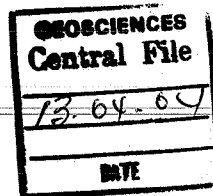


FLOWING GRADIENT TEST

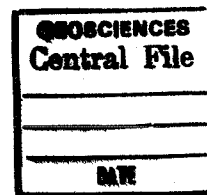
COMPANY: PETRO-TECH PERUANA S.A.
WELL: L06-6
FIELD: LOBITOS OFFSHORE
DATE: MARCH 16th, 2004



Well Test Data

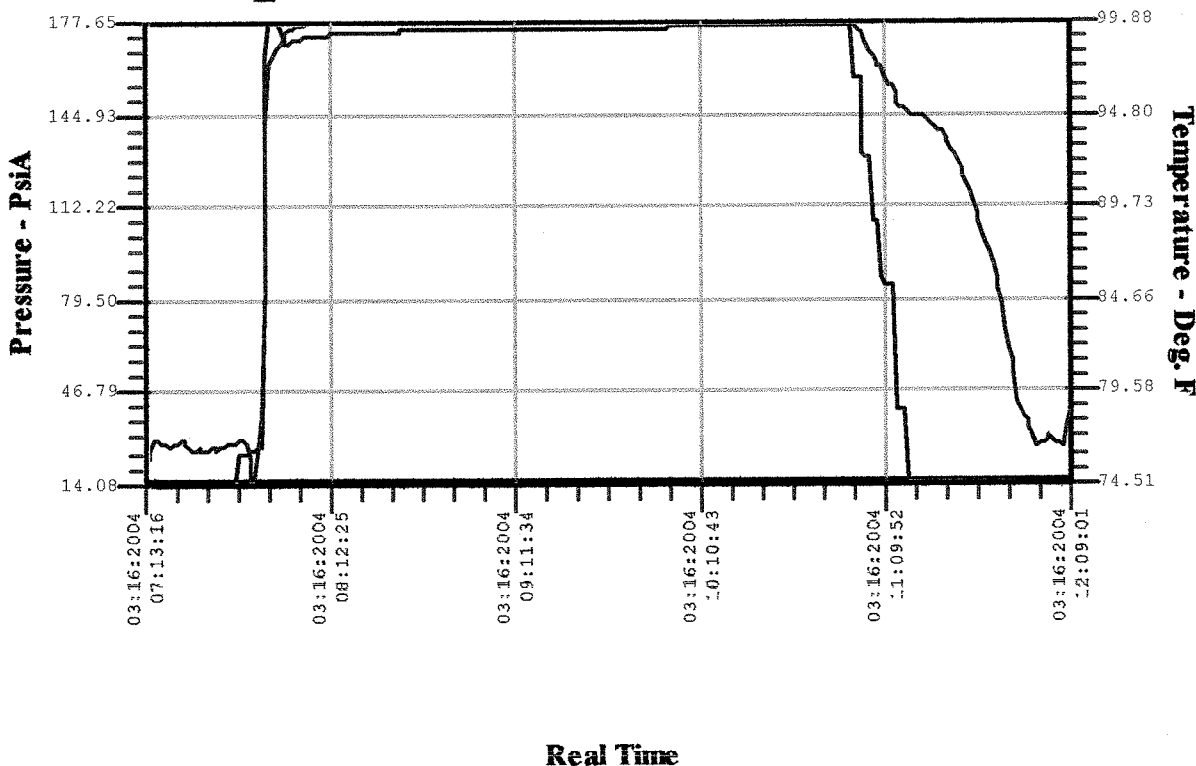
Test name: FGL06-6

Company: FLOWPETROL S.A.
Client: PETRO-TECH PERUANA S.A.
Gauge number: 91176
Well name: LO6-6
Well number: 6
Test number: 015
Field name: LOBITOS OFFSHORE
County: TALARA
State: PIURA
Date of test: MARCH 16th, 2004
Type of test: FLOWING GRADIENT
Well status: PRODUCER
BHP on bottom: 177.60 PSIA
BHP off bottom: 176.48 PSIA
Bottom gauge number: 91176
Starting tubing pressure: 10 PSIG
Starting casing pressure: -
Ending tubing pressure: 0 PSIG
Ending casing pressure: -
Depth of tool: 5160'
Surface elevation: -
Tool zero point: -
Tubing size: 5 1/2"
Bottom hole temperature: 99.86 deg F



Test operator: ENG MARCIAL CACERES BUSTINZA
Comments:

Temperature / Pressure Data

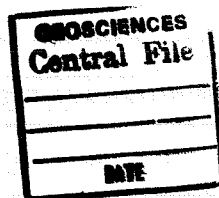
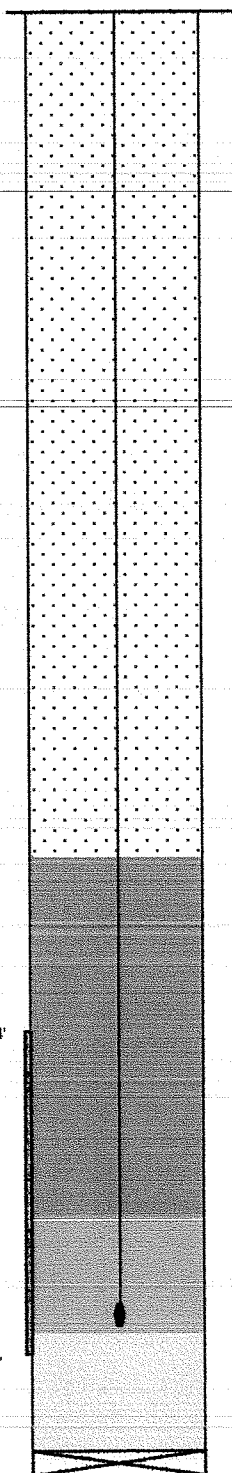


FLOWPETROL S.A. **FLOWING GRADIENT TEST**

Field : Lobitos Offshore
 Well : LO6-6

Sand(s) : Rio Bravo
 Interval(s) : (5182' - 4794')

At Flowing Condition



Well Status : Producer
 Installation : 5 1/2" during test
 Production (MSCFD) : 4 (February, 2004) ✓
 Cumul. (STB) : 59931 (February, 2004)

FIELD REPORT :

March 16th, 2004

05:30 Rig up
 06:50 RIH Dead Weight at 5170' (Sand Top)
 07:13 Activate Memory gauges FPT
 07:45 RIH Gauges
 07:52 Gauges at 5160'. WHP= 10 psig
 07:55 Bleed off well for 03 hrs.
 10:59 POOH Gauges with steps at follows:
 5160' - 5100' - 5000' - 4900' - 4800' - 4600'
 4400' - 4200' - 4000' - 3600' - 3300' - 2800'
 2400' - 2000' - 1500' - 1000' - 0'.
 11:58 Gauges on Surface. WHP= 0 psig
 12:30 Rig Down.

SI, WELL ; WHP = 10 psi

Results :

Flowing Condition

F BHTD : 176 psi
 Oil GRAD : 0.295 psi/ft
 Water GRAD : 0.441 psi/ft

Memory : 5160' MD (4061' VD)

SAN TOP : 5170' MD

Str. Press : 178 psig.

F. GRAD : $\frac{178}{4061'} = 0.0438 \text{ psi/ft}$

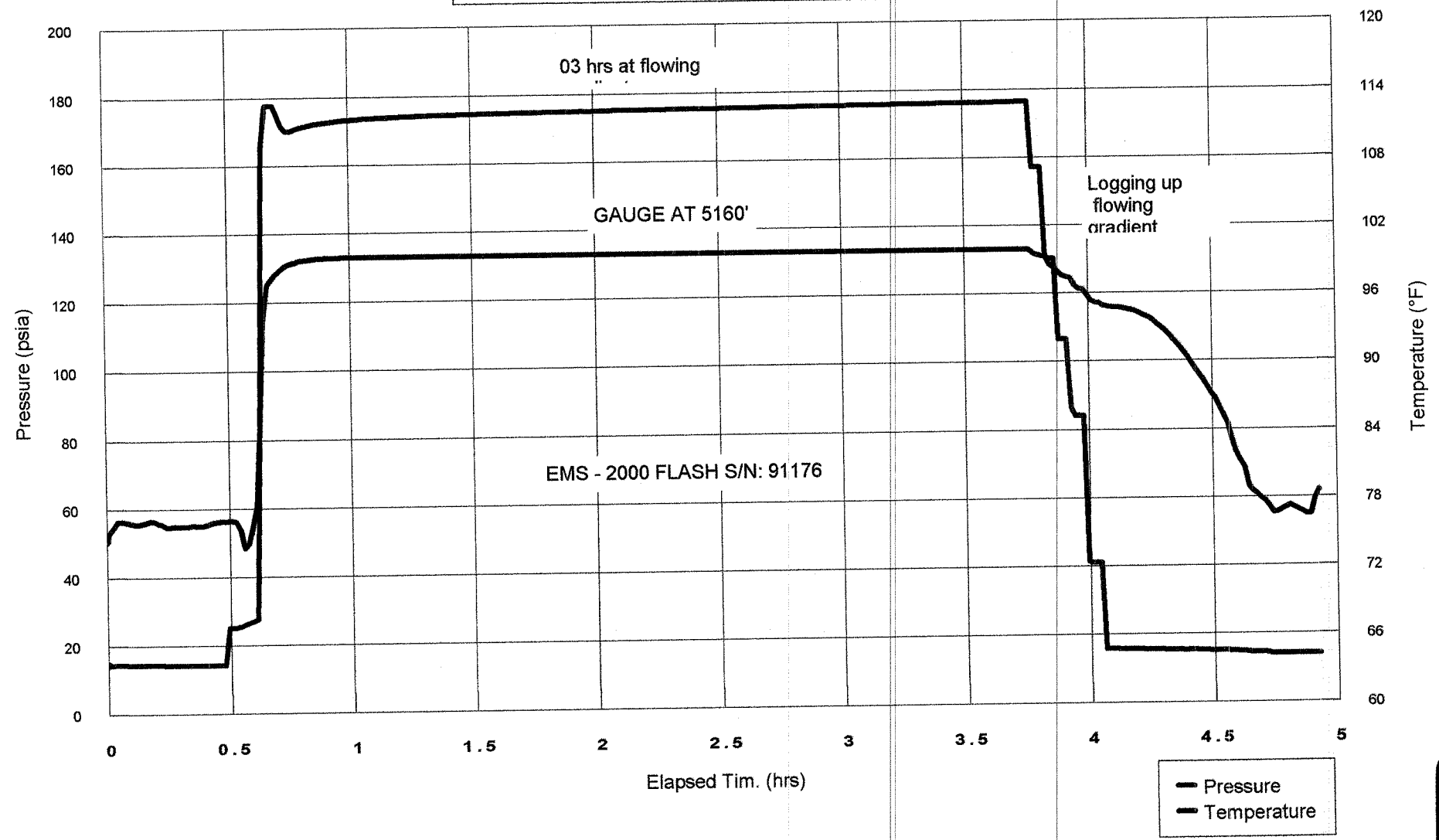
→ FGRAD } DATA, IS REFERENCE ONLY
 & PSTR }

1/16/04

Field Operator : Jorge Sanjinez

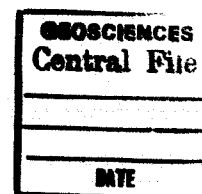
Field Supervisor : Marcial Cáceres

TEMPERATURE / PRESSURE DATA
FLOWING GRADIENT TEST



Summary of Results Well: LO6-6

Date of Test	August 16th, 2004	
Formation	Rio Bravo	(5182' - 4794')
Depth of gauges	5,160	M.D. ft
	4,061	V.D. ft
04 Hrs. at Flowing Condition		
Flowing Pressure at 5160' MD	176.48	psia (Memory)
Flowing Temperature at 5160' MD	99.86	°F
Gradient at 5160' MD	0.0435	psi/ft
Oil level	4487	ft. MD
	3555	ft. VD
Water level	5055	ft. MD
	3984	ft. VD
Oil Gradient	0.2952	psi/ft
Water Gradient	0.4413	psi/ft



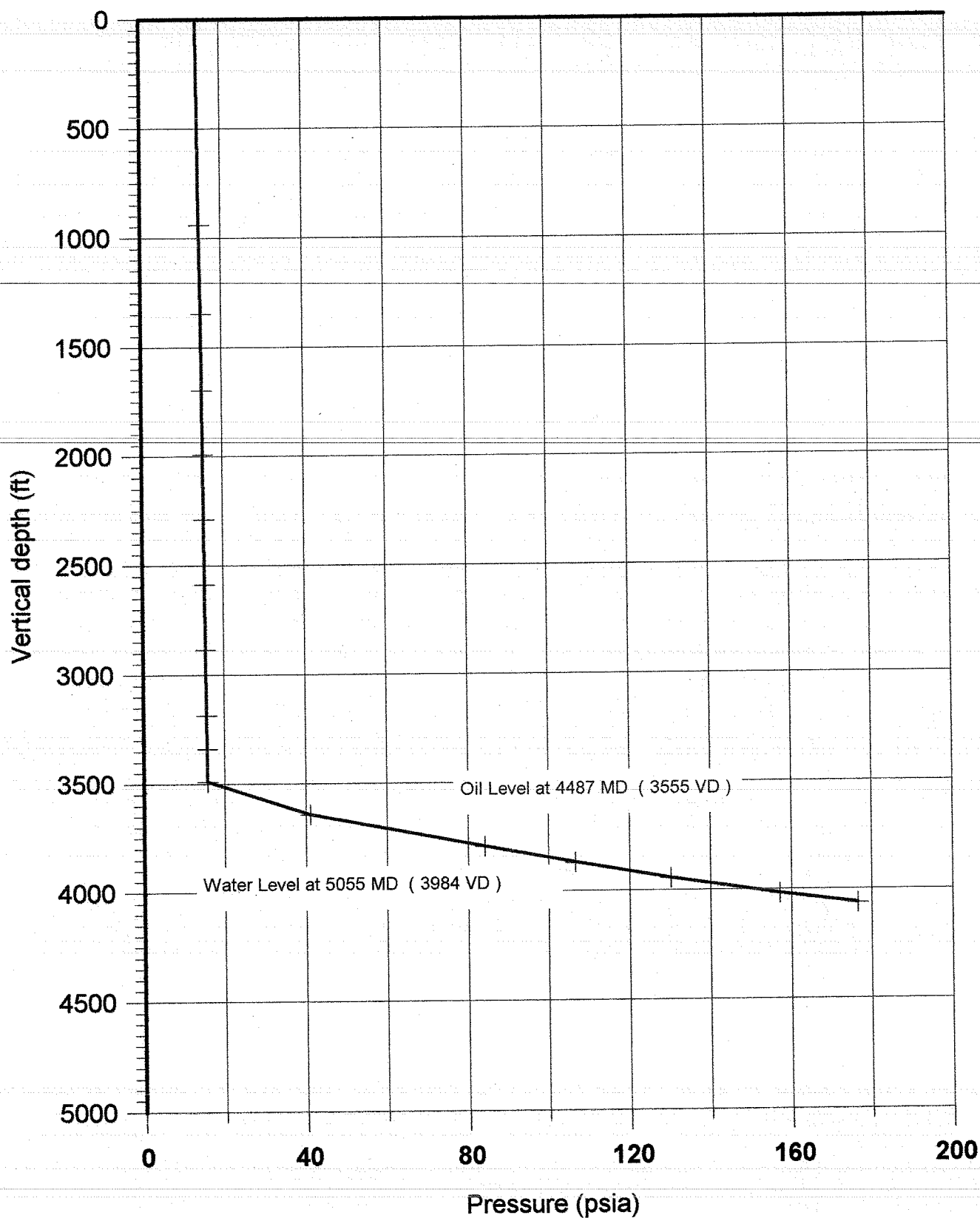
Fluid Level at Flowing Condition (while POOH gauges)

Measured depth (ft)	Vertical depth (ft)	Pressure (psia)	Gradient (psi/ft)
0	0.00	14.15	
1000	940.34	14.60	0.0005
1500	1344.34	14.93	0.0008
2000	1696.54	15.11	0.0005
2400	1991.05	15.23	0.0004
2800	2288.31	15.35	0.0004
3200	2585.56	15.47	0.0004
3600	2883.51	15.55	0.0003
4000	3185.42	15.67	0.0004
4200	3337.51	15.74	0.0005
4400	3489.46	15.80	0.0004
4600	3640.98	41.08	0.1668
4800	3792.49	84.22	0.2847
4900	3867.67	106.52	0.2966
5000	3942.86	130.18	0.3147
5100	4017.50	157.12	0.3609
5160	4061.37	176.48	0.4413

Levels & Gradients

	Flowing levels		Gradient (psi/ft)
	Measured (ft)	Vertical (ft)	
Gas=	0	0	0.0005
Oil=	4487	3555	0.2952
Water=	5055	3984	0.4413
Gauges =	5160	4061	0.0435

Fluid Level at Flowing Condition (while POOH gauges)



Well LO6-6: Development Test

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)	Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
Activate Gauge s/n: 91180					03/16/2004	08:08:01	0.91250	172.83	99.83
03/16/2004	07:13:16	0.00000	14.77	75.10	03/16/2004	08:09:01	0.92917	172.79	99.84
03/16/2004	07:13:17	0.00028	14.80	75.08	03/16/2004	08:10:01	0.94583	172.90	99.85
03/16/2004	07:13:18	0.00056	14.86	75.09	03/16/2004	08:11:01	0.96250	172.98	99.86
03/16/2004	07:13:19	0.00083	14.85	75.10	03/16/2004	08:12:01	0.97917	173.09	99.86
03/16/2004	07:13:20	0.00111	14.85	75.12	03/16/2004	08:13:01	0.99583	173.20	99.86
03/16/2004	07:13:21	0.00139	14.87	75.13	03/16/2004	08:14:01	1.01250	173.25	99.86
03/16/2004	07:13:22	0.00167	14.89	75.14	03/16/2004	08:15:01	1.02917	173.36	99.87
03/16/2004	07:13:23	0.00194	14.85	75.15	03/16/2004	08:16:01	1.04583	173.45	99.87
03/16/2004	07:13:24	0.00222	15.02	75.15	03/16/2004	08:17:01	1.06250	173.54	99.87
03/16/2004	07:13:25	0.00250	14.89	75.16	03/16/2004	08:18:01	1.07917	173.55	99.87
03/16/2004	07:13:26	0.00278	14.95	75.16	03/16/2004	08:19:01	1.09583	173.63	99.87
03/16/2004	07:13:27	0.00306	14.78	75.17	03/16/2004	08:20:01	1.11250	173.67	99.87
03/16/2004	07:13:28	0.00333	14.74	75.19	03/16/2004	08:21:01	1.12917	173.80	99.87
03/16/2004	07:13:29	0.00361	14.75	75.18	03/16/2004	08:22:01	1.14583	173.79	99.87
03/16/2004	07:13:30	0.00389	14.65	75.20	03/16/2004	08:23:01	1.16250	173.82	99.87
03/16/2004	07:13:31	0.00417	14.69	75.20	03/16/2004	08:24:01	1.17917	173.87	99.88
03/16/2004	07:13:32	0.00444	14.95	75.24	03/16/2004	08:25:01	1.19583	173.94	99.87
03/16/2004	07:13:33	0.00472	14.85	75.26	03/16/2004	08:26:01	1.21250	174.01	99.87
03/16/2004	07:13:34	0.00500	14.77	75.26	03/16/2004	08:27:01	1.22917	174.09	99.87
03/16/2004	07:13:35	0.00528	14.97	75.27	03/16/2004	08:28:01	1.24583	174.07	99.87
03/16/2004	07:13:36	0.00556	14.93	75.28	03/16/2004	08:29:01	1.26250	174.09	99.87
03/16/2004	07:13:37	0.00583	14.84	75.29	03/16/2004	08:30:01	1.27917	174.16	99.87
03/16/2004	07:13:38	0.00611	14.80	75.29	03/16/2004	08:31:01	1.29583	174.13	99.87
03/16/2004	07:13:39	0.00639	14.95	75.29	03/16/2004	08:32:01	1.31250	174.21	99.88
03/16/2004	07:13:40	0.00667	14.95	75.31	03/16/2004	08:33:01	1.32917	174.27	99.88
03/16/2004	07:13:41	0.00694	14.87	75.33	03/16/2004	08:34:01	1.34583	174.31	99.88
03/16/2004	07:13:42	0.00722	14.87	75.37	03/16/2004	08:35:01	1.36250	174.35	99.87
03/16/2004	07:13:43	0.00750	14.86	75.50	03/16/2004	08:36:01	1.37917	174.33	99.88
03/16/2004	07:13:44	0.00778	14.52	75.62	03/16/2004	08:37:01	1.39583	174.37	99.88
03/16/2004	07:13:45	0.00806	14.54	75.67	03/16/2004	08:38:01	1.41250	174.41	99.88
03/16/2004	07:13:46	0.00833	14.49	75.71	03/16/2004	08:39:01	1.42917	174.42	99.88
03/16/2004	07:13:47	0.00861	14.39	75.72	03/16/2004	08:40:01	1.44583	174.45	99.88
03/16/2004	07:13:48	0.00889	14.50	75.75	03/16/2004	08:41:01	1.46250	174.48	99.87
03/16/2004	07:13:49	0.00917	14.33	75.75	03/16/2004	08:42:01	1.47917	174.52	99.88
03/16/2004	07:13:50	0.00944	14.47	75.76	03/16/2004	08:43:01	1.49583	174.59	99.88
03/16/2004	07:14:01	0.01250	14.39	75.97	03/16/2004	08:44:01	1.51250	174.49	99.88
03/16/2004	07:15:01	0.02917	14.51	76.40	03/16/2004	08:45:01	1.52917	174.58	99.88
03/16/2004	07:16:01	0.04583	14.56	76.90	03/16/2004	08:46:01	1.54583	174.56	99.88
03/16/2004	07:17:01	0.06250	14.51	76.94	03/16/2004	08:47:01	1.56250	174.62	99.88
03/16/2004	07:18:01	0.07917	14.51	76.85	03/16/2004	08:48:01	1.57917	174.61	99.88
03/16/2004	07:19:01	0.09583	14.44	76.79	03/16/2004	08:49:01	1.59583	174.65	99.88
03/16/2004	07:20:01	0.11250	14.42	76.68	03/16/2004	08:50:01	1.61250	174.69	99.88
03/16/2004	07:21:01	0.12917	14.44	76.64	03/16/2004	08:51:01	1.62917	174.65	99.88
03/16/2004	07:22:01	0.14583	14.40	76.73	03/16/2004	08:52:01	1.64583	174.65	99.88
03/16/2004	07:23:01	0.16250	14.37	76.83	03/16/2004	08:53:01	1.66250	174.75	99.88
03/16/2004	07:24:01	0.17917	14.38	76.96	03/16/2004	08:54:01	1.67917	174.74	99.88
03/16/2004	07:25:01	0.19583	14.34	76.89	03/16/2004	08:55:01	1.69583	174.77	99.88
03/16/2004	07:26:01	0.21250	14.33	76.73	03/16/2004	08:56:01	1.71250	174.82	99.88
03/16/2004	07:27:01	0.22917	14.36	76.59	03/16/2004	08:57:01	1.72917	174.78	99.88
03/16/2004	07:28:01	0.24583	14.31	76.41	03/16/2004	08:58:01	1.74583	174.80	99.88
03/16/2004	07:29:01	0.26250	14.32	76.44	03/16/2004	08:59:01	1.76250	174.84	99.88
03/16/2004	07:30:01	0.27917	14.31	76.49	03/16/2004	09:00:01	1.77917	174.77	99.88
03/16/2004	07:31:01	0.29583	14.31	76.45	03/16/2004	09:01:01	1.79583	174.84	99.88
03/16/2004	07:32:01	0.31250	14.26	76.43	03/16/2004	09:02:01	1.81250	174.91	99.87
03/16/2004	07:33:01	0.32917	14.26	76.45	03/16/2004	09:03:01	1.82917	174.85	99.88
03/16/2004	07:34:01	0.34583	14.21	76.54	03/16/2004	09:04:01	1.84583	174.90	99.87
03/16/2004	07:35:01	0.36250	14.25	76.54	03/16/2004	09:05:01	1.86250	174.90	99.87
03/16/2004	07:36:01	0.37917	14.26	76.47	03/16/2004	09:06:01	1.87917	174.94	99.87
03/16/2004	07:37:01	0.39583	14.28	76.50	03/16/2004	09:07:01	1.89583	174.93	99.88
03/16/2004	07:38:01	0.41250	14.22	76.62	03/16/2004	09:08:01	1.91250	174.95	99.87
03/16/2004	07:39:01	0.42917	14.24	76.75	03/16/2004	09:09:01	1.92917	174.95	99.87
03/16/2004	07:40:01	0.44583	14.22	76.81	03/16/2004	09:10:01	1.94583	174.98	99.87
03/16/2004	07:41:01	0.46250	14.23	76.86	03/16/2004	09:11:01	1.96250	175.00	99.87
03/16/2004	07:42:01	0.47917	14.22	76.87	03/16/2004	09:12:01	1.97917	174.96	99.87
Presurized Lubricator					03/16/2004	09:13:01	1.99583	175.06	99.87
03/16/2004	07:43:01	0.49583	25.14	76.92	03/16/2004	09:14:01	2.01250	175.02	99.87
03/16/2004	07:44:01	0.51250	25.17	76.89	03/16/2004	09:15:01	2.02917	175.03	99.87
03/16/2004	07:45:01	0.52917	25.22	76.84	03/16/2004	09:16:01	2.04583	175.04	99.87
RIH Gauges					03/16/2004	09:17:01	2.06250	175.09	99.87
03/16/2004	07:46:01	0.54583	25.59	76.04	03/16/2004	09:18:01	2.07917	175.14	99.87
03/16/2004	07:47:01	0.56250	26.15	74.51	03/16/2004	09:19:01	2.09583	175.11	99.87
03/16/2004	07:48:01	0.57917	26.56	74.92	03/16/2004	09:20:01	2.11250	175.14	99.87
03/16/2004	07:49:01	0.59583	27.04	76.34	03/16/2004	09:21:01	2.12917	175.11	99.87
03/16/2004	07:50:01	0.61250	27.51	78.16	03/16/2004	09:22:01	2.14583	175.13	99.87
03/16/2004	07:51:01	0.62917	84.54	85.08	03/16/2004	09:23:01	2.16250	175.12	99.87
03/16/2004	07:52:01	0.64583	165.17	94.33	03/16/2004	09:24:01	2.17917	175.20	99.87
Gauges at 5160'					03/16/2004	09:25:01	2.19583	175.21	99.87
03/16/2004	07:53:01	0.66250	177.65	97.51	03/16/2004	09:26:01	2.21250	175.19	99.87
03/16/2004	07:54:01	0.67917	177.63	97.96	03/16/2004	09:27:01	2.22917	175.21	99.87
03/16/2004	07:55:01	0.69583	177.60	98.39	03/16/2004	09:28:01	2.24583	175.21	99.87
Bleed off well to tank for 03 hrs.					03/16/2004	09:29:01	2.26250	175.20	99.87
03/16/2004	07:56:01	0.71250	174.51	98.74	03/16/2004	09:30:01	2.27917	175.20	99.87
03/16/2004	07:57:01	0.72917	171.51	99.05	03/16/2004	09:31:01	2.29583	175.26	99.87
03/16/2004	07:58:01	0.74583	170.31	99.26	03/16/2004	09:32:01	2.31250	175.28	99.87
03/16/2004	07:59:01	0.76250	170.16	99.39	03/16/2004	09:33:01	2.32917	175.27	99.87
03/16/2004	08:00:01	0.77917	170.59	99.50	03/16/2004	09:34:01	2.34583	175.29	99.87
03/16/2004	08:01:01	0.79583	170.98	99.60	03/16/2004	09:35:01	2.36250	175.28	99.87
03/16/2004	08:02:01	0.81250	171.29	99.67	03/16/2004	09:36:01	2.37917	175.32	99.87
03/16/2004	08:03:01	0.82917	171.61	99.72	03/16/2004	09:37:01	2.39583	175.31	99.87
03/16/2004	08:04:01	0.84583	171.82	99.76	03/16/2004	09:38:01	2.41250	175.40	99.87
03/16/2004	08:05:01	0.86250	172.09	99.79	03/16/2004	09:39:01	2.42917	175.39	99.87
03/16/2004	08:06:01	0.87917	172.26	99.81	03/16/2004	09:40:01	2.44583	175.41	99.87
03/16/2004	08:07:01	0.89583	172.46	99.83	03/16/2004	09:41:01	2.46250	175.36	99.87

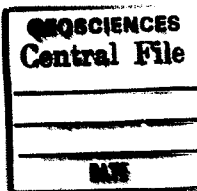
SEQUENCES
Central File

Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)	Date	Time	Elapsed Time (hrs)	Pressure (psia)	Temperature (°F)
03/16/2004	09:42:01	2.47917	175.39	99.87	03/16/2004	11:13:01	3.99583	41.40	95.88
03/16/2004	09:43:01	2.49583	175.38	99.87	03/16/2004	11:14:01	4.01250	41.05	95.38
03/16/2004	09:44:01	2.51250	175.45	99.87	03/16/2004	11:15:01	4.02917	41.11	95.20
03/16/2004	09:45:01	2.52917	175.48	99.87	03/16/2004	11:16:01	4.04583	41.08	95.13
03/16/2004	09:46:01	2.54583	175.44	99.87	Step at 4400'				
03/16/2004	09:47:01	2.56250	175.44	99.87	03/16/2004	11:17:01	4.06250	15.80	94.87
03/16/2004	09:48:01	2.57917	175.48	99.87	03/16/2004	11:18:01	4.07917	15.78	94.81
03/16/2004	09:49:01	2.59583	175.51	99.87	03/16/2004	11:19:01	4.09583	15.80	94.77
03/16/2004	09:50:01	2.61250	175.53	99.87	03/16/2004	11:20:01	4.11250	15.81	94.73
03/16/2004	09:51:01	2.62917	175.49	99.87	Step at 4200'				
03/16/2004	09:52:01	2.64583	175.51	99.87	03/16/2004	11:21:01	4.12917	15.76	94.72
03/16/2004	09:53:01	2.66250	175.52	99.87	03/16/2004	11:22:01	4.14583	15.71	94.64
03/16/2004	09:54:01	2.67917	175.57	99.87	03/16/2004	11:23:01	4.16250	15.74	94.54
03/16/2004	09:55:01	2.69583	175.55	99.87	Step at 4000'				
03/16/2004	09:56:01	2.71250	175.58	99.87	03/16/2004	11:24:01	4.17917	15.67	94.46
03/16/2004	09:57:01	2.72917	175.57	99.87	03/16/2004	11:25:01	4.19583	15.65	94.33
03/16/2004	09:58:01	2.74583	175.58	99.87	03/16/2004	11:26:01	4.21250	15.68	94.14
03/16/2004	09:59:01	2.76250	175.64	99.87	03/16/2004	11:27:01	4.22917	15.62	93.97
03/16/2004	10:00:01	2.77917	175.62	99.87	Step at 3800'				
03/16/2004	10:01:01	2.79583	175.66	99.87	03/16/2004	11:28:01	4.24583	15.55	93.81
03/16/2004	10:02:01	2.81250	175.67	99.87	03/16/2004	11:29:01	4.26250	15.58	93.58
03/16/2004	10:03:01	2.82917	175.71	99.87	03/16/2004	11:30:01	4.27917	15.55	93.24
03/16/2004	10:04:01	2.84583	175.70	99.87	03/16/2004	11:31:01	4.29583	15.59	92.93
03/16/2004	10:05:01	2.86250	175.70	99.87	Step at 3200'				
03/16/2004	10:06:01	2.87917	175.72	99.87	03/16/2004	11:32:01	4.31250	15.46	92.63
03/16/2004	10:07:01	2.89583	175.69	99.87	03/16/2004	11:33:01	4.32917	15.48	92.27
03/16/2004	10:08:01	2.91250	175.75	99.87	03/16/2004	11:34:01	4.34583	15.47	91.84
03/16/2004	10:09:01	2.92917	175.78	99.87	03/16/2004	11:35:01	4.36250	15.49	91.43
03/16/2004	10:10:01	2.94583	175.81	99.87	Step at 2800'				
03/16/2004	10:11:01	2.96250	175.82	99.87	03/16/2004	11:36:01	4.37917	15.34	91.02
03/16/2004	10:12:01	2.97917	175.81	99.87	03/16/2004	11:37:01	4.39583	15.35	90.54
03/16/2004	10:13:01	2.99583	175.81	99.87	03/16/2004	11:38:01	4.41250	15.35	89.98
03/16/2004	10:14:01	3.01250	175.79	99.87	03/16/2004	11:39:01	4.42917	15.36	89.41
03/16/2004	10:15:01	3.02917	175.87	99.87	Step at 2400'				
03/16/2004	10:16:01	3.04583	175.86	99.87	03/16/2004	11:40:01	4.44583	15.22	88.91
03/16/2004	10:17:01	3.06250	175.87	99.87	03/16/2004	11:41:01	4.46250	15.27	88.38
03/16/2004	10:18:01	3.07917	175.85	99.87	03/16/2004	11:42:01	4.47917	15.23	87.79
03/16/2004	10:19:01	3.09583	175.88	99.87	03/16/2004	11:43:01	4.49583	15.16	87.22
03/16/2004	10:20:01	3.11250	175.91	99.87	Step at 2000'				
03/16/2004	10:21:01	3.12917	175.98	99.87	03/16/2004	11:44:01	4.51250	15.11	86.87
03/16/2004	10:22:01	3.14583	175.92	99.87	03/16/2004	11:45:01	4.52917	15.11	85.94
03/16/2004	10:23:01	3.16250	175.97	99.87	03/16/2004	11:46:01	4.54583	15.09	85.22
03/16/2004	10:24:01	3.17917	176.01	99.87	03/16/2004	11:47:01	4.56250	15.09	84.52
03/16/2004	10:25:01	3.19583	175.97	99.87	Step at 1500'				
03/16/2004	10:26:01	3.21250	176.05	99.87	03/16/2004	11:48:01	4.57917	15.00	83.02
03/16/2004	10:27:01	3.22917	175.98	99.87	03/16/2004	11:49:01	4.59583	14.93	81.91
03/16/2004	10:28:01	3.24583	176.00	99.87	03/16/2004	11:50:01	4.61250	14.88	81.26
03/16/2004	10:29:01	3.26250	176.00	99.87	03/16/2004	11:51:01	4.62917	14.84	80.61
03/16/2004	10:30:01	3.27917	176.06	99.87	Step at 1000'				
03/16/2004	10:31:01	3.29583	176.07	99.87	03/16/2004	11:52:01	4.64583	14.70	78.97
03/16/2004	10:32:01	3.31250	176.08	99.87	03/16/2004	11:53:01	4.66250	14.60	78.58
03/16/2004	10:33:01	3.32917	176.11	99.87	03/16/2004	11:54:01	4.67917	14.55	78.25
03/16/2004	10:34:01	3.34583	176.08	99.87	03/16/2004	11:55:01	4.69583	14.57	77.93
03/16/2004	10:35:01	3.36250	176.10	99.87	03/16/2004	11:56:01	4.71250	14.53	77.63
03/16/2004	10:36:01	3.37917	176.11	99.87	03/16/2004	11:57:01	4.72917	14.30	77.13
03/16/2004	10:37:01	3.39583	176.14	99.86	03/16/2004	11:58:01	4.74583	14.18	76.59
03/16/2004	10:38:01	3.41250	176.15	99.87	Step at 0'				
03/16/2004	10:39:01	3.42917	176.14	99.86	03/16/2004	11:59:01	4.76250	14.14	76.68
03/16/2004	10:40:01	3.44583	176.21	99.87	03/16/2004	12:00:01	4.77917	14.15	76.88
03/16/2004	10:41:01	3.46250	176.17	99.87	03/16/2004	12:01:01	4.79583	14.10	77.09
03/16/2004	10:42:01	3.47917	176.21	99.86	03/16/2004	12:02:01	4.81250	14.14	77.26
03/16/2004	10:43:01	3.49583	176.18	99.86	03/16/2004	12:03:01	4.82917	14.12	77.08
03/16/2004	10:44:01	3.51250	176.16	99.86	03/16/2004	12:04:01	4.84583	14.09	76.85
03/16/2004	10:45:01	3.52917	176.29	99.86	03/16/2004	12:05:01	4.86250	14.11	76.70
03/16/2004	10:46:01	3.54583	176.25	99.86	03/16/2004	12:06:01	4.87917	14.08	76.49
03/16/2004	10:47:01	3.56250	176.25	99.86	03/16/2004	12:07:01	4.89583	14.08	76.52
03/16/2004	10:48:01	3.57917	176.27	99.86	03/16/2004	12:08:01	4.91250	14.08	77.87
03/16/2004	10:49:01	3.59583	176.26	99.86	Desactivate				
03/16/2004	10:50:01	3.61250	176.23	99.86	03/16/2004	12:09:01	4.92917	14.14	78.61
03/16/2004	10:51:01	3.62917	176.37	99.86					
03/16/2004	10:52:01	3.64583	176.34	99.86					
03/16/2004	10:53:01	3.66250	176.36	99.86					
03/16/2004	10:54:01	3.67917	176.40	99.86					
03/16/2004	10:55:01	3.69583	176.34	99.86					
03/16/2004	10:56:01	3.71250	176.47	99.86					
03/16/2004	10:57:01	3.72917	176.47	99.86					
03/16/2004	10:58:01	3.74583	176.47	99.86					
03/16/2004	10:59:01	3.76250	176.48	99.86					
POOH Gauges. Step at 5160'									
03/16/2004	11:00:01	3.77917	157.05	99.58					
03/16/2004	11:01:01	3.79583	157.12	99.39					
03/16/2004	11:02:01	3.81250	157.13	99.32					
Step at 5000'									
03/16/2004	11:03:01	3.82917	130.62	99.22					
03/16/2004	11:04:01	3.84583	130.13	98.57					
03/16/2004	11:05:01	3.86250	130.18	98.25					
Step at 4900'									
03/16/2004	11:06:01	3.87917	106.62	97.93					
03/16/2004	11:07:01	3.89583	106.52	97.57					
03/16/2004	11:08:01	3.91250	106.52	97.43					
03/16/2004	11:09:01	3.92917	86.66	97.33					
Step at 4800'									
03/16/2004	11:10:01	3.94583	84.22	96.71					
03/16/2004	11:11:01	3.96250	84.23	96.42					
03/16/2004	11:12:01	3.97917	84.20	96.32					

GEOSCIENCES
Central Fil.

DATE

ANEXO 3



WELL TESTING PROCEDURE

Well	LOG-6
Type	CSE 5 1/2"
Shut in time before test	—

Area	LOBITOS OFFSHORE
Formation Test:	RIO BRAVO 4794'-5182'
Interval	

Stages job	Flowing gradient		Static gradient		Build Up	
	Yes	No	Yes	No	Yes	No
Cut paraffin		✓				
Fish standing valve		✓				
Sand top	✓					
Logging down flowing gradient		✓				
Logging up flowing gradient	✓					
Recording bottom hole pressure flowing by 3 hrs	✓					
Recording Build Up pressure by hrs		✓				
Recording bottom hole pressure static by hrs.		✓				
Logging down static gradient		✓				
Logging up static gradient		✓				
Take measure well head pressure (tubing/annulus)	✓					
Reset standing valve		✓				

Project to be charged : Monitoring Well

Gauge depth @ 5170 feet.
Sampling rate.....(Minimum 4 point/minute)
Step reading time.....(Minimum 4 minute/step)

Luis Gutierrez R.
 Operation Engineer

MARCIAL CORDERO BUSTINZA
 Wireline Supervisor