

GENERAL INFORMATION

Client Information:

Company: KLM

Contact: Larry Alex

Phone:

Fax:

e-mail:

Site Information:

Contact:

Phone:

Fax:

e-mail:

Well Information:

Name: Bower 2-A

Operator: KLM

Location-Downhole: E/2 SE NE 5/10s/20e

Jefferson KS

Location-Surface:

Test Information:

Company: Trilobite Testing Inc.

Representative:

Supervisor: Paul Simpson

Test Type: Initial 4pt

Job Number:

Test Unit:

Start Date: 2002/01/15

Start Time:

End Date: 2002/02/01

End Time:

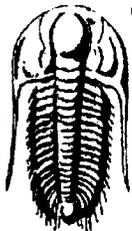
Report Date:

Prepared By:

Remarks:

Qualified By:

Rw .30 @ 54 = 30,000 nacl 2nd sample caught 1/23 .24 @ 62 = 34,000 nacl
596 total miles from 1/14-1/16
sampled gas 1/23 51 ppm H₂s
496 miles 2/4



**TRILOBITE
TESTING, INC.**

STATIC GRADIENT REPORT

KLM Exploration, Inc.

Bower 2-A

ATTN:

Licence No:

Test Start: 2002.01.15 @ 09:16:49

GENERAL INFORMATION:

Formation: Miss 40 Field: McClouth

Well Status: Gas Suspended

Deviated: No Whipstock: ft (CF)

Shut In Date:

Perforations: ft (CF) To ft (CF) (TVD)

Tubing Press: Initial psig Final psig 2 inches @ 1490 ft (CF)

Casing Press: Initial psig Final psig 4.05 inches @ 1664 ft (CF)

Open Hole: 7.88 inches

Packer Depth: ft (CF)

Company Rep:

Unit No.:

Reference Elevations: ft (KB)

ft (CF)

KB to CF: ft

MPP: ft (CF)

Press@MPP: psig

B.H. Temp: deg F

Assumed Gradient: .02 psig/ft

RECORDER INFORMATION:

Serial #: 3026

Press@RunDepth: psig @ ft (CF)

Start Date: 2002.01.15 @ 09:16:49

End Date: 2002.01.23 @ 14:53:49

Capacity: 7000 psig

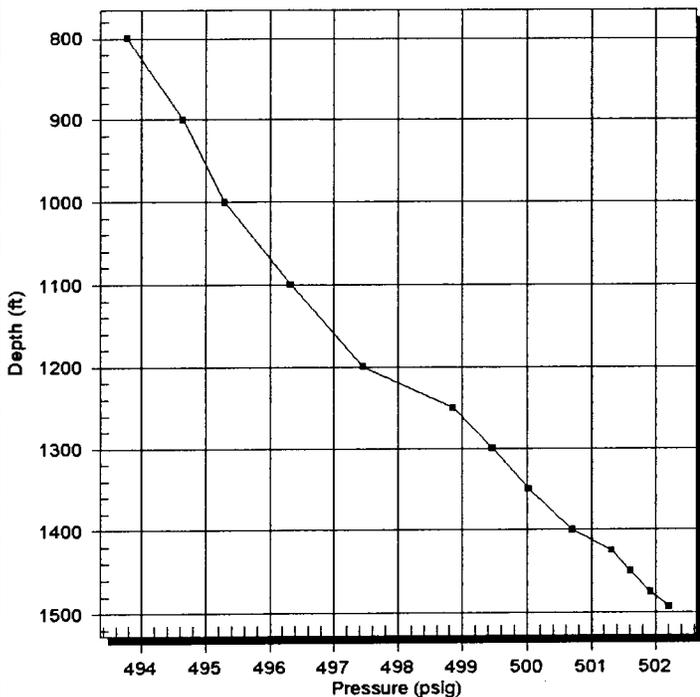
Last Calib.:

Time On Btm:

Time Off Btm:

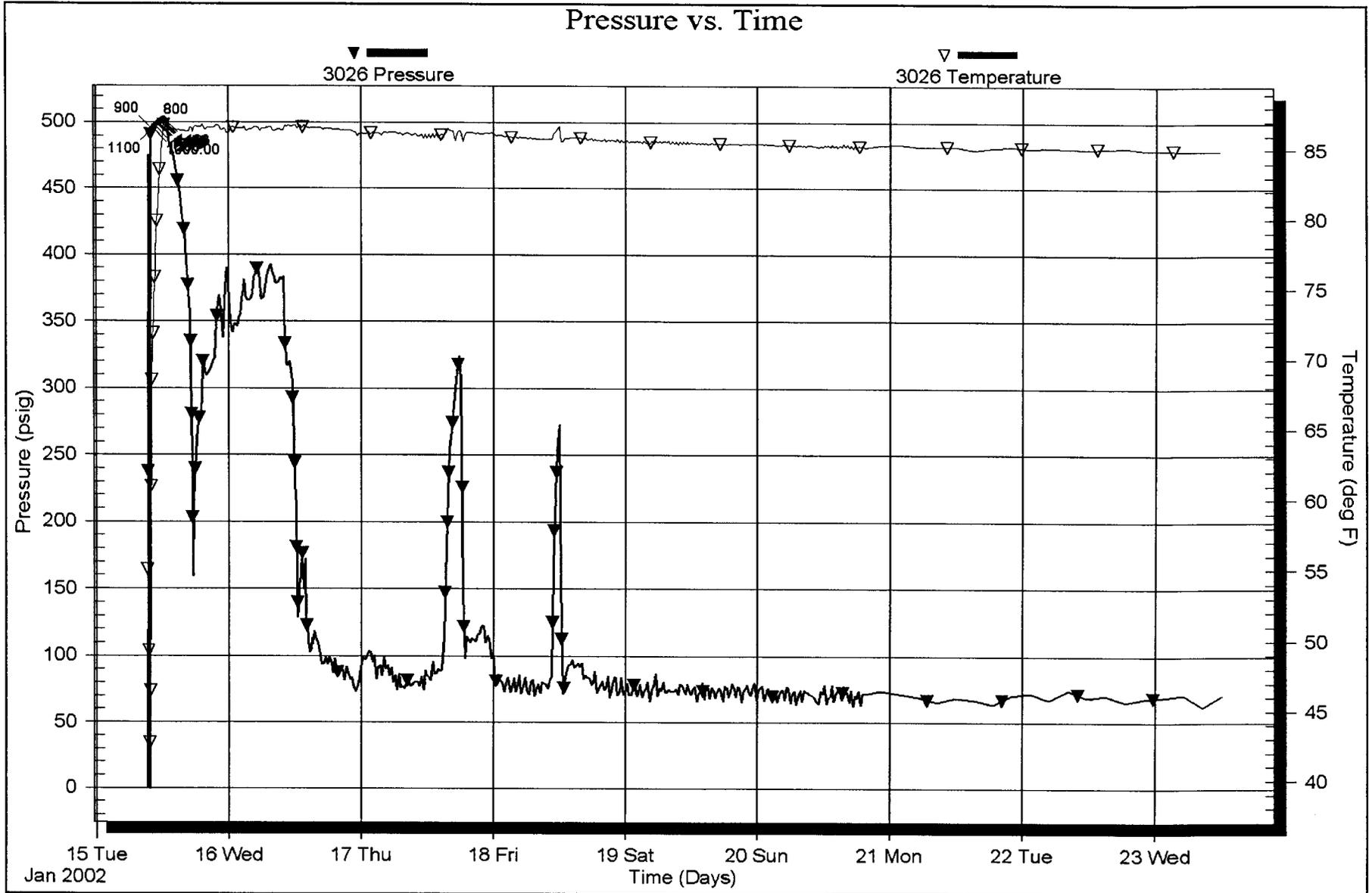
TEST COMMENT:

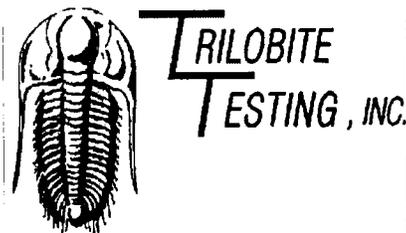
Static Gradient Graph
3026



GRADIENT SUMMARY

Relative Time (Hours)	Depth (ft)	Pressure (psig)	Gradient (psig/ft)
0.71667	800.00	493.78	0.00
0.88333	900.00	494.64	0.01
1.11250	1000.00	495.29	0.01
1.28333	1100.00	496.33	0.01
1.42500	1200.00	497.46	0.01
1.83750	1250.00	498.85	0.03
2.01667	1300.00	499.47	0.01
2.13750	1350.00	500.03	0.01
2.39167	1400.00	500.70	0.01
2.55833	1425.00	501.32	0.02
2.73750	1450.00	501.61	0.01
2.89167	1475.00	501.92	0.01
3.13750	1493.00	502.21	0.02





STATIC GRADIENT DATA LISTING

KLM Exploration, Inc.

Bower 2-A

Licence No:

ATTN:

Test Start: 2002.01.15 @ 09:16:49

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.15 @ 09:16:52	0.00083		0.31	57.48	
2002.01.15 @ 09:59:19	0.70833		493.74	68.26	
2002.01.15 @ 09:59:34	0.71250		493.76	68.34	
2002.01.15 @ 09:59:49	0.71667	800.00	493.78	68.38	800
2002.01.15 @ 10:00:04	0.72083		493.80	68.44	
2002.01.15 @ 10:00:19	0.72500		493.80	68.51	
2002.01.15 @ 10:00:34	0.72917		493.82	68.56	
2002.01.15 @ 10:09:19	0.87500		494.44	70.52	
2002.01.15 @ 10:09:34	0.87917		494.52	70.69	
2002.01.15 @ 10:09:49	0.88333	900.00	494.64	70.83	900
2002.01.15 @ 10:10:04	0.88750		494.70	70.93	
2002.01.15 @ 10:10:19	0.89167		494.74	71.03	
2002.01.15 @ 10:10:34	0.89583		494.76	71.11	
2002.01.15 @ 10:23:04	1.10417		495.29	72.53	
2002.01.15 @ 10:23:19	1.10833		495.29	72.54	
2002.01.15 @ 10:23:34	1.11250	1000.00	495.29	72.55	1000.00
2002.01.15 @ 10:23:49	1.11667		495.29	72.56	
2002.01.15 @ 10:24:04	1.12083		495.24	72.57	
2002.01.15 @ 10:24:19	1.12500		495.00	72.57	
2002.01.15 @ 10:33:19	1.27500		496.31	74.81	
2002.01.15 @ 10:33:34	1.27917		496.31	74.81	
2002.01.15 @ 10:33:49	1.28333	1100.00	496.33	74.84	1100
2002.01.15 @ 10:34:04	1.28750		496.08	74.85	
2002.01.15 @ 10:34:19	1.29167		496.38	74.88	
2002.01.15 @ 10:34:34	1.29583		496.66	75.00	
2002.01.15 @ 10:41:49	1.41667		497.46	76.75	
2002.01.15 @ 10:42:04	1.42083		497.46	76.78	
2002.01.15 @ 10:42:19	1.42500	1200.00	497.46	76.81	1200
2002.01.15 @ 10:42:34	1.42917		497.18	76.83	
2002.01.15 @ 10:42:49	1.43333		497.56	76.87	
2002.01.15 @ 10:43:04	1.43750		497.98	77.05	
2002.01.15 @ 11:06:34	1.82917		498.87	80.16	
2002.01.15 @ 11:06:49	1.83333		498.85	80.16	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.15 @ 11:07:04	1.83750	1250.00	498.85	80.17	1250
2002.01.15 @ 11:07:19	1.84167		498.93	80.17	
2002.01.15 @ 11:07:34	1.84583		498.95	80.25	
2002.01.15 @ 11:07:49	1.85000		499.15	80.37	
2002.01.15 @ 11:17:19	2.00833		499.47	81.29	
2002.01.15 @ 11:17:34	2.01250		499.47	81.29	
2002.01.15 @ 11:17:49	2.01667	1300.00	499.47	81.30	1300
2002.01.15 @ 11:18:04	2.02083		499.29	81.31	
2002.01.15 @ 11:18:19	2.02500		499.67	81.33	
2002.01.15 @ 11:18:34	2.02917		499.67	81.43	
2002.01.15 @ 11:24:34	2.12917		500.05	82.24	
2002.01.15 @ 11:24:49	2.13333		500.05	82.27	
2002.01.15 @ 11:25:04	2.13750	1350.00	500.03	82.28	1350
2002.01.15 @ 11:25:19	2.14167		500.07	82.30	
2002.01.15 @ 11:25:34	2.14583		500.05	82.31	
2002.01.15 @ 11:25:49	2.15000		500.01	82.32	
2002.01.15 @ 11:39:49	2.38333		500.70	83.65	
2002.01.15 @ 11:40:04	2.38750		500.70	83.66	
2002.01.15 @ 11:40:19	2.39167	1400.00	500.70	83.67	1400
2002.01.15 @ 11:40:34	2.39583		500.73	83.67	
2002.01.15 @ 11:40:49	2.40000		500.55	83.68	
2002.01.15 @ 11:41:04	2.40417		500.83	83.67	
2002.01.15 @ 11:49:49	2.55000		501.30	84.76	
2002.01.15 @ 11:50:04	2.55417		501.32	84.77	
2002.01.15 @ 11:50:19	2.55833	1425.00	501.32	84.78	1425
2002.01.15 @ 11:50:34	2.56250		501.32	84.78	
2002.01.15 @ 11:50:49	2.56667		501.07	84.79	
2002.01.15 @ 11:51:04	2.57083		501.21	84.81	
2002.01.15 @ 12:00:34	2.72917		501.62	85.67	
2002.01.15 @ 12:00:49	2.73333		501.63	85.68	
2002.01.15 @ 12:01:04	2.73750	1450.00	501.61	85.69	1450
2002.01.15 @ 12:01:19	2.74167		501.39	85.69	
2002.01.15 @ 12:01:34	2.74583		501.49	85.70	
2002.01.15 @ 12:01:49	2.75000		501.49	85.75	
2002.01.15 @ 12:09:49	2.88333		501.92	86.22	
2002.01.15 @ 12:10:04	2.88750		501.92	86.23	
2002.01.15 @ 12:10:19	2.89167	1475.00	501.92	86.23	1475
2002.01.15 @ 12:10:34	2.89583		501.79	86.24	
2002.01.15 @ 12:10:49	2.90000		501.65	86.25	
2002.01.15 @ 12:11:04	2.90417		501.81	86.26	
2002.01.15 @ 12:24:34	3.12917		502.27	86.85	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.15 @ 12:24:49	3.13333		502.27	86.86	
2002.01.15 @ 12:25:04	3.13750	1493.00	502.21	86.86	1493
2002.01.15 @ 12:25:19	3.14167		502.05	86.87	
2002.01.15 @ 12:25:34	3.14583		501.97	86.88	
2002.01.15 @ 12:25:49	3.15000		502.07	86.89	
X 2002.01.15 @ 13:33:34	4.27917		480.82	86.39	
2002.01.15 @ 14:41:19	5.40833		X 459.51	86.36	
2002.01.15 @ 15:49:04	6.53750		422.24	86.31	
2002.01.15 @ 16:56:49	7.66667		X 358.07	86.32	
2002.01.15 @ 18:04:34	8.79583		254.67	86.61	
2002.01.15 @ 19:12:19	9.92500		309.49	86.68	
2002.01.15 @ 20:20:04	11.05417		312.17	86.53	
2002.01.15 @ 21:27:49	12.18333		322.59	86.50	
2002.01.15 @ 22:35:34	13.31250		357.09	86.41	
2002.01.15 @ 23:43:19	14.44167		391.42	86.12	
2002.01.16 @ 00:51:04	15.57083		344.80	86.57	
2002.01.16 @ 01:58:49	16.70000		353.73	86.45	
2002.01.16 @ 03:06:34	17.82917		368.67	86.35	
2002.01.16 @ 04:14:19	18.95833		369.94	86.40	
2002.01.16 @ 05:22:04	20.08750		391.84	86.54	
2002.01.16 @ 06:29:49	21.21667		372.13	86.45	
2002.01.16 @ 07:37:34	22.34583		393.36	86.59	
2002.01.16 @ 08:45:19	23.47500		378.10	86.38	
2002.01.16 @ 09:53:04	24.60417		385.25	86.37	
2002.01.16 @ 11:00:49	25.73333		317.30	86.61	
2002.01.16 @ 12:08:34	26.86250		212.36	86.65	
2002.01.16 @ 13:16:19	27.99167		211.98	86.71	
2002.01.16 @ 14:24:04	29.12083		107.13	86.52	
2002.01.16 @ 15:45:19	30.47500		114.60	86.54	
2002.01.16 @ 18:00:49	32.73333		99.86	86.45	
2002.01.16 @ 20:16:19	34.99167		88.09	86.36	
2002.01.16 @ 22:31:49	37.25000		74.05	86.25	
2002.01.17 @ 00:47:19	39.50833		100.84	86.16	
2002.01.17 @ 03:02:49	41.76667		92.77	86.18	
2002.01.17 @ 05:18:19	44.02500		87.51	86.15	
2002.01.17 @ 07:33:49	46.28333		78.43	86.01	
2002.01.17 @ 09:49:19	48.54167		78.13	86.09	
2002.01.17 @ 12:04:49	50.80000		78.15	85.77	
2002.01.17 @ 14:20:19	53.05833		88.13	86.00	
2002.01.17 @ 16:35:49	55.31667		277.64	86.43	
2002.01.17 @ 18:51:19	57.57500		98.70	86.02	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.17 @ 21:06:49	59.83333		113.90	86.12	
2002.01.17 @ 23:22:19	62.09167		103.43	86.07	
2002.01.18 @ 01:37:49	64.35000		80.42	85.96	
2002.01.18 @ 03:53:19	66.60833		73.09	85.74	
2002.01.18 @ 06:08:49	68.86667		71.14	85.76	
2002.01.18 @ 08:24:19	71.12500		73.87	85.69	
2002.01.18 @ 10:39:49	73.38333		108.19	85.77	
2002.01.18 @ 12:55:19	75.64167		80.82	85.78	
2002.01.18 @ 15:10:49	77.90000		95.64	85.81	
2002.01.18 @ 17:26:19	80.15833		76.71	85.66	
2002.01.18 @ 19:41:49	82.41667		82.76	85.64	
2002.01.18 @ 21:57:19	84.67500		89.53	85.66	
2002.01.19 @ 00:12:49	86.93333		80.00	85.61	
2002.01.19 @ 02:28:19	89.19167		75.07	85.49	
2002.01.19 @ 04:43:49	91.45000		78.07	85.54	
2002.01.19 @ 06:59:19	93.70833		71.54	85.48	
2002.01.19 @ 09:14:49	95.96667		76.99	85.46	
2002.01.19 @ 11:30:19	98.22500		75.09	85.36	
2002.01.19 @ 13:45:49	100.48333		76.87	85.40	
2002.01.19 @ 16:01:19	102.74167		74.65	85.39	
2002.01.19 @ 18:16:49	105.00000		76.93	85.34	
2002.01.19 @ 20:32:19	107.25833		78.81	85.36	
2002.01.19 @ 22:47:49	109.51667		73.09	85.39	
2002.01.20 @ 01:03:19	111.77500		66.70	85.34	
2002.01.20 @ 03:18:49	114.03333		71.26	85.29	
2002.01.20 @ 05:34:19	116.29167		76.01	85.28	
2002.01.20 @ 07:49:49	118.55000		71.08	85.26	
2002.01.20 @ 10:05:19	120.80833		68.64	85.24	
2002.01.20 @ 12:20:49	123.06667		65.60	85.22	
2002.01.20 @ 14:36:19	125.32500		72.65	85.13	
2002.01.20 @ 16:51:49	127.58333		74.57	85.27	
2002.01.20 @ 19:07:19	129.84167		69.86	85.08	
2002.01.21 @ 16:03:49	150.78333		64.78	85.03	
2002.01.22 @ 14:38:49	173.36667		67.64	84.95	
2002.01.23 @ 13:13:49	195.95000		78.11	85.02	
2002.01.23 @ 14:53:49	197.61667		0.21	51.67	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.15 @ 12:24:49	3.13333		502.27	86.86	
2002.01.15 @ 12:25:04	3.13750	1493.00	502.21	86.86	1493
2002.01.15 @ 12:25:19	3.14167		502.05	86.87	
2002.01.15 @ 12:25:34	3.14583		501.97	86.88	
2002.01.15 @ 12:25:49	3.15000		502.07	86.89	
2002.01.15 @ 12:58:49	3.70000		502.61	87.15	
2002.01.15 @ 12:59:04	3.70417		502.61	87.15	
2002.01.15 @ 12:59:19	3.70833		502.61	87.15	shutin pressure---started test
2002.01.15 @ 12:59:34	3.71250		497.94	87.15	
2002.01.15 @ 12:59:49	3.71667		499.75	87.12	
2002.01.15 @ 13:00:04	3.72083		499.25	87.09	
2002.01.15 @ 14:00:19	4.72500		475.93	86.40	
2002.01.15 @ 14:00:34	4.72917		475.93	86.40	
2002.01.15 @ 14:00:49	4.73333		475.91	86.40	1st pt
2002.01.15 @ 14:01:04	4.73750		475.91	86.41	
2002.01.15 @ 14:01:19	4.74167		475.45	86.41	
2002.01.15 @ 14:01:34	4.74583		474.13	86.40	
2002.01.15 @ 15:01:04	5.73750		452.48	86.35	
2002.01.15 @ 15:01:19	5.74167		452.46	86.34	
2002.01.15 @ 15:01:34	5.74583		452.34	86.34	2nd pt
2002.01.15 @ 15:01:49	5.75000		452.22	86.34	
2002.01.15 @ 15:02:04	5.75417		451.66	86.34	
2002.01.15 @ 15:02:19	5.75833		450.58	86.33	
2002.01.15 @ 16:04:04	6.78750		413.79	86.31	
2002.01.15 @ 16:04:19	6.79167		413.65	86.31	
2002.01.15 @ 16:04:34	6.79583		413.51	86.30	3rd pt
2002.01.15 @ 16:04:49	6.80000		413.39	86.31	
2002.01.15 @ 16:05:04	6.80417		412.09	86.31	
2002.01.15 @ 16:05:19	6.80833		410.67	86.31	
2002.01.15 @ 17:02:04	7.75417		355.93	86.45	
2002.01.15 @ 17:02:19	7.75833		355.93	86.46	
2002.01.15 @ 17:02:34	7.76250		355.83	86.47	4th pt
2002.01.15 @ 17:02:49	7.76667		355.73	86.48	
2002.01.15 @ 17:03:04	7.77083		355.63	86.48	
2002.01.15 @ 17:03:19	7.77500		355.63	86.49	
2002.01.15 @ 18:11:04	8.90417		261.22	86.60	
2002.01.15 @ 19:18:49	10.03333		323.49	86.75	
2002.01.15 @ 20:26:34	11.16250		312.31	86.53	
2002.01.15 @ 21:34:19	12.29167		330.10	86.51	
2002.01.15 @ 22:42:04	13.42083		349.12	86.34	
2002.01.15 @ 23:49:49	14.55000		385.93	86.09	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.16 @ 00:57:34	15.67917		345.78	86.55	
2002.01.16 @ 02:05:19	16.80833		354.91	86.43	
2002.01.16 @ 03:13:04	17.93750		366.59	86.32	
2002.01.16 @ 04:20:49	19.06667		373.35	86.41	
2002.01.16 @ 05:28:34	20.19583		385.93	86.48	
2002.01.16 @ 06:36:19	21.32500		376.48	86.46	
2002.01.16 @ 07:44:04	22.45417		390.18	86.53	
2002.01.16 @ 08:51:49	23.58333		379.31	86.40	
2002.01.16 @ 09:59:34	24.71250		354.95	86.32	
2002.01.16 @ 11:07:19	25.84167		318.10	86.61	
2002.01.16 @ 12:15:04	26.97083		175.87	86.59	
2002.01.16 @ 13:22:49	28.10000		159.16	86.44	
2002.01.16 @ 14:30:34	29.22917		107.19	86.51	
2002.01.16 @ 15:58:19	30.69167		106.75	86.52	
2002.01.16 @ 18:13:49	32.95000		96.82	86.43	
2002.01.16 @ 20:29:19	35.20833		84.70	86.36	
2002.01.16 @ 22:44:49	37.46667		75.27	86.13	
2002.01.17 @ 01:00:19	39.72500		98.50	86.10	
2002.01.17 @ 03:15:49	41.98333		91.91	86.00	
2002.01.17 @ 05:31:19	44.24167		91.11	86.19	
2002.01.17 @ 07:46:49	46.50000		82.22	86.18	
2002.01.17 @ 10:02:19	48.75833		78.39	85.96	
2002.01.17 @ 12:17:49	51.01667		83.62	86.03	
2002.01.17 @ 14:33:19	53.27500		82.60	85.90	
2002.01.17 @ 16:48:49	55.53333		284.57	86.09	
2002.01.17 @ 19:04:19	57.79167		112.26	86.15	
2002.01.17 @ 21:19:49	60.05000		118.25	86.10	
2002.01.17 @ 23:35:19	62.30833		97.94	86.19	
2002.01.18 @ 01:50:49	64.56667		76.57	85.91	
2002.01.18 @ 04:06:19	66.82500		75.15	85.88	
2002.01.18 @ 06:21:49	69.08333		72.37	85.82	
2002.01.18 @ 08:37:19	71.34167		75.13	85.73	
2002.01.18 @ 10:52:49	73.60000		167.33	86.10	
2002.01.18 @ 13:08:19	75.85833		86.93	85.80	
2002.01.18 @ 15:23:49	78.11667		91.27	85.79	
2002.01.18 @ 17:39:19	80.37500		76.61	85.72	
2002.01.18 @ 19:54:49	82.63333		71.96	85.61	
2002.01.18 @ 22:10:19	84.89167		82.72	85.55	
2002.01.19 @ 00:25:49	87.15000		77.49	85.51	
2002.01.19 @ 02:41:19	89.40833		79.82	85.58	
2002.01.19 @ 04:56:49	91.66667		76.55	85.40	

Printing every 271 samples

Serial # 3026

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.19 @ 07:12:19	93.92500		76.87	85.60	
2002.01.19 @ 09:27:49	96.18333		70.04	85.37	
2002.01.19 @ 11:43:19	98.44167		69.06	85.46	
2002.01.19 @ 13:58:49	100.70000		76.21	85.41	
2002.01.19 @ 16:14:19	102.95833		69.60	85.38	
2002.01.19 @ 18:29:49	105.21667		73.77	85.37	
2002.01.19 @ 20:45:19	107.47500		75.43	85.35	
2002.01.19 @ 23:00:49	109.73333		78.93	85.40	
2002.01.20 @ 01:16:19	111.99167		68.82	85.36	
2002.01.20 @ 03:31:49	114.25000		65.42	85.27	
2002.01.20 @ 05:47:19	116.50833		68.94	85.26	
2002.01.20 @ 08:02:49	118.76667		65.62	85.25	
2002.01.20 @ 10:18:19	121.02500		67.42	85.23	
2002.01.20 @ 12:33:49	123.28333		66.16	85.25	
2002.01.20 @ 14:49:19	125.54167		76.01	85.31	
2002.01.20 @ 17:04:49	127.80000		67.36	85.14	
2002.01.20 @ 19:38:49	130.36667		70.58	85.21	
2002.01.21 @ 18:13:49	152.95000		75.15	85.24	
2002.01.22 @ 16:48:49	175.53333		60.77	84.91	
2002.01.23 @ 14:53:49	197.61667		0.21	51.67	

Printing every 271 samples



**TRILOBITE
TESTING, INC.**

TRANSIENT GAUGE REPORT

KLM Exploration

Bower 2-A (2nd run)

Bower 2-A

Licence No:

ATTN:

Test Start: 2002.01.23 @ 15:05:41

GENERAL INFORMATION:

Formation: Miss 40' Zone Field: McClouth

Well Status:

Deviated: No Whipstock: ft (CF)

Shut In Date:

Perforations: ft (CF) To ft (CF) (TVD)

Tubing Press: Initial psig Final psig inches @ 2 ft (CF)

Casing Press: Initial psig Final psig inches @ ft (CF)

Open Hole: inches

Packer Depth: ft (CF)

Bottom Hole Build-up

Company Rep:

Unit No.:

Reference Elevations: ft (KB)

ft (CF)

KB to CF: ft

MPP: ft (CF)

Press@MPP: psig

B.H. Temp: deg F

Assumed Gradient: 1 psig/ft

Serial #: 3026 Inside

Press@RunDepth: psig @ 1493 ft (CF)

Capacity: 7000 psig

Start Date: 2002.01.23 End Date: 2002.02.01

Last Calib.:

Start Time: 15:05:41 End Time: 13:17:41

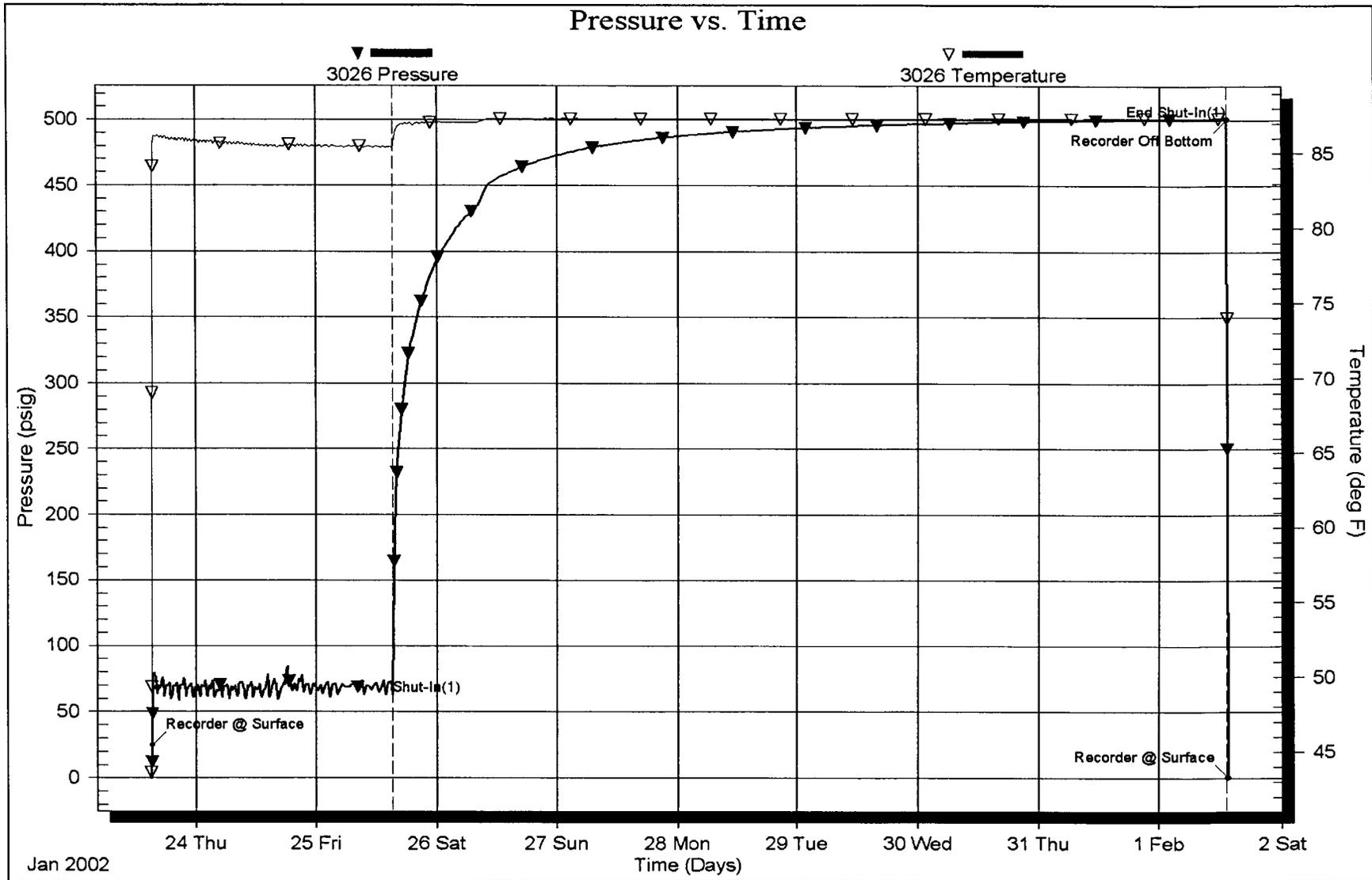
Time On Btrr:

Time Off Btrr: 2002.02.01 @ 13:07:41

TEST COMMENT:

RESULTS SUMMARY

Relative Time (Hours)	Pressure (psig)	Temperature (deg F)	Annotation
621.32720	24.66	43.22	Recorder @ Surface
621.36047	63.13	85.29	Shut-in(1)
621.47567	501.05	87.31	End Shut-in(1)
621.47578	500.73	87.31	Recorder Off Bottom
621.47590	0.45	60.71	Recorder @ Surface





**TRILOBITE
TESTING, INC.**

TRANSIENT GAUGE DATA LISTING

KLM Exploration

Bower 2-A (2nd run)

Bower 2-A

Licence No:

ATTN:

Test Start: 2002.01.23 @ 15:05:41

Serial # 3026 Inside

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.23 @ 15:05:44	0.00083		-0.19	43.72	
2002.01.23 @ 15:09:41	0.06667		-0.61	43.06	
2002.01.23 @ 15:09:56	0.07083		35.82	43.06	
2002.01.23 @ 15:10:11	0.07500	0.00	24.66	43.22	Recorder @ Surface
2002.01.23 @ 15:10:26	0.07917		20.57	44.29	
2002.01.23 @ 15:10:41	0.08333		19.25	45.84	
2002.01.23 @ 15:10:56	0.08750		18.97	47.28	
2002.01.23 @ 15:32:26	0.44583		80.14	85.93	
2002.01.23 @ 15:53:56	0.80417		76.09	86.10	
2002.01.23 @ 16:15:26	1.16250		63.89	86.07	
2002.01.23 @ 16:36:56	1.52083		68.98	86.12	
2002.01.23 @ 16:58:26	1.87917		71.98	86.01	
2002.01.23 @ 17:19:56	2.23750		75.15	86.08	
2002.01.23 @ 17:41:26	2.59583		63.15	85.98	
2002.01.23 @ 18:02:56	2.95417		71.16	86.06	
2002.01.23 @ 18:24:26	3.31250		71.08	85.92	
2002.01.23 @ 18:45:56	3.67083		67.60	85.98	
2002.01.23 @ 19:07:26	4.02917		60.83	85.87	
2002.01.23 @ 19:28:56	4.38750		69.36	85.97	
2002.01.23 @ 19:50:26	4.74583		69.56	85.85	
2002.01.23 @ 20:11:56	5.10417		71.76	85.93	
2002.01.23 @ 20:33:26	5.46250		60.67	85.78	
2002.01.23 @ 20:54:56	5.82083		70.30	85.95	
2002.01.23 @ 21:16:26	6.17917		70.22	85.83	
2002.01.23 @ 21:37:56	6.53750		72.97	85.95	
2002.01.23 @ 21:59:26	6.89583		61.45	85.77	
2002.01.23 @ 22:20:56	7.25417		69.28	85.89	
2002.01.23 @ 22:42:26	7.61250		71.78	85.78	
2002.01.23 @ 23:03:56	7.97083		71.46	85.88	
2002.01.23 @ 23:25:26	8.32917		61.11	85.73	
2002.01.23 @ 23:46:56	8.68750		70.14	85.88	
2002.01.24 @ 00:08:26	9.04583		66.42	85.71	
2002.01.24 @ 00:29:56	9.40417		68.72	85.83	

Printing every 86 samples

Serial # 3026		Inside			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.24 @ 00:51:26	9.76250		62.67	85.69	
2002.01.24 @ 01:12:56	10.12083		69.54	85.81	
2002.01.24 @ 01:34:26	10.47917		68.50	85.72	
2002.01.24 @ 01:55:56	10.83750		70.34	85.83	
2002.01.24 @ 02:17:26	11.19583		62.19	85.69	
2002.01.24 @ 02:38:56	11.55417		69.90	85.80	
2002.01.24 @ 03:00:26	11.91250		69.16	85.69	
2002.01.24 @ 03:21:56	12.27083		73.11	85.81	
2002.01.24 @ 03:43:26	12.62917		60.11	85.64	
2002.01.24 @ 04:04:56	12.98750		66.64	85.76	
2002.01.24 @ 04:26:26	13.34583		65.52	85.60	
2002.01.24 @ 04:47:56	13.70417		73.65	85.76	
2002.01.24 @ 05:09:26	14.06250		61.49	85.56	
2002.01.24 @ 05:30:56	14.42083		68.04	85.78	
2002.01.24 @ 05:52:26	14.77917		69.90	85.64	
2002.01.24 @ 06:13:56	15.13750		70.24	85.70	
2002.01.24 @ 06:35:26	15.49583		59.85	85.54	
2002.01.24 @ 06:56:56	15.85417		67.44	85.71	
2002.01.24 @ 07:18:26	16.21250		66.28	85.57	
2002.01.24 @ 07:39:56	16.57083		67.74	85.64	
2002.01.24 @ 08:01:26	16.92917		64.53	85.61	
2002.01.24 @ 08:22:56	17.28750		65.18	85.62	
2002.01.24 @ 08:44:26	17.64583		72.35	85.68	
2002.01.24 @ 09:05:56	18.00417		71.24	85.55	
2002.01.24 @ 09:27:26	18.36250		67.74	85.63	
2002.01.24 @ 09:48:56	18.72083		60.97	85.54	
2002.01.24 @ 10:10:26	19.07917		67.04	85.60	
2002.01.24 @ 10:31:56	19.43750		68.36	85.54	
2002.01.24 @ 10:53:26	19.79583		71.84	85.57	
2002.01.24 @ 11:14:56	20.15417		66.86	85.54	
2002.01.24 @ 11:36:26	20.51250		64.19	85.54	
2002.01.24 @ 11:57:56	20.87083		68.08	85.55	
2002.01.24 @ 12:19:26	21.22917		67.98	85.48	
2002.01.24 @ 12:40:56	21.58750		70.26	85.55	
2002.01.24 @ 13:02:26	21.94583		61.79	85.45	
2002.01.24 @ 13:23:56	22.30417		65.90	85.52	
2002.01.24 @ 13:45:26	22.66250		67.24	85.45	
2002.01.24 @ 14:06:56	23.02083		72.73	85.52	
2002.01.24 @ 14:28:26	23.37917		66.88	85.44	
2002.01.24 @ 14:49:56	23.73750		63.01	85.48	
2002.01.24 @ 15:11:26	24.09583		70.62	85.51	
Printing every 86 samples					

Serial # 3026		Inside			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.24 @ 15:32:56	24.45417		73.93	85.47	
2002.01.24 @ 15:54:26	24.81250		71.54	85.49	
2002.01.24 @ 16:15:56	25.17083		59.21	85.33	
2002.01.24 @ 16:37:26	25.52917		63.25	85.41	
2002.01.24 @ 16:58:56	25.88750		68.60	85.45	
2002.01.24 @ 17:20:26	26.24583		71.08	85.43	
2002.01.24 @ 17:41:56	26.60417		72.87	85.45	
2002.01.24 @ 18:03:26	26.96250		82.52	85.63	
2002.01.24 @ 18:24:56	27.32083		73.95	85.46	
2002.01.24 @ 18:46:26	27.67917		72.97	85.59	
2002.01.24 @ 19:07:56	28.03750		66.28	85.47	
2002.01.24 @ 19:29:26	28.39583		71.20	85.52	
2002.01.24 @ 19:50:56	28.75417		68.16	85.41	
2002.01.24 @ 20:12:26	29.11250		68.62	85.48	
2002.01.24 @ 20:33:56	29.47083		73.63	85.50	
2002.01.24 @ 20:55:26	29.82917		76.19	85.52	
2002.01.24 @ 21:45:41	30.66667		70.48	85.59	
2002.01.24 @ 23:11:41	32.10000		70.32	85.52	
2002.01.25 @ 00:37:41	33.53333		67.30	85.46	
2002.01.25 @ 02:03:41	34.96667		68.94	85.41	
2002.01.25 @ 03:29:41	36.40000		69.82	85.37	
2002.01.25 @ 04:55:41	37.83333		67.26	85.37	
2002.01.25 @ 06:21:41	39.26667		63.95	85.37	
2002.01.25 @ 07:47:41	40.70000		62.33	85.34	
2002.01.25 @ 09:13:41	42.13333		63.61	85.37	
2002.01.25 @ 10:39:41	43.56667		63.77	85.34	
2002.01.25 @ 12:05:41	45.00000		65.76	85.34	
2002.01.25 @ 13:31:41	46.43333		66.06	85.36	
2002.01.25 @ 14:57:41	47.86667		67.90	85.34	
2002.01.25 @ 15:02:41	47.95000		64.15	85.31	
2002.01.25 @ 15:03:41	47.96667		63.07	85.29	
2002.01.25 @ 15:04:41	47.98333		63.13	85.29	Shut-in(1)
2002.01.25 @ 15:05:41	48.00000		67.36	85.29	
2002.01.25 @ 15:06:41	48.01667		72.22	85.30	
2002.01.25 @ 15:07:41	48.03333		78.53	85.33	
2002.01.25 @ 16:33:41	49.46667		267.45	86.90	
2002.01.25 @ 17:59:41	50.90000		312.69	86.92	
2002.01.25 @ 19:25:41	52.33333		341.75	86.93	
2002.01.25 @ 20:51:41	53.76667		362.40	87.02	
2002.01.25 @ 22:17:41	55.20000		378.48	87.00	
2002.01.25 @ 23:43:41	56.63333		391.02	87.04	
Printing every 86 samples					

Serial # 3026		Inside			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.26 @ 01:09:41	58.06667		401.63	87.03	
2002.01.26 @ 02:35:41	59.50000		411.39	87.04	
2002.01.26 @ 04:01:41	60.93333		417.75	87.03	
2002.01.26 @ 05:27:41	62.36667		424.56	87.04	
2002.01.26 @ 06:53:41	63.80000		430.24	87.04	
2002.01.26 @ 08:19:41	65.23333		435.94	87.06	
2002.01.26 @ 09:45:41	66.66667		448.92	87.26	
2002.01.26 @ 11:11:41	68.10000		453.14	87.29	
2002.01.26 @ 12:37:41	69.53333		456.37	87.30	
2002.01.26 @ 14:03:41	70.96667		458.83	87.31	
2002.01.26 @ 15:29:41	72.40000		461.37	87.30	
2002.01.26 @ 16:55:41	73.83333		463.70	87.29	
2002.01.26 @ 18:21:41	75.26667		465.82	87.29	
2002.01.26 @ 19:47:41	76.70000		467.76	87.30	
2002.01.26 @ 21:13:41	78.13333		469.60	87.30	
2002.01.26 @ 22:39:41	79.56667		471.25	87.30	
2002.01.27 @ 00:05:41	81.00000		472.76	87.30	
2002.01.27 @ 01:31:41	82.43333		474.19	87.30	
2002.01.27 @ 02:57:41	83.86667		475.49	87.30	
2002.01.27 @ 04:23:41	85.30000		476.72	87.30	
2002.01.27 @ 05:49:41	86.73333		477.84	87.30	
2002.01.27 @ 07:15:41	88.16667		478.89	87.30	
2002.01.27 @ 08:41:41	89.60000		479.87	87.30	
2002.01.27 @ 10:07:41	91.03333		480.76	87.29	
2002.01.27 @ 11:33:41	92.46667		481.62	87.29	
2002.01.27 @ 12:59:41	93.90000		482.46	87.30	
2002.01.27 @ 14:25:41	95.33333		483.21	87.29	
2002.01.27 @ 15:51:41	96.76667		483.91	87.29	
2002.01.27 @ 17:17:41	98.20000		484.56	87.30	
2002.01.27 @ 18:43:41	99.63333		485.24	87.30	
2002.01.27 @ 20:09:41	101.06667		485.82	87.29	
2002.01.27 @ 21:35:41	102.50000		486.40	87.30	
2002.01.27 @ 23:01:41	103.93333		486.93	87.30	
2002.01.28 @ 00:27:41	105.36667		487.43	87.29	
2002.01.28 @ 01:53:41	106.80000		487.93	87.29	
2002.01.28 @ 03:19:41	108.23333		488.43	87.29	
2002.01.28 @ 04:45:41	109.66667		488.86	87.29	
2002.01.28 @ 06:11:41	111.10000		489.30	87.29	
2002.01.28 @ 07:37:41	112.53333		489.70	87.29	
2002.01.28 @ 09:03:41	113.96667		490.10	87.29	
2002.01.28 @ 10:29:41	115.40000		490.48	87.29	
Printing every 86 samples					

Serial # 3026		Inside			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2002.01.28 @ 11:55:41	116.83333		490.81	87.30	
2002.01.28 @ 13:21:41	118.26667		491.15	87.28	
2002.01.28 @ 14:47:41	119.70000		491.49	87.30	
2002.01.28 @ 16:13:41	121.13333		491.81	87.29	
2002.01.28 @ 17:39:41	122.56667		492.11	87.28	
2002.01.28 @ 19:05:41	124.00000		492.41	87.29	
2002.01.28 @ 20:31:41	125.43333		492.66	87.29	
2002.01.28 @ 21:57:41	126.86667		492.94	87.28	
2002.01.28 @ 23:23:41	128.30000		493.20	87.29	
2002.01.29 @ 00:49:41	129.73333		493.46	87.29	
2002.01.29 @ 06:52:41	135.78333		494.51	87.28	
2002.01.29 @ 14:02:41	142.95000		495.53	87.29	
2002.01.29 @ 21:12:41	150.11667		496.41	87.30	
2002.01.30 @ 04:22:41	157.28333		497.18	87.30	
2002.01.30 @ 11:32:41	164.45000		497.86	87.30	
2002.01.30 @ 18:42:41	171.61667		498.46	87.31	
2002.01.31 @ 01:52:41	178.78333		499.01	87.32	
2002.01.31 @ 09:02:41	185.95000		499.51	87.32	
2002.01.31 @ 16:12:41	193.11667		499.93	87.32	
2002.01.31 @ 23:22:41	200.28333		500.35	87.32	
2002.02.01 @ 06:32:41	207.45000		500.72	87.31	
2002.02.01 @ 12:47:41	213.70000		501.02	87.31	
2002.02.01 @ 12:52:41	213.78333		501.02	87.30	
2002.02.01 @ 12:57:41	213.86667		501.05	87.31	End Shut-in(1)
2002.02.01 @ 13:02:41	213.95000		500.89	87.31	
2002.02.01 @ 13:07:41	214.03333		500.73	87.31	Recorder Off Bottom
2002.02.01 @ 13:12:41	214.11667		483.76	65.58	
2002.02.01 @ 13:17:41	214.20000	0.00	0.45	60.71	Recorder @ Surface

Printing every 86 samples

KLM

E/2 SE NE 5/10s/20e
 Start Test Date: 2002/01/15
 Final Test Date: 2002/02/04

Jefferson KS

FieldNotes

Bower 2-A

Field Measurements

	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Meter1 Temp	Static1 Pres	Orifice1 in	Fluid1 Rate	Gas1 Rate	Measured Fld1 Lev
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	°F	psi(g)		bbl/d	MMCF/D	in
1	2002/01/15	10:00:00	800								
2		10:08:00	900'								
3		10:25:00	1000'								
4		10:35:00	1100'								
5		10:43:00	1200'								
6		11:07:00	1250'								
7		11:18:00	1300'								
8		11:25:00	1350'								
9		11:41:00	1400'								
10		11:50:00	1425'								
11		12:01:00	1450'								
12		12:11:00	1475								
13		12:25:00	1493'								
14		13:00:00	started test								
15		13:00:00		484.66	484.50	0.00	0.00	0.000		0.000	
16		13:15:00		467.57	467.69	53.80	22.00	0.375		0.109	
17		13:30:00		464.60	465.50	58.90	16.00			0.087	
18		13:45:00		461.29	462.28	61.90	16.00			0.087	
19		14:00:00	1ST PT								
20		14:00:00		458.80	459.80	49.90	15.00			0.084	
21		14:15:00		453.10	454.70	47.70	23.00			0.113	
22		14:30:00		447.20	448.80	44.60	23.00			0.113	
23		14:45:00		441.10	442.50	42.70	25.00			0.121	
24		15:00:00	2ND PT								
25		15:00:00		436.10	437.30	42.10	23.00			0.114	
26		15:15:00		424.50	426.00	41.00	30.00			0.138	

2002/01/15 10:00:00 To 2002/01/16 09:45:00

Gas 0.091 Cum. 0.091 MMCF
 Oil 0.000 Cum. 0.000 bbl
 Water 0.000 Cum. 0.000 bbl



KLM

E/2 SE NE 5/10s/20e
 Start Test Date: 2002/01/15
 Final Test Date: 2002/02/04

Jefferson KS

FieldNotes

Field Measurements

Bower 2-A

	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Meter1 Temp	Static1 Pres	Orifice1 in	Fluid1 Rate	Gas1 Rate	Measured Fld1 Lev
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	°F	psi(g)		bbl/d	MMCF/D	in
27	2002/01/15	15:30:00		415.70	417.00	39.40	29.00			0.135	
28		15:45:00		409.20	410.50	38.70	29.00			0.135	
29		16:00:00	3RD PT								
30		16:00:00		401.70	403.00	38.30	28.00			0.132	
31		16:15:00		386.30	387.70	37.40	32.00			0.145	
32		16:30:00		367.80	371.00	37.30	37.00			0.161	
33		16:45:00		350.30	358.80	35.60	33.00			0.148	
34		17:00:00	4TH PT								
35		17:00:00		310.30	346.60	34.20	30.00			0.139	
36		17:15:00		211.30	287.40	33.80	22.00	0.675		0.357	
37		17:30:00	fluid								
38		17:30:00		91.70	163.60	33.70	30.00			0.447	
39		17:45:00		112.60	210.90	32.90	29.00	0.375		0.136	
40		21:00:00									
41	2002/01/16	09:45:00		161.44	372.24	31.60	6.00		0.000	0.047	0.000
42		12:30:00		45.15	126.27	37.40	23.00		22.432	0.114	2.000
43		15:00:00		19.13	112.47	43.20	19.00		24.675	0.099	4.000
44		15:30:00		18.66	107.10	40.30	12.00			0.073	
45		18:30:00		20.52	113.34	40.70	13.00			0.077	<i>ipt</i>
46		20:30:00		19.00	107.13	41.30	14.00			0.081	
47	2002/01/17	00:30:00		18.63	104.01	41.30	12.00			0.073	
48		03:30:00		19.90	111.01	42.10	13.00			0.077	
49		07:30:00		19.56	79.38	30.90	8.00			0.056	
50		09:30:00		20.21	82.25	34.20	2.00			0.020	
51		11:30:00		11.61	77.38	56.50	2.00		21.064	0.019	18.000
52		13:30:00		21.10	83.63	55.30	2.00			0.019	

2002/01/15 10:00:00 To 2002/01/16 09:45:00

Gas	0.091	Cum.	0.091 MMCF
Oil	0.000	Cum.	0.000 bbl
Water	0.000	Cum.	0.000 bbl

KLM

E/2 SE NE 5/10s/20e
 Start Test Date: 2002/01/15
 Final Test Date: 2002/02/04

Jefferson KS

FieldNotes

Field Measurements

Bower 2-A

	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Meter1 Temp	Static1 Pres	Orifice1 in	Fluid1 Rate	Gas1 Rate	Measured Fld1 Lev
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	°F	psi(g)		bbl/d	MMCF/D	in
53	2002/01/17	14:30:00		28.51	91.70	53.60	3.00			0.026	
54		16:30:00		18.26	73.36	47.00	2.00			0.020	
55		20:30:00		26.21	105.65	45.10	2.00		5.141	0.020	19.500
56		22:30:00		24.68	119.16	42.10	4.00			0.032	
57	2002/01/18	00:30:00		25.10	123.71	44.20	8.00			0.055	
58		07:30:00		23.44	73.16	26.60	12.00		8.412	0.074	22.500
59		10:30:00		59.36	105.23	35.60	11.00			0.070	
60		10:30:00	changed seperater								
61		12:00:00		76.24	146.68	38.00	40.00			0.170	
62		14:00:00		11.69	92.55	37.60	2.00		7.118	0.020	24.000
63		16:30:00		16.52	79.74	35.80	3.00			0.026	
64	2002/01/19	08:30:00		13.11	73.49	28.70	4.00		3.334	0.033	26.000
65		16:15:00		14.52	68.59	35.40	2.00			0.020	
66	2002/01/20	08:30:00		13.93	73.49	28.70	2.00		12.852	0.020	36.000
67		16:30:00		11.83	73.02	28.10	2.00			0.020	
68	2002/01/21	08:30:00		13.38	70.94	30.20	3.00			0.026	
69		15:15:00		16.56	65.85	54.50	2.00		10.031	0.019	46.000
70	2002/01/22	07:30:00		21.65	65.72	51.20	5.00			0.039	
71		11:30:00		21.47	67.95	53.50	9.00			0.059	
72		15:45:00		14.10	65.97	63.20	9.00		6.295	0.059	51.000
73		23:00:00		14.91	61.67	48.80	8.00			0.055	
74	2002/01/23	07:30:00		14.30	70.28	32.00	9.00			0.061	
75		14:10:00		18.90	62.28	42.00	10.00		8.256	0.065	57.000
76		15:00:00	pulled recorder & changed battery								
77	2002/01/24	07:30:00	making all oil no water								
78	2002/01/24	07:30:00		15.96	69.94	39.40	7.00			0.051	

2002/01/17 07:30:00 To 2002/01/18 07:30:00

Gas	0.037	Cum.	0.199 MMCF
Oil	23.776	Cum.	28.916 bbl
Water	0.000	Cum.	0.000 bbl

KLM

E/2 SE NE 5/10s/20e
 Start Test Date: 2002/01/15
 Final Test Date: 2002/02/04

Jefferson KS

FieldNotes

Field Measurements

Bower 2-A

	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Meter1 Temp	Static1 Pres	Orifice1 in	Fluid1 Rate	Gas1 Rate	Measured Fld1 Lev
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	°F	psi(g)		bbl/d	MMCF/D	in
79	2002/01/24	14:30:00		20.66	73.80	47.70	9.00		2.535	0.060	59.000
80	2002/01/25	00:00:00		16.23	69.00	34.20	9.00			0.060	
81		08:00:00		16.44	65.62	30.20	6.00		3.525	0.047	61.000
82		15:00:00		21.35	64.46	57.80	12.00			0.072	
83		15:05:00	Shutin well								
84		15:05:00		73.00	93.10						
85		15:15:00		113.00	138.79						
86		15:30:00		154.70	184.34						
87		15:45:00		179.62	209.11						
88		16:00:00		198.24	253.52						
89		16:30:00		251.13	293.23						
90		17:00:00		296.73	321.04						
91	2002/01/26	08:32:00		426.70	431.00						
92		10:19:00		434.79	435.97						
93		12:55:00		440.65	441.84						
94		15:16:00		444.40	445.71						
95	2002/01/27	08:05:00		462.14	463.17						
96		10:00:00		463.28	464.74						
97		12:22:00		464.78	466.09						
98		15:45:00		466.19	467.77						
99	2002/01/28	07:49:00		472.09	473.55						
100		11:55:00		473.23	474.64						
101		13:00:00		473.32	474.74						
102		15:30:00		473.80	475.29						
103	2002/01/29	07:30:00		477.54	478.20	0.00	0.00			0.000	
104	2002/01/30	08:00:00		475.41	480.61						

2002/01/24 07:30:00 To 2002/01/25 08:00:00

Gas 0.100 Cum. 0.489 MMCF
 Oil 5.141 Cum. 78.395 bbl
 Water 0.000 Cum. 0.000 bbl

KLM

E/2 SE NE 5/10s/20e
Start Test Date: 2002/01/15
Final Test Date: 2002/02/04

Jefferson KS

Bower 2-A

FieldNotes

Field Measurements

	Date	Clock Time	Comments	Tubing Pres	Casing Pres	Meter1 Temp	Static1 Pres	Orifice1 in	Fluid1 Rate	Gas1 Rate	Measured Fld1 Lev
	yyyy/mm/dd	hh:mm:ss		psi(g)	psi(g)	°F	psi(g)		bbl/d	MMCF/D	in
105	2002/01/30	09:30:00		475.49	480.72	0.00	0.00			0.000	
106		18:00:00		478.37	480.31						
107	2002/01/31	08:00:00		480.68	480.78						
108		18:00:00		482.85	483.43						
109	2002/02/01	13:00:00		484.41	486.56	0.00	0.00			0.000	
110											

2002/01/30 08:00:00 To 2002/01/31 08:00:00

Gas	0.000	Cum.	0.507 MMCF
Oil	0.000	Cum.	78.395 bbl
Water	0.000	Cum.	0.000 bbl

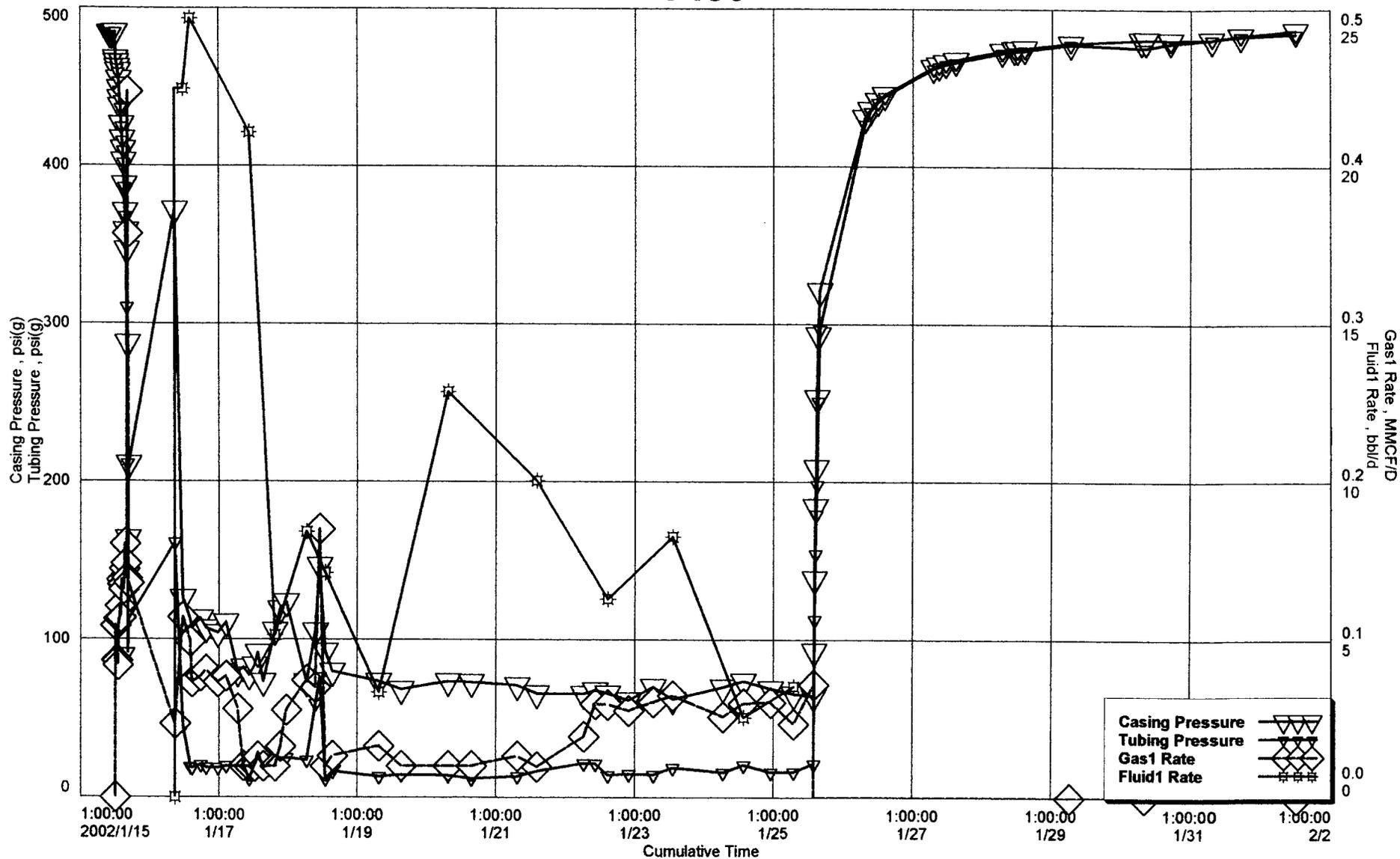


KLM
E/2 SE NE 5/10s/20e
Start Test Date: 2002/01/15
Final Test Date: 2002/02/04

Jefferson KS

Bower 2-A

Plot



FROM :

FAX NO. : 9137966272

Jan. 22 2002 05:53PM P1

Address

Wellname

KLM

Legal

Sec:

Twp.

Rge

Formation

Field/Pool

County:

St

Casing size

Feet of:

Wt:

Meter run size:

St:

Tubing Size

Feet of:

Wt

Orif (in):

95%

Plugged back depth:

Packer depth:

90%

Type Test

Tap Type:

Gravity:

85%

Type Completion:

Producing through:

80%

Date	Clk Tim	Tbg Pres	Csg Pres	Diff	Temp	Static/Prover	Wat Vol1	Oil Vol	Comment
mm/dd	clock	psi	psi	in of H2O	F	PSI	inch	inch	
1/16	18:30	20.52	113.34		40.7	13			
	20:30	19.00	107.13		41.3	14			
1/17	00:30	18.63	104.01		41.3	12			
	3:30	19.90	111.11		42.1	13			
	7:30	19.56	79.38		30.9	8			
	9:30	20.21	82.25		34.2	2			
	11:30	11.61	77.38		56.5	2			14" Total
	13:30	21.10	83.63		55.3	2			
	14:30	28.51	91.70		53.6	3			
	16:30	18.26	73.36		47.0	2			
	20:30	26.21	105.15		45.1	2			15.5" Total
	22:30	24.68	119.16		42.1	4			
1/18	00:30	25.10	123.71		44.2	8			
	7:30	23.44	73.16		26.6	12			18.5" (oil blew out on ground also)
	10:30	59.36	105.23		35.6	11			
	12:00	76.24	146.68		38.0	40			
	14:00	11.69	92.55		37.6	2			20"
1/30 hrs	6:30	16.52	79.74		35.8	3			
1-19	8:30	13.11	74.07		30.5	4			22" (several barrels oil on ground)
	16:15	14.52	68.59		35.4	2			
1-20	8:30	13.93	73.49		28.7	2			30"
	16:30	11.83	73.02		28.1	2			
1-21	8:30	13.38	70.94		30.2	3			
	15:15	16.56	65.85		54.5	2			42"
1-22	7:30	21.65	65.72		51.2	5			Oil out on ground again
	11:30	21.47	67.95		53.5	9			
	15:45	14.10	65.97		63.2	9			47"

* KLM Exploration:

Friday January 25, 2002

Time	Tubing	Casing	Temp	Pressure
15:00	21.35	64.46	57.8	12 [#]

* Shut in well @ 1500

Time	Tubing	Casing	
15:05	73.00	93.10	
15:15	113.00	138.79	
15:30	154.70	184.34	
15:45	179.62	209.11	
16:00	198.24	253.52	
16:30	251.13	293.23	
17:00	296.73	321.04	
Jan 26	8:32	426.70	431.00
	10:19	434.79	435.97
	12:55	440.65	441.84
	15:16	444.40	445.71
Jan 27	8:05	462.14	463.17
	10:00	463.28	464.74
	12:22	464.78	466.09
	15:45	466.19	467.77
Jan 28	7:49	472.09	473.55
	11:55	473.23	474.64
	13:00	473.32	474.74
	15:30	473.80	475.29
Jan 29	7:30	477.54	478.20