

Ing. A. Arispe

PRUEBA DE PRESION INICIAL GRADIENTE ESTATICA

**PETRO-TECH PERUANA S.A.
LOBITOS LO16-14
TALARA - PERU**

DEL 10 AL 11 DE ABRIL DE 1995

REPORTE PREPARADO
POR
EDDY CORDERO

PETRO-TECH PERUANA S.A.
ABR. 17 1995
FIRMA: <u>290</u>
RECEPCION

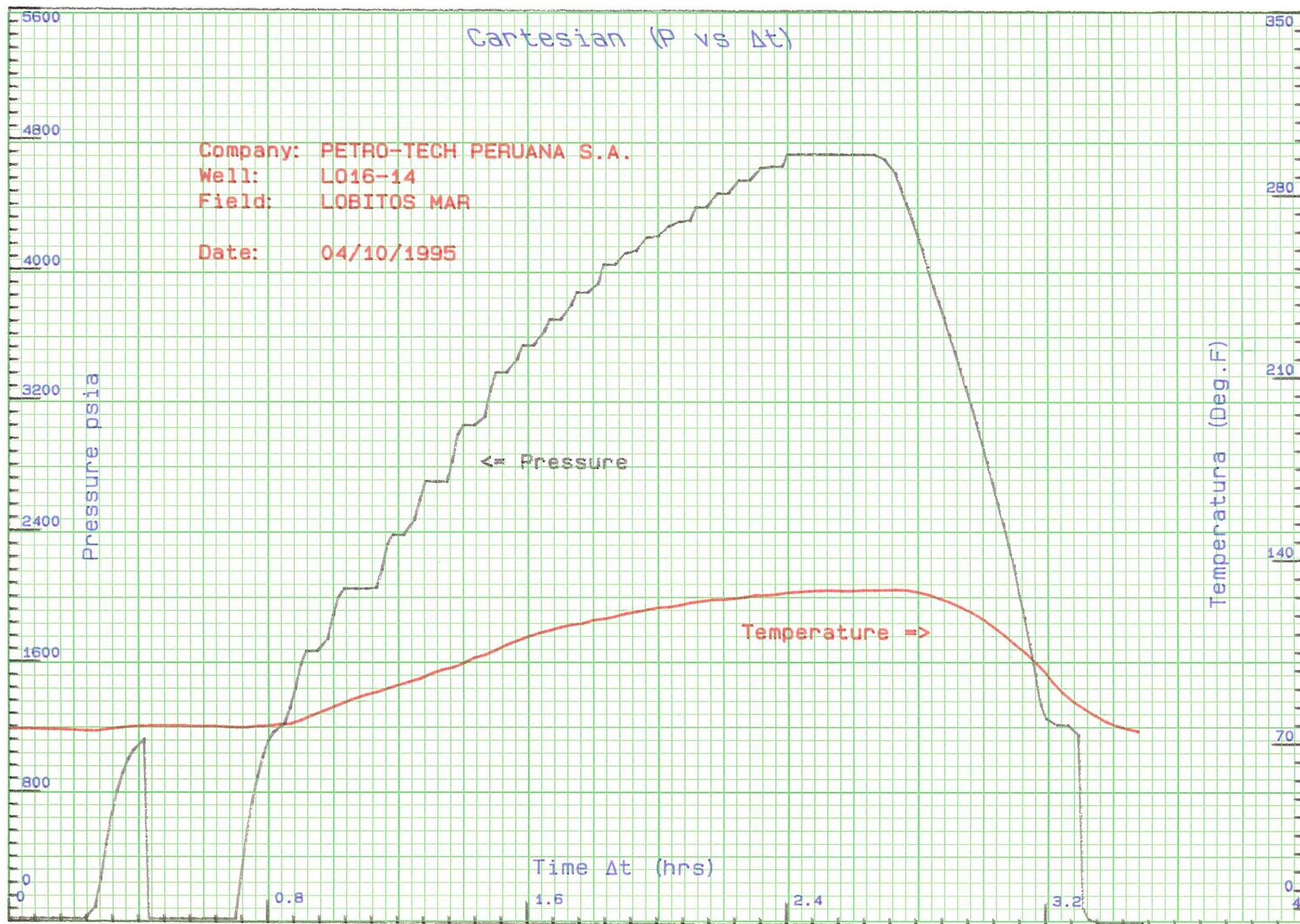
COMENTARIOS

En el pozo LO16-14 se llevó a cabo una gradiente estática con la finalidad de determinar la presión inicial del reservorio luego del baleo realizado en la formación Wedge Sand, en el intervalo comprendido entre 9944' y 10066'.

En el gráfico mostrado se observa inicialmente un pico que luego cae al valor de la presión atmosférica. Esto ocurrió debido a que cuando iniciamos la prueba se observó una fuga considerable de fluido (agua) en la unión rápida del lubricador. Esta fuga fue completamente corregida antes de iniciar la prueba.

De la data obtenida podemos observar una presión de aproximadamente de 4722 psia al final de la prueba y a una profundidad de 10005 ft, con una gradiente aproximada de 0.433 psi/ft.

Además observando los valores de gradiente obtenidos, podemos concluir que el fluido presente en el pozo es básicamente agua.



LWA

SPC

Company: PETRO-TECH PERUANA S.A.

Well: LO16-14

Field: LOBITOS MAR

County: PERU

State: TALARA

Engineer:

Gauge Type: STARBURST ULTRAI

Serial No.:

Gauge Range: 0-6014 psia

Gauge Depth: 10005 ft

Date: 04/10/1995

Well Type:

Test Type: Initial Pressure

Well Status:

[GRADIENT DATA]

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	1202.00	
2	1000	996	1668.94	0.469
3	2000	1864	2051.51	0.441
4	3000	2605	2380.60	0.444
5	4000	3338	2706.45	0.445
6	5000	4117	3051.87	0.443
7	6000	4842	3374.80	0.445
8	6500	5210	3541.07	0.452
9	7000	5578	3701.90	0.437
10	7500	5962	3869.76	0.437
11	8000	6354	4042.20	0.440
12	8250	6554	4127.89	0.428
13	8500	6756	4217.30	0.443
14	8750	6960	4307.32	0.441
15	9000	7160	4394.87	0.438
16	9250	7356	4481.00	0.439
17	9500	7547	4563.60	0.432
18	9750	7730	4646.32	0.452
19	10005	7915	4721.50	0.406

	GRADIENTE LO16-14			
P.M.	DATA	ANGULO	DATA VER	P.V.
0				
1000	998	13.5	994.34	996
2000	1921	40.6	1803.82	1864
3000	2948	43.2	2566.88	2605
4000	3928	41.3	3283.52	3338
5000	4994	42.2	4112.16	4117
6000	5975	42.5	4823.5	4842
6500	6422	42.5	5152.7	5210
7000	6933	42.1	5528.61	5578
7500	7492	39.4	5955.36	5962
8000	7987	37.4	6343.39	6354
8250	8235	36.4	6542.05	6554
8500	8490	35.7	6748.2	6756
8750	8707	35.8	6924.64	6960
9000	8986	37.3	7149.26	7160
9250	9250	39.6	7355.64	7356
9500	9435	40.3	7497.83	7547
9750	9558	43.2	7589.65	7730
10005	9558	43.2	7589.65	7915

Company: PETRO-TECH PERUANA S.A.

Well: LO16-14

Field: LOBITOS MAR

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
Reg.Electronicos Starburst Ultra II					
Conecto Baterias: 20:55:56					
Inst# 20601 - Range: 0-6014 psia.					
1	0	20:55:56	0.0000	16.14	73.93
4	0	20:58:56	0.0500	16.35	74.01
7	0	21: 1:56	0.1000	16.21	73.83
10	0	21: 4:56	0.1500	16.17	73.73
14	0	21: 8:56	0.2167	16.08	73.41
18	0	21:12:56	0.2833	262.37	73.60
22	0	21:16:56	0.3500	912.48	74.45
25	0	21:19:56	0.4000	1096.26	75.17
29	0	21:23:56	0.4667	14.50	75.34
32	0	21:26:56	0.5167	16.37	75.34
36	0	21:30:56	0.5833	17.03	75.13
39	0	21:33:56	0.6333	16.90	75.21
42	0	21:36:56	0.6833	16.35	74.86
46	0	21:40:56	0.7500	733.04	75.04
Parada @ 0' WLM.					
49	0	21:43:56	0.8000	1116.41	75.51
50	0	21:44:56	0.8167	1170.94	75.82
51	0	21:45:56	0.8333	1202.00	76.01
52	0	21:46:56	0.8500	1221.23	76.14
53	0	21:47:56	0.8667	1315.93	76.20
54	0	21:48:56	0.8833	1437.12	76.48
55	0	21:49:56	0.9000	1583.61	77.60
Parada @ 1000' WLM.					
56	0	21:50:56	0.9167	1668.28	78.56
57	0	21:51:56	0.9333	1668.76	79.47
58	0	21:52:56	0.9500	1669.18	80.51
59	0	21:53:56	0.9667	1669.52	81.10
60	0	21:54:56	0.9833	1744.85	82.20
61	0	21:55:56	1.0000	1889.79	82.85
62	0	21:56:56	1.0167	2000.29	83.51
Parada @ 2000' WLM.					
63	0	21:57:56	1.0333	2051.27	84.55
64	0	21:58:56	1.0500	2051.39	85.53
65	0	21:59:56	1.0667	2051.41	86.16
66	0	22: 0:56	1.0833	2051.51	87.11
67	0	22: 1:56	1.1000	2051.64	87.58
68	0	22: 2:56	1.1167	2051.67	88.27
69	0	22: 3:56	1.1333	2058.45	88.60
70	0	22: 4:56	1.1500	2166.57	89.32
71	0	22: 5:56	1.1667	2321.05	90.03
Parada @ 3000' WLM.					
72	0	22: 6:56	1.1833	2380.45	90.74
73	0	22: 7:56	1.2000	2380.60	91.44
74	0	22: 8:56	1.2167	2380.77	92.15
75	0	22: 9:56	1.2333	2380.61	92.62
76	0	22:10:56	1.2500	2472.94	93.22
77	0	22:11:56	1.2667	2591.15	93.91

Company: PETRO-TECH PERUANA S.A.

Well: LO16-14

Field: LOBITOS MAR

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
78	0	22:12:56	1.2833	2708.89	94.72
		Parada @ 4000'	WLM.		
79	0	22:13:56	1.3000	2706.10	95.74
80	0	22:14:56	1.3167	2706.45	96.46
81	0	22:15:56	1.3333	2706.64	97.21
82	0	22:16:56	1.3500	2706.96	97.60
83	0	22:17:56	1.3667	2829.07	98.09
84	0	22:18:56	1.3833	2994.73	98.93
		Parada @ 5000'	WLM.		
85	0	22:19:56	1.4000	3051.87	99.74
86	0	22:20:56	1.4167	3051.73	100.65
87	0	22:21:56	1.4333	3051.84	101.84
88	0	22:22:56	1.4500	3051.95	102.62
89	0	22:23:56	1.4667	3105.18	103.04
90	0	22:24:56	1.4833	3258.05	104.15
		Parada @ 6000'	WLM.		
91	0	22:25:56	1.5000	3374.62	104.92
92	0	22:26:56	1.5167	3374.80	105.65
93	0	22:27:56	1.5333	3374.86	106.92
94	0	22:28:56	1.5500	3375.02	107.73
95	0	22:29:56	1.5667	3455.86	108.57
		Parada @ 6500'	WLM.		
96	0	22:30:56	1.5833	3540.92	109.35
97	0	22:31:56	1.6000	3541.02	110.13
98	0	22:32:56	1.6167	3541.07	110.86
99	0	22:33:56	1.6333	3541.16	111.47
100	0	22:34:56	1.6500	3629.15	111.91
		Parada @ 7000'	WLM.		
101	0	22:35:56	1.6667	3701.95	112.54
102	0	22:36:56	1.6833	3701.95	113.02
103	0	22:37:56	1.7000	3701.76	113.73
104	0	22:38:56	1.7167	3702.03	114.17
105	0	22:39:56	1.7333	3791.53	114.70
		Parada @ 7500'	WLM.		
106	0	22:40:56	1.7500	3869.63	114.99
107	0	22:41:56	1.7667	3869.59	115.17
108	0	22:42:56	1.7833	3869.76	116.04
109	0	22:43:56	1.8000	3869.89	116.51
110	0	22:44:56	1.8167	3924.25	116.59
		Parada @ 8000'	WLM.		
111	0	22:45:56	1.8333	4042.08	117.02
112	0	22:46:56	1.8500	4042.30	117.46
113	0	22:47:56	1.8667	4042.19	117.86
114	0	22:48:56	1.8833	4042.12	118.28
115	0	22:49:56	1.9000	4112.42	119.02
		Parada @ 8250'	WLM.		
116	0	22:50:56	1.9167	4127.64	119.50
117	0	22:51:56	1.9333	4127.89	119.82
118	0	22:52:56	1.9500	4127.93	119.83
119	0	22:53:56	1.9667	4209.26	120.51

Company: PETRO-TECH PERUANA S.A.

Well: LO16-14

Field: LOBITOS MAR

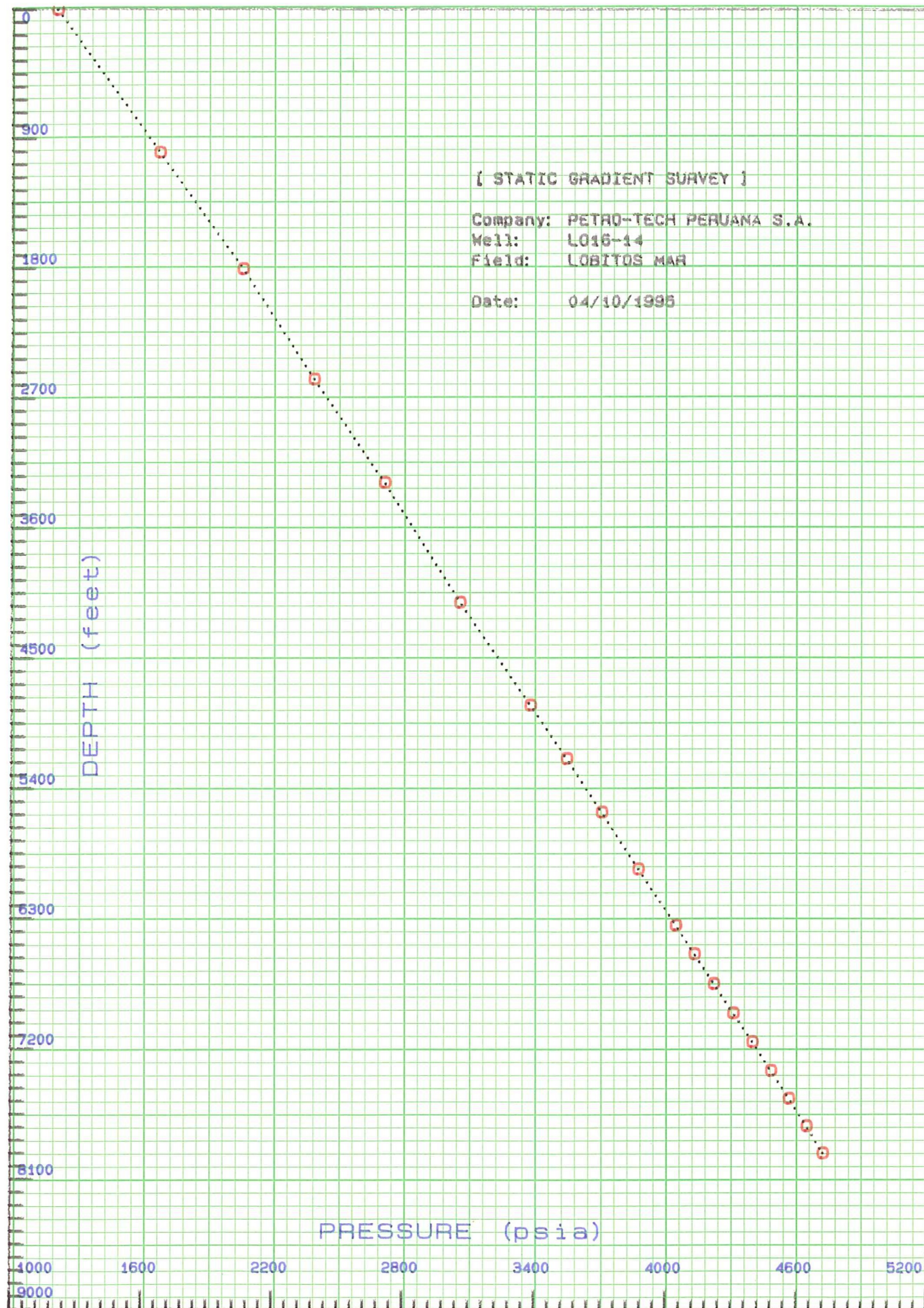
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
Parada @ 8500' WLM.					
120	0	22:54:56	1.9833	4217.19	120.96
121	0	22:55:56	2.0000	4217.21	121.35
122	0	22:56:56	2.0167	4217.54	121.25
123	0	22:57:56	2.0333	4279.34	121.59
Parada @ 8750' WLM.					
124	0	22:58:56	2.0500	4307.34	122.24
125	0	22:59:56	2.0667	4307.24	122.24
126	0	23: 0:56	2.0833	4307.32	122.84
127	0	23: 1:56	2.1000	4313.92	123.24
Parada @ 9000' WLM.					
128	0	23: 2:56	2.1167	4394.79	123.47
129	0	23: 3:56	2.1333	4394.79	123.82
130	0	23: 4:56	2.1500	4394.96	124.05
131	0	23: 5:56	2.1667	4394.87	124.43
Parada @ 9250' WLM.					
132	0	23: 6:56	2.1833	4480.84	124.61
133	0	23: 7:56	2.2000	4481.01	124.47
134	0	23: 8:56	2.2167	4481.12	124.71
135	0	23: 9:56	2.2333	4481.51	124.95
136	0	23:10:56	2.2500	4562.30	125.19
Parada @ 9500' WLM.					
137	0	23:11:56	2.2667	4563.61	125.41
138	0	23:12:56	2.2833	4563.52	125.96
139	0	23:13:56	2.3000	4563.60	126.14
140	0	23:14:56	2.3167	4638.13	126.02
Parada @ 9750' WLM.					
141	0	23:15:56	2.3333	4646.21	126.20
142	0	23:16:56	2.3500	4646.32	126.37
143	0	23:17:56	2.3667	4646.61	126.52
144	0	23:18:56	2.3833	4646.34	127.07
145	0	23:19:56	2.4000	4718.95	127.15
Parada @ 10005' WLM.					
146	0	23:20:56	2.4167	4721.32	127.35
147	0	23:21:56	2.4333	4721.21	127.47
148	0	23:22:56	2.4500	4721.40	127.62
149	0	23:23:56	2.4667	4721.32	127.79
150	0	23:24:56	2.4833	4721.22	127.86
151	0	23:25:56	2.5000	4721.30	127.93
152	0	23:26:56	2.5167	4721.36	127.98
153	0	23:27:56	2.5333	4721.33	128.02
154	0	23:28:56	2.5500	4721.45	127.80
155	0	23:29:56	2.5667	4721.48	127.87
156	0	23:30:56	2.5833	4721.51	127.93
157	0	23:31:56	2.6000	4721.56	127.95
158	0	23:32:56	2.6167	4721.61	127.95
159	0	23:33:56	2.6333	4721.54	128.18
160	0	23:34:56	2.6500	4721.61	128.20
161	0	23:35:56	2.6667	4721.61	128.21
Comienza a subir registrador.					
162	0	23:36:56	2.6833	4691.32	128.26
164	0	23:38:56	2.7167	4687.22	128.33

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KEUFFEL & ESSER CO. MADE IN U.S.A.



LWA**SPC**

Company: PETRO-TECH PERUANA S.A.

Well: L016-14

Field: LOBITOS MAR

[Monday: Apr. 10, 1995]

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
168	0	23:42:56	2.7833	4331.68	128.06
171	0	23:45:56	2.8333	4029.73	126.52
175	0	23:49:56	2.9000	3617.48	123.70
179	0	23:53:56	2.9667	3189.09	119.86
183	0	23:57:56	3.0333	2710.29	114.47
[Tuesday: Apr. 11, 1995]					
186	1	0: 0:56	3.0833	2335.23	109.79
190	1	0: 4:56	3.1500	1725.40	102.75
Registrador en lubricador.					
194	1	0: 8:56	3.2167	1232.43	93.55
198	1	0:12:56	3.2833	1229.48	85.79
201	1	0:15:56	3.3333	36.00	81.96
205	1	0:19:56	3.4000	14.88	77.47
209	1	0:23:56	3.4667	15.02	74.99
Desconecto Baterias.					
211	1	0:25:56	3.5000	15.32	74.15

[L.W.A. & S.P.C.]