

INKAWELLDATA

Well LO6-25

Flowing Gradient

PETRO-TECH PERUANA S.A.

January 10th, 2010

INKAWELLDATA

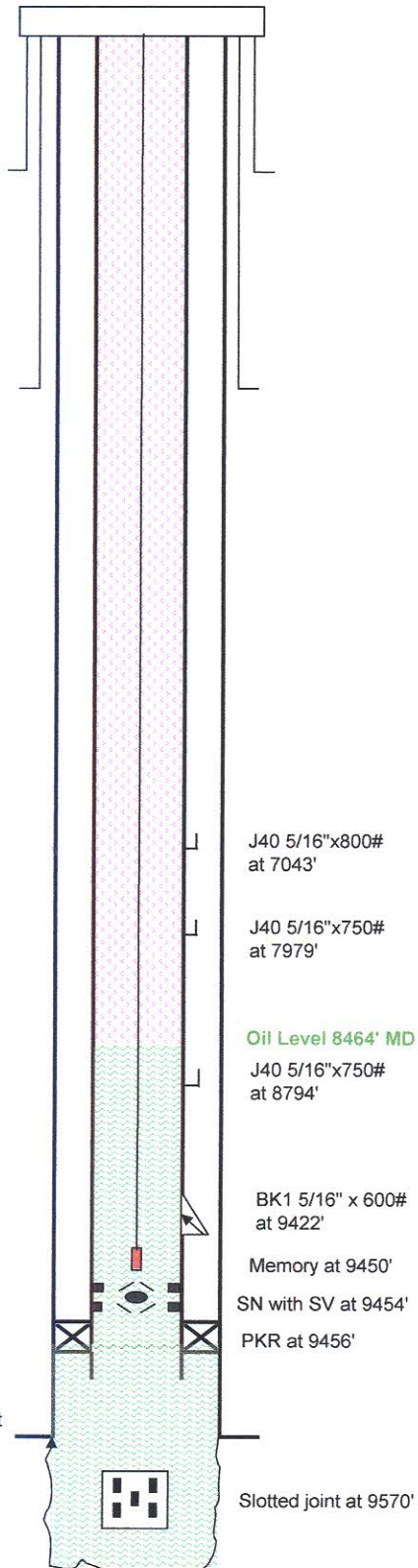
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Well Testing

Flowing Gradient

DATE	January 10 th , 2010	DEPTH MEMORY	9450'
LOCATION	Lobitos Offshore	CASING	5 1/2" x J-55 x 15.5 #/ft
WELL	LO6-25	INTERVAL:	

DIAGRAM



SERVICE PERFORMED

January 10th, 2010

Well Production = 118 bpd. Injection cycle = 30' x 7'
Qo = 94 Bpd; Qw= 24 Bpd;

- 08:20 In location
- 08:30 Safety meeting
- 08:50 Close gas injection
- 08:53 Active battery Memory gauges (IKW) PPS25 n/s 2929 (Bottom hole)
- 09:12 Active battery Memory gauges (IKW) PPS25 n/s 2760 (Tubing)
- 09:49 RIH Memory Gauge at 9450' (4' above Standing valve) for 3 hrs
- 09:50 Open gas injection

Initial Data:

Psys=920 psig, Psep=24 psig, Flocos=1771.3

	Nº Injection	Psys (psig)	Psep (psig)	Floco reading
09:57	1	900-880	23-36	4.5
10:27	2	900-880	24-30	2.9
10:57	3	880-820	24-30	2.6
11:27	4	900-925	25-30	2.9
11:57	5	900-860	25-30	2.6
12:27	6	900-880	25-30	2.8
12:57	7	900-880	25-30	2.7
13:27	8	900-840	25-30	2.9

- 13:40 Close gas injection just before injection
- 13:45 POOH Memory Gauge with steps 1 min. each one:
9450'-8190' each 180'
- 14:18 Memory gauge on surface
- 14:32 Well in production
- 14:38 Desactivate battery Memory gauges (IKW)
- 15:00 Rig down

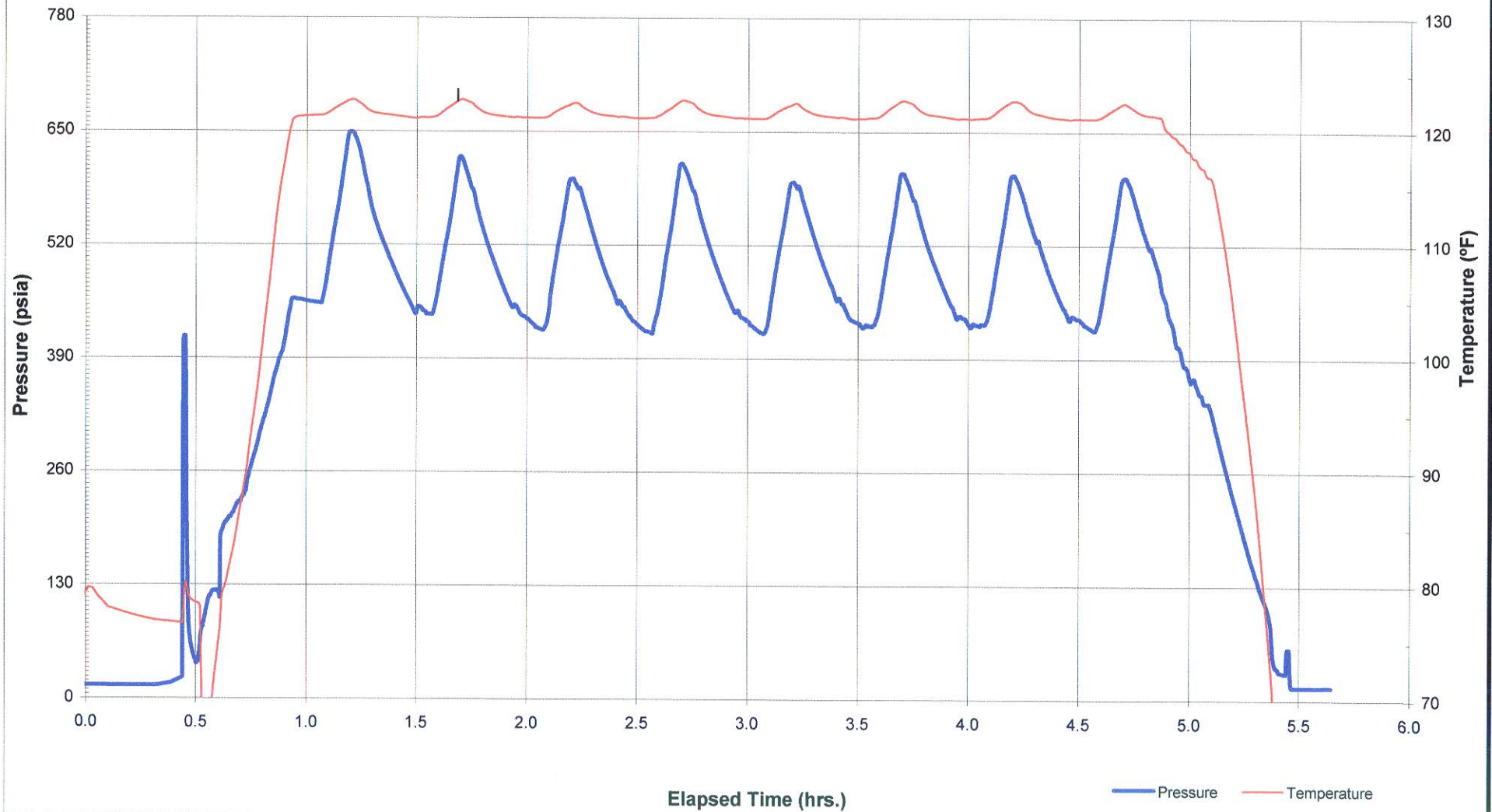
Report elaborated by :
Ing. Luis Manrique

Supervisor:
Ing. Jack Ramos

Operator:
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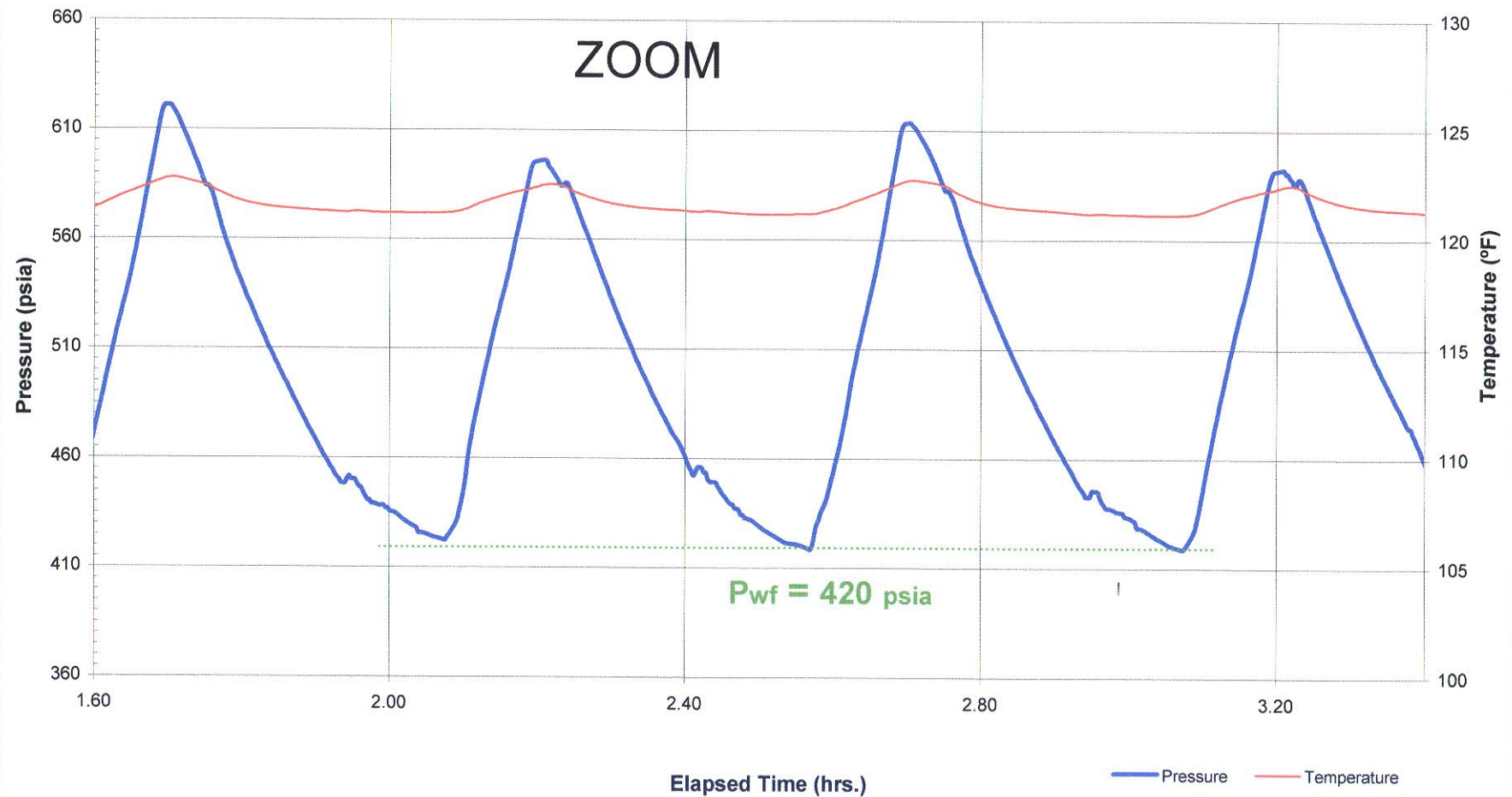
Data Chart: Flowing Gradient Well LO6-25

Date: January 10th. Depth. MG = 9450'



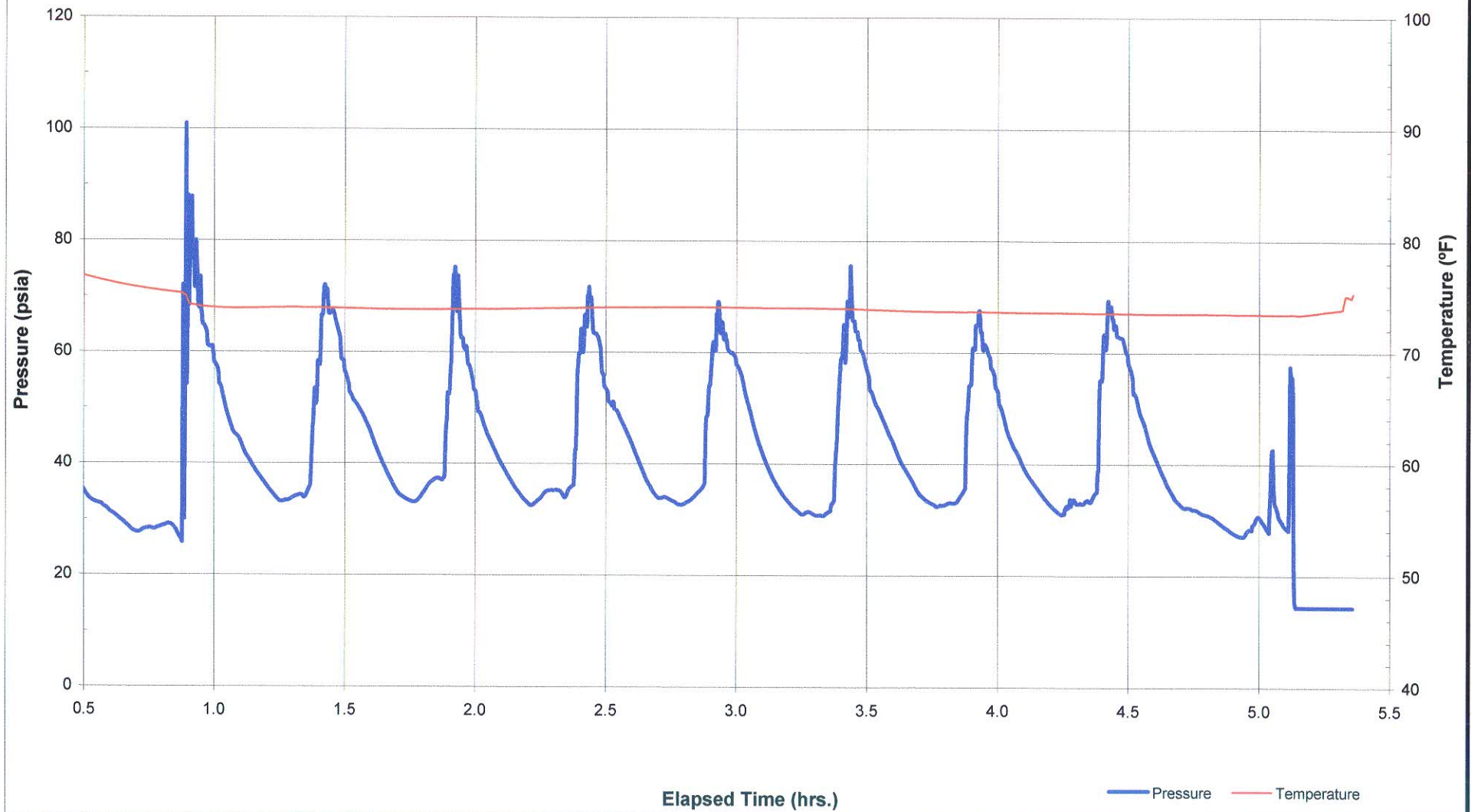
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Date: January 10th. Depth. MG = 9450'



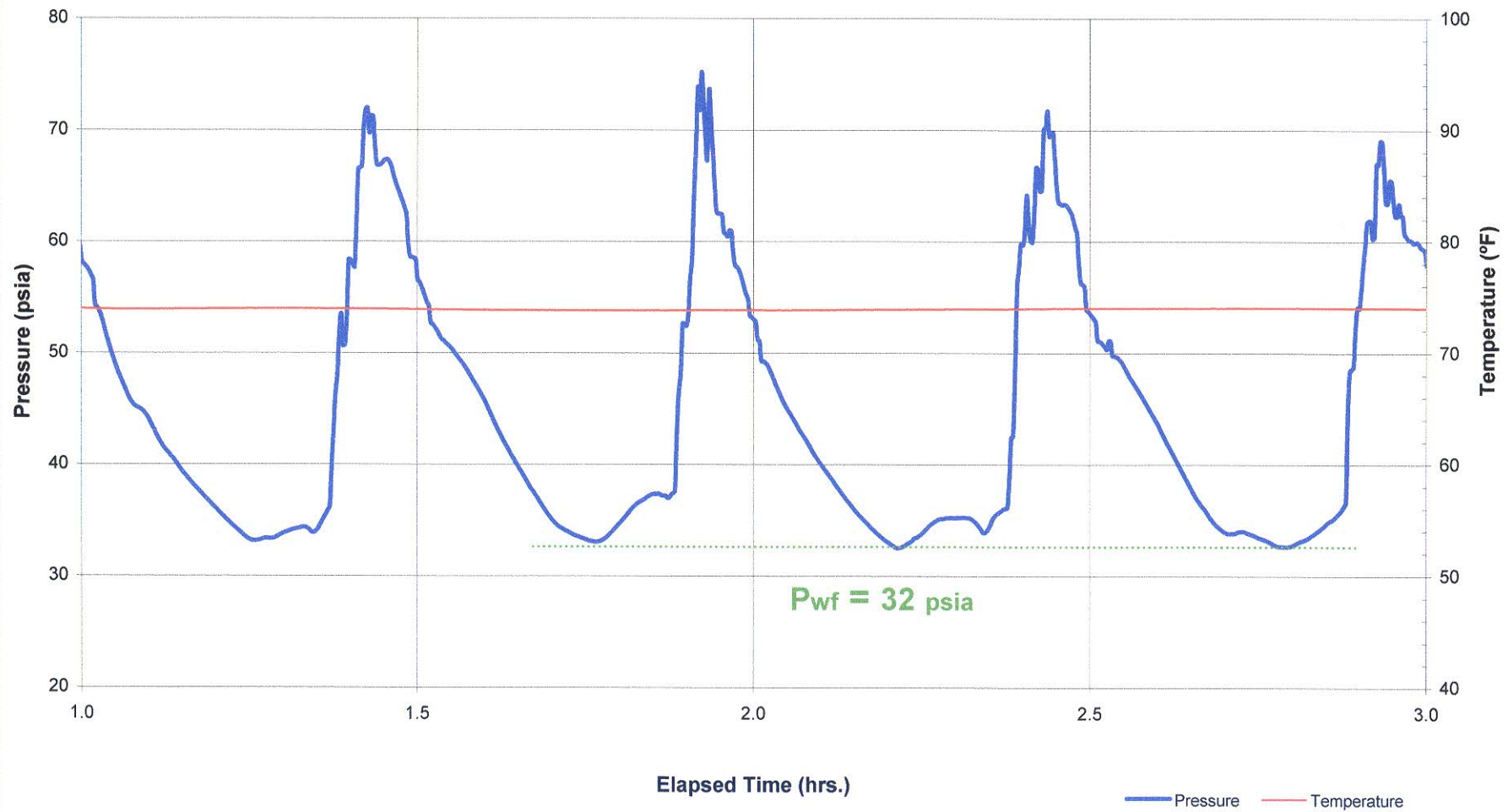
Data Chart: Well head Flowing Pressure in LO6-25

Date: January 10th. Depth. MG = Tubing



Data Chart: Well head Flowing Pressure in LO6-25

Date: January 10th. Depth. MG = Tubing



Flowing Gradient Well LO6-25

Summary of results

TEST DATE

January 10th, 2010

INTERVAL:

DEPTH MEMORY

9450 ft MD
7646 ft VD

Gradient at Flowing Condition (With Injection) for 3 hrs

Flowing Pressure at 9450'

420 psia

System pressure

900-840 psig

Separator pressure

24-30 psig

Production test

19.4 Bbl

Gradient at Flowing Condition (Without Injection)

Pressure at 9450'

489 psia

Gradient at 9450'

0.0640 psi/ft

Temperature at 9450'

121 °F

Gas Gradient

0.0546 psi/ft

Light Oil Gradient

0.1660 psi/ft

Light Oil Level

8464 ft MD

6710 ft VD

Slug

986 ft

Flowing Gradient Well LO6-25

Gradient at Flowing Condition

MD (ft)	VD (ft)	P. Initial (psia)	P. Final (psia)	Gradient(psi/ft)	Temp (°F)
8190	6450.71	338.94	339.02		116.11
8370	6620.75	348.55	348.23	0.0546	116.98
8550	6791.34	366.36	366.93	0.1078	117.74
8730	6962.24	380.68	384.24	0.1046	118.47
8910	7133.04	404.08	398.96	0.1070	118.98
9090	7303.89	436.89	432.61	0.1670	119.77
9270	7474.51	468.24	456.68	0.1160	120.42
9450	7645.54		489.16	0.1223	121.34

Fluid Level and Gradients

	MD Level (ft)	VD Level (ft)	Level MD (ft)	Gradient (psi/ft)
Gas	0	0	0	0.0546
Light Oil	8464	6710	8464	0.1660
Memory gauge	9450	7645.54	-	0.0640

Gas lift injection test (30' x 7')

Injection number	P _{Sep} (psi)	P _{Sys} (psi)	Floco Produc. Bbl.
1	900-880	23-36	4.5
2	900-880	24-30	2.9
3	880-820	24-30	2.6
4	900-925	25-30	2.9
5	900-860	25-30	2.6
6	900-880	25-30	2.8
7	900-880	25-30	2.7
8	900-840	25-30	2.9