

Well File

REGISTRO DE PRESION INICIAL **CENTRAL FILE**
GEOSCIENCES

PETRO-TECH PERUANA S.A.
POZO LO6-22R
LOBITOS MAR
TALARA - PERU

GEOSCIENCES
Central File
<i>July 20, 2001</i>
DATE

*(Fm. R. BRAW
Opener ms WD.)*

17 DE JUNIO 2001

REPORTE ELABORADO
POR
RICARDO AGUIRRE PARDO

COMENTARIOS

En el pozo **LO6-22R** (Area Lobitos Mar) se realizó un Registro de Presión Inicial - Gradiente Estática para determinar la presión en el fondo, el tipo y nivel del fluido existente en él. Esta prueba fue realizada luego de ejecutarse trabajos de rebaleo en la formación Río Bravo, en el intervalo 4380'-4102'. Previamente se aisló la Fm. Mogollón colocando un tapón a la profundidad de 4500'.

Se bajaron los registradores Memory Gauge con el pozo cerrado a la profundidad de 4400 PM (3745 PV), registrando la presión estática por un tiempo de 03 horas. La presión en la cabeza del pozo indicó 10 psig durante toda la prueba.

Finalizado el registro BHP se tomó una Gradiente Estática, subiendo el registrador con paradas de 03 minutos según programa de Ingeniería, hasta superficie.

Se obtuvieron los siguientes datos:

Presión estática @ 4400 PM (3745 PV) : 580.1 psi.
 Temperatura estática @ 4400 PM (3745 PV) : 96.9 °F.
 Gradiente del fluido : 0.349 psi/ft @ 2334 PM (2166 PV).
 Gradiente de formación : 0.155 psi/ft @ 4400 PM (3745 PV).

Intervalo : 4380' - 4102' (Fm. Río Bravo)

JUNE 2001 : 4380' - 4102' (3607' VD) = 532 psi //

LO6-22, BG DE Transmy-95 : 4702' - 3644' (3927' VD) = 189 psig.

PBU OF MAY-98 : 5010' - 3644' (3682' VD) = 185 psig.

INIT PRESSURE OF OCT-84 : 5608' - 3644' (3940' VD) = 1754 psig.

JUNE 2001 : BONUS : 4400' (3745' VD) = 580 psi

MAP : 4241' (3607' VD) = 532 psi

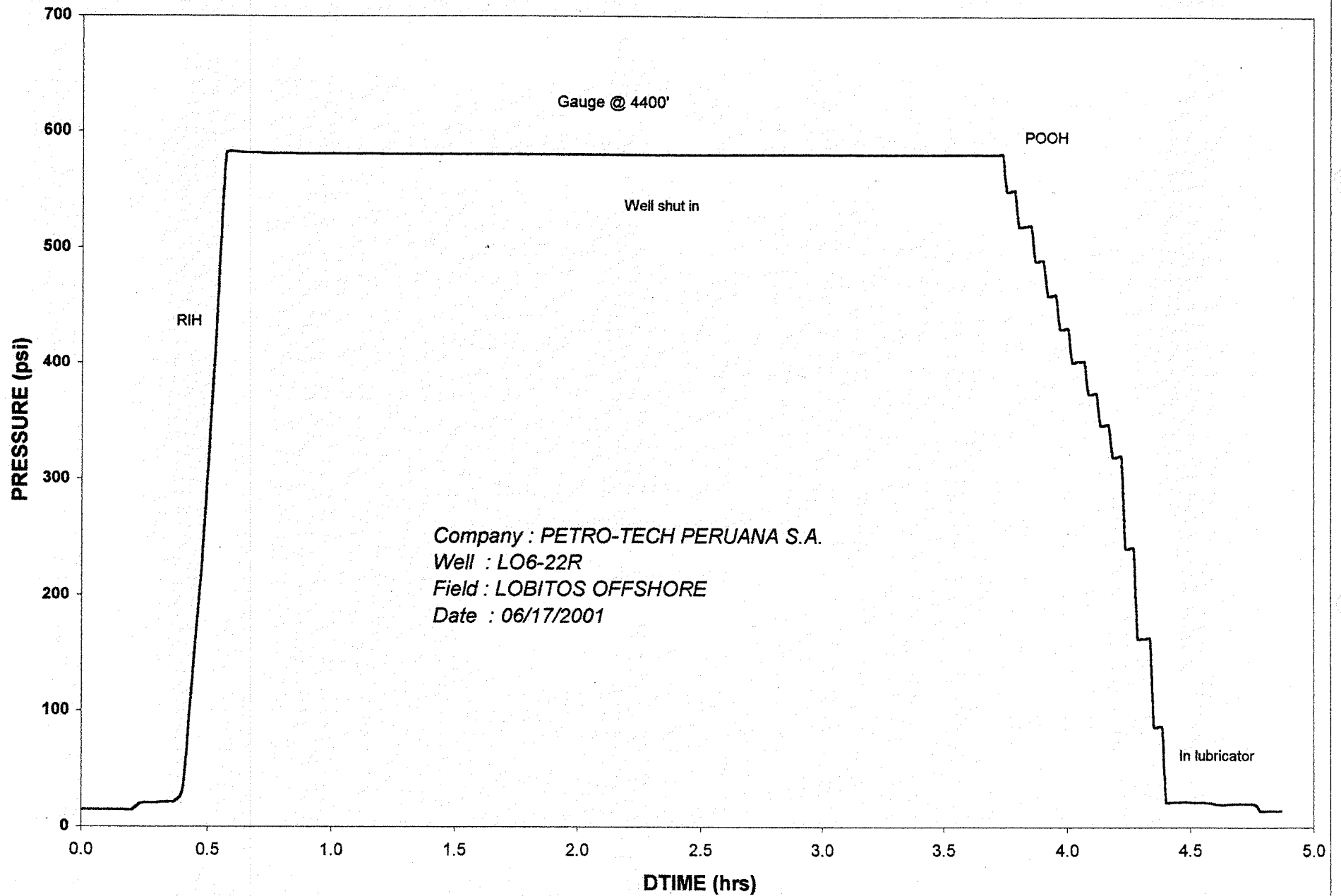
$$FG = \frac{532}{3607} = 0.15 \text{ psi/ft.} //$$

- It was acidized & RAN
 GAS lift chamber install.

non:
 Time down on File BHP's - Foxon

V. Roustin June 09/01

CARTESIAN (P vs DT)



Company: PETRO-TECH PERUANA S.A.
Well: LO6-22R
Field: LOBITOS OFFSHORE

County: TALARA
State: PERU

Engineer: Ricardo Aguirre
Gauge Type: Electronic
Serial No.: 20602
Gauge Range: 0-6000
Gauge Depth: 4400 ft

Date: 06/17/2001
Well API: 35
Well Type: Casing 5 1/2"
Test Type: Static Gradient
Well Status: Producer

Shut-in Time 3 hrs

[GRADIENT DATA]

CENTRAL FILE
GEOSCIENCES

#	MD	TVD	PRESSURE	PSI/ft
1	0	0	20.40	
2	1000	1000	21.20	0.001
3	2000	1897	21.80	0.001
4	2300	2143	21.70	0.000
5	2600	2348	86.30	0.315
6	2900	2563	162.70	0.355
7	3200	2781	241.20	0.360
8	3500	3001	319.70	0.357
9	3600	3078	346.80	0.352
10	3700	3157	374.00	0.344
11	3800	3235	401.80	0.356
12	3900	3312	430.20	0.369
13	4000	3401	459.30	0.327
14	4100	3486	489.10	0.351
15	4200	3572	519.20	0.350
16	4300	3658	549.50	0.352
17	4400	3745	580.10	0.352

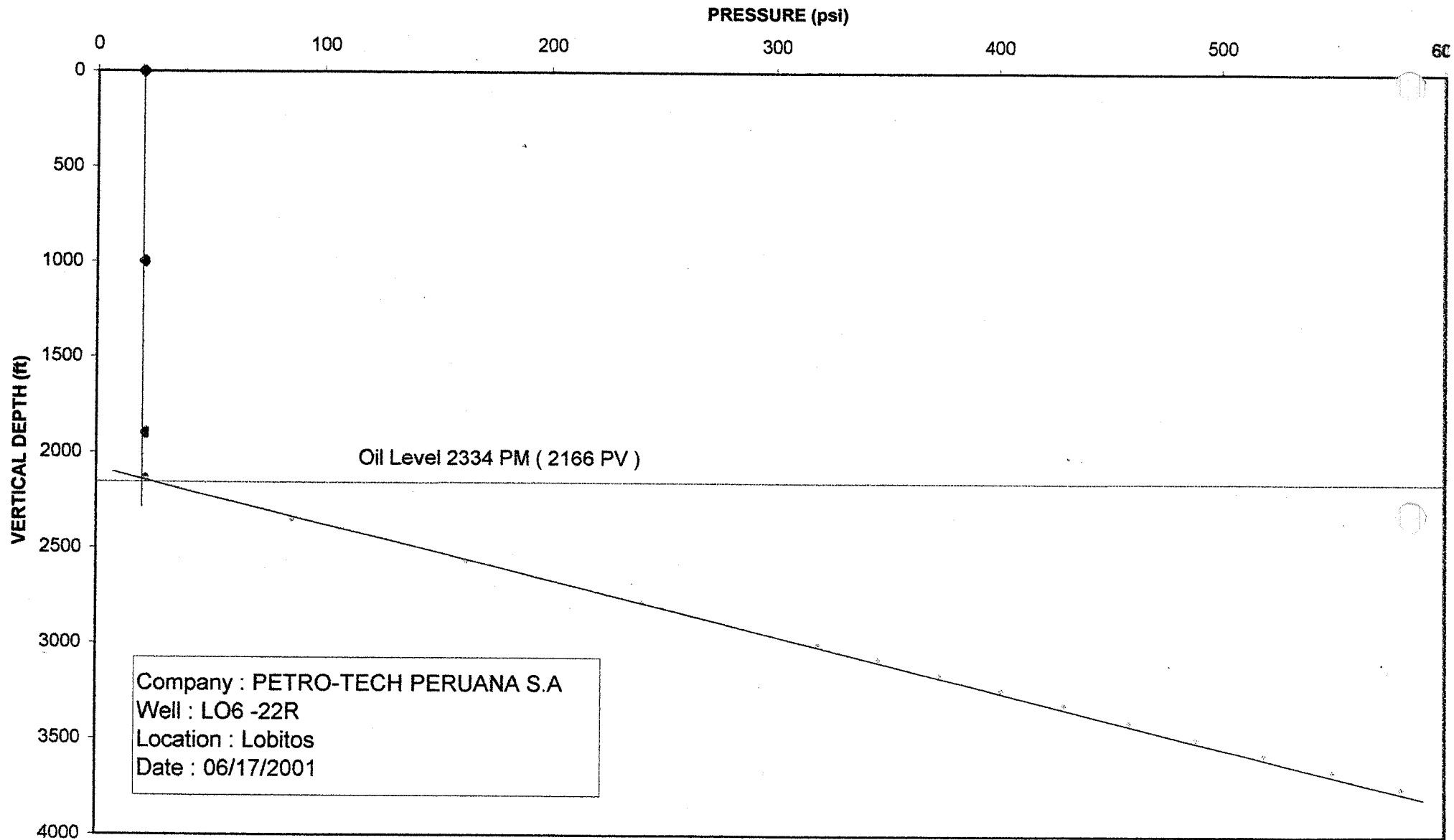
Remarks: 17 Data Points.

Memory Gauges @ 4400'

Formation Gradient : 0.155 psi/ft

Fluid level @ 2334 PM (2166 PV).

STATIC GRADIENT SURVEY



REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
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Registradores Starburst Ultra II.

Inst No 20602.

Conecta bateria: 10:17:00

1	0	10:17: 0	0.0000	14.50	78.53
2	0	10:19: 0	0.0333	14.50	79.81
3	0	10:21: 0	0.0667	14.50	80.19
4	0	10:23: 0	0.1000	14.50	79.55
5	0	10:25: 0	0.1333	14.50	78.86
6	0	10:27: 0	0.1667	14.50	78.32
7	0	10:29: 0	0.2000	14.50	77.94
Presuriza lubricador.					
8	0	10:31: 0	0.2333	20.09	77.47
Bajando registradores.					
9	0	10:33: 0	0.2667	20.39	77.00
10	0	10:35: 0	0.3000	20.75	76.82
11	0	10:37: 0	0.3333	21.22	76.19
12	0	10:39: 0	0.3667	21.62	76.03
13	0	10:41: 0	0.4000	31.49	76.32
14	0	10:43: 0	0.4333	117.04	77.42
15	0	10:45: 0	0.4667	206.92	79.03
16	0	10:47: 0	0.5000	314.69	81.12
17	0	10:49: 0	0.5333	445.48	83.28
18	0	10:51: 0	0.5667	580.98	85.70

Registradores @ 4400'.

Pozo cerrado.

Registra presion estatica x 03 hrs.

19	0	10:53: 0	0.6000	582.38	87.96
20	0	10:55: 0	0.6333	581.74	89.64
21	0	10:57: 0	0.6667	581.60	91.10
22	0	10:59: 0	0.7000	581.41	92.19
23	0	11: 1: 0	0.7333	580.88	93.11
24	0	11: 3: 0	0.7667	580.96	93.83
25	0	11: 5: 0	0.8000	580.85	94.50
26	0	11: 7: 0	0.8333	580.80	94.96
27	0	11: 9: 0	0.8667	580.71	95.31
28	0	11:11: 0	0.9000	580.68	95.52
29	0	11:13: 0	0.9333	580.64	95.91
30	0	11:15: 0	0.9667	580.54	96.03
31	0	11:17: 0	1.0000	580.56	96.24
32	0	11:18: 0	1.0167	580.54	96.34
33	0	11:19: 0	1.0333	580.50	96.41
34	0	11:20: 0	1.0500	580.49	96.48
35	0	11:21: 0	1.0667	580.46	96.54
36	0	11:22: 0	1.0833	580.47	96.60
37	0	11:23: 0	1.1000	580.43	96.66
38	0	11:24: 0	1.1167	580.47	96.45
39	0	11:25: 0	1.1333	580.46	96.53
40	0	11:26: 0	1.1500	580.45	96.59
41	0	11:27: 0	1.1667	580.44	96.64
42	0	11:28: 0	1.1833	580.43	96.68

Company: PETRO-TECH PERUANA S.A.

Well: LO6-22R

[Sunday: June 17, 2001]

Field: LOBITOS OFFSHORE

Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
43	0	11:29: 0	1.2000	580.42	96.73
44	0	11:30: 0	1.2167	580.42	96.75
45	0	11:31: 0	1.2333	580.42	96.78
46	0	11:32: 0	1.2500	580.39	96.80
47	0	11:33: 0	1.2667	580.38	96.82
48	0	11:34: 0	1.2833	580.38	96.84
49	0	11:35: 0	1.3000	580.38	96.86
50	0	11:36: 0	1.3167	580.37	96.87
51	0	11:37: 0	1.3333	580.37	96.90
52	0	11:38: 0	1.3500	580.34	96.92
53	0	11:39: 0	1.3667	580.34	96.93
54	0	11:40: 0	1.3833	580.34	96.95
55	0	11:41: 0	1.4000	580.33	96.97
56	0	11:42: 0	1.4167	580.33	96.98
57	0	11:43: 0	1.4333	580.30	96.99
58	0	11:44: 0	1.4500	580.30	97.01
59	0	11:45: 0	1.4667	580.30	97.01
60	0	11:46: 0	1.4833	580.30	97.02
61	0	11:47: 0	1.5000	580.27	97.04
62	0	11:48: 0	1.5167	580.27	97.05
63	0	11:49: 0	1.5333	580.27	97.06
64	0	11:50: 0	1.5500	580.27	97.06
65	0	11:51: 0	1.5667	580.24	97.07
66	0	11:52: 0	1.5833	580.24	97.08
67	0	11:53: 0	1.6000	580.24	97.09
68	0	11:54: 0	1.6167	580.24	97.10
69	0	11:55: 0	1.6333	580.21	97.10
70	0	11:56: 0	1.6500	580.21	97.11
71	0	11:57: 0	1.6667	580.21	97.11
72	0	11:58: 0	1.6833	580.21	97.11
73	0	11:59: 0	1.7000	580.21	97.12
74	0	12: 0: 0	1.7167	580.21	97.12
75	0	12: 1: 0	1.7333	580.21	97.13
76	0	12: 2: 0	1.7500	580.21	97.13
77	0	12: 3: 0	1.7667	580.21	97.13
78	0	12: 4: 0	1.7833	580.20	97.14
79	0	12: 5: 0	1.8000	580.20	97.14
80	0	12: 6: 0	1.8167	580.20	97.14
81	0	12: 7: 0	1.8333	580.18	97.15
82	0	12: 8: 0	1.8500	580.18	97.15
83	0	12: 9: 0	1.8667	580.18	97.15
84	0	12:10: 0	1.8833	580.18	97.16
85	0	12:11: 0	1.9000	580.18	97.16
86	0	12:12: 0	1.9167	580.18	97.16
87	0	12:13: 0	1.9333	580.18	97.16
88	0	12:14: 0	1.9500	580.18	97.16
89	0	12:15: 0	1.9667	580.18	97.16
90	0	12:16: 0	1.9833	580.17	97.16
91	0	12:17: 0	2.0000	580.17	97.16
92	0	12:18: 0	2.0167	580.17	97.16

CENTRAL FILE
GEOSCIENCES

(K & C Services S.A.C.)

Company: PETRO-TECH PERUANA S.A.

Well: LO6-22R

Field: LOBITOS OFFSHORE

[Sunday: June 17, 2001]

Page 3

CENTRAL FILE
GEOSCIENCES

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
93	0	12:19: 0	2.0333	580.17	97.16
94	0	12:20: 0	2.0500	580.17	97.16
95	0	12:21: 0	2.0667	580.17	97.16
96	0	12:22: 0	2.0833	580.17	97.16
97	0	12:23: 0	2.1000	580.17	97.16
98	0	12:24: 0	2.1167	580.17	97.16
99	0	12:25: 0	2.1333	580.17	97.16
100	0	12:26: 0	2.1500	580.17	97.16
101	0	12:27: 0	2.1667	580.17	97.16
102	0	12:28: 0	2.1833	580.17	97.17
103	0	12:29: 0	2.2000	580.17	97.17
104	0	12:30: 0	2.2167	580.17	97.17
105	0	12:31: 0	2.2333	580.17	97.17
106	0	12:32: 0	2.2500	580.17	97.17
107	0	12:33: 0	2.2667	580.17	97.17
108	0	12:34: 0	2.2833	580.17	97.17
109	0	12:35: 0	2.3000	580.17	97.17
110	0	12:36: 0	2.3167	580.17	97.17
111	0	12:37: 0	2.3333	580.17	97.17
112	0	12:38: 0	2.3500	580.17	97.17
113	0	12:39: 0	2.3667	580.17	97.17
114	0	12:40: 0	2.3833	580.17	97.17
115	0	12:41: 0	2.4000	580.17	97.17
116	0	12:42: 0	2.4167	580.17	97.17
117	0	12:43: 0	2.4333	580.17	97.17
118	0	12:44: 0	2.4500	580.17	97.17
119	0	12:45: 0	2.4667	580.17	97.17
120	0	12:46: 0	2.4833	580.17	97.17
121	0	12:47: 0	2.5000	580.17	97.17
122	0	12:48: 0	2.5167	580.17	97.17
123	0	12:49: 0	2.5333	580.17	97.17
124	0	12:50: 0	2.5500	580.17	97.17
125	0	12:51: 0	2.5667	580.17	97.17
126	0	12:52: 0	2.5833	580.17	97.17
127	0	12:53: 0	2.6000	580.17	97.17
128	0	12:54: 0	2.6167	580.17	97.17
129	0	12:55: 0	2.6333	580.17	97.17
130	0	12:56: 0	2.6500	580.17	97.17
131	0	12:57: 0	2.6667	580.17	97.17
132	0	12:58: 0	2.6833	580.17	97.17
133	0	12:59: 0	2.7000	580.15	97.17
134	0	13: 0: 0	2.7167	580.15	97.17
135	0	13: 1: 0	2.7333	580.15	97.16
136	0	13: 2: 0	2.7500	580.15	97.16
137	0	13: 3: 0	2.7667	580.15	97.16
138	0	13: 4: 0	2.7833	580.15	97.16
139	0	13: 5: 0	2.8000	580.12	97.16
140	0	13: 6: 0	2.8167	580.12	97.16
142	0	13: 8: 0	2.8500	580.12	97.16
144	0	13:10: 0	2.8833	580.12	97.16

(K & C Services S.A.C.)

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg. F)
146	0	13:12: 0	2.9167	580.12	97.16
148	0	13:14: 0	2.9500	580.12	97.16
150	0	13:16: 0	2.9833	580.12	97.16
152	0	13:18: 0	3.0167	580.10	97.16
154	0	13:20: 0	3.0500	580.10	97.16
156	0	13:22: 0	3.0833	580.10	97.16
158	0	13:24: 0	3.1167	580.10	97.16
160	0	13:26: 0	3.1500	580.10	97.16
162	0	13:28: 0	3.1833	580.10	97.16
164	0	13:30: 0	3.2167	580.10	97.16
166	0	13:32: 0	3.2500	580.10	97.16
168	0	13:34: 0	3.2833	580.10	97.16
170	0	13:36: 0	3.3167	580.10	97.16
172	0	13:38: 0	3.3500	580.10	97.16
174	0	13:40: 0	3.3833	580.10	97.16
176	0	13:42: 0	3.4167	580.10	97.16
178	0	13:44: 0	3.4500	580.10	97.15
180	0	13:46: 0	3.4833	580.10	97.15
182	0	13:48: 0	3.5167	580.11	97.13
184	0	13:50: 0	3.5500	580.11	97.11
186	0	13:52: 0	3.5833	580.11	97.11
188	0	13:54: 0	3.6167	580.11	97.10
190	0	13:56: 0	3.6500	580.12	97.07
191	0	13:57: 0	3.6667	580.12	97.06
192	0	13:58: 0	3.6833	580.12	97.04
193	0	13:59: 0	3.7000	580.10	97.01
194	0	14: 0: 0	3.7167	580.11	96.98
195	0	14: 1: 0	3.7333	580.19	96.93
Subiendo Registradores a superficie.					
Parada @ 4300'.					
196	0	14: 2: 0	3.7500	549.45	96.89
197	0	14: 3: 0	3.7667	549.58	97.12
198	0	14: 4: 0	3.7833	549.64	97.09
199	0	14: 5: 0	3.8000	519.00	97.04
Parada @ 4200'.					
200	0	14: 6: 0	3.8167	519.07	97.01
201	0	14: 7: 0	3.8333	519.26	96.95
202	0	14: 8: 0	3.8500	519.27	96.91
Parada @ 4100'.					
203	0	14: 9: 0	3.8667	489.28	96.85
204	0	14:10: 0	3.8833	489.18	96.69
205	0	14:11: 0	3.9000	489.03	96.55
Parada @ 4000'.					
206	0	14:12: 0	3.9167	459.24	96.16
207	0	14:13: 0	3.9333	459.38	96.06
208	0	14:14: 0	3.9500	459.40	95.95
Parada @ 3900'.					
209	0	14:15: 0	3.9667	430.31	95.83
210	0	14:16: 0	3.9833	430.23	95.69
211	0	14:17: 0	4.0000	430.26	95.56

CENTRAL FILE
GEOSCIENCES

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
		Parada @ 3800'.			
212	0	14:18: 0	4.0167	401.69	95.43
213	0	14:19: 0	4.0333	401.79	95.28
214	0	14:20: 0	4.0500	401.91	95.12
215	0	14:21: 0	4.0667	401.74	94.96
		Parada @ 3700'.			
216	0	14:22: 0	4.0833	374.27	94.78
217	0	14:23: 0	4.1000	373.81	94.87
218	0	14:24: 0	4.1167	374.03	94.73
		Parada @ 3600'.			
219	0	14:25: 0	4.1333	346.79	94.54
220	0	14:26: 0	4.1500	346.82	94.25
221	0	14:27: 0	4.1667	346.81	93.99
		Parada @ 3500'.			
222	0	14:28: 0	4.1833	319.78	93.88
223	0	14:29: 0	4.2000	319.64	93.80
224	0	14:30: 0	4.2167	319.66	93.64
		Parada @ 3200'.			
225	0	14:31: 0	4.2333	241.30	93.36
226	0	14:32: 0	4.2500	241.19	93.08
227	0	14:33: 0	4.2667	240.98	92.80
		Parada @ 2900'.			
228	0	14:34: 0	4.2833	162.89	92.55
229	0	14:35: 0	4.3000	162.88	91.96
230	0	14:36: 0	4.3167	162.61	91.60
231	0	14:37: 0	4.3333	162.67	91.19
		Parada @ 2600'.			
232	0	14:38: 0	4.3500	86.39	90.81
233	0	14:39: 0	4.3667	86.43	90.19
234	0	14:40: 0	4.3833	86.16	89.51
		Parada @ 2300'.			
235	0	14:41: 0	4.4000	21.87	89.09
236	0	14:42: 0	4.4167	21.68	88.66
237	0	14:43: 0	4.4333	21.77	88.22
		Parada @ 2000'.			
238	0	14:44: 0	4.4500	21.83	87.54
239	0	14:45: 0	4.4667	21.90	87.08
240	0	14:46: 0	4.4833	21.94	86.85
241	0	14:47: 0	4.5000	21.83	86.37
242	0	14:48: 0	4.5167	21.49	86.13
		Parada @ 1000'.			
243	0	14:49: 0	4.5333	21.28	85.42
244	0	14:50: 0	4.5500	21.31	85.21
245	0	14:51: 0	4.5667	21.04	84.48
246	0	14:52: 0	4.5833	21.04	84.03
247	0	14:53: 0	4.6000	20.20	83.58
248	0	14:54: 0	4.6167	19.84	83.15
		Parada @ 0'.			
249	0	14:55: 0	4.6333	19.48	82.72
250	0	14:56: 0	4.6500	20.00	82.30

CENTRAL FILE
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Company: PETRO-TECH PERUANA S.A.

Well: LO6-22R

Field: LOBITOS OFFSHORE

[Sunday: June 17, 2001]

Page 6

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
251	0	14:57: 0	4.6667	20.19	81.39
252	0	14:58: 0	4.6833	20.23	81.12
253	0	14:59: 0	4.7000	20.26	80.59
254	0	15: 0: 0	4.7167	20.33	80.16
255	0	15: 1: 0	4.7333	20.48	79.83
256	0	15: 2: 0	4.7500	20.55	79.38
257	0	15: 3: 0	4.7667	18.99	79.08
Desfoga lubricador.					
258	0	15: 4: 0	4.7833	14.50	78.73
259	0	15: 5: 0	4.8000	14.50	78.50
260	0	15: 6: 0	4.8167	14.50	78.23
261	0	15: 7: 0	4.8333	14.50	77.94
262	0	15: 8: 0	4.8500	14.50	77.62
Desconecta bateria.					
263	0	15: 9: 0	4.8667	14.50	77.44

(K & C Services S.A.C.)