

LO16 -14 WELL: SLICK LINE REPORT
MEMORY GAUGES INSTALL

Company: Flowpetrol S.A.

DATE: NOVEMBER, 28th 2009

TIME		REMARKS
FROM	TO	
09:00		Arrived on location.
09:30		Move slick line unit to LO16 platform.
9:50		Safety meeting with all crew involved.
10:00		Rig up slick line unit to LO16-14 well. (conventional gas lift installation, cycle:60 x 6'.30")
11:30		RAN 2 5/16" Cup to calibrate 2 7/8" tubing to 8920'. Presence of paraffin.
15:00		RAN dead weight to 9451' (seating nipple). Ok.
17:32		Activate memory gauge N° 5831 w/ battery S/N 07317097 Up.
17:33		Activate memory gauge N° 5833 w/ battery S/N 07317099 Down.
17:45		RIH Memory gauges at 9410'.
18:30		The well must be open to test separator, record gas lift injection with normal cycle 60' during 8 hours.
19:12		first gas lift injection. THP= 25 Psia (manometer).

DATE: NOVEMBER, 29th 2009.

2:30		The well produced 15.2 bls. Approximately 1.9 bls./cycle: 60' x 6' 30" during the test (8 hors).
2:35		Bleed off to the test separator during 1 hour, cut gas lift injection.
3:46		Close the well, recorder at bottom hole pressure static during 3 hours.
4:00		THP= 70 Psia.
5:00		THP= 210 Psia.
6:00		THP= 225 Psia.
6:46		Open the well and bleed off to the test separator, recorder at bottom hole pressure without gas lift injection during 1 hour.
7:46		POOH memory gauges w/ steps for 3 minutes as follow: 9410' - 9310' - 9210' - 9110' - 9010' - 8910' - 8810' - 8710' - 8610' - 8510' - 8410' - 8310' - 8210' - 8110' - 8010' - 7810' - 7610' - 7410' - 7210' - 7010' - 6810' - 6610' - 6410' - 6210' - 6010' - 5510' - 5010' - 4510' - 4010' - 3210' - 2410' - 1610' - 810' - 0'.
11:10		memory on surface.
11:20		Normalize well on production with gas lift.
11:24		Desactivate memory gauges.
11:30		Rig down slick line.
16:00		Move slick line unit to base.

ECC

Note.- The well produced 15.2 bls during the test. 8 hours.

TOTAL PRODUCTION: 30 BOPD (28/11/2009.)

Time (hours)	Production (bls)
19:30	2.1
20:30	2
21:30	1.7
22:30	1.9
23:30	1.9
00:30	1.9
01:30	1.8
02:30	1.9
08 hours.	15.2

FLOWPETROL S.A.

FLOWING GRADIENT BHP TEST.

COMPANY : PETROTECH PERUANA S.A.

WELL : L016-14

FIELD : LOBITOS OFFSHORE

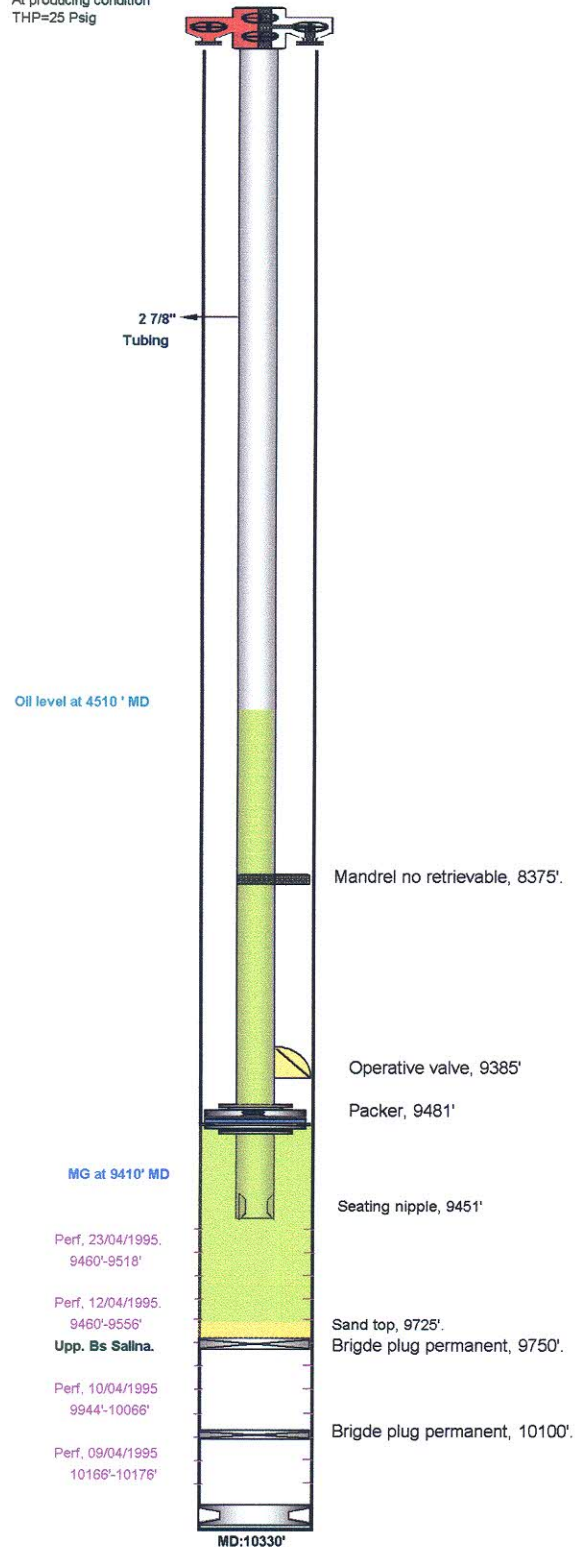
DATE : NOVEMBER 28th – 29th 2009

FLOWPETROL S.A.

Well: LO16-14
Type of test: Flowing Gradient

Sand: Upp. Bs. Salina < 10176'- 9460'>
Area : Lobitos Offshore.

At producing condition
THP=25 Psig



Installation type: Conventional Gas Lift.
Status well: Gas lift intermittent.
Cycle: 60 x 6.30", bean 24/64" 30 BOPD.

Date: november 28th, 2009

09:00 Arrived on location.
09:30 Move slick line unit to LO16 platform.
09:50 Safety meeting with all crew involved.
10:00 Rig up slick line unit.
11:30 RAN 2 5/16" Cup to calibrate 2 7/8" tubing to 8920'.
Presence of paraffin.
15:00 RAN dead weight to 9451' (seating nipple). Ok.
17:32 Activate MG 5833 w/ batt. s/n 07317099 up.
17:33 Activate MG 5831 w/ batt. s/n 07317097 down.
17:45 RIH Memory gauges at 9410'.
18:30 The well must be open to test separator, record gas lift injection with normal cycle 60' during 8 hours.
19:12 first gas lift injection. THP= 25 Psia (manometer).

Date: november 29th, 2009

02:30 The well produced 15.2 bls. Approximately 1.9 bls./cycle
Cycle: 60' x 6' 30" during the test (8 hors).
02:35 Bleed off to the test separator during 1 hour, cut gas lift injection.
03:46 Close the well, recorder at bottom hole pressure static during 3 hours.
04:00 THP= 70 Psia.
05:00 THP= 210 Psia.
06:00 THP= 225 Psia.
06:46 Open the well and bleed off to the test separator, recorder at bottom hole pressure without gas lift injection during 1 hour.
07:46 POOH memory gauges w/ steps for 3 minutes as follow:
9410' - 9310' - 9210' - 9110' - 9010' - 8910' - 8810' - 8710' - 8610' - 8510' - 8410' - 8310' - 8210' - 8110' - 8010' - 7810' - 7610' - 7410' - 7210' - 7010' - 6810' - 6610' - 6410' - 6210' - 6010' - 5510' - 5010' - 4510' - 4010' - 3210' - 2410' - 1610' - 810' - 0'.
11:10 Memory on surface.
11:20 Normalize well on production with gas lift.
11:24 Desactivate memory gauges.
11:30 Rig down slick line.
16:00 Move slick line unit to base.

Note.- The well produced 15.2 bls during the test. 8 hours.
TOTAL PRODUCTION: 30 BOPD (28/11/2009.) Cycle: 60 x 6.30".

Time (hours)	Nro Injection	Production (bls)
19:30	1	2.1
20:30	2	2
21:30	3	1.7
22:30	4	1.9
23:30	5	1.9
00:30	6	1.9
01:30	7	1.8
02:30	8	1.9
08 hours.		15.2

Field operator: Jorge sanjinez.

Field Supervisor: Enrique Cordova.
PTP Supervisor: Gabriel Russo.

Summary of BHP Results : LO16-14.

Date of Test	November 28th - 29th, 2009	
Formation	Upp. Bs. Salina < 10176'- 9460'>	
Gauge serial number	5831 & 5833	
Gauge depth	9410	MD ft
	7479	VD ft

08 hrs. at producing condition:

THP Producing	25 psia.(manometer)
Pinj. Max.	542 psia @ 46 ° C
Pwf max.	282 psia @ 46 ° C
Pwf min.	177 psia @ 45 ° C

Bleed off to the separator without gas lift injection by 01 hour.

Pmax	365 psia @ 46 ° C
Pmin	222 psia @ 45 ° C

03 hrs. at static condition:

Ps. Max.	646 Psia, @ 48 ° C.
Ps. Min	368 Psia, @ 46 ° C
THP max	225 Psia (manometer)
THP min	70 Psia (manometer)

Bleed off to the separator without gas lift injection by 01 hour.

Pmax	365 psia @ 46 ° C
Pmin	222 psia @ 45 ° C

Levels and gradients.

Oil level	4510	ft MD
Oil gradient	0.1	psi/ ft
Formation gradient:	0.051	psi/ ft

Flowing pressure in 2 7/8" tubing cycle: 60 x 6.30", choke: 24/64

N° Injection	Pwf max. (psia)	Pwf min (psia)	Produccion bls/cycle
1	255	181	2.1
2	264	180	2
3	260	181	1.7
4	264	182	1.9
5	261	176	1.9
6	276	186	1.9
7	292	209	1.8
8	300	220	1.9

Tubing head pressure in 2 7/8" tubing cycle: 60 x 6.30", choke: 24/64

N° Injection	THP Initial	THP final	Production bles/cycle
1	30	90	2.1
2	30	90	2
3	30	90	1.7
4	30	90	1.9
5	30	90	1.9
6	30	90	1.9
7	30	80	1.8
8	30	90	1.9

Casing head pressure in annul cycle: 60 x 6.30", choke: 24/64

N° Injection	CHP Initial	CHP final	Production bles/cycle
1	530	640	2.1
2	530	640	2
3	530	640	1.7
4	530	640	1.9
5	530	640	1.9
6	530	640	1.9
7	530	640	1.8
8	530	640	1.9

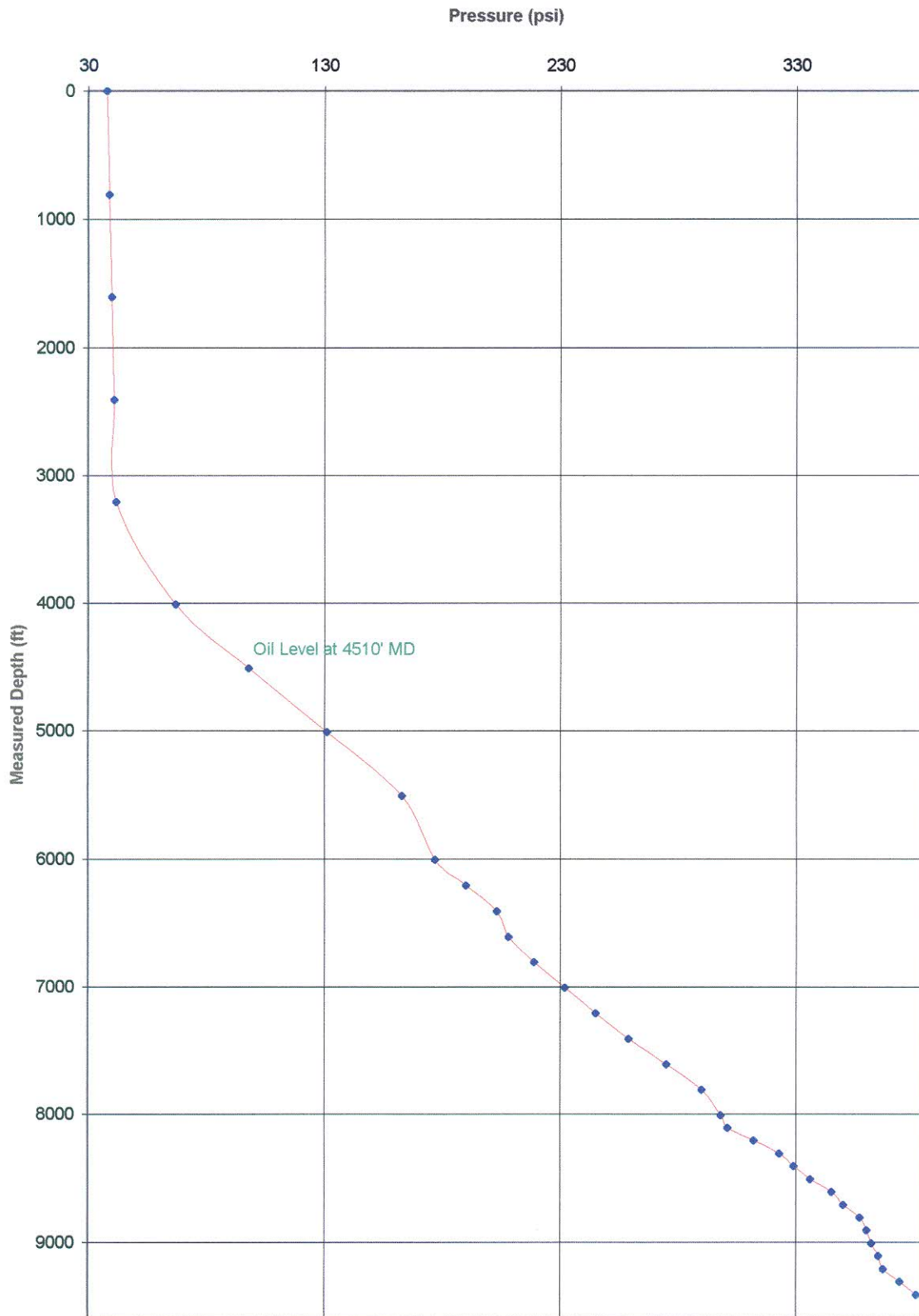
[Fluid level at producing condition, while POOH memory gauges](#)

Measuerd Depth (ft)	Vertical Depth (ft)	Pressure (Psia)	Gradient (psi/ft)
0	0	38	-
810	809	39	0.0
1610	1556	40	0.0
2410	2169	41	0.0
3210	2757	42	0.0
4010	3346	67	0.0
4510	3736	98	0.1
5010	4124	131	0.1
5510	4484	163	0.1
6010	4850	177	0.0
6210	4997	190	0.1
6410	5144	203	0.1
6610	5292	208	0.0
6810	5439	219	0.1
7010	5587	232	0.1
7210	5739	245	0.1
7410	5892	259	0.1
7610	6047	275	0.1
7810	6205	290	0.1
8010	6363	298	0.1
8110	6443	301	0.0
8210	6523	312	0.1
8310	6604	323	0.1
8410	6685	329	0.1
8510	6800	336	0.1
8610	6847	345	0.2
8710	6928	350	0.1
8810	7009	357	0.1
8910	7090	360	0.0
9010	7169	362	0.0
9110	7248	365	0.0
9210	7326	367	0.0
9310	7403	374	0.1
9410	7479	381	0.1

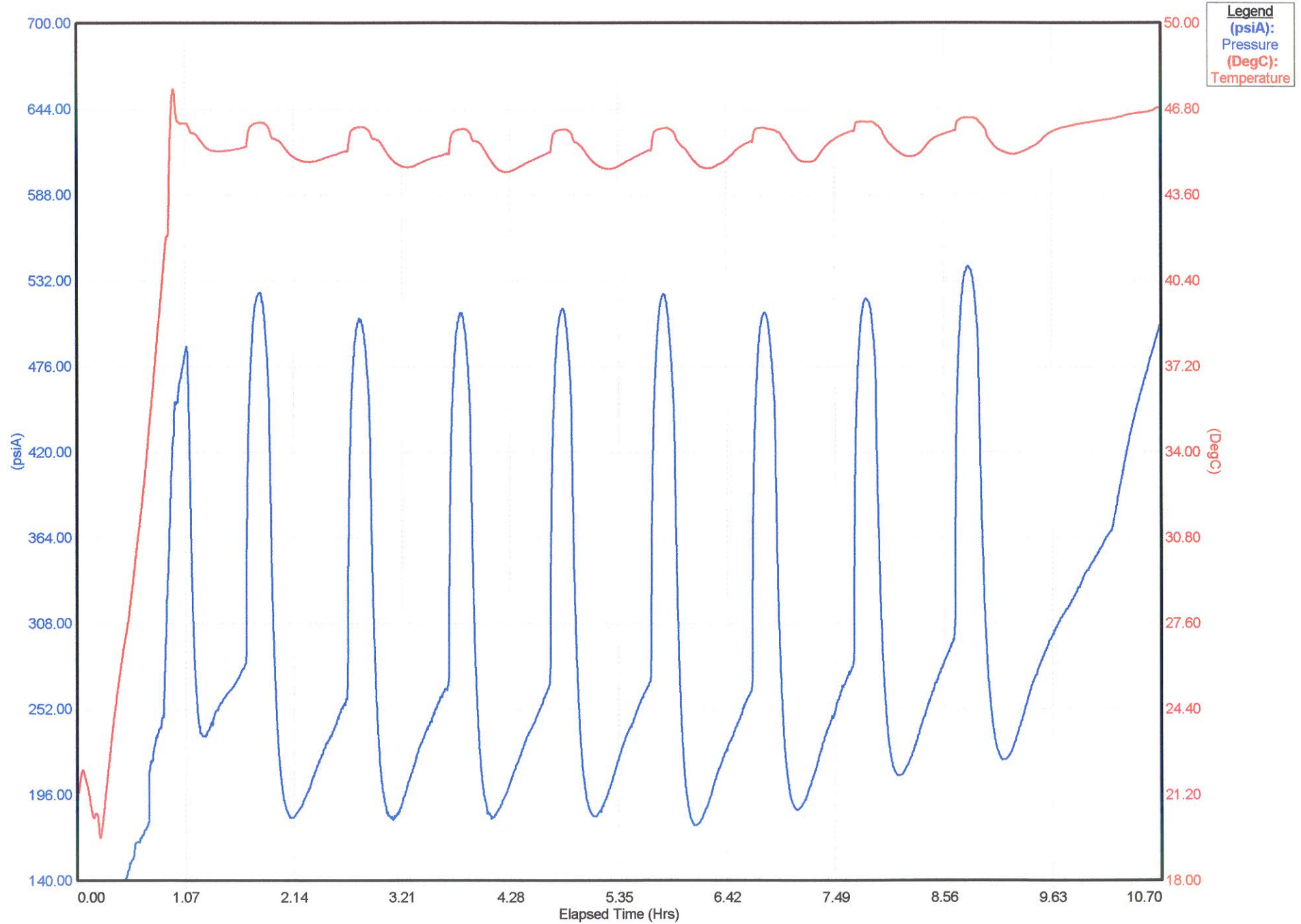
[Fluid level at producing condition.](#)

Fluid	measured depth (ft)	vertical depth (ft)	gradient (psi/ft)
gas	0	0	0.0
oil	4510	3736	0.1
gauges	9410	7479	0.1

Flowing Pressure LO16-14 Well



MG5833 Down, LO16-14 well



8 hours, at Producing Condition, cycle: 60x6.30"

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.
8 hours at producing condition

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
28/11/2009 18:30	0.9508333	429.32	47.51
28/11/2009 18:33	0.9869444	452.87	46.47
28/11/2009 18:36	1.0508333	477.71	46.27
28/11/2009 18:39	1.0869444	486.93	46.26
28/11/2009 18:42	1.1508333	305.07	45.92
28/11/2009 18:45	1.1869444	255.33	45.84
28/11/2009 18:48	1.2508333	234.24	45.51
28/11/2009 18:51	1.2869444	237.07	45.37
28/11/2009 18:54	1.3508333	247.22	45.26
28/11/2009 18:57	1.3869444	252.19	45.24
28/11/2009 19:00	1.4369444	256.99	45.23
28/11/2009 19:03	1.5008333	263.33	45.26
28/11/2009 19:06	1.5369444	265.94	45.28
28/11/2009 19:09	1.6008333	273.08	45.32
28/11/2009 19:12	1.6369444	277.65	45.36
28/11/2009 19:15	1.7008333	444.85	45.98
28/11/2009 19:18	1.7369444	497.88	46.22
28/11/2009 19:23	1.8341667	518.82	46.30
28/11/2009 19:26	1.8702778	493.59	46.25
28/11/2009 19:29	1.9341667	322.76	45.74
28/11/2009 19:32	1.9702778	251.89	45.69
28/11/2009 19:35	2.0341667	196.83	45.50
28/11/2009 19:38	2.0702778	186.36	45.32
28/11/2009 19:43	2.1675000	184.03	44.97
28/11/2009 19:46	2.2036111	187.28	44.91
28/11/2009 19:49	2.2675000	196.81	44.84
28/11/2009 19:52	2.3036111	202.30	44.84
28/11/2009 19:55	2.3675000	214.07	44.87
28/11/2009 19:58	2.4036111	218.83	44.90
28/11/2009 20:01	2.4675000	230.01	45.00
28/11/2009 20:04	2.5036111	233.41	45.04
28/11/2009 20:07	2.5675000	243.45	45.11
28/11/2009 20:10	2.6036111	249.76	45.16
28/11/2009 20:13	2.6675000	258.87	45.24
28/11/2009 20:16	2.7036111	424.00	45.81
28/11/2009 20:19	2.7675000	501.36	46.11
28/11/2009 20:22	2.8036111	505.18	46.13
28/11/2009 20:25	2.8675000	476.88	46.09
28/11/2009 20:28	2.9036111	414.51	45.96
28/11/2009 20:31	2.9675000	248.90	45.69
28/11/2009 20:34	3.0036111	210.96	45.59
28/11/2009 20:37	3.0675000	184.81	45.20
28/11/2009 20:40	3.1036111	181.59	45.01
28/11/2009 20:43	3.1675000	184.19	44.78
28/11/2009 20:46	3.2036111	187.62	44.70
28/11/2009 20:49	3.2675000	201.94	44.64
28/11/2009 20:52	3.3036111	209.60	44.65
28/11/2009 20:55	3.3675000	222.12	44.73
28/11/2009 20:58	3.4036111	229.85	44.80
28/11/2009 21:01	3.4536111	238.31	44.89
28/11/2009 21:04	3.5175000	247.39	44.98
28/11/2009 21:07	3.5536111	253.27	45.02
28/11/2009 21:10	3.6036111	260.90	45.06
28/11/2009 21:13	3.6675000	267.35	45.15
28/11/2009 21:16	3.7036111	432.63	45.74
28/11/2009 21:19	3.7675000	505.26	46.03
28/11/2009 21:22	3.8036111	510.88	46.05
28/11/2009 21:25	3.8675000	476.80	46.02
28/11/2009 21:28	3.9036111	387.13	45.82
28/11/2009 21:31	3.9675000	239.47	45.58
28/11/2009 21:34	4.0036111	207.53	45.48
28/11/2009 21:37	4.0675000	184.58	45.08
28/11/2009 21:40	4.1036111	181.54	44.86
28/11/2009 21:43	4.1675000	186.70	44.57
28/11/2009 21:46	4.2036111	191.83	44.49
28/11/2009 21:49	4.2675000	201.51	44.47
28/11/2009 21:52	4.3036111	208.07	44.51
28/11/2009 21:55	4.3647222	218.53	44.61
28/11/2009 21:58	4.4175000	229.01	44.73

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.
8 hours at producing condition

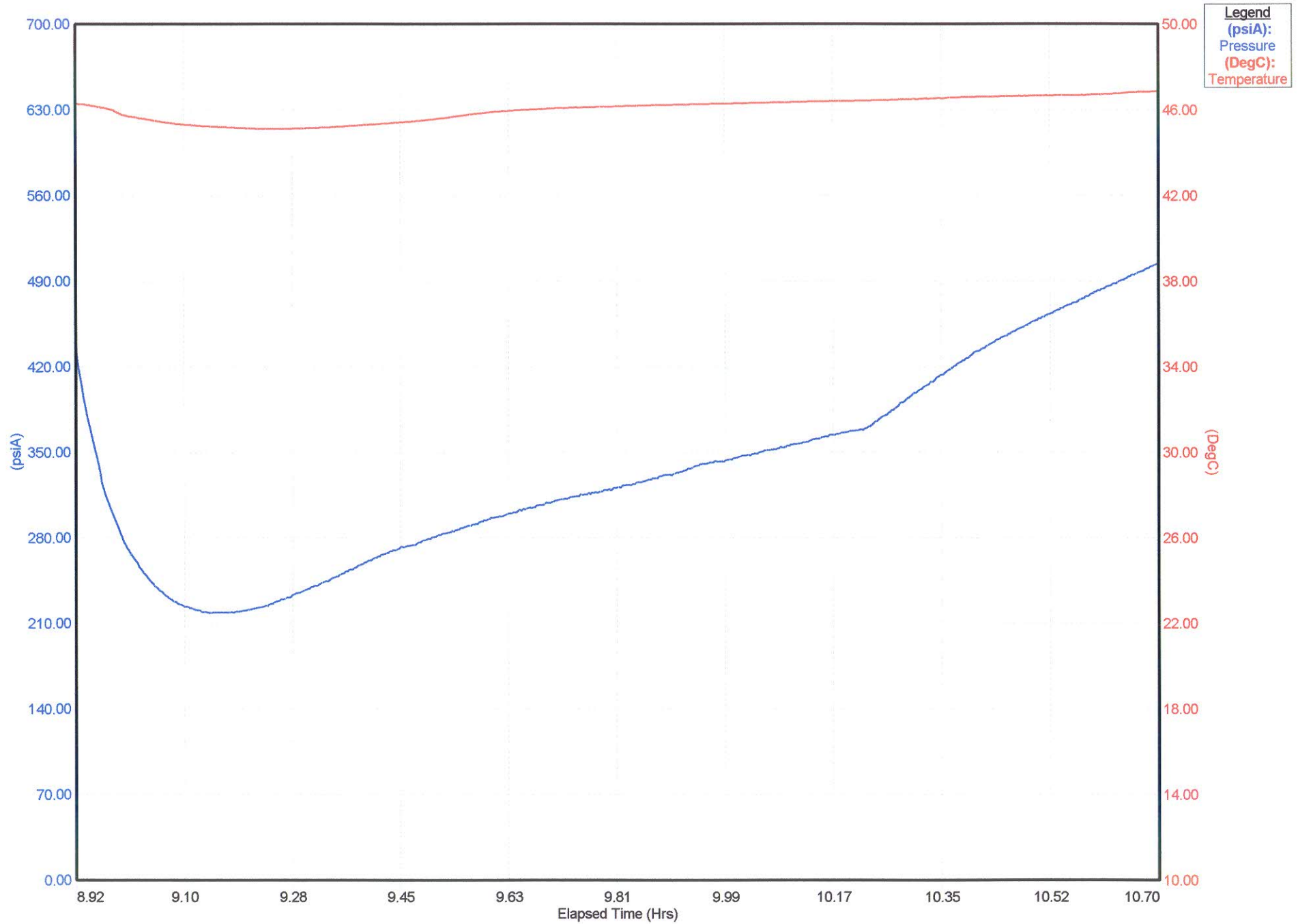
Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
28/11/2009 22:01	4.4536111	234.71	44.80
28/11/2009 22:04	4.5175000	243.07	44.92
28/11/2009 22:07	4.5536111	248.43	44.98
28/11/2009 22:10	4.6036111	256.18	45.06
28/11/2009 22:13	4.6647222	267.80	45.18
28/11/2009 22:16	4.7175000	458.62	45.91
28/11/2009 22:19	4.7536111	499.63	46.01
28/11/2009 22:22	4.8175000	512.18	46.06
28/11/2009 22:25	4.8536111	492.07	46.03
28/11/2009 22:28	4.9175000	335.39	45.62
28/11/2009 22:31	4.9536111	260.20	45.54
28/11/2009 22:34	5.0175000	200.90	45.28
28/11/2009 22:37	5.0536111	188.86	45.08
28/11/2009 22:40	5.1175000	182.08	44.81
28/11/2009 22:43	5.1536111	184.50	44.71
28/11/2009 22:46	5.2175000	192.70	44.59
28/11/2009 22:49	5.2536111	199.64	44.58
28/11/2009 22:52	5.3175000	212.40	44.61
28/11/2009 22:55	5.3536111	220.45	44.68
28/11/2009 22:58	5.4175000	233.39	44.81
28/11/2009 23:01	5.4536111	239.07	44.89
28/11/2009 23:04	5.5175000	248.64	45.02
28/11/2009 23:07	5.5536111	254.62	45.07
28/11/2009 23:10	5.6175000	264.23	45.20
28/11/2009 23:13	5.6536111	269.50	45.26
28/11/2009 23:16	5.7175000	471.76	45.98
28/11/2009 23:19	5.7536111	509.48	46.04
28/11/2009 23:22	5.8175000	520.67	46.09
28/11/2009 23:25	5.8536111	499.05	46.07
28/11/2009 23:28	5.9175000	380.93	45.82
28/11/2009 23:31	5.9536111	278.67	45.55
28/11/2009 23:34	6.0175000	201.05	45.32
28/11/2009 23:37	6.0536111	183.87	45.12
28/11/2009 23:40	6.1175000	176.30	44.82
28/11/2009 23:43	6.1536111	178.39	44.69
28/11/2009 23:46	6.2175000	187.34	44.59
28/11/2009 23:49	6.2536111	193.74	44.60
28/11/2009 23:52	6.3175000	208.14	44.68
28/11/2009 23:55	6.3536111	214.55	44.75
28/11/2009 23:58	6.4175000	225.74	44.91
29/11/2009 00:01	6.4536111	231.02	45.02
29/11/2009 00:04	6.5175000	240.74	45.27
29/11/2009 00:07	6.5536111	246.52	45.38
29/11/2009 00:10	6.6175000	258.04	45.52
29/11/2009 00:13	6.6536111	262.72	45.58
29/11/2009 00:16	6.7175000	464.55	46.07
29/11/2009 00:19	6.7536111	500.33	46.10
29/11/2009 00:22	6.8175000	509.94	46.09
29/11/2009 00:25	6.8536111	491.34	46.05
29/11/2009 00:28	6.9175000	374.28	46.00
29/11/2009 00:31	6.9536111	281.93	45.92
29/11/2009 00:34	7.0175000	209.78	45.56
29/11/2009 00:37	7.0536111	194.00	45.33
29/11/2009 00:40	7.1147222	186.11	45.01
29/11/2009 00:43	7.1675000	189.46	44.86
29/11/2009 00:46	7.2036111	194.14	44.84
29/11/2009 00:49	7.2675000	207.04	44.85
29/11/2009 00:52	7.3036111	214.28	44.93
29/11/2009 00:55	7.3675000	229.53	45.25
29/11/2009 00:58	7.4036111	237.36	45.42
29/11/2009 01:01	7.4675000	246.18	45.62
29/11/2009 01:04	7.5036111	255.07	45.72
29/11/2009 01:07	7.5675000	267.91	45.85
29/11/2009 01:10	7.6036111	272.27	45.91
29/11/2009 01:13	7.6675000	281.01	45.99
29/11/2009 01:16	7.7036111	449.53	46.30
29/11/2009 01:19	7.7675000	514.49	46.33
29/11/2009 01:22	7.8036111	520.34	46.33
29/11/2009 01:25	7.8675000	497.80	46.31

Well: LO16-14 Development Test
 Activa Memory Gauge 5833 Down.

8 hours at producing condition

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 01:28	7.9036111	421.65	46.22
29/11/2009 01:30	7.9397222	321.75	46.10
29/11/2009 01:33	8.0008333	241.74	45.68
29/11/2009 01:36	8.0369444	222.02	45.53
29/11/2009 01:39	8.1008333	208.93	45.28
29/11/2009 01:42	8.1369444	209.12	45.18
29/11/2009 01:45	8.2008333	215.46	45.05
29/11/2009 01:48	8.2369444	220.91	45.04
29/11/2009 01:51	8.3008333	233.32	45.09
29/11/2009 01:54	8.3369444	241.16	45.19
29/11/2009 01:57	8.4008333	254.48	45.47
29/11/2009 02:00	8.4369444	260.52	45.63
29/11/2009 02:03	8.5008333	272.36	45.77
29/11/2009 02:06	8.5369444	278.20	45.83
29/11/2009 02:09	8.6008333	288.25	45.92
29/11/2009 02:12	8.6369444	294.53	45.97
29/11/2009 02:15	8.7008333	469.06	46.35
29/11/2009 02:18	8.7369444	518.25	46.46
29/11/2009 02:21	8.8008333	541.55	46.49
29/11/2009 02:24	8.8369444	537.62	46.48
29/11/2009 02:27	8.9008333	495.06	46.42
29/11/2009 02:30	8.9369444	381.55	46.25

MG5833 Down, LO16-14 well.



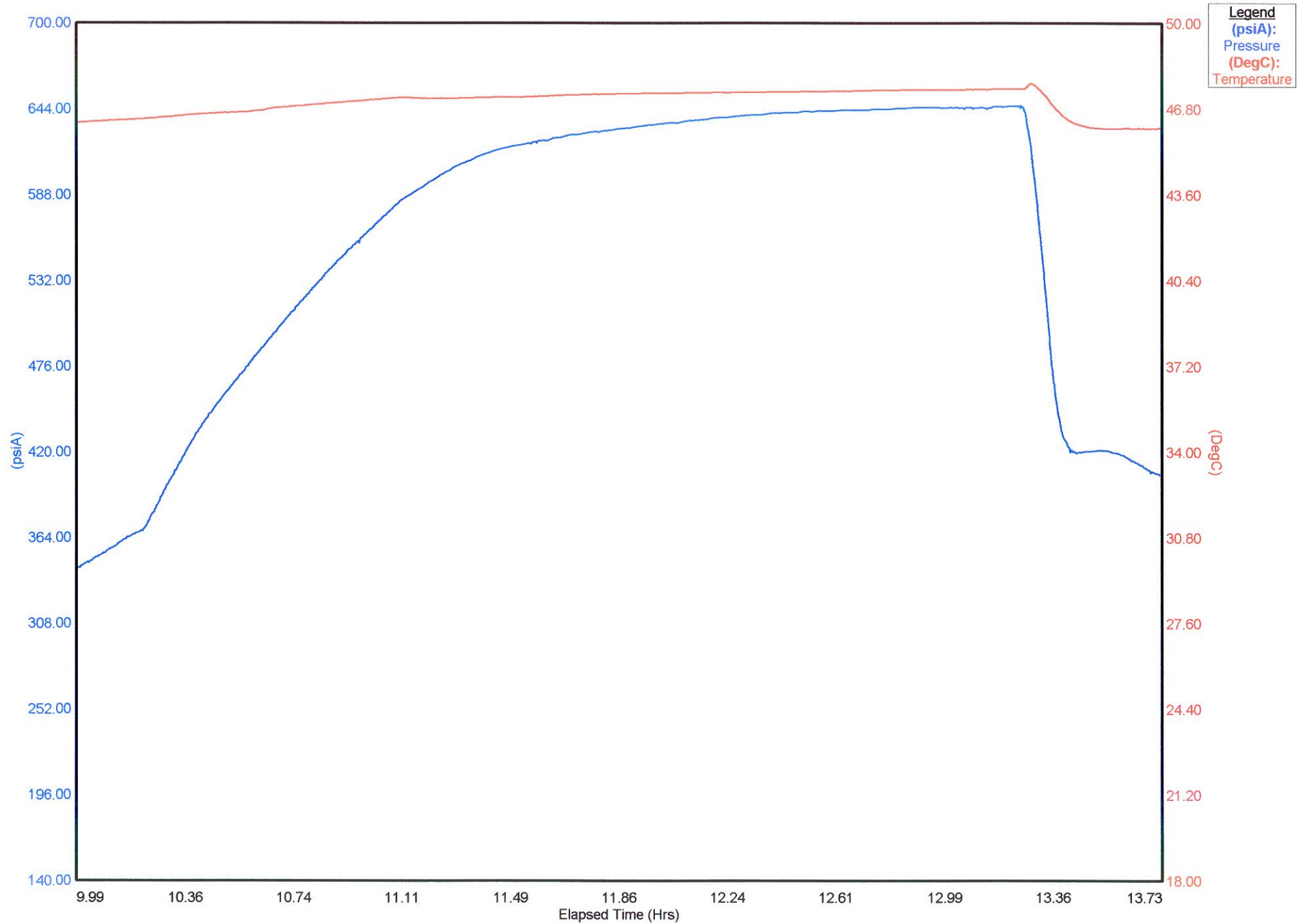
1 hour bleed off, without gas lift injection.

Well: LO16-14 Development Test
 Activa Memory Gauge 5833 Down.

1 hour without gas lift injection.

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 02:35	9.0341667	249.93	45.60
29/11/2009 02:37	9.0675000	232.75	45.43
29/11/2009 02:39	9.1008333	224.34	45.32
29/11/2009 02:41	9.1341667	219.58	45.25
29/11/2009 02:43	9.1675000	219.25	45.20
29/11/2009 02:45	9.2008333	221.31	45.16
29/11/2009 02:47	9.2341667	224.41	45.12
29/11/2009 02:49	9.2675000	231.55	45.13
29/11/2009 02:51	9.3008333	238.48	45.16
29/11/2009 02:53	9.3341667	244.75	45.20
29/11/2009 02:55	9.3675000	252.98	45.25
29/11/2009 02:57	9.4008333	261.38	45.32
29/11/2009 02:59	9.4341667	267.88	45.38
29/11/2009 03:01	9.4675000	273.89	45.45
29/11/2009 03:03	9.5008333	279.79	45.55
29/11/2009 03:05	9.5341667	284.79	45.66
29/11/2009 03:07	9.5675000	290.69	45.80
29/11/2009 03:09	9.6008333	295.46	45.90
29/11/2009 03:11	9.6341667	300.26	45.96
29/11/2009 03:13	9.6675000	305.43	46.02
29/11/2009 03:15	9.7008333	308.88	46.07
29/11/2009 03:17	9.7341667	313.44	46.11
29/11/2009 03:19	9.7675000	316.20	46.13
29/11/2009 03:21	9.8008333	319.21	46.16
29/11/2009 03:23	9.8341667	323.75	46.20
29/11/2009 03:25	9.8675000	328.11	46.23
29/11/2009 03:27	9.9008333	331.62	46.24
29/11/2009 03:29	9.9341667	337.63	46.28
29/11/2009 03:31	9.9675000	341.87	46.29
29/11/2009 03:33	10.0008333	344.60	46.31
29/11/2009 03:35	10.0341667	348.77	46.33

MG5833 Down, LO16-14 well.

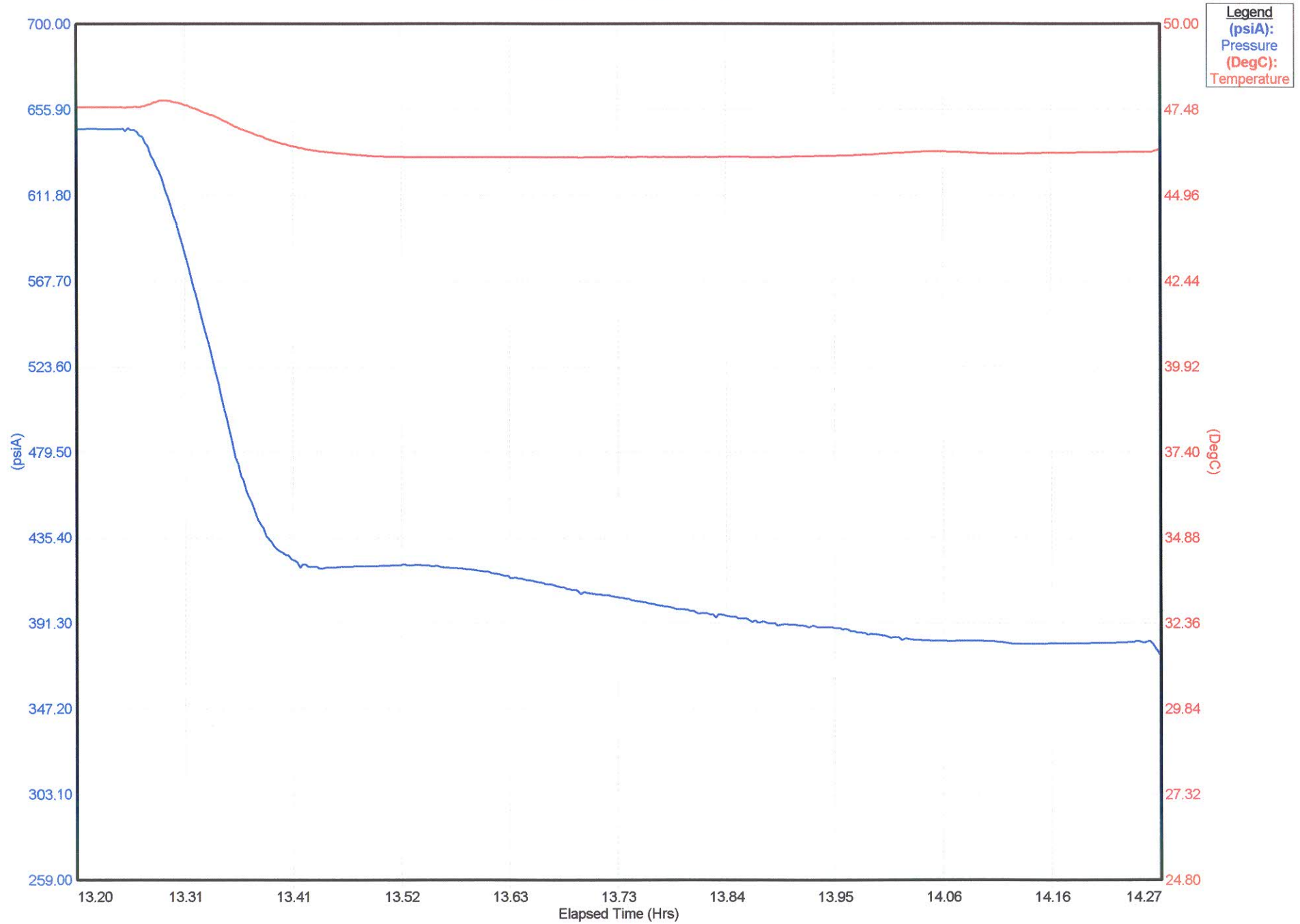


3 hours, at Static Condition.

Well: LO16-14 Development Test
 Activa Memory Gauge 5833 Down.
 3 hours at static condition.

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 03:46	10.2036111	367.96	46.43
29/11/2009 03:49	10.2675000	385.53	46.49
29/11/2009 03:52	10.3036111	398.92	46.51
29/11/2009 03:55	10.3675000	420.97	46.58
29/11/2009 03:58	10.4036111	433.12	46.62
29/11/2009 04:01	10.4675000	449.64	46.64
29/11/2009 04:04	10.5036111	458.76	46.67
29/11/2009 04:07	10.5675000	473.04	46.69
29/11/2009 04:10	10.6036111	483.06	46.74
29/11/2009 04:13	10.6675000	497.11	46.84
29/11/2009 04:16	10.7036111	505.25	46.87
29/11/2009 04:19	10.7675000	519.17	46.93
29/11/2009 04:22	10.8036111	527.19	46.97
29/11/2009 04:25	10.8675000	540.21	47.03
29/11/2009 04:28	10.9036111	546.97	47.05
29/11/2009 04:31	10.9675000	556.79	47.10
29/11/2009 04:34	11.0036111	565.60	47.15
29/11/2009 04:37	11.0675000	576.93	47.20
29/11/2009 04:40	11.1036111	583.59	47.24
29/11/2009 04:43	11.1675000	591.33	47.21
29/11/2009 04:46	11.2036111	595.86	47.21
29/11/2009 04:49	11.2675000	603.25	47.20
29/11/2009 04:52	11.3036111	607.28	47.21
29/11/2009 04:55	11.3675000	612.64	47.23
29/11/2009 04:58	11.4036111	615.19	47.24
29/11/2009 05:01	11.4675000	618.83	47.26
29/11/2009 05:04	11.5036111	620.31	47.26
29/11/2009 05:07	11.5675000	622.76	47.28
29/11/2009 05:10	11.6036111	623.63	47.28
29/11/2009 05:13	11.6675000	625.95	47.32
29/11/2009 05:18	11.7369444	628.21	47.35
29/11/2009 05:21	11.8008333	629.65	47.36
29/11/2009 05:24	11.8369444	630.52	47.37
29/11/2009 05:27	11.9008333	631.89	47.38
29/11/2009 05:30	11.9369444	633.03	47.39
29/11/2009 05:33	12.0008333	634.54	47.40
29/11/2009 05:36	12.0369444	635.18	47.41
29/11/2009 05:39	12.1008333	636.50	47.41
29/11/2009 05:42	12.1369444	637.03	47.41
29/11/2009 05:45	12.2008333	638.53	47.43
29/11/2009 05:48	12.2369444	638.73	47.42
29/11/2009 05:51	12.2869444	639.85	47.43
29/11/2009 05:54	12.3508333	640.49	47.43
29/11/2009 05:57	12.3869444	641.38	47.45
29/11/2009 06:00	12.4369444	641.79	47.45
29/11/2009 06:03	12.5008333	642.65	47.46
29/11/2009 06:06	12.5369444	642.62	47.46
29/11/2009 06:09	12.6008333	642.97	47.47
29/11/2009 06:12	12.6369444	643.54	47.49
29/11/2009 06:15	12.7008333	643.48	47.49
29/11/2009 06:18	12.7369444	644.06	47.51
29/11/2009 06:21	12.8008333	644.26	47.51
29/11/2009 06:24	12.8369444	644.72	47.52
29/11/2009 06:27	12.9008333	645.33	47.53
29/11/2009 06:30	12.9369444	645.40	47.54
29/11/2009 06:33	13.0008333	645.16	47.54
29/11/2009 06:36	13.0369444	645.13	47.54
29/11/2009 06:39	13.1008333	645.14	47.54
29/11/2009 06:42	13.1369444	644.66	47.55
29/11/2009 06:45	13.2008333	646.00	47.56
29/11/2009 06:46	13.2036111	646.07	47.56

MG5833 Down, LO16-14



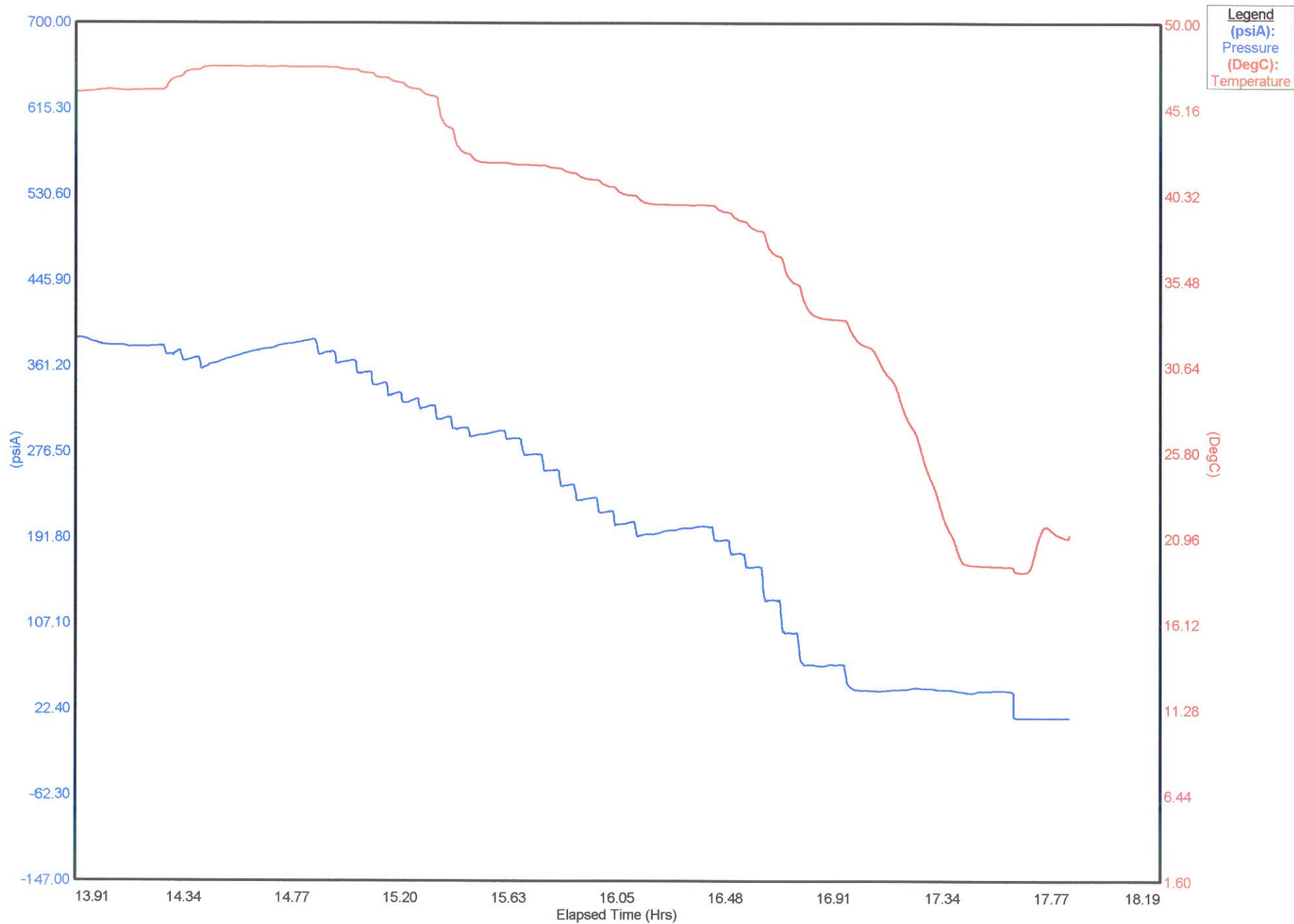
1 hour, bleed off without gas lift injection.

Well: LO16-14 Development Test
 Activa Memory Gauge 5833 Down.

1 hour bleed off to the separator without gas lift injection.

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 06:47	13.2341667	646.10	47.56
29/11/2009 06:48	13.2369444	646.09	47.56
29/11/2009 06:49	13.2675000	639.22	47.60
29/11/2009 06:50	13.2702778	637.07	47.64
29/11/2009 06:51	13.3008333	592.58	47.69
29/11/2009 06:52	13.3036111	587.37	47.66
29/11/2009 06:53	13.3341667	526.72	47.33
29/11/2009 06:54	13.3369444	521.10	47.30
29/11/2009 06:55	13.3675000	459.29	46.86
29/11/2009 06:56	13.3702778	456.36	46.83
29/11/2009 06:57	13.4008333	428.40	46.52
29/11/2009 06:58	13.4036111	427.84	46.49
29/11/2009 06:59	13.4341667	420.60	46.30
29/11/2009 07:00	13.4369444	420.52	46.29
29/11/2009 07:01	13.4675000	420.62	46.19
29/11/2009 07:02	13.4702778	420.70	46.18
29/11/2009 07:03	13.5008333	421.00	46.12
29/11/2009 07:04	13.5036111	421.10	46.11
29/11/2009 07:05	13.5341667	421.66	46.09
29/11/2009 07:06	13.5369444	421.47	46.09
29/11/2009 07:07	13.5675000	420.17	46.09
29/11/2009 07:08	13.5702778	419.95	46.09
29/11/2009 07:09	13.6008333	418.41	46.10
29/11/2009 07:10	13.6036111	418.09	46.10
29/11/2009 07:11	13.6341667	414.89	46.10
29/11/2009 07:12	13.6369444	414.49	46.09
29/11/2009 07:13	13.6675000	411.73	46.10
29/11/2009 07:14	13.6702778	411.29	46.10
29/11/2009 07:15	13.7008333	407.71	46.09
29/11/2009 07:16	13.7036111	407.33	46.09
29/11/2009 07:17	13.7341667	404.89	46.10
29/11/2009 07:18	13.7369444	404.56	46.10
29/11/2009 07:19	13.7675000	401.62	46.10
29/11/2009 07:20	13.7702778	401.40	46.10
29/11/2009 07:21	13.8008333	398.56	46.10
29/11/2009 07:22	13.8036111	398.42	46.10
29/11/2009 07:23	13.8341667	396.11	46.10
29/11/2009 07:24	13.8369444	395.83	46.10
29/11/2009 07:25	13.8675000	392.09	46.10
29/11/2009 07:26	13.8702778	392.90	46.10
29/11/2009 07:27	13.9008333	391.08	46.11
29/11/2009 07:28	13.9036111	390.79	46.11
29/11/2009 07:29	13.9341667	389.47	46.13
29/11/2009 07:30	13.9369444	389.54	46.13
29/11/2009 07:31	13.9675000	387.58	46.15
29/11/2009 07:32	13.9702778	386.91	46.16
29/11/2009 07:33	14.0008333	384.71	46.21
29/11/2009 07:34	14.0036111	383.98	46.21
29/11/2009 07:35	14.0341667	382.77	46.25
29/11/2009 07:36	14.0369444	382.69	46.26
29/11/2009 07:37	14.0675000	382.26	46.25
29/11/2009 07:38	14.0702778	382.30	46.24
29/11/2009 07:39	14.1008333	382.15	46.20
29/11/2009 07:40	14.1036111	382.19	46.20
29/11/2009 07:41	14.1341667	380.76	46.20
29/11/2009 07:42	14.1369444	380.77	46.20
29/11/2009 07:43	14.1675000	380.93	46.22
29/11/2009 07:44	14.1702778	380.94	46.22
29/11/2009 07:45	14.2008333	381.12	46.23

MG5833 Down, LO16-14 well.



POOH Memory gauges with steps.

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.

POOH memory gauges with steps

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
POOH memory gauges.			
29/11/2009 07:46	14.2036111	381.16	46.23
29/11/2009 07:47	14.2341667	381.50	46.24
29/11/2009 07:48	14.2369444	381.62	46.24
step at 9310'			
29/11/2009 07:49	14.2675000	376.52	46.31
29/11/2009 07:50	14.2702778	374.05	46.35
29/11/2009 07:51	14.3008333	373.80	46.88
29/11/2009 07:52	14.3036111	374.20	46.89
step at 9210'			
29/11/2009 07:53	14.3341667	369.46	47.02
29/11/2009 07:54	14.3369444	367.67	47.05
29/11/2009 07:55	14.3675000	368.61	47.33
29/11/2009 07:56	14.3702778	368.83	47.34
step at 9110'			
29/11/2009 07:57	14.4008333	369.65	47.36
29/11/2009 07:58	14.4036111	367.37	47.38
29/11/2009 07:59	14.4341667	361.59	47.54
29/11/2009 08:00	14.4369444	362.32	47.55
29/11/2009 08:01	14.4675000	364.81	47.55
29/11/2009 08:02	14.4702778	365.25	47.55
29/11/2009 08:03	14.5008333	368.06	47.54
29/11/2009 08:04	14.5036111	368.28	47.54
29/11/2009 08:05	14.5341667	370.57	47.55
29/11/2009 08:06	14.5369444	370.83	47.55
29/11/2009 08:07	14.5675000	373.33	47.55
29/11/2009 08:08	14.5702778	373.65	47.55
29/11/2009 08:09	14.6008333	375.59	47.54
29/11/2009 08:10	14.6036111	375.81	47.54
29/11/2009 08:11	14.6341667	377.41	47.54
29/11/2009 08:12	14.6369444	376.98	47.54
29/11/2009 08:13	14.6675000	379.03	47.54
29/11/2009 08:14	14.6702778	379.08	47.54
29/11/2009 08:15	14.7008333	380.80	47.54
29/11/2009 08:16	14.7036111	380.94	47.54
29/11/2009 08:17	14.7341667	383.32	47.55
29/11/2009 08:18	14.7369444	383.43	47.55
29/11/2009 08:19	14.7675000	383.98	47.53
29/11/2009 08:20	14.7702778	384.30	47.54
29/11/2009 08:21	14.8008333	385.94	47.54
29/11/2009 08:22	14.8036111	386.08	47.54
29/11/2009 08:23	14.8341667	387.49	47.54
29/11/2009 08:24	14.8369444	387.64	47.54
step at 9010'			
29/11/2009 08:25	14.8675000	380.82	47.54
29/11/2009 08:26	14.8702778	376.25	47.54
29/11/2009 08:27	14.9008333	375.28	47.52
29/11/2009 08:28	14.9036111	375.48	47.52
step at 8910'			
29/11/2009 08:29	14.9341667	376.25	47.51
29/11/2009 08:30	14.9369444	375.22	47.51
29/11/2009 08:31	14.9675000	365.77	47.43
29/11/2009 08:32	14.9702778	365.91	47.42
29/11/2009 08:33	15.0008333	367.30	47.38
step at 8810'			
29/11/2009 08:34	15.0036111	367.46	47.39
29/11/2009 08:35	15.0341667	355.15	47.32
29/11/2009 08:36	15.0369444	355.30	47.29
29/11/2009 08:37	15.0675000	356.34	47.21
step at 8710'			
29/11/2009 08:38	15.0702778	356.66	47.20
29/11/2009 08:39	15.1008333	343.68	47.01
29/11/2009 08:40	15.1036111	342.98	46.98
step at 8610'			
29/11/2009 08:41	15.1341667	345.38	46.93
29/11/2009 08:42	15.1369444	345.49	46.93
29/11/2009 08:43	15.1675000	334.13	46.74
29/11/2009 08:44	15.1702778	334.41	46.73
step at 8510'			

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.

POOH memory gauges with steps

Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 08:45	15.2008333	334.46	46.65
29/11/2009 08:46	15.2036111	329.03	46.65
29/11/2009 08:47	15.2341667	327.08	46.37
29/11/2009 08:48	15.2369444	327.38	46.35
step at 8410'			
29/11/2009 08:49	15.2675000	329.80	46.28
29/11/2009 08:50	15.2702778	326.35	46.28
29/11/2009 08:51	15.3008333	321.56	45.98
29/11/2009 08:52	15.3036111	321.82	45.97
step at 8310'			
29/11/2009 08:53	15.3341667	322.57	45.87
29/11/2009 08:54	15.3369444	319.23	45.84
29/11/2009 08:55	15.3675000	310.27	44.41
29/11/2009 08:56	15.3702778	310.47	44.34
step at 8210'			
29/11/2009 08:57	15.4008333	305.20	44.07
29/11/2009 08:58	15.4036111	300.77	44.04
29/11/2009 08:59	15.4341667	300.60	42.88
29/11/2009 09:00	15.4369444	300.67	42.84
step at 8110'			
29/11/2009 09:01	15.4675000	299.01	42.65
29/11/2009 09:02	15.4702778	296.31	42.64
29/11/2009 09:03	15.5008333	293.83	42.26
29/11/2009 09:04	15.5036111	293.98	42.24
29/11/2009 09:05	15.5341667	294.97	42.16
29/11/2009 09:06	15.5369444	295.09	42.16
29/11/2009 09:07	15.5675000	296.89	42.15
29/11/2009 09:08	15.5702778	297.08	42.15
step at 8010'			
29/11/2009 09:09	15.6008333	297.93	42.15
29/11/2009 09:10	15.6036111	298.08	42.15
29/11/2009 09:11	15.6341667	290.28	42.09
29/11/2009 09:12	15.6369444	290.45	42.09
29/11/2009 09:13	15.6675000	290.74	42.04
step at 7810'			
29/11/2009 09:14	15.6702778	90.39	42.04
29/11/2009 09:15	15.7008333	274.30	42.04
29/11/2009 09:16	15.7036111	274.61	42.04
29/11/2009 09:17	15.7341667	275.04	42.01
step at 7610'			
29/11/2009 09:18	15.7369444	275.28	42.01
29/11/2009 09:19	15.7675000	258.63	42.01
29/11/2009 09:20	15.7702778	258.79	42.00
29/11/2009 09:21	15.8008333	259.18	41.88
step at 7410'			
29/11/2009 09:22	15.8036111	259.20	41.87
29/11/2009 09:23	15.8341667	243.78	41.82
29/11/2009 09:24	15.8369444	243.41	41.80
29/11/2009 09:25	15.8675000	245.00	41.61
step at 7210'			
29/11/2009 09:26	15.8702778	244.87	41.60
29/11/2009 09:27	15.9008333	229.36	41.45
29/11/2009 09:28	15.9036111	229.74	41.42
29/11/2009 09:29	15.9341667	231.13	41.24
29/11/2009 09:30	15.9369444	231.21	41.24
step at 7010'			
29/11/2009 09:31	15.9675000	232.16	41.20
29/11/2009 09:32	15.9702778	231.99	41.20
29/11/2009 09:33	16.0008333	217.44	40.93
29/11/2009 09:34	16.0036111	217.68	40.92
step at 6810'			
29/11/2009 09:35	16.0341667	218.79	40.79
29/11/2009 09:36	16.0369444	218.71	40.80
29/11/2009 09:37	16.0675000	205.78	40.47
29/11/2009 09:38	16.0702778	205.86	40.45
29/11/2009 09:39	16.1008333	207.51	40.34
step at 6610'			
29/11/2009 09:40	16.1036111	207.82	40.33
29/11/2009 09:41	16.1341667	193.85	40.22

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.

POOH memory gauges with steps			
Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 09:42	16.1369444	194.20	40.16
29/11/2009 09:43	16.1675000	195.98	39.90
29/11/2009 09:44	16.1702778	196.04	39.89
29/11/2009 09:45	16.2008333	196.19	39.82
29/11/2009 09:46	16.2036111	196.29	39.82
29/11/2009 09:47	16.2341667	198.62	39.80
29/11/2009 09:48	16.2369444	198.83	39.80
29/11/2009 09:49	16.2675000	199.78	39.79
29/11/2009 09:50	16.2702778	199.81	39.79
29/11/2009 09:51	16.3008333	201.35	39.78
29/11/2009 09:52	16.3036111	201.52	39.78
29/11/2009 09:53	16.3341667	201.98	39.78
29/11/2009 09:54	16.3369444	201.96	39.77
29/11/2009 09:55	16.3675000	203.29	39.78
29/11/2009 09:56	16.3702778	203.41	39.77
29/11/2009 09:57	16.4008333	203.93	39.78
29/11/2009 09:58	16.4036111	203.92	39.77
step at 6410'			
29/11/2009 09:59	16.4341667	195.26	39.76
29/11/2009 10:00	16.4369444	191.88	39.75
29/11/2009 10:01	16.4675000	190.00	39.45
29/11/2009 10:02	16.4702778	190.08	39.43
step at 6210'			
29/11/2009 10:03	16.5008333	179.57	39.35
29/11/2009 10:04	16.5036111	176.60	39.32
29/11/2009 10:05	16.5313889	177.04	38.97
step at 6010'			
29/11/2009 10:06	16.5508333	176.59	38.87
29/11/2009 10:07	16.5536111	175.77	38.86
29/11/2009 10:08	16.5841667	163.31	38.52
29/11/2009 10:09	16.5869444	163.36	38.49
29/11/2009 10:10	16.6175000	163.83	38.33
step at 5510'			
29/11/2009 10:11	16.6202778	163.49	38.33
29/11/2009 10:12	16.6508333	131.23	37.39
29/11/2009 10:13	16.6536111	130.83	37.32
29/11/2009 10:14	16.6841667	131.40	36.94
step at 5010'			
29/11/2009 10:15	16.6869444	130.59	36.93
29/11/2009 10:16	16.7175000	98.40	36.10
29/11/2009 10:17	16.7202778	98.12	35.99
29/11/2009 10:18	16.7508333	97.93	35.41
step at 4510'			
29/11/2009 10:19	16.7536111	98.46	35.40
29/11/2009 10:20	16.7813889	70.29	34.84
29/11/2009 10:21	16.8008333	66.93	34.08
29/11/2009 10:22	16.8036111	66.88	34.00
29/11/2009 10:23	16.8341667	66.58	33.56
29/11/2009 10:24	16.8369444	66.46	33.54
29/11/2009 10:25	16.8675000	65.76	33.40
29/11/2009 10:26	16.8702778	65.86	33.40
29/11/2009 10:27	16.9008333	67.20	33.35
29/11/2009 10:28	16.9036111	67.14	33.35
29/11/2009 10:29	16.9341667	67.35	33.31
step at 4010'			
29/11/2009 10:30	16.9369444	67.76	33.31
29/11/2009 10:31	16.9675000	47.24	32.98
29/11/2009 10:32	16.9702778	46.37	32.88
29/11/2009 10:33	17.0008333	42.38	32.17
29/11/2009 10:34	17.0036111	42.24	32.13
29/11/2009 10:35	17.0341667	41.63	31.84
step at 3210'			
29/11/2009 10:36	17.0369444	41.62	31.83
29/11/2009 10:37	17.0675000	41.16	31.55
29/11/2009 10:38	17.0702778	41.13	31.49
29/11/2009 10:39	17.1008333	41.12	30.63
29/11/2009 10:40	17.1036111	41.18	30.56
29/11/2009 10:41	17.1341667	41.96	30.00
step at 2410'			

Well: LO16-14 Development Test
Activa Memory Gauge 5833 Down.

POOH memory gauges with steps			
Time (Real-Time)	Time (Hours)	Pressure (psiA)	Temperature (DegC)
29/11/2009 10:42	17.1369444	41.97	29.95
29/11/2009 10:43	17.1675000	42.41	28.95
29/11/2009 10:44	17.1702778	42.45	28.83
29/11/2009 10:45	17.2008333	42.89	27.66
29/11/2009 10:46	17.2036111	42.99	27.58
step at 1610'			
29/11/2009 10:47	17.2341667	44.16	26.84
29/11/2009 10:48	17.2369444	44.13	26.74
29/11/2009 10:49	17.2675000	43.59	25.24
29/11/2009 10:50	17.2702778	43.61	25.11
step at 810'			
29/11/2009 10:51	17.3008333	43.24	24.03
29/11/2009 10:52	17.3036111	43.12	23.93
29/11/2009 10:53	17.3341667	42.19	22.52
29/11/2009 10:54	17.3369444	42.21	22.39
step at 0'			
29/11/2009 10:55	17.3675000	42.16	21.33
29/11/2009 10:56	17.3702778	42.07	21.26
29/11/2009 10:57	17.4008333	40.75	20.13
29/11/2009 10:58	17.4036111	40.65	20.02
29/11/2009 10:59	17.4341667	39.61	19.50
29/11/2009 11:00	17.4369444	39.47	19.49
29/11/2009 11:01	17.4675000	39.96	19.44
29/11/2009 11:02	17.4702778	40.15	19.43
29/11/2009 11:03	17.5008333	40.80	19.41
29/11/2009 11:04	17.5036111	40.79	19.41
29/11/2009 11:05	17.5341667	41.11	19.40
29/11/2009 11:06	17.5369444	41.16	19.39
29/11/2009 11:07	17.5675000	41.26	19.38
29/11/2009 11:08	17.5702778	41.23	19.37
29/11/2009 11:09	17.6008333	40.96	19.35
29/11/2009 11:10	17.6036111	40.88	19.35
29/11/2009 11:11	17.6341667	14.45	19.06
29/11/2009 11:12	17.6369444	14.38	19.05
29/11/2009 11:13	17.6675000	14.30	19.06
29/11/2009 11:14	17.6702778	14.30	19.07
29/11/2009 11:15	17.7008333	14.30	20.07
29/11/2009 11:16	17.7036111	14.30	20.24
29/11/2009 11:17	17.7341667	14.30	21.52
29/11/2009 11:18	17.7369444	14.30	21.57
29/11/2009 11:19	17.7675000	14.30	21.42
29/11/2009 11:20	17.7702778	14.30	21.38
29/11/2009 11:21	17.8008333	14.30	21.11
29/11/2009 11:22	17.8036111	14.30	21.09
29/11/2009 11:23	17.8341667	14.30	21.03
29/11/2009 11:24	17.8369444		21.14

desactivate memory gauges.