
09:39:30	141.06	2156.78	2.2972	0.3612	105.89	2.0249
09:39:50	141.06	2157.20	2.3028	0.3623	105.47	2.0231
09:40:30	141.06	2156.61	2.3139	0.3643	106.06	2.0255
09:40:50	141.06	2156.06	2.3194	0.3654	106.61	2.0278
09:42:10	141.01	2155.39	2.3417	0.3695	107.28	2.0305
09:42:50	141.06	2155.50	2.3528	0.3716	107.17	2.0301
09:43:00	141.06	2155.52	2.3556	0.3721	107.15	2.0300
09:43:10	141.06	2152.67	2.3583	0.3726	110.00	2.0414
09:43:20	141.01	2151.31	2.3611	0.3731	111.36	2.0467
09:44:40	140.86	2148.71	2.3833	0.3772	113.96	2.0568
09:45:20	140.86	2147.78	2.3944	0.3792	114.89	2.0603
09:46:40	140.81	2147.11	2.4167	0.3832	115.56	2.0628
09:49:20	140.76	2146.82	2.4611	0.3911	115.85	2.0639
09:54:40	140.81	2147.65	2.5500	0.4065	115.02	2.0608
09:56:00	140.81	2147.56	2.5722	0.4103	115.11	2.0611
09:56:40	140.81	2147.63	2.5833	0.4122	115.04	2.0609
09:57:00	140.81	2148.11	2.5889	0.4131	114.56	2.0590
09:59:40	140.81	2147.90	2.6333	0.4205	114.77	2.0598
10:00:20	140.81	2147.90	2.6444	0.4223	114.77	2.0598
10:01:40	140.86	2148.54	2.6667	0.4260	114.13	2.0574
10:03:00	140.86	2148.64	2.6889	0.4296	114.03	2.0570
10:03:40	140.81	2148.53	2.7000	0.4314	114.14	2.0574
10:04:20	140.86	2149.31	2.7111	0.4331	113.36	2.0545
10:04:40	140.86	2149.52	2.7167	0.4340	113.15	2.0537
10:04:50	140.86	2150.10	2.7194	0.4345	112.57	2.0514
10:05:10	140.91	2152.72	2.7250	0.4354	109.95	2.0412
10:05:20	140.91	2154.39	2.7278	0.4358	108.28	2.0346
10:06:00	141.01	2158.02	2.7389	0.4376	104.65	2.0198
10:06:10	141.01	2159.25	2.7417	0.4380	103.42	2.0146
10:06:30	141.11	2160.28	2.7472	0.4389	102.39	2.0103
10:06:40	141.06	2160.89	2.7500	0.4393	101.78	2.0077
10:07:00	141.11	2160.72	2.7556	0.4402	101.95	2.0084
10:07:40	141.16	2159.10	2.7667	0.4420	103.56	2.0152
10:08:20	141.11	2156.68	2.7778	0.4437	105.99	2.0253
10:09:40	141.01	2153.86	2.8000	0.4472	108.81	2.0367
10:09:50	141.01	2153.91	2.8028	0.4476	108.76	2.0365
10:10:00	141.01	2154.77	2.8056	0.4480	107.90	2.0330
10:10:20	141.01	2157.44	2.8111	0.4489	105.23	2.0222
10:10:40	141.06	2158.98	2.8167	0.4497	103.69	2.0157
10:11:20	141.16	2164.40	2.8278	0.4514	98.27	1.9924
10:11:30	141.21	2165.81	2.8306	0.4519	96.86	1.9862
10:11:50	141.26	2166.52	2.8361	0.4527	96.15	1.9829
10:13:10	141.26	2160.78	2.8583	0.4561	101.89	2.0081
10:13:30	141.21	2159.47	2.8639	0.4570	103.20	2.0137
10:14:50	141.16	2156.46	2.8861	0.4603	106.21	2.0262
10:15:10	141.06	2156.06	2.8917	0.4611	106.61	2.0278
10:15:50	141.11	2156.07	2.9028	0.4628	106.60	2.0277
10:17:10	141.06	2155.20	2.9250	0.4661	107.47	2.0313
10:18:30	141.01	2153.79	2.9472	0.4694	108.88	2.0369
10:19:10	141.01	2153.65	2.9583	0.4710	109.02	2.0375
10:19:50	141.06	2154.83	2.9694	0.4727	107.84	2.0328
10:20:30	141.06	2155.38	2.9806	0.4743	107.29	2.0305
10:20:50	141.06	2156.08	2.9861	0.4751	106.59	2.0277
10:21:10	141.06	2157.22	2.9917	0.4759	105.45	2.0231
10:21:30	141.11	2159.72	2.9972	0.4767	102.95	2.0126

Change to 56/64"  
fixed choke

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
10:21:40	141.11	2161.20	3.0000	0.4771	101.47	2.0063
10:22:00	141.16	2162.96	3.0056	0.4779	99.71	1.9987
10:22:20	141.21	2163.76	3.0111	0.4787	98.91	1.9952
10:22:40	141.26	2163.80	3.0167	0.4795	98.87	1.9951
10:24:00	141.21	2158.77	3.0389	0.4827	103.90	2.0166
10:24:40	141.16	2156.74	3.0500	0.4843	105.93	2.0250
10:25:20	141.11	2155.70	3.0611	0.4859	106.97	2.0293
10:25:40	141.06	2155.41	3.0667	0.4867	107.26	2.0304
10:26:00	141.06	2155.57	3.0722	0.4875	107.10	2.0298
10:26:40	141.06	2158.45	3.0833	0.4890	104.22	2.0180
10:27:00	141.11	2159.86	3.0889	0.4898	102.81	2.0120
10:27:20	141.16	2160.78	3.0944	0.4906	101.89	2.0081
10:28:00	141.21	2161.07	3.1056	0.4921	101.60	2.0069
10:28:20	141.21	2160.95	3.1111	0.4929	101.72	2.0074
10:29:00	141.21	2159.70	3.1222	0.4945	102.97	2.0127
10:29:20	141.16	2159.43	3.1278	0.4952	103.24	2.0138
10:30:00	141.21	2160.79	3.1389	0.4968	101.88	2.0081
10:30:20	141.21	2161.95	3.1444	0.4975	100.72	2.0031
10:30:40	141.21	2163.53	3.1500	0.4983	99.14	1.9962
10:31:00	141.26	2163.80	3.1556	0.4991	98.87	1.9951
10:31:20	141.26	2164.59	3.1611	0.4998	98.08	1.9916
10:31:30	141.31	2165.88	3.1639	0.5002	96.79	1.9858
10:31:40	141.31	2166.26	3.1667	0.5006	96.41	1.9841
10:32:20	141.40	2171.35	3.1778	0.5021	91.32	1.9606
10:32:30	141.40	2172.42	3.1806	0.5025	90.25	1.9555
10:32:50	141.45	2172.22	3.1861	0.5033	90.45	1.9564
10:34:10	141.40	2166.15	3.2083	0.5063	96.52	1.9846
10:34:30	141.40	2165.57	3.2139	0.5070	97.10	1.9872
10:35:10	141.36	2163.30	3.2250	0.5085	99.37	1.9973
10:35:30	141.31	2162.91	3.2306	0.5093	99.76	1.9989
10:35:50	141.31	2164.19	3.2361	0.5100	98.48	1.9934
10:36:00	141.31	2165.16	3.2389	0.5104	97.51	1.9890
10:36:40	141.36	2167.29	3.2500	0.5119	95.38	1.9795
10:37:20	141.40	2167.10	3.2611	0.5134	95.57	1.9803
10:37:40	141.40	2166.49	3.2667	0.5141	96.18	1.9831
10:38:20	141.36	2166.29	3.2778	0.5156	96.38	1.9840
10:39:00	141.36	2165.64	3.2889	0.5170	97.03	1.9869
10:39:20	141.36	2165.92	3.2944	0.5178	96.75	1.9856
10:39:40	141.36	2167.48	3.3000	0.5185	95.19	1.9786
10:40:20	141.40	2169.19	3.3111	0.5200	93.48	1.9707
10:40:40	141.40	2169.28	3.3167	0.5207	93.39	1.9703
10:41:20	141.40	2167.75	3.3278	0.5222	94.92	1.9774
10:41:40	141.40	2167.19	3.3333	0.5229	95.48	1.9799
10:42:20	141.40	2169.21	3.3444	0.5243	93.46	1.9706
10:43:40	141.45	2169.99	3.3667	0.5272	92.68	1.9670
10:44:20	141.45	2169.95	3.3778	0.5286	92.72	1.9672
10:45:00	141.45	2170.57	3.3889	0.5301	92.10	1.9643
10:45:40	141.50	2172.65	3.4000	0.5315	90.02	1.9543
10:46:00	141.55	2172.81	3.4056	0.5322	89.86	1.9536
10:46:40	141.55	2174.41	3.4167	0.5336	88.26	1.9458
10:49:20	141.40	2167.05	3.4611	0.5392	95.62	1.9805
10:50:00	141.36	2165.94	3.4722	0.5406	96.73	1.9855
10:50:10	141.40	2166.59	3.4750	0.5410	96.08	1.9826
10:50:30	141.40	2169.37	3.4806	0.5416	93.30	1.9699
10:50:40	141.45	2170.27	3.4833	0.5420	92.40	1.9657
10:50:50	141.40	2169.16	3.4861	0.5423	93.51	1.9708
10:51:30	141.40	2168.19	3.4972	0.5437	94.48	1.9753
10:51:50	141.40	2168.03	3.5028	0.5444	94.64	1.9761
10:52:10	141.40	2168.54	3.5083	0.5451	94.13	1.9737
10:52:20	141.40	2168.68	3.5111	0.5454	93.99	1.9731
10:52:30	141.40	2169.40	3.5139	0.5458	93.27	1.9698
10:52:50	141.45	2171.45	3.5194	0.5465	91.22	1.9601



TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
10:53:10	141.45	2171.87	3.5250	0.5472	90.80	1.9581
10:53:30	141.50	2171.61	3.5306	0.5478	91.06	1.9593
10:53:40	141.50	2171.31	3.5333	0.5482	91.36	1.9608
10:54:00	141.50	2169.77	3.5389	0.5489	92.90	1.9680
10:54:10	141.50	2169.36	3.5417	0.5492	93.31	1.9699
10:54:30	141.50	2169.47	3.5472	0.5499	93.20	1.9694
10:54:50	141.45	2170.22	3.5528	0.5506	92.45	1.9659
10:55:00	141.50	2170.35	3.5556	0.5509	92.31	1.9653
10:55:40	141.45	2168.99	3.5667	0.5523	93.68	1.9716
10:55:50	141.45	2167.48	3.5694	0.5526	95.19	1.9786
10:56:10	141.45	2163.37	3.5750	0.5533	99.30	1.9969
10:56:20	141.40	2161.64	3.5778	0.5536	101.03	2.0044
10:57:00	141.26	2156.37	3.5889	0.5550	106.30	2.0265
10:57:40	141.06	2152.48	3.6000	0.5563	110.19	2.0421
10:58:20	141.01	2149.75	3.6111	0.5576	112.92	2.0528
10:59:00	140.91	2147.96	3.6222	0.5590	114.71	2.0596
11:00:20	140.81	2146.58	3.6444	0.5616	116.09	2.0648
11:03:00	140.81	2145.49	3.6889	0.5669	117.18	2.0689
11:05:40	140.81	2146.63	3.7333	0.5721	116.04	2.0646
11:08:20	140.86	2146.71	3.7778	0.5772	115.96	2.0643
11:09:00	140.81	2146.35	3.7889	0.5785	116.32	2.0657
11:10:20	140.81	2146.84	3.8111	0.5811	115.83	2.0638
11:21:00	140.81	2147.25	3.9889	0.6009	115.42	2.0623
11:21:40	140.81	2147.46	4.0000	0.6021	115.21	2.0615
11:24:20	140.81	2147.02	4.0444	0.6069	115.65	2.0631
11:27:00	140.76	2145.96	4.0889	0.6116	116.69	2.0670
11:29:40	140.81	2145.58	4.1333	0.6163	117.09	2.0685
11:31:00	140.81	2146.07	4.1556	0.6186	116.60	2.0667
11:31:40	140.81	2145.60	4.1667	0.6198	117.07	2.0684
11:37:00	140.76	2145.13	4.2556	0.6290	117.54	2.0702
11:47:40	140.81	2145.37	4.4333	0.6467	117.30	2.0693
11:53:00	140.81	2145.54	4.5222	0.6554	117.13	2.0687
11:54:20	140.81	2145.77	4.5444	0.6575	116.90	2.0678
11:55:40	140.76	2145.61	4.5667	0.6596	117.06	2.0684
12:01:00	140.81	2146.05	4.6556	0.6680	116.62	2.0668
12:02:20	140.81	2146.23	4.6778	0.6700	116.44	2.0661
12:03:40	140.81	2146.88	4.7000	0.6721	115.79	2.0637
12:06:20	140.81	2146.95	4.7444	0.6762	115.72	2.0634
12:07:40	140.86	2146.94	4.7667	0.6782	115.73	2.0634
12:10:20	140.86	2147.94	4.8111	0.6822	114.73	2.0597
12:11:40	140.86	2148.89	4.8333	0.6842	113.78	2.0561
12:13:00	140.86	2149.45	4.8556	0.6862	113.22	2.0539
12:18:20	140.96	2149.87	4.9444	0.6941	112.80	2.0523
12:19:00	140.91	2149.95	4.9556	0.6951	112.72	2.0520
12:20:20	140.91	2149.44	4.9778	0.6970	113.23	2.0540
12:23:00	140.91	2149.70	5.0222	0.7009	112.97	2.0530
12:28:20	140.96	2151.20	5.1111	0.7085	111.47	2.0472
12:29:40	140.96	2150.85	5.1333	0.7104	111.82	2.0485
12:30:20	140.96	2150.97	5.1444	0.7113	111.70	2.0481
12:30:40	140.96	2151.08	5.1500	0.7118	111.59	2.0476
12:30:50	140.96	2151.10	5.1528	0.7120	111.56	2.0475
12:31:00	140.96	2144.02	5.1556	0.7123	118.65	2.0743
12:31:10	140.91	2132.45	5.1583	0.7125	130.22	2.1147
12:31:20	140.76	2121.65	5.1611	0.7127	141.02	2.1493
12:31:30	140.61	2112.28	5.1639	0.7130	150.39	2.1772
12:31:40	140.47	2104.29	5.1667	0.7132	156.38	2.1997
12:31:50	140.22	2097.51	5.1694	0.7134	165.16	2.2179
12:32:00	140.02	2091.60	5.1722	0.7137	171.07	2.2332
12:32:10	139.82	2086.18	5.1750	0.7139	176.49	2.2467
12:32:20	139.63	2081.27	5.1778	0.7141	181.40	2.2586
12:32:40	139.28	2072.79	5.1833	0.7146	189.88	2.2785
12:33:00	138.94	2066.00	5.1889	0.7151	196.67	2.2937

Change to 96/64"  
fixed choke

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
12:33:10	138.84	2064.14	5.1917	0.7153	198.53	2.2978
12:33:20	138.74	2061.20	5.1944	0.7155	201.47	2.3042
12:33:40	138.54	2056.34	5.2000	0.7160	206.33	2.3146
12:33:50	138.44	2055.15	5.2028	0.7162	207.52	2.3171
12:34:00	138.34	2053.15	5.2056	0.7165	209.52	2.3212
12:34:10	138.29	2051.63	5.2083	0.7167	211.04	2.3244
12:34:20	138.20	2050.81	5.2111	0.7169	211.86	2.3261
12:34:30	138.15	2048.64	5.2139	0.7172	214.03	2.3305
12:34:50	138.05	2046.91	5.2194	0.7176	215.76	2.3340
12:35:00	138.00	2045.74	5.2222	0.7179	216.93	2.3363
12:35:10	137.95	2045.10	5.2250	0.7181	217.57	2.3376
12:35:20	137.90	2043.11	5.2278	0.7183	219.56	2.3416
12:35:40	137.90	2042.39	5.2333	0.7188	220.28	2.3430
12:35:50	137.85	2041.38	5.2361	0.7190	221.29	2.3450
12:36:10	137.80	2040.48	5.2417	0.7195	222.19	2.3467
12:36:50	137.75	2037.63	5.2528	0.7204	225.04	2.3523
12:37:10	137.75	2036.64	5.2583	0.7208	226.03	2.3542
12:37:20	137.70	2036.11	5.2611	0.7211	226.56	2.3552
12:37:30	137.70	2036.06	5.2639	0.7213	226.60	2.3553
12:37:40	137.65	2036.58	5.2667	0.7215	226.09	2.3543
12:37:50	137.65	2035.59	5.2694	0.7218	227.08	2.3562
12:38:30	137.60	2034.78	5.2806	0.7227	227.89	2.3577
12:38:40	137.60	2034.39	5.2833	0.7229	228.28	2.3585
12:39:20	137.60	2033.81	5.2944	0.7238	228.86	2.3596
12:39:40	137.60	2034.06	5.3000	0.7243	228.61	2.3591
12:39:50	137.55	2033.14	5.3028	0.7245	229.53	2.3608
12:40:10	137.55	2033.33	5.3083	0.7250	229.34	2.3605
12:40:20	137.55	2032.84	5.3111	0.7252	229.83	2.3614
12:40:40	137.55	2032.84	5.3167	0.7256	229.83	2.3614
12:41:00	137.51	2032.22	5.3222	0.7261	230.45	2.3626
12:41:10	137.51	2032.15	5.3250	0.7263	230.52	2.3627
12:41:20	137.51	2032.62	5.3278	0.7265	230.05	2.3618
12:41:30	137.51	2032.18	5.3306	0.7268	230.49	2.3627
12:41:40	137.51	2032.36	5.3333	0.7270	230.31	2.3623
12:41:50	137.51	2031.74	5.3361	0.7272	230.93	2.3635
12:42:10	137.51	2032.04	5.3417	0.7277	230.63	2.3629
12:42:50	137.51	2031.16	5.3528	0.7286	231.51	2.3646
12:43:00	137.46	2031.26	5.3556	0.7288	231.41	2.3644
12:43:10	137.46	2031.81	5.3583	0.7290	230.86	2.3633
12:43:20	137.46	2031.02	5.3611	0.7293	231.65	2.3648
12:43:30	137.46	2031.19	5.3639	0.7295	231.48	2.3645
12:43:50	137.46	2030.35	5.3694	0.7299	232.32	2.3661
12:44:10	137.46	2030.77	5.3750	0.7304	231.90	2.3653
12:44:20	137.46	2030.79	5.3778	0.7306	231.88	2.3653
12:44:30	137.46	2030.42	5.3806	0.7308	232.25	2.3660
12:44:40	137.46	2030.51	5.3833	0.7311	232.16	2.3658
12:44:50	137.41	2030.15	5.3861	0.7313	232.52	2.3665
12:45:10	137.41	2030.22	5.3917	0.7317	232.45	2.3663
12:45:50	137.41	2029.71	5.4028	0.7326	232.96	2.3673
12:46:10	137.41	2029.71	5.4083	0.7331	232.96	2.3673
12:46:20	137.41	2029.41	5.4111	0.7333	233.26	2.3678
12:46:30	137.41	2030.24	5.4139	0.7335	232.43	2.3663
12:46:40	137.36	2029.09	5.4167	0.7337	233.58	2.3684
12:46:50	137.36	2029.60	5.4194	0.7340	233.07	2.3675
12:47:10	137.41	2029.36	5.4250	0.7344	233.31	2.3679
12:47:20	137.41	2028.92	5.4278	0.7346	233.75	2.3687
12:47:30	137.36	2029.19	5.4306	0.7348	233.48	2.3683
12:48:10	137.41	2028.95	5.4417	0.7357	233.72	2.3687
12:48:20	137.36	2028.84	5.4444	0.7360	233.83	2.3689
12:48:30	137.41	2029.52	5.4472	0.7362	233.15	2.3676
12:49:10	137.41	2028.88	5.4583	0.7371	233.79	2.3688
12:49:30	137.41	2029.34	5.4639	0.7375	233.33	2.3680

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
12:49:40	137.41	2028.88	5.4667	0.7377	233.79	2.3688
12:50:20	137.41	2029.01	5.4778	0.7386	233.66	2.3686
12:50:30	137.36	2028.91	5.4806	0.7388	233.76	2.3688
12:50:40	137.36	2029.32	5.4833	0.7390	233.35	2.3680
12:50:50	137.36	2028.88	5.4861	0.7393	233.79	2.3688
12:51:10	137.36	2029.19	5.4917	0.7397	233.48	2.3683
12:52:30	137.36	2029.09	5.5139	0.7415	233.58	2.3684
12:53:10	137.36	2028.93	5.5250	0.7423	233.74	2.3687
12:53:20	137.36	2029.23	5.5278	0.7426	233.44	2.3682
12:53:40	137.41	2029.18	5.5333	0.7430	233.49	2.3683
12:53:50	137.36	2029.42	5.5361	0.7432	233.25	2.3678
12:54:30	137.36	2029.19	5.5472	0.7441	233.48	2.3683
12:54:50	137.36	2029.60	5.5528	0.7445	233.07	2.3675
12:56:10	137.41	2029.41	5.5750	0.7462	233.26	2.3678
12:56:30	137.36	2029.25	5.5806	0.7467	233.42	2.3681
12:56:50	137.36	2029.67	5.5861	0.7471	233.00	2.3674
12:57:10	137.41	2029.25	5.5917	0.7475	233.42	2.3681
12:57:50	137.41	2029.80	5.6028	0.7484	232.87	2.3671
12:58:10	137.36	2029.58	5.6083	0.7488	233.09	2.3675
12:58:50	137.36	2029.72	5.6194	0.7497	232.95	2.3673
12:59:00	137.36	2029.56	5.6222	0.7499	233.11	2.3676
12:59:10	137.36	2029.95	5.6250	0.7501	232.72	2.3668
12:59:20	137.36	2029.51	5.6278	0.7503	233.16	2.3677
12:59:40	137.41	2029.64	5.6333	0.7508	233.03	2.3674
12:59:50	137.36	2029.51	5.6361	0.7510	233.16	2.3677
13:00:00	137.36	2030.02	5.6389	0.7512	232.65	2.3667
13:00:40	137.36	2029.63	5.6500	0.7520	233.04	2.3674
13:01:00	137.41	2030.13	5.6556	0.7525	232.54	2.3665
13:01:20	137.36	2029.44	5.6611	0.7529	233.23	2.3678
13:01:40	137.41	2029.76	5.6667	0.7533	232.91	2.3672
13:03:00	137.41	2029.57	5.6889	0.7550	233.10	2.3675
13:03:40	137.36	2029.67	5.7000	0.7559	233.00	2.3674
13:03:50	137.36	2030.02	5.7028	0.7561	232.65	2.3667
13:04:30	137.41	2029.85	5.7139	0.7569	232.82	2.3670
13:04:50	137.36	2029.86	5.7194	0.7574	232.81	2.3670
13:05:00	137.41	2029.97	5.7222	0.7576	232.70	2.3668
13:05:20	137.36	2029.70	5.7278	0.7580	232.97	2.3673
13:05:40	137.41	2029.85	5.7333	0.7584	232.82	2.3670
13:05:50	137.41	2029.99	5.7361	0.7586	232.68	2.3668
13:06:00	137.36	2029.63	5.7389	0.7588	233.04	2.3674
13:06:10	137.36	2029.95	5.7417	0.7590	232.72	2.3668
13:06:30	137.41	2029.62	5.7472	0.7595	233.05	2.3675
13:06:40	137.41	2030.01	5.7500	0.7597	232.66	2.3667
13:07:20	137.41	2029.66	5.7611	0.7605	233.01	2.3674
13:08:00	137.36	2029.90	5.7722	0.7613	232.77	2.3669
13:08:10	137.41	2030.08	5.7750	0.7616	232.59	2.3666
13:08:20	137.41	2029.80	5.7778	0.7618	232.87	2.3671
13:09:00	137.36	2030.09	5.7889	0.7626	232.58	2.3666
13:09:40	137.41	2029.80	5.8000	0.7634	232.87	2.3671
13:10:00	137.41	2030.13	5.8056	0.7638	232.54	2.3665
13:10:40	137.41	2030.18	5.8167	0.7647	232.49	2.3664
13:10:50	137.36	2030.37	5.8194	0.7649	232.30	2.3661
13:11:00	137.41	2029.99	5.8222	0.7651	232.68	2.3668
13:11:20	137.41	2030.11	5.8278	0.7655	232.56	2.3665
13:11:30	137.41	2030.34	5.8306	0.7657	232.33	2.3661
13:12:10	137.41	2030.01	5.8417	0.7665	232.66	2.3667
13:12:50	137.41	2030.18	5.8528	0.7674	232.49	2.3664
13:13:10	137.41	2030.15	5.8583	0.7678	232.52	2.3665
13:13:20	137.41	2030.59	5.8611	0.7680	232.08	2.3656
13:13:30	137.41	2030.11	5.8639	0.7682	232.56	2.3665
13:13:40	137.36	2030.48	5.8667	0.7684	232.19	2.3658
13:13:50	137.41	2030.08	5.8694	0.7686	232.59	2.3666

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
13:14:10	137.41	2030.06	5.8750	0.7690	232.61	2.3666
13:14:30	137.41	2031.08	5.8806	0.7694	231.59	2.3647
13:14:40	137.41	2030.24	5.8833	0.7696	232.43	2.3663
13:15:00	137.41	2030.22	5.8889	0.7700	232.45	2.3663
13:15:10	137.41	2029.99	5.8917	0.7702	232.68	2.3668
13:15:20	137.41	2030.43	5.8944	0.7704	232.24	2.3659
13:15:40	137.41	2030.08	5.9000	0.7709	232.59	2.3666
13:16:00	137.41	2030.43	5.9056	0.7713	232.24	2.3659
13:16:20	137.36	2030.16	5.9111	0.7717	232.51	2.3664
13:17:00	137.36	2030.48	5.9222	0.7725	232.19	2.3658
13:17:10	137.36	2030.28	5.9250	0.7727	232.39	2.3662
13:17:20	137.41	2030.59	5.9278	0.7729	232.08	2.3656
13:17:40	137.36	2030.32	5.9333	0.7733	232.35	2.3661
13:18:20	137.36	2030.53	5.9444	0.7741	232.14	2.3657
13:18:30	137.36	2030.72	5.9472	0.7743	231.95	2.3654
13:18:40	137.41	2030.43	5.9500	0.7745	232.24	2.3659
13:19:20	137.41	2030.52	5.9611	0.7753	232.15	2.3658
13:19:40	137.41	2030.57	5.9667	0.7757	232.10	2.3657
13:19:50	137.41	2030.64	5.9694	0.7759	232.03	2.3655
13:20:00	137.41	2030.24	5.9722	0.7761	232.43	2.3663
13:20:10	137.36	2030.60	5.9750	0.7763	232.07	2.3656
13:20:30	137.36	2030.39	5.9806	0.7767	232.28	2.3660
13:20:50	137.36	2030.79	5.9861	0.7771	231.88	2.3653
13:21:00	137.41	2030.22	5.9889	0.7773	232.45	2.3663
13:21:10	137.41	2030.71	5.9917	0.7775	231.96	2.3654
13:21:50	137.41	2030.52	6.0028	0.7784	232.15	2.3658
13:22:10	137.41	2030.52	6.0083	0.7788	232.15	2.3658
13:22:20	137.41	2030.92	6.0111	0.7790	231.75	2.3650
13:22:30	137.41	2030.48	6.0139	0.7792	232.19	2.3658
13:22:50	137.41	2031.08	6.0194	0.7796	231.59	2.3647
13:23:00	137.36	2030.60	6.0222	0.7798	232.07	2.3656
13:23:20	137.36	2030.44	6.0278	0.7802	232.23	2.3659
13:24:00	137.36	2031.06	6.0389	0.7810	231.60	2.3647
13:24:20	137.41	2030.59	6.0444	0.7814	232.08	2.3656
13:24:30	137.41	2031.78	6.0472	0.7816	230.89	2.3634
13:24:40	137.36	2031.69	6.0500	0.7818	230.98	2.3636
13:24:50	137.41	2030.82	6.0528	0.7820	231.85	2.3652
13:25:30	137.41	2030.73	6.0639	0.7828	231.94	2.3654
13:25:50	137.41	2030.96	6.0694	0.7831	231.71	2.3649
13:26:10	137.36	2030.69	6.0750	0.7835	231.98	2.3654
13:26:50	137.41	2031.06	6.0861	0.7843	231.61	2.3648
13:27:00	137.41	2030.87	6.0889	0.7845	231.80	2.3651
13:27:10	137.46	2031.47	6.0917	0.7847	231.20	2.3640
13:27:30	137.41	2030.99	6.0972	0.7851	231.68	2.3649
13:28:10	137.41	2031.22	6.1083	0.7859	231.45	2.3645
13:28:30	137.46	2031.14	6.1139	0.7863	231.53	2.3646
13:28:40	137.41	2031.31	6.1167	0.7865	231.36	2.3643
13:28:50	137.41	2031.06	6.1194	0.7867	231.61	2.3648
13:29:00	137.41	2031.34	6.1222	0.7869	231.33	2.3642
13:29:10	137.41	2031.03	6.1250	0.7871	231.64	2.3648
13:29:20	137.41	2031.29	6.1278	0.7873	231.38	2.3643
13:29:40	137.41	2030.99	6.1333	0.7877	231.68	2.3649
13:30:00	137.41	2031.40	6.1389	0.7881	231.27	2.3641
13:30:20	137.41	2031.01	6.1444	0.7885	231.66	2.3648
13:30:40	137.41	2031.17	6.1500	0.7889	231.50	2.3645
13:30:50	137.41	2030.96	6.1528	0.7891	231.71	2.3649
13:31:30	137.41	2031.27	6.1639	0.7899	231.40	2.3644
13:31:40	137.41	2030.89	6.1667	0.7901	231.78	2.3651
13:31:50	137.41	2031.29	6.1694	0.7902	231.38	2.3643
13:32:10	137.41	2031.08	6.1750	0.7906	231.59	2.3647
13:32:20	137.41	2031.64	6.1778	0.7908	231.03	2.3637
13:33:00	137.41	2031.22	6.1889	0.7916	231.45	2.3645

TIME 28-AUG-83	SDT degF	SDP psia	t-t0 HR	L(t-t0)	P-P0 psia	L(P-P0)
13:33:20	137.41	2031.50	6.1944	0.7920	231.17	2.3639
13:33:30	137.41	2031.29	6.1972	0.7922	231.38	2.3643
13:33:40	137.41	2031.52	6.2000	0.7924	231.15	2.3639
13:34:20	137.46	2031.28	6.2111	0.7932	231.39	2.3643
13:35:00	137.46	2031.67	6.2222	0.7939	231.00	2.3636
13:35:20	137.46	2031.56	6.2278	0.7943	231.11	2.3638
13:35:30	137.46	2032.32	6.2306	0.7945	230.35	2.3624
13:35:40	137.41	2031.64	6.2333	0.7947	231.03	2.3637
13:35:50	137.41	2031.48	6.2361	0.7949	231.19	2.3640
13:36:00	137.41	2031.99	6.2389	0.7951	230.68	2.3630
13:36:20	137.46	2031.49	6.2444	0.7955	231.18	2.3640
13:36:40	137.41	2032.10	6.2500	0.7959	230.57	2.3628
13:36:50	137.41	2031.89	6.2528	0.7961	230.78	2.3632
13:37:00	137.46	2032.14	6.2556	0.7963	230.53	2.3627
13:37:20	137.46	2031.77	6.2611	0.7967	230.90	2.3634
13:37:40	137.46	2032.23	6.2667	0.7970	230.44	2.3626
13:38:00	137.46	2031.81	6.2722	0.7974	230.86	2.3633
13:38:10	137.46	2032.21	6.2750	0.7976	230.46	2.3626
13:38:30	137.46	2032.30	6.2806	0.7980	230.37	2.3624
13:38:40	137.41	2032.05	6.2833	0.7982	230.62	2.3629
13:39:20	137.41	2032.36	6.2944	0.7990	230.31	2.3623
13:39:30	137.46	2032.09	6.2972	0.7991	230.58	2.3628
13:39:40	137.46	2032.81	6.3000	0.7993	229.86	2.3615
13:40:00	137.46	2032.28	6.3056	0.7997	230.39	2.3625
13:40:10	137.46	2032.51	6.3083	0.7999	230.16	2.3620
13:40:20	137.41	2033.22	6.3111	0.8001	229.45	2.3607
13:40:40	137.46	2032.56	6.3167	0.8005	230.11	2.3619
13:40:50	137.46	2032.86	6.3194	0.8007	229.81	2.3614
13:41:00	137.46	2032.30	6.3222	0.8009	230.37	2.3624
13:41:40	137.46	2033.02	6.3333	0.8016	229.65	2.3611
13:42:00	137.51	2032.78	6.3389	0.8020	229.89	2.3615
13:42:40	137.46	2033.21	6.3500	0.8028	229.46	2.3607
13:42:50	137.46	2032.74	6.3528	0.8030	229.93	2.3616
13:43:10	137.46	2033.00	6.3583	0.8033	229.67	2.3611
13:43:20	137.46	2034.11	6.3611	0.8035	228.56	2.3590
13:43:30	137.51	2036.28	6.3639	0.8037	226.39	2.3548
13:43:40	137.46	2036.57	6.3667	0.8039	226.10	2.3543
13:44:00	137.55	2035.95	6.3722	0.8043	226.72	2.3555

CRG stop recording due to strong vibrations

# TECHNICAL DATA

## GAUGE

Type : CRG  
Transducer module : 82814  
Recorder module : 83044

## OPERATION SET UP

Delay time : 5 min  
Scanning rate : 10 sec  
Averaging : 8  
Relative values : USED  
Compression algorithm : USED  
Compression level : 8

## CALIBRATION DATA

### Before job:

Ambiant pressure : 16.09 PSIA  
Ambiant Temperature : 14.78 °C

### After job:

Ambiant pressure : 16.92 PSIA  
Ambiant temperature : 15.07 °C

Date last calibration : 19.08.83