

FLOWPETROL S.A.

→ No recovered S. Value
→ Test to evaluate GL
performance values.

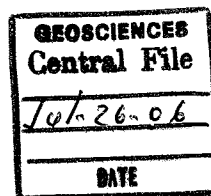
→ Take is representative!
UD

LO16-14

BHP & FLOWING GRADIENT TEST

FIELD: LOBITOS OFFSHORE

NOVEMBER 13th, 2003

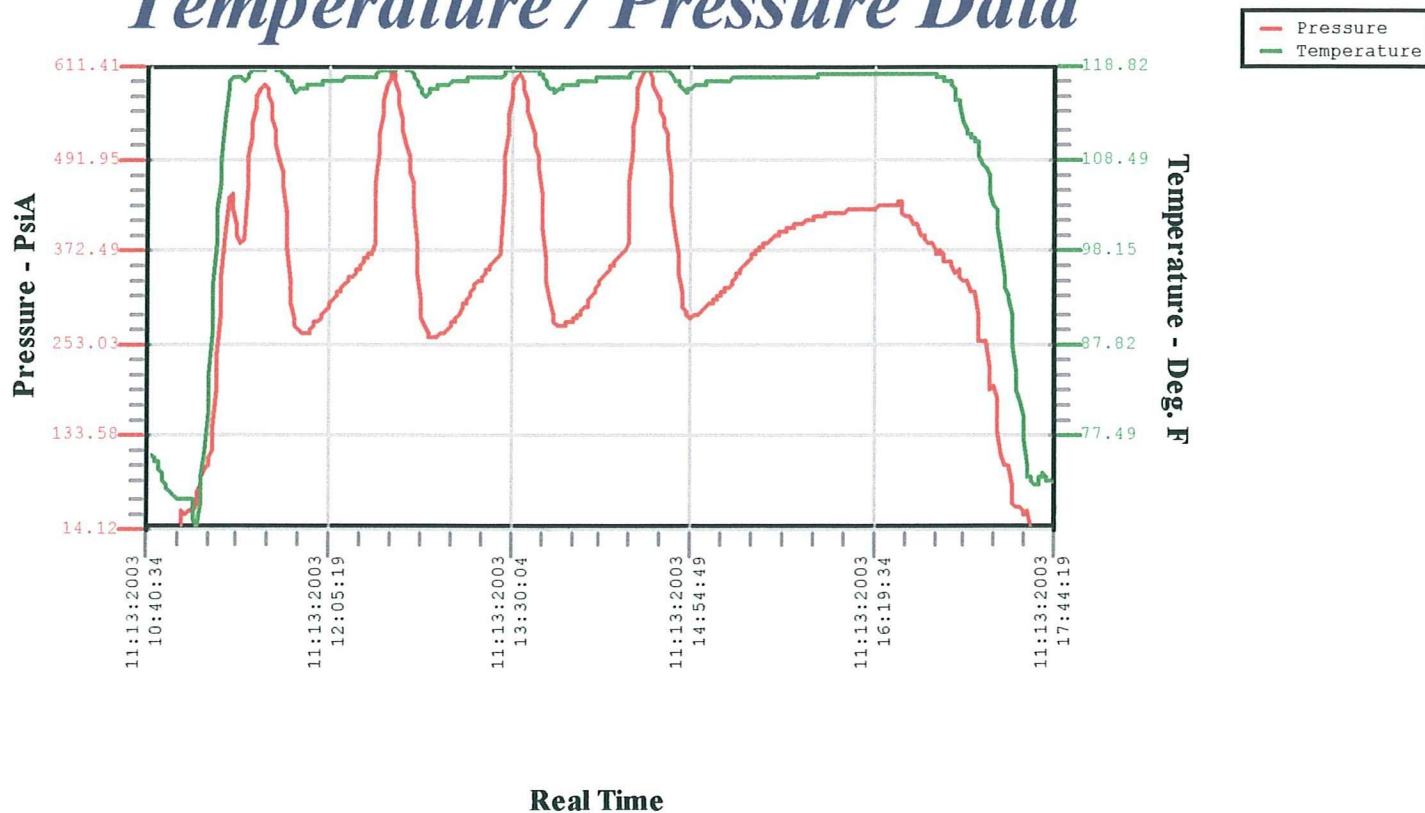


Well Test Data

Test name: FGL014-16

Company: FLOWPETROL S.A.
Client: PETRO-TECH PERUANA S.A.
Gauge number: EMS-2000 S/N 91176
Well name: L016-14
Well number: 14
Test number: 060
Field name: LOBITOS OFFSHORE
County: TALARA
State: PIURA
Date of test: NOVEMBER, 13th, 2003
Type of test: BHP & FLOWING GRADIENT TEST
Well status: PRODUCER
BHP on bottom: 288.09 PSIA
BHP off bottom: 434.44 PSIA
Bottom gauge number: 91176
Starting tubing pressure: 25 PSIG
Starting casing pressure: -
Ending tubing pressure: 25 PSIG
Ending casing pressure: -
Depth of tool: 9410'
Surface elevation: -
Tool zero point: -
Tubing size: 2 7/8"
Bottom hole temperature: 117.83 deg F
:
:
Test operator: Eng. Marcial Cáceres
Comments:
:
:

Temperature / Pressure Data



FLOWPETROL S.A.

FLOWING GRADIENT TEST

Field : Lobitos Offshore
Well : LO16-14

Sand(s) : Basal Salina
Interval(s) : (9664'-9460')

At Flowing Condition

Wet Gas at 3063'

Oil Level at 9041

Gauge at 9410'

9460'

Basal Salina

9664'

9944'

Basal Salina

10066'

10166'

Basal Salina

10176'

J-40 at 6962'

J-40 at 8433'

Bk-1 at 9380'

Packer at 9416'

Seat Nipple at 9444'

Bridge Plug at 9750'

Bridge Plug at 10100'

Fc at 10330'

Well Status : Producer
Installation : 2 7/8"
Production (MSCFD) : 60 (October, 2003)
Cumul. (STB) : 730161 (October, 2003)

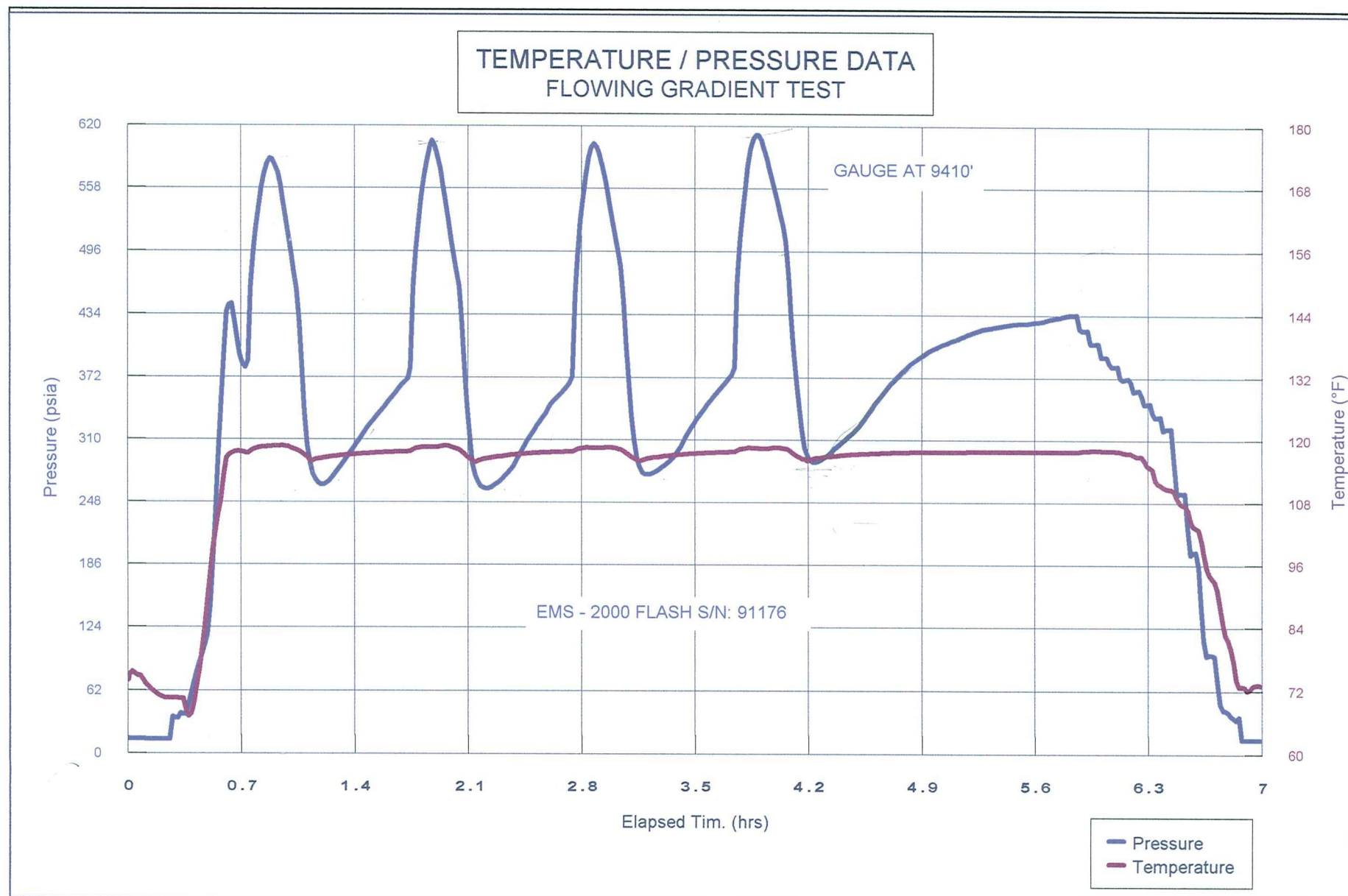
FIELD REPORT :

November 13th, 2003

08:00 Rig up
09:42 RIH Dead Weight at 9444
10:41 Activate Memory gauges FPT
11:02 RIH Gauges
11:18 Gauges at 9410'.
11:24 First Injeccion
12:24 Second Injeccion
13:24 Thirst Injeccion
14:24 Four Injeccion
14:36 Shut in gas Injeccion *to 2 hrs*
16:30 POOH Gauges with steps at follows:
9410' - 9300' - 9200' - 9100' - 9000' - 8800'
8600' - 8400' - 8200' - 8000' - 7000' - 6000'
4000' - 2000' - 0'
17:30 Gauges on Surface
18:00 Rig Down.

Field Operator : Jorge Sanjinez

Field Supervisor : Marcial Cáceres



Summary of Results Well: LO16-14

Date of Test	November 13th, 2003	
Formation	Basal Salina	(9664' - 9460')
Depth of gauges	9,410	M.D. ft
	7,479	V.D. ft
03 Hrs. at Flowing Condition		
Flowing Pressure at 9410' MD	434.44	psia (Memory)
Flowing Temperature at 9410' MD	117.83	°F
Gradient at 9410' MD	0.0581	psi/ft
Oil level	9041	ft. MD
	7187	ft. VD
Wet Gas Level	3063	ft. MD
	2647	ft. VD
Oil Gradient	0.1696	psi/ft
Wet Gas Gradient	0.0749	psi/ft

9562' MD

Set and Security:

Personal Elements of Security: Complete.

I was made cleaning in Location

Remark:

Injection Cycle 54' x 6
 System Pressure 950 psig
 Separator Pressure 25 psig

$$9562' \text{ MD} =$$

$$F6 = \frac{534}{7194}$$

$$MPP = 9562' \text{ MD} (7596' \text{ VD})$$

$$F6 = \frac{534 \text{ psi}}{7194}$$

$$F6 = 0.074 \text{ psi/ft}$$

$$F6 \text{ Base } 434 \text{ psi}$$

$$G: F6 \text{ G} = \frac{834}{7194} = 0.1098$$

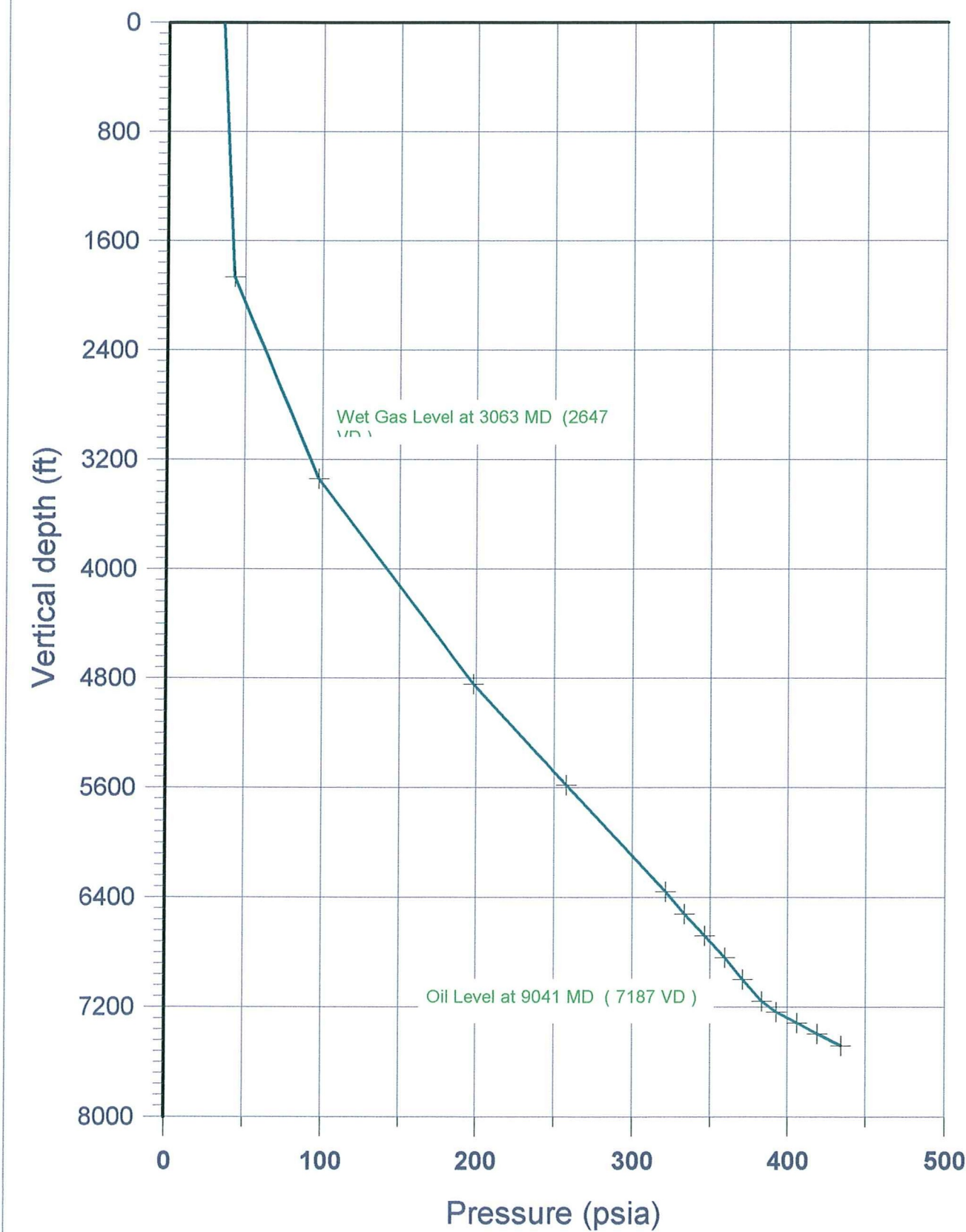
Fluid Level at Flowing Condition (while POOH gauges)

Measured depth (ft)	Vertical depth (ft)	Pressure (psia)	Gradient (psi/ft)
0	0.00	35.64	
2000	1863.24	42.78	0.0038
4000	3338.11	97.41	0.0370
6000	4842.33	198.27	0.0671
7000	5580.03	257.61	0.0804
8000	6355.38	321.28	0.0821
8200	6515.15	333.40	0.0759
8400	6676.41	346.48	0.0811
8600	6835.81	359.39	0.0810
8800	6994.83	370.93	0.0726
9000	7153.86	383.28	0.0777
9100	7233.37	392.76	0.1192
9200	7312.88	406.16	0.1685
9300	7392.39	419.05	0.1621
9410	7479.09	434.44	0.1775

Levels & Gradients

	Flowing levels		Gradient (psi/ft)
	Measured (ft)	Vertical (ft)	
Gas=	0	0	0.0038
Wet Gas=	3063	2647	0.0749
Oil=	9041	7187	0.1696
Gauges =	9410	7479	0.0581

Fluid Level at Flowing Condition (while POOH gauges)



Well LO16-14: Development Test

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)	Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
Activate Gauge s/n: 91176					11/13/2003	11:36:19	0.92917	573.21	118.74
11/13/2003	10:40:34	0.00000	14.74	73.90	11/13/2003	11:37:19	0.94583	560.53	118.76
11/13/2003	10:40:35	0.00028	14.88	73.91	11/13/2003	11:38:19	0.96250	544.14	118.75
11/13/2003	10:40:36	0.00056	14.83	73.93	11/13/2003	11:39:19	0.97917	527.20	118.71
11/13/2003	10:40:37	0.00083	14.86	73.94	11/13/2003	11:40:19	0.99583	509.63	118.57
11/13/2003	10:40:38	0.00111	14.91	73.95	11/13/2003	11:41:19	1.01250	491.93	118.38
11/13/2003	10:40:39	0.00139	14.81	73.96	11/13/2003	11:42:19	1.02917	474.84	118.17
11/13/2003	10:40:40	0.00167	14.92	73.96	11/13/2003	11:43:19	1.04583	458.10	117.97
11/13/2003	10:40:41	0.00194	14.86	73.97	11/13/2003	11:44:19	1.06250	424.36	117.70
11/13/2003	10:40:42	0.00222	14.91	73.97	11/13/2003	11:45:19	1.07917	376.70	117.35
11/13/2003	10:40:43	0.00250	14.83	73.97	11/13/2003	11:46:19	1.09583	336.86	116.95
11/13/2003	10:40:44	0.00278	14.73	73.98	11/13/2003	11:47:19	1.11250	304.41	116.60
11/13/2003	10:40:45	0.00306	14.74	73.98	11/13/2003	11:48:19	1.12917	286.91	115.83
11/13/2003	10:40:46	0.00333	14.82	73.99	11/13/2003	11:49:19	1.14583	276.73	115.94
11/13/2003	10:40:47	0.00361	14.82	73.99	11/13/2003	11:50:19	1.16250	270.65	116.14
11/13/2003	10:40:48	0.00389	14.79	73.99	11/13/2003	11:51:19	1.17917	267.11	116.29
11/13/2003	10:40:49	0.00417	14.83	74.00	11/13/2003	11:52:19	1.19583	265.17	116.39
11/13/2003	10:40:50	0.00444	14.91	74.03	11/13/2003	11:53:19	1.21250	265.24	116.47
11/13/2003	10:40:51	0.00472	14.92	74.04	11/13/2003	11:54:19	1.22917	266.60	116.55
11/13/2003	10:40:52	0.00500	14.78	74.04	11/13/2003	11:55:19	1.24583	268.71	116.62
11/13/2003	10:40:53	0.00528	14.82	74.05	11/13/2003	11:56:19	1.26250	271.96	116.68
11/13/2003	10:40:54	0.00556	14.70	74.06	11/13/2003	11:57:19	1.27917	275.48	116.75
11/13/2003	10:40:55	0.00583	14.81	74.09	11/13/2003	11:58:19	1.29583	279.35	116.81
11/13/2003	10:40:56	0.00611	14.95	74.23	11/13/2003	11:59:19	1.31250	282.98	116.87
11/13/2003	10:40:57	0.00639	14.58	74.34	11/13/2003	12:00:19	1.32917	286.45	116.93
11/13/2003	10:40:58	0.00667	14.55	74.39	11/13/2003	12:01:19	1.34583	289.95	116.98
11/13/2003	10:40:59	0.00694	14.41	74.42	11/13/2003	12:02:19	1.36250	294.06	117.03
11/13/2003	10:41:00	0.00722	14.55	74.43	11/13/2003	12:03:19	1.37917	298.03	117.07
11/13/2003	10:41:01	0.00750	14.46	74.42	11/13/2003	12:04:19	1.39583	301.65	117.11
11/13/2003	10:41:02	0.00778	14.44	74.44	11/13/2003	12:05:19	1.41250	305.57	117.15
11/13/2003	10:41:03	0.00806	14.52	74.45	11/13/2003	12:06:19	1.42917	309.40	117.18
11/13/2003	10:41:04	0.00833	14.66	74.46	11/13/2003	12:07:19	1.44583	313.52	117.22
11/13/2003	10:41:05	0.00861	14.48	74.48	11/13/2003	12:08:19	1.46250	317.62	117.26
11/13/2003	10:41:06	0.00889	14.57	74.47	11/13/2003	12:09:19	1.47917	321.45	117.30
11/13/2003	10:41:07	0.00917	14.47	74.52	11/13/2003	12:10:19	1.49583	325.04	117.34
11/13/2003	10:41:08	0.00944	14.40	74.59	11/13/2003	12:11:19	1.51250	328.42	117.37
11/13/2003	10:41:19	0.01250	14.45	75.04	11/13/2003	12:12:19	1.52917	331.82	117.40
11/13/2003	10:42:19	0.02917	14.59	75.54	11/13/2003	12:13:19	1.54583	335.04	117.43
11/13/2003	10:43:19	0.04583	14.41	75.23	11/13/2003	12:14:19	1.56250	338.23	117.46
11/13/2003	10:44:19	0.06250	14.50	74.90	11/13/2003	12:15:19	1.57917	341.49	117.49
11/13/2003	10:45:19	0.07917	14.49	74.82	11/13/2003	12:16:19	1.59583	344.89	117.51
11/13/2003	10:46:19	0.09583	14.44	74.02	11/13/2003	12:17:19	1.61250	348.11	117.54
11/13/2003	10:47:19	0.11250	14.39	73.30	11/13/2003	12:18:19	1.62917	351.43	117.56
11/13/2003	10:48:19	0.12917	14.35	72.78	11/13/2003	12:19:19	1.64583	354.78	117.58
11/13/2003	10:49:19	0.14583	14.32	72.29	11/13/2003	12:20:19	1.66250	358.30	117.60
11/13/2003	10:50:19	0.16250	14.29	71.82	11/13/2003	12:21:19	1.67917	361.79	117.62
11/13/2003	10:51:19	0.17917	14.28	71.43	11/13/2003	12:22:19	1.69583	364.83	117.64
11/13/2003	10:52:19	0.19583	14.22	71.11	11/13/2003	12:23:19	1.71250	367.72	117.66
11/13/2003	10:53:19	0.21250	14.18	70.84	11/13/2003	12:24:19	1.72917	370.53	117.67
11/13/2003	10:54:19	0.22917	14.21	70.64	Second Injection				
11/13/2003	10:55:19	0.24583	14.12	70.57	11/13/2003	12:25:19	1.74583	380.95	117.70
11/13/2003	10:56:19	0.26250	14.35	70.51	11/13/2003	12:26:19	1.76250	459.70	118.09
11/13/2003	10:57:19	0.27917	36.43	70.51	11/13/2003	12:27:19	1.77917	498.28	118.35
11/13/2003	10:58:19	0.29583	35.71	70.58	11/13/2003	12:28:19	1.79583	525.72	118.47
11/13/2003	10:59:19	0.31250	35.06	70.51	11/13/2003	12:29:19	1.81250	548.83	118.51
11/13/2003	11:00:19	0.32917	39.64	70.47	11/13/2003	12:30:19	1.82917	569.37	118.51
11/13/2003	11:01:19	0.34583	38.80	70.43	11/13/2003	12:31:19	1.84583	585.08	118.51
11/13/2003	11:02:19	0.36250	38.92	68.49	11/13/2003	12:32:19	1.86250	598.43	118.51
RIH Gauges					11/13/2003	12:33:19	1.87917	605.16	118.51
11/13/2003	11:03:19	0.37917	48.44	67.15	11/13/2003	12:34:19	1.89583	599.94	118.50
11/13/2003	11:04:19	0.39583	60.71	67.70	11/13/2003	12:35:19	1.91250	589.62	118.50
11/13/2003	11:05:19	0.41250	71.06	69.93	11/13/2003	12:36:19	1.92917	577.40	118.73
11/13/2003	11:06:19	0.42917	80.69	72.89	11/13/2003	12:37:19	1.94583	561.68	118.81
11/13/2003	11:07:19	0.44583	89.74	75.95	11/13/2003	12:38:19	1.96250	544.57	118.82
11/13/2003	11:08:19	0.46250	98.58	80.09	11/13/2003	12:39:19	1.97917	527.13	118.75
11/13/2003	11:09:19	0.47917	107.36	84.40	11/13/2003	12:40:19	1.99583	509.86	118.61
11/13/2003	11:10:19	0.49583	116.02	89.05	11/13/2003	12:41:19	2.01250	492.55	118.45
11/13/2003	11:11:19	0.51250	145.63	94.29	11/13/2003	12:42:19	2.02917	476.59	118.25
11/13/2003	11:12:19	0.52917	191.52	99.10	11/13/2003	12:43:19	2.04583	461.59	118.04
11/13/2003	11:13:19	0.54583	238.56	102.88	11/13/2003	12:44:19	2.06250	431.01	117.75
11/13/2003	11:14:19	0.56250	289.56	105.75	11/13/2003	12:45:19	2.07917	383.30	117.24
11/13/2003	11:15:19	0.57917	340.03	108.29	11/13/2003	12:46:19	2.09583	343.46	116.75
11/13/2003	11:16:19	0.59583	392.43	112.95	11/13/2003	12:47:19	2.11250	312.22	116.34
11/13/2003	11:17:19	0.61250	436.05	116.43	11/13/2003	12:48:19	2.12917	286.72	116.03
Gauges at 9410'					11/13/2003	12:49:19	2.14583	275.63	115.63
11/13/2003	11:18:19	0.62917	442.82	117.03	11/13/2003	12:50:19	2.16250	268.38	115.91
11/13/2003	11:19:19	0.64583	444.37	117.39	11/13/2003	12:51:19	2.17917	263.91	116.13
11/13/2003	11:20:19	0.66250	427.87	117.62	11/13/2003	12:52:19	2.19583	262.36	116.26
11/13/2003	11:21:19	0.67917	408.91	117.70	11/13/2003	12:53:19	2.21250	261.35	116.36
11/13/2003	11:22:19	0.69583	394.05	117.70	11/13/2003	12:54:19	2.22917	261.88	116.44
11/13/2003	11:23:19	0.71250	384.93	117.65	11/13/2003	12:55:19	2.24583	263.00	116.52
11/13/2003	11:24:19	0.72917	381.10	117.47	11/13/2003	12:56:19	2.26250	264.80	116.60
First Injection					11/13/2003	12:57:19	2.27917	266.47	116.68
11/13/2003	11:25:19	0.74583	388.63	117.34	11/13/2003	12:58:19	2.29583	268.49	116.76
11/13/2003	11:26:19	0.76250	458.41	117.73	11/13/2003	12:59:19	2.31250	271.06	116.83
11/13/2003	11:27:19	0.77917	494.73	118.05	11/13/2003	13:00:19	2.32917	273.87	116.91
11/13/2003	11:28:19	0.79583	520.28	118.25	11/13/2003	13:01:19	2.34583	276.91	116.98
11/13/2003	11:29:19	0.81250	540.74	118.39	11/13/2003	13:02:19	2.36250	280.16	117.05
11/13/2003	11:30:19	0.82917	558.67	118.50	11/13/2003	13:03:19	2.37917	283.31	117.12
11/13/2003	11:31:19	0.84583	572.28	118.54	11/13/2003	13:04:19	2.39583	287.94	117.17
11/13/2003	11:32:19	0.86250	582.60	118.57	11/13/2003	13:05:19	2.41250	293.12	117.21
11/13/2003	11:33:19	0.87917	587.22	118.60	11/13/2003	13:06:19	2.42917	298.24	117.26
11/13/2003	11:34:19	0.89583	586.35	118.67	11/13/2003	13:07:19	2.44583	303.41	117.30
11/13/2003	11:35:19	0.91250	580.15	118.72	11/13/2003	13:08:19	2.46250	307.85	117.35

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
11/13/2003	13:09:19	2.47917	311.98	117.38
11/13/2003	13:10:19	2.49583	318.25	117.42
11/13/2003	13:11:19	2.51250	320.53	117.45
11/13/2003	13:12:19	2.52917	324.46	117.48
11/13/2003	13:13:19	2.54583	328.39	117.50
11/13/2003	13:14:19	2.56250	332.33	117.53
11/13/2003	13:15:19	2.57917	336.32	117.55
11/13/2003	13:16:19	2.59583	340.87	117.57
11/13/2003	13:17:19	2.61250	345.54	117.59
11/13/2003	13:18:19	2.62917	348.62	117.61
11/13/2003	13:19:19	2.64583	351.38	117.63
11/13/2003	13:20:19	2.66250	353.90	117.64
11/13/2003	13:21:19	2.67917	356.63	117.66
11/13/2003	13:22:19	2.69583	359.79	117.67
11/13/2003	13:23:19	2.71250	363.00	117.68
Thirst Injection				
11/13/2003	13:24:19	2.72917	366.38	117.69
11/13/2003	13:25:19	2.74583	372.93	117.71
11/13/2003	13:26:19	2.76250	453.36	117.97
11/13/2003	13:27:19	2.77917	496.39	118.21
11/13/2003	13:28:19	2.79583	525.87	118.34
11/13/2003	13:29:19	2.81250	549.82	118.45
11/13/2003	13:30:19	2.82917	571.40	118.51
11/13/2003	13:31:19	2.84583	587.21	118.49
11/13/2003	13:32:19	2.86250	598.69	118.46
11/13/2003	13:33:19	2.87917	602.72	118.44
11/13/2003	13:34:19	2.89583	599.33	118.41
11/13/2003	13:35:19	2.91250	593.08	118.39
11/13/2003	13:36:19	2.92917	582.41	118.41
11/13/2003	13:37:19	2.94583	569.56	118.48
11/13/2003	13:38:19	2.96250	555.22	118.53
11/13/2003	13:39:19	2.97917	540.21	118.54
11/13/2003	13:40:19	2.99583	524.99	118.50
11/13/2003	13:41:19	3.01250	509.75	118.41
11/13/2003	13:42:19	3.02917	494.27	118.28
11/13/2003	13:43:19	3.04583	480.77	118.14
11/13/2003	13:44:19	3.06250	447.69	117.88
11/13/2003	13:45:19	3.07917	401.89	117.47
11/13/2003	13:46:19	3.09583	364.45	117.07
11/13/2003	13:47:19	3.11250	334.16	116.72
11/13/2003	13:48:19	3.12917	309.47	116.45
11/13/2003	13:49:19	3.14583	291.01	116.12
11/13/2003	13:50:19	3.16250	282.41	115.89
11/13/2003	13:51:19	3.17917	277.71	116.12
11/13/2003	13:52:19	3.19583	275.87	116.30
11/13/2003	13:53:19	3.21250	276.05	116.42
11/13/2003	13:54:19	3.22917	276.56	116.52
11/13/2003	13:55:19	3.24583	277.41	116.59
11/13/2003	13:56:19	3.26250	278.85	116.66
11/13/2003	13:57:19	3.27917	280.57	116.72
11/13/2003	13:58:19	3.29583	282.71	116.80
11/13/2003	13:59:19	3.31250	284.22	116.86
11/13/2003	14:00:19	3.32917	286.46	116.92
11/13/2003	14:01:19	3.34583	288.79	116.98
11/13/2003	14:02:19	3.36250	291.44	117.04
11/13/2003	14:03:19	3.37917	294.45	117.10
11/13/2003	14:04:19	3.39583	298.42	117.15
11/13/2003	14:05:19	3.41250	302.64	117.19
11/13/2003	14:06:19	3.42917	308.22	117.23
11/13/2003	14:07:19	3.44583	313.09	117.27
11/13/2003	14:08:19	3.46250	317.58	117.31
11/13/2003	14:09:19	3.47917	322.16	117.35
11/13/2003	14:10:19	3.49583	326.53	117.38
11/13/2003	14:11:19	3.51250	330.74	117.41
11/13/2003	14:12:19	3.52917	334.56	117.45
11/13/2003	14:13:19	3.54583	338.22	117.48
11/13/2003	14:14:19	3.56250	341.98	117.50
11/13/2003	14:15:19	3.57917	345.57	117.52
11/13/2003	14:16:19	3.59583	348.83	117.55
11/13/2003	14:17:19	3.61250	352.27	117.57
11/13/2003	14:18:19	3.62917	355.49	117.58
11/13/2003	14:19:19	3.64583	358.69	117.60
11/13/2003	14:20:19	3.66250	361.79	117.62
11/13/2003	14:21:19	3.67917	365.15	117.63
11/13/2003	14:22:19	3.69583	368.38	117.65
11/13/2003	14:23:19	3.71250	371.70	117.67
Four Injection				
11/13/2003	14:24:19	3.72917	374.57	117.68
11/13/2003	14:25:19	3.74583	381.84	117.70
11/13/2003	14:26:19	3.76250	462.24	117.98
11/13/2003	14:27:19	3.77917	503.88	118.22
11/13/2003	14:28:19	3.79583	531.96	118.34
11/13/2003	14:29:19	3.81250	557.71	118.45
11/13/2003	14:30:19	3.82917	581.28	118.51
11/13/2003	14:31:19	3.84583	597.76	118.49
11/13/2003	14:32:19	3.86250	607.21	118.47
11/13/2003	14:33:19	3.87917	611.41	118.43
11/13/2003	14:34:19	3.89583	611.24	118.40
11/13/2003	14:35:19	3.91250	606.56	118.38
11/13/2003	14:36:19	3.92917	597.22	118.36
Cut Injection				
11/13/2003	14:37:19	3.94583	588.06	118.34
11/13/2003	14:38:19	3.96250	577.66	118.43
11/13/2003	14:39:19	3.97917	566.42	118.50
11/13/2003	14:40:19	3.99583	555.12	118.54
11/13/2003	14:41:19	4.01250	544.08	118.55

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
11/13/2003	14:42:19	4.02917	533.36	118.51
11/13/2003	14:43:19	4.04583	521.99	118.46
11/13/2003	14:44:19	4.06250	505.37	118.36
11/13/2003	14:45:19	4.07917	472.72	118.14
11/13/2003	14:46:19	4.09583	432.85	117.78
11/13/2003	14:47:19	4.11250	396.09	117.35
11/13/2003	14:48:19	4.12917	366.65	116.98
11/13/2003	14:49:19	4.14583	342.00	116.69
11/13/2003	14:50:19	4.16250	320.76	116.46
11/13/2003	14:51:19	4.17917	302.42	116.33
11/13/2003	14:52:19	4.19583	294.78	115.99
11/13/2003	14:53:19	4.21250	289.83	116.17
11/13/2003	14:54:19	4.22917	288.34	116.37
11/13/2003	14:55:19	4.24583	288.09	116.50
11/13/2003	14:56:19	4.26250	288.91	116.58
11/13/2003	14:57:19	4.27917	290.45	116.65
11/13/2003	14:58:19	4.29583	292.28	116.71
11/13/2003	14:59:19	4.31250	293.55	116.77
11/13/2003	15:00:19	4.32917	295.62	116.83
11/13/2003	15:01:19	4.34583	298.31	116.88
11/13/2003	15:02:19	4.36250	301.26	116.93
11/13/2003	15:03:19	4.37917	303.84	116.99
11/13/2003	15:04:19	4.39583	306.23	117.04
11/13/2003	15:05:19	4.41250	308.15	117.09
11/13/2003	15:06:19	4.42917	310.41	117.13
11/13/2003	15:07:19	4.44583	312.96	117.17
11/13/2003	15:08:19	4.46250	315.32	117.22
11/13/2003	15:09:19	4.47917	317.63	117.26
11/13/2003	15:10:19	4.49583	320.21	117.29
11/13/2003	15:11:19	4.51250	323.24	117.32
11/13/2003	15:12:19	4.52917	326.74	117.35
11/13/2003	15:13:19	4.54583	330.45	117.37
11/13/2003	15:14:19	4.56250	334.20	117.39
11/13/2003	15:15:19	4.57917	338.20	117.41
11/13/2003	15:16:19	4.59583	341.95	117.43
11/13/2003	15:17:19	4.61250	345.90	117.45
11/13/2003	15:18:19	4.62917	349.32	117.48
11/13/2003	15:19:19	4.64583	352.87	117.50
11/13/2003	15:20:19	4.66250	356.32	117.52
11/13/2003	15:21:19	4.67917	359.64	117.54
11/13/2003	15:22:19	4.69583	362.97	117.56
11/13/2003	15:23:19	4.71250	366.21	117.58
11/13/2003	15:24:19	4.72917	369.33	117.60
11/13/2003	15:25:19	4.74583	372.14	117.61
11/13/2003	15:26:19	4.76250	374.79	117.63
11/13/2003	15:27:19	4.77917	377.41	117.64
11/13/2003	15:28:19	4.79583	380.07	117.65
11/13/2003	15:29:19	4.81250	382.39	117.66
11/13/2003	15:30:19	4.82917	384.73	117.67
11/13/2003	15:31:19	4.84583	387.16	117.68
11/13/2003	15:32:19	4.86250	388.93	117.69
11/13/2003	15:33:19	4.87917	391.03	117.70
11/13/2003	15:34:19	4.89583	392.97	117.70
11/13/2003	15:35:19	4.91250	394.84	117.70
11/13/2003	15:36:19	4.92917	396.73	117.70
11/13/2003	15:37:19	4.94583	398.33	117.71
11/13/2003	15:38:19	4.96250	399.70	117.71
11/13/2003	15:39:19	4.97917	401.12	117.72
11/13/2003	15:40:19	4.99583	402.32	117.72
11/13/2003	15:41:19	5.01250	403.47	117.72
11/13/2003	15:42:19	5.02917	404.70	117.72
11/13/2003	15:43:19	5.04583	405.80	117.73
11/13/2003	15:44:19	5.06250	406.95	117.73
11/13/2003	15:45:19	5.07917	407.93	117.73
11/13/2003	15:46:19	5.09583	408.91	117.74
11/13/2003	15:47:19	5.11250	409.93	117.74
11/13/2003	15:48:19	5.12917	410.91	117.75
11/13/2003	15:49:19	5.14583	412.12	117.75
11/13/2003	15:50:19	5.16250	413.26	117.75
11/13/2003	15:51:19	5.17917	414.59	117.76
11/13/2003	15:52:19	5.19583	415.74	117.77
11/13/2003	15:53:19	5.21250	416.64	117.77
11/13/2003	15:54:19	5.22917	417.61	117.78
11/13/2003	15:55:19	5.24583	418.46	117.78
11/13/2003	15:56:19	5.26250	419.24	117.78
11/13/2003	15:57:19	5.27917	420.04	117.78
11/13/2003	15:58:19	5.29583	420.76	117.78
11/13/2003	15:59:19	5.31250	421.17	117.78
11/13/2003	16:00:19	5.32917	421.29	117.78
11/13/2003	16:01:19	5.34583	421.87	117.78
11/13/2003	16:02:19	5.36250	422.38	117.78
11/13/2003	16:03:19	5.37917	422.87	117.78
11/13/2003	16:04:19	5.39583	423.57	117.78
11/13/2003	16:05:19	5.41250	423.91	117.78
11/13/2003	16:06:19	5.42917	424.31	117.78
11/13/2003	16:07:19	5.44583	424.90	117.78
11/13/2003	16:08:19	5.46250	425.19	117.78
11/13/2003	16:09:19	5.47917	425.16	117.78
11/13/2003	16:10:19	5.49583	425.58	117.78
11/13/2003	16:11:19	5.51250	425.81	117.78
11/13/2003	16:12:19	5.52917	425.67	117.78
11/13/2003	16:13:19	5.54583	426.00	117.78
11/13/2003	16:14:19	5.56250	426.30	117.78
11/13/2003	16:15:19	5.57917	426.52	117.78
11/13/2003	16:16:19	5.59583	426.95	117.78
11/13/2003	16:17:19	5.61250	427.35	117.78

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
11/13/2003	16:18:19	5.62917	427.71	117.78
11/13/2003	16:19:19	5.64583	428.22	117.79
11/13/2003	16:20:19	5.66250	428.59	117.79
11/13/2003	16:21:19	5.67917	429.33	117.79
11/13/2003	16:22:19	5.69583	430.30	117.80
11/13/2003	16:23:19	5.71250	431.03	117.80
11/13/2003	16:24:19	5.72917	431.36	117.80
11/13/2003	16:25:19	5.74583	431.70	117.80
11/13/2003	16:26:19	5.76250	432.49	117.81
11/13/2003	16:27:19	5.77917	433.13	117.81
11/13/2003	16:28:19	5.79583	433.60	117.82
11/13/2003	16:29:19	5.81250	433.97	117.82
11/13/2003	16:30:19	5.82917	434.14	117.82
11/13/2003	16:31:19	5.84583	434.36	117.83
11/13/2003	16:32:19	5.86250	434.44	117.83
POOH Gauges				
11/13/2003	16:33:19	5.87917	420.72	117.92
Step at 9300'				
11/13/2003	16:34:19	5.89583	418.92	117.99
11/13/2003	16:35:19	5.91250	419.05	118.00
11/13/2003	16:36:19	5.92917	419.46	118.01
Step at 9200'				
11/13/2003	16:37:19	5.94583	406.29	118.04
11/13/2003	16:38:19	5.96250	405.66	118.05
11/13/2003	16:39:19	5.97917	406.16	118.05
11/13/2003	16:40:19	5.99583	406.37	118.05
Step at 9100'				
11/13/2003	16:41:19	6.01250	392.74	118.03
11/13/2003	16:42:19	6.02917	392.76	118.01
11/13/2003	16:43:19	6.04583	392.81	118.00
11/13/2003	16:44:19	6.06250	386.28	118.00
Step at 9000'				
11/13/2003	16:45:19	6.07917	382.98	117.95
11/13/2003	16:46:19	6.09583	383.28	117.94
11/13/2003	16:47:19	6.11250	383.58	117.93
11/13/2003	16:48:19	6.12917	372.23	117.88
Step at 8800'				
11/13/2003	16:49:19	6.14583	370.08	117.68
11/13/2003	16:50:19	6.16250	370.93	117.60
11/13/2003	16:51:19	6.17917	371.59	117.56
11/13/2003	16:52:19	6.19583	368.31	117.54
Step at 8600'				
11/13/2003	16:53:19	6.21250	358.50	117.26
11/13/2003	16:54:19	6.22917	359.39	117.02
11/13/2003	16:55:19	6.24583	359.73	116.94
11/13/2003	16:56:19	6.26250	354.89	116.88
Step at 8400'				
11/13/2003	16:57:19	6.27917	345.74	116.15
11/13/2003	16:58:19	6.29583	346.48	115.21
11/13/2003	16:59:19	6.31250	346.99	114.88
11/13/2003	17:00:19	6.32917	337.48	114.49
Step at 8200'				
11/13/2003	17:01:19	6.34583	333.18	112.33
11/13/2003	17:02:19	6.36250	333.40	111.67
11/13/2003	17:03:19	6.37917	333.95	111.39
11/13/2003	17:04:19	6.39583	320.08	111.07
Step at 8000'				
11/13/2003	17:05:19	6.41250	321.28	110.79
11/13/2003	17:06:19	6.42917	321.25	110.67
11/13/2003	17:07:19	6.44583	321.83	110.60
11/13/2003	17:08:19	6.46250	290.17	110.28
11/13/2003	17:09:19	6.47917	255.80	108.93
Step at 7000'				
11/13/2003	17:10:19	6.49583	257.61	107.99
11/13/2003	17:11:19	6.51250	257.44	107.68
11/13/2003	17:12:19	6.52917	257.91	107.52
11/13/2003	17:13:19	6.54583	222.81	106.62
Step at 6000'				
11/13/2003	17:14:19	6.56250	196.12	104.47
11/13/2003	17:15:19	6.57917	198.27	103.48
11/13/2003	17:16:19	6.59583	198.98	103.14
11/13/2003	17:17:19	6.61250	184.67	102.83
11/13/2003	17:18:19	6.62917	142.53	100.69
11/13/2003	17:19:19	6.64583	112.10	98.11
Step at 4000'				
11/13/2003	17:20:19	6.66250	96.41	95.40
11/13/2003	17:21:19	6.67917	97.46	94.12
11/13/2003	17:22:19	6.69583	97.22	93.35
11/13/2003	17:23:19	6.71250	96.46	92.81
11/13/2003	17:24:19	6.72917	71.46	91.19
11/13/2003	17:25:19	6.74583	49.60	87.85
Step at 2000'				
11/13/2003	17:26:19	6.76250	43.60	84.71
11/13/2003	17:27:19	6.77917	42.78	82.61
11/13/2003	17:28:19	6.79583	40.84	81.58
11/13/2003	17:29:19	6.81250	37.97	79.82
Step at 0'. Gauges in Lubricator				
11/13/2003	17:30:19	6.82917	35.64	77.26
11/13/2003	17:31:19	6.84583	33.71	74.17
11/13/2003	17:32:19	6.86250	36.82	72.84
Despressurized Lubricator				
11/13/2003	17:33:19	6.87917	14.31	72.85
11/13/2003	17:34:19	6.89583	14.27	72.70
11/13/2003	17:35:19	6.91250	14.24	72.12
11/13/2003	17:36:19	6.92917	14.27	72.37
11/13/2003	17:37:19	6.94583	14.27	72.97

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
11/13/2003	17:38:19	6.96250	14.15	73.18
11/13/2003	17:39:19	6.97917	14.28	73.27
11/13/2003	17:40:19	6.99583	14.23	73.03
11/13/2003	17:41:19	7.01250	14.26	72.81
11/13/2003	17:42:19	7.02917	14.25	72.67
11/13/2003	17:43:19	7.04583	14.24	72.59
Desactivate gauges				
11/13/2003	17:44:19	7.06250	14.16	72.45

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