



STATIC GRADIENT REPORT

Bonneville Fuels Corporation

Warring Trust #1

Warring Trust #1

Licence No:

Test Start: 2000.01.31 @ 18:52:57

ATTN:

GENERAL INFORMATION:

Formation: Morrow
Well Status: Crude Oil
Deviated: No
Shut In Date: 2000.01.31 @ 19:25:27

Company Rep:

Unit No.:

Reference Elevations:

ft (KB)

ft (CF)

Perforations: ft (CF) To ft (CF) (TVD)
Tubing Press: Initial psig Final psig
Casing Press: Initial psig Final 676 psig

MPP:

Press@MPP:

B.H. Temp:

Assumed Gradient:

ft (CF)

psig

deg F

.02 psig/ft

RECORDER INFORMATION:

Serial #: 2341

Press@RunDepth: psig @ 5215 ft (CF)

Start Date: 2000.01.31 @ 18:52:57

End Date: 2000.02.03 @ 08:42:57

Capacity:

5000 psig

Last Calib.:

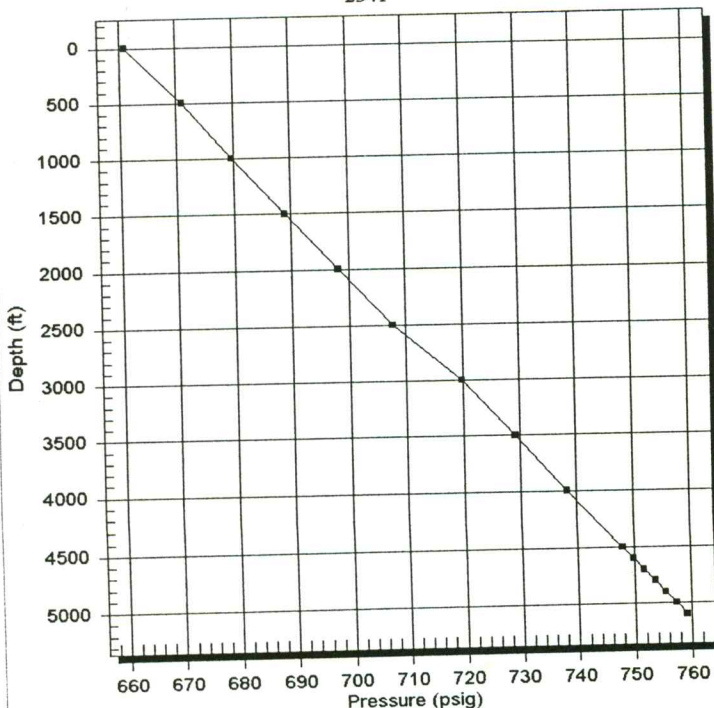
Time On Btm: 2000.01.31 @ 19:24:57

Time Off Btm: 2000.02.03 @ 07:32:42

TEST COMMENT:

Static Gradient Graph

2341



GRADIENT SUMMARY

Relative Time (Hours)	Depth (ft)	Pressure (psig)	Gradient (psig/ft)
61.72917	0.00	660.92	0.00
61.67500	500.00	670.97	0.02
61.58333	1000.00	679.67	0.02
61.51667	1500.00	688.86	0.02
61.43333	2000.00	698.18	0.02
61.36667	2500.00	707.77	0.02
61.30833	3000.00	719.91	0.02
61.24167	3500.00	729.16	0.02
61.15833	4000.00	738.34	0.02
61.09167	4500.00	747.95	0.02
61.02500	4600.00	749.84	0.02
60.97500	4700.00	751.67	0.02
60.90833	4800.00	753.60	0.02
60.85417	4900.00	755.46	0.02
60.78750	5000.00	757.37	0.02
60.73333	5100.00	759.16	0.02



STATIC GRADIENT DATA LISTING

Bonneville Fuels Corporation

Licence No:

Test Start: 2000.01.31 @ 18:52:57

ATTN:

Serial # 2341

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.01.31 @ 18:52:58	0.00028		3.46	42.25	
2000.01.31 @ 18:53:40	0.01194		0.00	42.45	
2000.01.31 @ 19:06:57	0.23333		644.03	37.98	
2000.01.31 @ 19:27:57	0.58333		740.80	117.52	
2000.01.31 @ 19:48:57	0.93333		739.74	138.84	
2000.01.31 @ 20:09:57	1.28333		739.87	141.31	
2000.01.31 @ 20:30:57	1.63333		740.25	141.60	
2000.01.31 @ 20:51:57	1.98333		740.43	141.54	
2000.01.31 @ 21:12:57	2.33333		740.73	141.51	
2000.01.31 @ 21:33:57	2.68333		740.83	141.57	
2000.01.31 @ 21:54:57	3.03333		741.10	141.63	
2000.01.31 @ 22:15:57	3.38333		741.40	141.71	
2000.01.31 @ 22:36:57	3.73333		741.61	141.79	
2000.01.31 @ 22:57:57	4.08333		741.80	141.81	
2000.01.31 @ 23:18:57	4.43333		742.06	141.82	
2000.01.31 @ 23:39:57	4.78333		742.16	141.86	
2000.02.01 @ 00:00:57	5.13333		742.40	141.89	
2000.02.01 @ 00:21:57	5.48333		742.51	141.94	
2000.02.01 @ 00:42:57	5.83333		742.59	141.98	
2000.02.01 @ 01:03:57	6.18333		742.81	141.98	
2000.02.01 @ 01:24:57	6.53333		743.00	141.90	
2000.02.01 @ 01:45:57	6.88333		743.17	141.88	
2000.02.01 @ 02:06:57	7.23333		743.47	141.90	
2000.02.01 @ 02:27:57	7.58333		743.55	141.92	
2000.02.01 @ 02:48:57	7.93333		743.72	141.94	
2000.02.01 @ 03:09:57	8.28333		743.81	141.98	
2000.02.01 @ 03:30:57	8.63333		744.06	142.01	
2000.02.01 @ 03:51:57	8.98333		744.20	142.05	
2000.02.01 @ 04:12:57	9.33333		744.43	142.09	
2000.02.01 @ 04:33:57	9.68333		744.54	142.12	
2000.02.01 @ 04:54:57	10.03333		744.60	142.16	
2000.02.01 @ 05:15:57	10.38333		744.74	142.18	
2000.02.01 @ 05:36:57	10.73333		744.90	142.21	

Printing every 42 samples

Serial # 2341

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.02.01 @ 05:57:57	11.08333		744.99	142.23	
2000.02.01 @ 06:18:57	11.43333		745.13	142.26	
2000.02.01 @ 06:39:57	11.78333		745.30	142.28	
2000.02.01 @ 07:00:57	12.13333		745.53	142.28	
2000.02.01 @ 07:21:57	12.48333		745.66	142.31	
2000.02.01 @ 07:42:57	12.83333		745.82	142.33	
2000.02.01 @ 08:03:57	13.18333		745.95	142.34	
2000.02.01 @ 08:24:57	13.53333		746.13	142.34	
2000.02.01 @ 08:45:57	13.88333		746.26	142.35	
2000.02.01 @ 09:06:57	14.23333		746.43	142.36	
2000.02.01 @ 09:27:57	14.58333		746.53	142.38	
2000.02.01 @ 09:48:57	14.93333		746.68	142.39	
2000.02.01 @ 10:09:57	15.28333		746.89	142.40	
2000.02.01 @ 10:30:57	15.63333		747.03	142.41	
2000.02.01 @ 10:51:57	15.98333		747.09	142.41	
2000.02.01 @ 11:12:57	16.33333		747.39	142.43	
2000.02.01 @ 11:33:57	16.68333		747.47	142.44	
2000.02.01 @ 11:54:57	17.03333		747.61	142.45	
2000.02.01 @ 12:15:57	17.38333		747.72	142.45	
2000.02.01 @ 12:36:57	17.73333		747.93	142.47	
2000.02.01 @ 12:57:57	18.08333		748.19	142.46	
2000.02.01 @ 13:18:57	18.43333		748.20	142.48	
2000.02.01 @ 13:39:57	18.78333		748.33	142.49	
2000.02.01 @ 14:00:57	19.13333		748.46	142.50	
2000.02.01 @ 14:21:57	19.48333		748.34	142.50	
2000.02.01 @ 14:42:57	19.83333		748.28	142.50	
2000.02.01 @ 15:03:57	20.18333		748.39	142.54	
2000.02.01 @ 15:24:57	20.53333		748.60	142.57	
2000.02.01 @ 15:45:57	20.88333		748.79	142.59	
2000.02.01 @ 16:06:57	21.23333		748.89	142.60	
2000.02.01 @ 16:27:57	21.58333		749.33	142.62	
2000.02.01 @ 16:48:57	21.93333		749.60	142.64	
2000.02.01 @ 17:09:57	22.28333		749.90	142.64	
2000.02.01 @ 17:30:57	22.63333		750.00	142.65	
2000.02.01 @ 17:51:57	22.98333		750.22	142.67	
2000.02.01 @ 18:12:57	23.33333		750.11	142.66	
2000.02.01 @ 18:33:57	23.68333		750.42	142.63	
2000.02.01 @ 19:02:57	24.16667		750.77	142.16	
2000.02.01 @ 21:08:57	26.26667		751.82	142.07	
2000.02.01 @ 23:14:57	28.36667		752.49	142.09	
2000.02.02 @ 01:20:57	30.46667		753.23	142.13	

Printing every 42 samples

Serial # 2341

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.02.02 @ 03:26:57	32.56667		753.97	142.15	
2000.02.02 @ 05:32:57	34.66667		754.80	142.19	
2000.02.02 @ 07:38:57	36.76667		755.36	142.19	
2000.02.02 @ 09:44:57	38.86667		756.15	142.22	
2000.02.02 @ 11:50:57	40.96667		756.75	142.24	
2000.02.02 @ 13:56:57	43.06667		756.19	142.27	
2000.02.02 @ 16:02:57	45.16667		756.01	142.30	
2000.02.02 @ 18:08:57	47.26667		756.81	142.31	
2000.02.02 @ 20:14:57	49.36667		758.56	142.34	
2000.02.02 @ 22:20:57	51.46667		759.40	142.24	
2000.02.03 @ 00:26:57	53.56667		760.10	142.17	
2000.02.03 @ 02:32:57	55.66667		760.81	142.15	
2000.02.03 @ 04:38:57	57.76667		761.37	142.19	
2000.02.03 @ 05:58:27	59.09167		761.05	143.22	
2000.02.03 @ 06:08:57	59.26667		761.02	143.38	
2000.02.03 @ 06:19:27	59.44167		760.98	143.44	
2000.02.03 @ 06:29:57	59.61667		761.05	143.47	
2000.02.03 @ 06:40:27	59.79167		761.06	143.48	
2000.02.03 @ 06:50:57	59.96667		761.07	143.49	
2000.02.03 @ 07:01:27	60.14167		761.21	143.51	
2000.02.03 @ 07:11:57	60.31667		761.23	143.51	
2000.02.03 @ 07:22:27	60.49167		761.24	143.52	
2000.02.03 @ 07:32:57	60.66667		760.54	143.52	
2000.02.03 @ 07:36:27	60.72500		759.20	143.32	
2000.02.03 @ 07:36:42	60.72917		759.13	143.32	
2000.02.03 @ 07:36:57	60.73333	5100.00	759.16	143.31	5100
2000.02.03 @ 07:37:12	60.73750		759.20	143.29	
2000.02.03 @ 07:37:27	60.74167		759.14	143.26	
2000.02.03 @ 07:37:42	60.74583		757.87	143.24	
2000.02.03 @ 07:39:42	60.77917		757.39	142.93	
2000.02.03 @ 07:39:57	60.78333		757.42	142.87	
2000.02.03 @ 07:40:12	60.78750	5000.00	757.37	142.82	5000
2000.02.03 @ 07:40:27	60.79167		757.42	142.76	
2000.02.03 @ 07:40:42	60.79583		757.36	142.71	
2000.02.03 @ 07:40:57	60.80000		757.40	142.65	
2000.02.03 @ 07:43:42	60.84583		755.46	141.67	
2000.02.03 @ 07:43:57	60.85000		755.46	141.56	
2000.02.03 @ 07:44:12	60.85417	4900.00	755.46	141.46	4900
2000.02.03 @ 07:44:27	60.85833		755.47	141.36	
2000.02.03 @ 07:44:42	60.86250		755.44	141.26	
2000.02.03 @ 07:44:57	60.86667		755.39	141.17	

Printing every 42 samples

Serial # 2341

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.02.03 @ 08:12:12	61.32083		719.98	114.86	
2000.02.03 @ 08:14:27	61.35833		707.88	111.43	
2000.02.03 @ 08:14:42	61.36250		707.86	110.91	
2000.02.03 @ 08:14:57	61.36667	2500.00	707.77	110.40	2500
2000.02.03 @ 08:15:12	61.37083		707.74	109.91	
2000.02.03 @ 08:15:27	61.37500		707.71	109.44	
2000.02.03 @ 08:15:42	61.37917		707.65	109.00	
2000.02.03 @ 08:18:27	61.42500		698.15	103.76	
2000.02.03 @ 08:18:42	61.42917		698.11	103.23	
2000.02.03 @ 08:18:57	61.43333	2000.00	698.18	102.74	2000
2000.02.03 @ 08:19:12	61.43750		698.15	102.28	
2000.02.03 @ 08:19:27	61.44167		698.14	101.83	
2000.02.03 @ 08:19:42	61.44583		698.22	101.35	
2000.02.03 @ 08:23:27	61.50833		688.76	94.71	
2000.02.03 @ 08:23:42	61.51250		688.73	94.26	
2000.02.03 @ 08:23:57	61.51667	1500.00	688.86	93.85	1500
2000.02.03 @ 08:24:12	61.52083		688.89	93.44	
2000.02.03 @ 08:24:27	61.52500		688.92	93.06	
2000.02.03 @ 08:24:42	61.52917		687.68	92.70	
2000.02.03 @ 08:27:27	61.57500		679.47	87.87	
2000.02.03 @ 08:27:42	61.57917		679.56	87.41	
2000.02.03 @ 08:27:57	61.58333	1000.00	679.67	87.00	1000
2000.02.03 @ 08:28:12	61.58750		679.71	86.59	
2000.02.03 @ 08:28:27	61.59167		679.75	86.25	
2000.02.03 @ 08:28:42	61.59583		679.85	85.90	
2000.02.03 @ 08:32:57	61.66667		670.89	79.00	
2000.02.03 @ 08:33:12	61.67083		670.96	78.65	
2000.02.03 @ 08:33:27	61.67500	500.00	670.97	78.31	500
2000.02.03 @ 08:33:42	61.67917		669.85	78.00	
2000.02.03 @ 08:33:57	61.68333		668.52	77.70	
2000.02.03 @ 08:34:12	61.68750		667.09	77.39	
2000.02.03 @ 08:36:12	61.72083		661.47	74.10	
2000.02.03 @ 08:36:27	61.72500		661.57	73.58	
2000.02.03 @ 08:36:42	61.72917	0.00	660.92	73.04	0
2000.02.03 @ 08:36:57	61.73333		635.17	72.50	
2000.02.03 @ 08:37:12	61.73750		652.56	71.90	
2000.02.03 @ 08:37:27	61.74167		628.41	71.36	
2000.02.03 @ 08:42:57	61.83333		0.00	61.33	

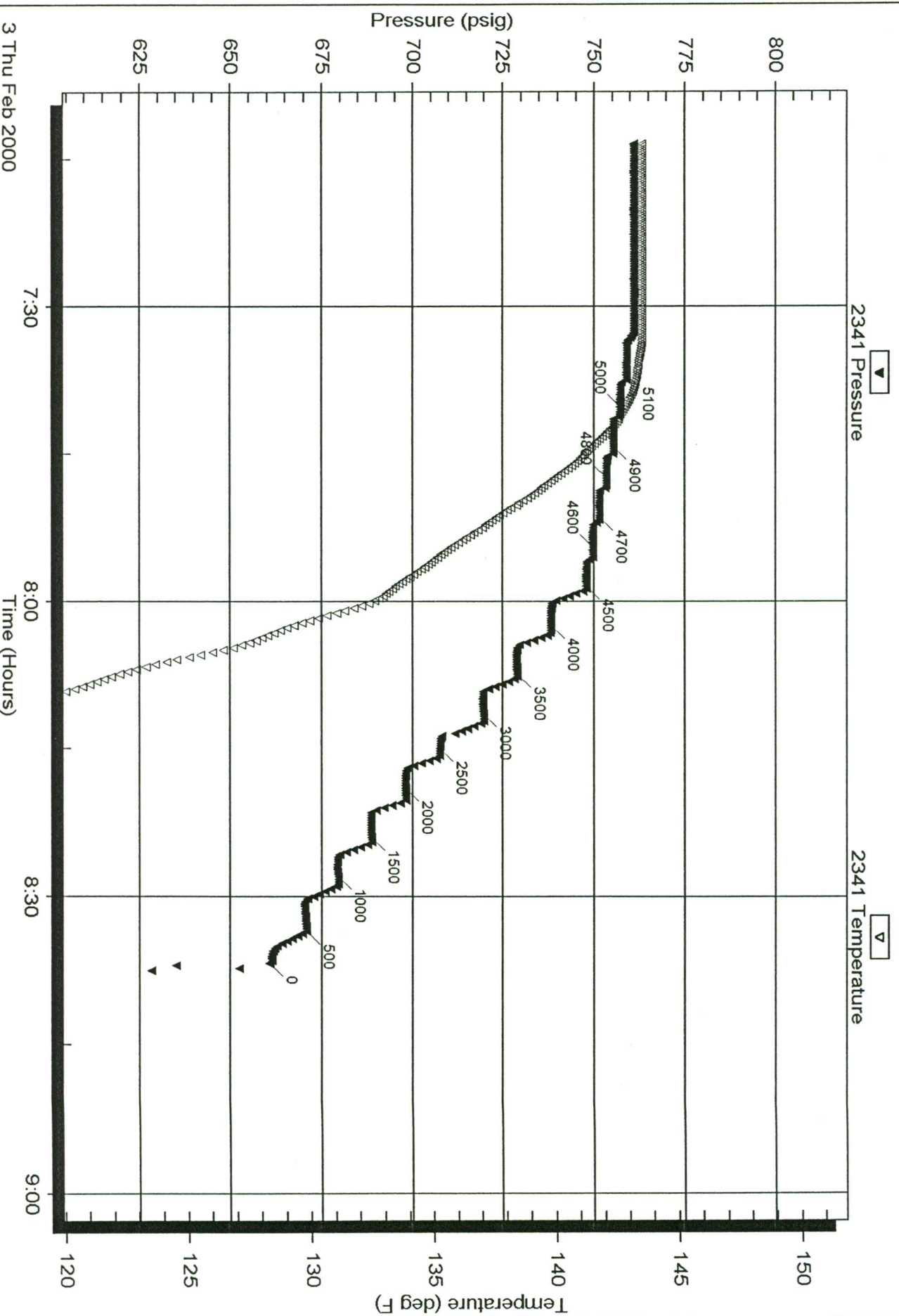
Printing every 42 samples

Serial # 2341

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.02.03 @ 07:46:57	60.90000		753.59	140.22	
2000.02.03 @ 07:47:12	60.90417		753.67	140.07	
2000.02.03 @ 07:47:27	60.90833	4800.00	753.60	139.94	4800
2000.02.03 @ 07:47:42	60.91250		753.66	139.80	
2000.02.03 @ 07:47:57	60.91667		753.62	139.66	
2000.02.03 @ 07:48:12	60.92083		753.61	139.53	
2000.02.03 @ 07:50:57	60.96667		751.59	137.88	
2000.02.03 @ 07:51:12	60.97083		751.68	137.72	
2000.02.03 @ 07:51:27	60.97500	4700.00	751.67	137.58	4700
2000.02.03 @ 07:51:42	60.97917		751.54	137.43	
2000.02.03 @ 07:51:57	60.98333		750.93	137.30	
2000.02.03 @ 07:52:12	60.98750		749.81	137.16	
2000.02.03 @ 07:53:57	61.01667		749.80	136.05	
2000.02.03 @ 07:54:12	61.02083		749.83	135.89	
2000.02.03 @ 07:54:27	61.02500	4600.00	749.84	135.73	4600
2000.02.03 @ 07:54:42	61.02917		749.75	135.59	
2000.02.03 @ 07:54:57	61.03333		749.85	135.45	
2000.02.03 @ 07:55:12	61.03750		749.81	135.31	
2000.02.03 @ 07:57:57	61.08333		748.01	133.74	
2000.02.03 @ 07:58:12	61.08750		748.08	133.59	
2000.02.03 @ 07:58:27	61.09167	4500.00	747.95	133.46	4500
2000.02.03 @ 07:58:42	61.09583		748.02	133.34	
2000.02.03 @ 07:58:57	61.10000		747.15	133.20	
2000.02.03 @ 07:59:12	61.10417		745.23	133.07	
2000.02.03 @ 08:01:57	61.15000		738.29	129.98	
2000.02.03 @ 08:02:12	61.15417		738.34	129.65	
2000.02.03 @ 08:02:27	61.15833	4000.00	738.34	129.34	4000
2000.02.03 @ 08:02:42	61.16250		738.30	129.06	
2000.02.03 @ 08:02:57	61.16667		738.28	128.78	
2000.02.03 @ 08:03:12	61.17083		738.25	128.51	
2000.02.03 @ 08:06:57	61.23333		729.08	122.92	
2000.02.03 @ 08:07:12	61.23750		729.12	122.56	
2000.02.03 @ 08:07:27	61.24167	3500.00	729.16	122.24	3500
2000.02.03 @ 08:07:42	61.24583		729.20	121.91	
2000.02.03 @ 08:07:57	61.25000		728.40	121.61	
2000.02.03 @ 08:08:12	61.25417		726.74	121.33	
2000.02.03 @ 08:10:57	61.30000		719.75	116.74	
2000.02.03 @ 08:11:12	61.30417		719.80	116.31	
2000.02.03 @ 08:11:27	61.30833	3000.00	719.91	115.92	3000
2000.02.03 @ 08:11:42	61.31250		719.96	115.54	
2000.02.03 @ 08:11:57	61.31667		720.02	115.18	

Printing every 42 samples

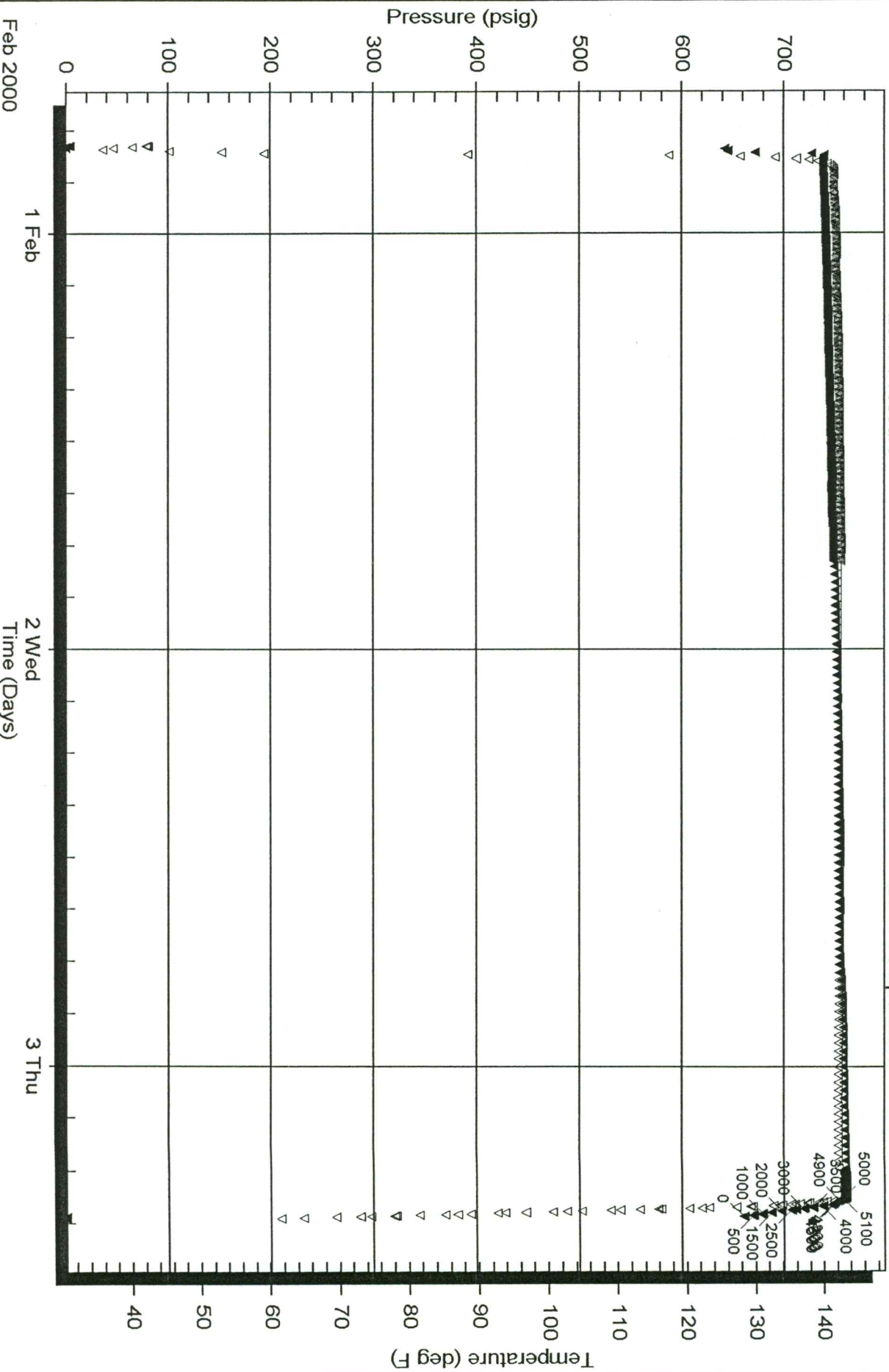
Pressure vs. Time



Pressure vs. Time

2341 Pressure

2341 Temperature



Trilobite Testing L.L.C.

Bottom hole pressure build-up test / Multi-point back pressure test

Company Bonneville Fuels Date 1-31-00

Address _____

Well Name & No. Warring Trust #1

Legal Description Sec. 3 Twp. 32S Rge. 40W Co. Platten State. KS

Field/pool _____ Elev. _____ Recorder # 2341

Tubing _____ in. @ _____ ft.

Test type Wire-Line Test Interval 5215 Status Shut-In
started in hole

Date & Time Started 1-31-00 19:04 Date & Time Ended 2-3-00 08:42

Battery on = 18:53

At 5215 = 19:25

Duration: 1 min. Sample Rate: 1 sec.

Duration: _____ Sample Rate: _____

Duration: 24 Hrs. Sample Rate: 30 sec.

Duration: _____ Sample Rate: _____

Duration: 35 Hrs. Sample Rate: 3 min.

Duration: _____ Sample Rate: _____

Duration: 24 Hrs. Sample Rate: 15 sec.

Duration: _____ Sample Rate: _____

Duration: 134 Hrs. Sample Rate: 5 min.

Duration: _____ Sample Rate: _____

Duration: _____ Sample Rate: _____

Duration: _____ Sample Rate: _____

Duration: _____ Sample Rate: _____

To 15 sec. samples Thurs. 2-3-00 5:55 AM.

Mileage 35

60 RT (2)

Lurray & Bax

