



Well Name : **LO6-31D**
Field : **Lobitos Onshore**
Type of Well : **Development**
Rig N° : **Pepesa 40**

Well Head
N (m) : 9 508 651.50
E (m) : 459 047.72
KB (ft) : 50
Water Depth (ft) : 335

Deviated well
Direction : S 57.03° W
Max Angle : 59.21°
KOP (ft) : 600'
Build up angle at : 4°/100'

Formation Top	PROGNOSIS (ft)			PROVISIONAL (ft) *			Delta TVDss**	Observations
	MD	TVD	TVDss	MD	TVD	TVDss		
TALARA	From sea bottom			From sea bottom				
CHACRA	3045	2300	-2250	3125	2356	-2306	-56	
RIO BRAVO	5175	3390	-3340	5087	3268	-3218	122	Main Target
RIO BRAVO Shaly	8320	5200	-5150	7489	4568	-4518	632	
TD	8544	5350	-5300	7668	4688	-4638	662	

* Provisional tops are defined while drilling and therefore will be confirmed later on by E-logs and Paleontology.

** In deviated wells, the difference between prognosis and the actual top might be influenced by the drift from the deviation plan.

LO6-31D MWD Phoenix-Weatherford Survey Report

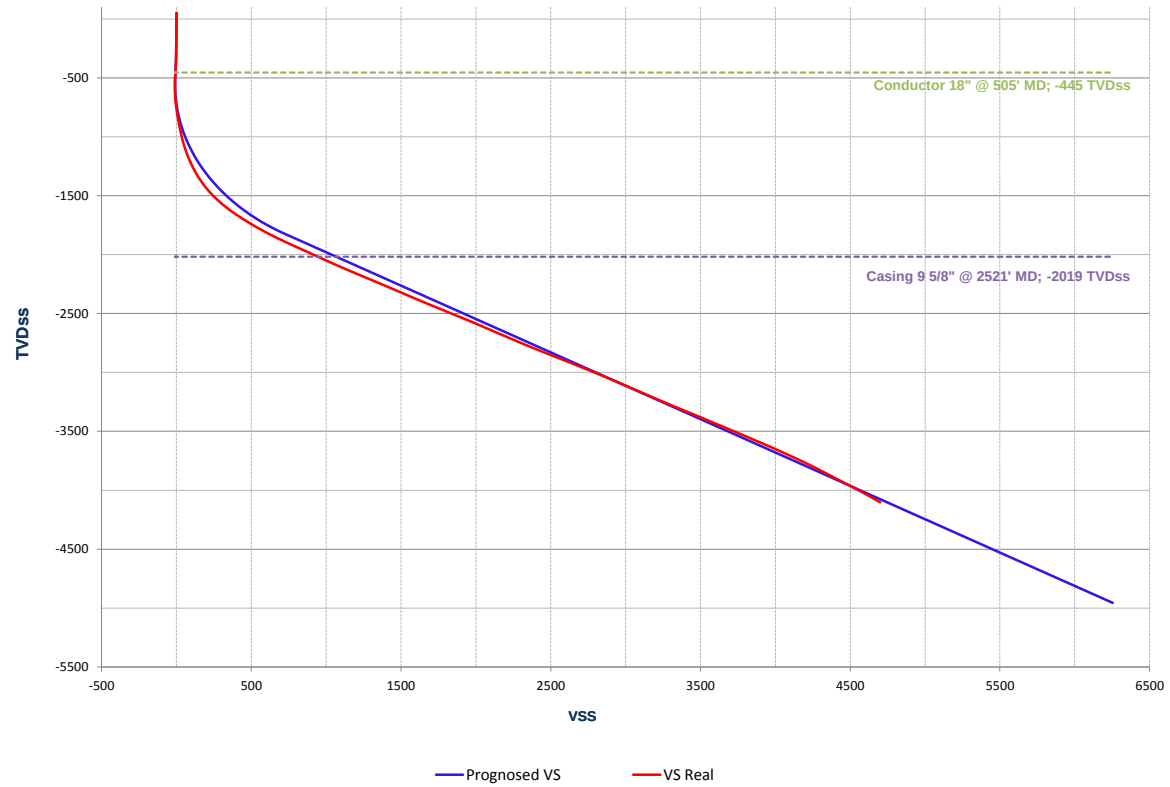
Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	NS (ft)	EW (ft)	Vertical Section (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)
TIE IN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gyro Survey	375.00	1.75	355.70	374.94	5.71	-0.43	-2.75	5.73	355.70	0.47
Gyro Survey	432.00	2.64	20.64	431.90	7.81	-0.03	-4.22	7.81	359.77	2.26
Gyro Survey	494.00	2.73	29.71	493.83	10.43	1.20	-6.68	10.49	6.58	0.70
Gyro Survey	510.00	2.34	23.30	509.82	11.06	1.52	-7.29	11.16	7.83	3.01
Gyro Survey	540.00	2.44	23.88	539.79	12.20	2.02	-8.34	12.37	9.41	0.34
Gyro Survey	572.00	1.51	40.32	571.77	13.15	2.57	-9.31	13.40	11.06	3.37
Gyro Survey	600.00	1.19	84.04	599.76	13.46	3.10	-9.92	13.81	12.97	3.74
Gyro Survey	636.00	1.36	140.69	635.76	13.17	3.74	-10.30	13.69	15.86	3.39
Gyro Survey	655.00	1.75	166.75	654.75	12.71	3.95	-10.23	13.31	17.27	4.20
Gyro Survey	681.00	3.15	179.24	680.73	11.61	4.05	-9.72	12.30	19.24	5.73
Gyro Survey	711.00	4.44	188.37	710.66	9.64	3.89	-8.51	10.39	22.00	4.74
Gyro Survey	743.00	5.69	189.44	742.53	6.85	3.45	-6.62	7.67	26.76	3.92
Gyro Survey	772.00	7.34	191.93	771.35	3.61	2.83	-4.34	4.59	38.09	5.77
Gyro Survey	868.00	11.22	187.74	866.07	-11.65	0.31	6.08	11.65	178.49	4.10
Gyro Survey	963.00	13.97	185.82	958.78	-32.22	-2.10	19.29	32.28	183.73	2.93
Gyro Survey	1058.00	15.89	188.86	1050.57	-56.48	-5.27	35.15	56.72	185.33	2.18
First MWD-GR 12 1/4" Phoenix Survey	1106.00	17.30	190.50	1096.57	-69.99	-7.58	44.45	70.40	186.18	3.10
	1205.00	22.10	194.40	1189.75	-102.52	-14.90	68.29	103.60	188.27	5.02
	1298.00	25.60	196.70	1274.80	-138.72	-25.03	96.49	140.96	190.23	3.89
	1393.00	29.70	198.20	1358.93	-180.75	-38.28	130.48	184.76	191.96	4.38
	1485.00	34.70	201.90	1436.76	-226.74	-55.18	169.68	233.35	193.68	5.84
	1581.00	38.90	207.40	1513.64	-278.89	-79.26	218.27	289.93	195.87	5.56
	1679.00	43.30	211.60	1587.48	-334.87	-111.05	275.40	352.80	198.35	5.30
	1771.00	47.40	216.10	1652.14	-389.13	-147.56	335.56	416.17	200.77	5.65
	1866.00	51.00	220.30	1714.22	-445.57	-192.06	403.61	485.20	203.32	5.05
	1962.00	52.90	224.30	1773.40	-501.44	-242.94	476.70	557.19	205.85	3.83
	2059.00	54.90	226.60	1830.56	-556.40	-298.80	553.47	631.55	208.24	2.81
	2151.00	57.60	229.80	1881.68	-607.34	-355.83	629.04	703.91	210.37	4.12
	2246.00	58.90	233.30	1931.68	-657.55	-419.09	709.44	779.75	212.51	3.42
	2341.00	60.10	237.50	1979.91	-704.00	-486.45	791.23	855.72	214.64	4.01
	2436.00	60.70	242.10	2026.85	-745.53	-557.82	873.70	931.11	216.80	4.26
Last MWD-GR 12 1/4" Phoenix Survey	2451.00	60.70	243.10	2034.19	-751.55	-569.43	886.72	942.91	217.15	5.81
First MWD-GR 8 1/2" WFT Survey	2578.87	60.27	242.37	2097.41	-802.44	-667.93	994.87	1044.05	219.77	0.60
	2673.48	61.01	243.75	2143.79	-839.80	-741.44	1076.92	1120.26	221.44	1.49
	2768.39	62.17	246.79	2188.96	-874.70	-817.25	1159.60	1197.08	223.06	3.07
	2863.04	62.30	246.28	2233.05	-908.05	-894.08	1242.30	1274.34	224.56	0.50
	2957.91	61.92	245.79	2277.43	-942.11	-970.70	1325.21	1352.71	225.86	0.61
	3052.41	62.03	245.90	2321.83	-976.25	-1046.81	1407.73	1431.39	227.00	0.16
	3147.90	61.90	246.12	2366.71	-1010.51	-1123.82	1491.07	1511.33	228.04	0.24
	3243.45	61.29	246.49	2412.16	-1044.29	-1200.78	1574.11	1591.36	228.99	0.72
	3338.07	63.08	246.76	2456.31	-1077.49	-1277.59	1656.72	1671.30	229.86	1.91
	3432.54	62.43	247.13	2499.56	-1110.38	-1354.87	1739.55	1751.75	230.66	0.77
	3526.90	63.00	245.51	2542.82	-1144.06	-1431.67	1822.40	1832.64	231.37	1.64
	3621.98	62.63	245.31	2586.26	-1179.26	-1508.58	1906.16	1914.80	231.99	0.43
	3717.69	62.17	244.97	2630.60	-1214.92	-1585.54	1990.21	1997.48	232.54	0.57
	3810.86	61.14	244.53	2674.84	-1249.89	-1659.70	2071.54	2077.70	233.02	1.18
	3903.85	61.72	246.96	2719.31	-1283.43	-1734.15	2152.34	2157.42	233.50	2.38
	3997.84	62.01	247.08	2763.63	-1315.79	-1810.46	2234.06	2238.09	233.99	0.33
	4093.01	62.29	247.38	2808.09	-1348.36	-1888.05	2316.98	2320.08	234.47	0.41
	4187.63	63.15	246.67	2851.46	-1381.19	-1965.47	2399.90	2402.24	234.90	1.13
	4282.27	63.41	244.35	2894.02	-1416.23	-2042.39	2483.59	2485.37	235.26	2.21
	4376.83	63.84	244.60	2936.03	-1452.73	-2118.84	2567.67	2569.03	235.56	0.51
	4471.06	63.22	243.67	2978.03	-1489.53	-2194.74	2651.44	2652.46	235.84	1.10
	4565.13	62.90	242.46	3020.65	-1527.51	-2269.50	2734.89	2735.68	236.06	1.20
	4659.23	62.52	241.02	3063.79	-1567.10	-2343.16	2818.28	2818.90	236.23	1.42
	4753.40	61.24	240.75	3108.18	-1607.51	-2415.72	2901.18	2901.69	236.36	1.38
	4846.93	61.48	239.93	3153.01	-1648.13	-2487.05	2983.16	2983.58	236.47	0.81
	4942.07	61.25	239.56	3198.60	-1690.21	-2559.18	3066.59	3066.95	236.56	0.42
	5037.83	61.10	239.50	3244.77	-1732.75	-2631.49	3150.43	3150.74	236.64	0.17
	5131.33	62.00	240.25	3289.31	-1774.01	-2702.59	3232.57	3232.81	236.72	1.19
	5225.58	62.06	239.85	3333.52	-1815.56	-2774.71	3315.72	3315.92	236.80	0.38
	5319.66	62.43	239.47	3377.33	-1857.62	-2846.57	3398.91	3399.07	236.87	0.53
	5413.45	62.04	238.98	3421.02	-1900.08	-2917.87	3481.86	3481.99	236.93	0.62
	5507.52	61.86	238.99	3465.26	-1942.86	-2989.02	3564.85	3564.96	236.98	0.19
	5602.00	62.28	238.90	3509.51	-1985.92	-3060.53	3648.30	3648.39	237.02	0.45
	5697.03	61.62	238.49	3554.20	-2029.50	-3132.19	3732.14	3732.22	237.06	0.79
	5790.76	61.77	239.04	3598.64	-2072.29	-3202.75	3814.64	3814.71	237.10	0.54
	5885.97	61.30	237.69	3644.02	-2116.19	-3274.01	3898.33	3898.39	237.12	1.34
	5981.15	61.03	237.07	3689.93	-2161.13	-3344.24	3981.71	3981.76	237.13	0.64
	6076.19	59.61	236.96	3736.98	-2206.08	-3413.50	4064.27	4064.33	237.13	1.50
	6171.86	59.83	237.14	3785.22	-2251.02	-3482.83	4146.89	4146.95	237.12	0.28
	6267.01	57.85	237.45	3834.46	-2295.01	-3551.34	4228.31	4228.37	237.13	2.10
	6362.04	56.31	237.82	3886.10	-2337.72	-3618.71	4308.08	4308.13	237.14	1.65
	6457.25	56.53	238.03	3938.76	-2379.84	-3685.93	4387.39	4387.45	237.15	0.30
	6552.40	57.07	238.53	3990.86	-2421.70	-3753.65	4467.00	4467.05	237.17	0.72
	6647.52	55.80	238.14	4043.45	-2463.30	-3821.11	4546.25	4546.29	237.19	1.38
	6741.61	55.04	237.82	4096.85	-2504.37	-3886.79	4623.71	4623.75	237.21	0.85
	6836.29	53.34	238.28	4152.25	-2545.01	-3951.94	4700.49	4700.52	237.22	1.84
	6930.63	51.69	237.77	4209.66	-2584.64	-4015.44	4775.34	4775.37	237.23	1.80

	7002.36	51.41	237.68	4254.26	-2614.64	-4062.94	4831.52	4831.54	237.24	0.40
	7097.54	51.26	238.37	4313.73	-2654.00	-4125.98	4905.83	4905.85	237.25	0.59
	7191.59	49.65	238.45	4373.60	-2691.99	-4187.75	4978.34	4978.36	237.27	1.71
	7286.15	49.16	238.85	4435.13	-2729.34	-4249.07	5050.12	5050.14	237.29	0.61
	7380.56	49.01	238.49	4496.97	-2766.44	-4310.01	5121.45	5121.46	237.31	0.33
	7476.24	48.54	238.05	4560.02	-2804.28	-4371.22	5193.41	5193.42	237.32	0.60
	7570.24	48.24	237.59	4622.44	-2841.71	-4430.71	5263.69	5263.70	237.33	0.49
	7602.00	48.02	237.90	4643.64	-2854.34	-4450.71	5287.34	5287.35	237.33	1.00
Last MWD-GR 8 1/2" WFT Survey	7668.00	47.72	238.47	4687.92	-2880.14	-4492.30	5336.28	5336.29	237.33	0.79
Projection to bottom										



WELL PATH

LO6-31D

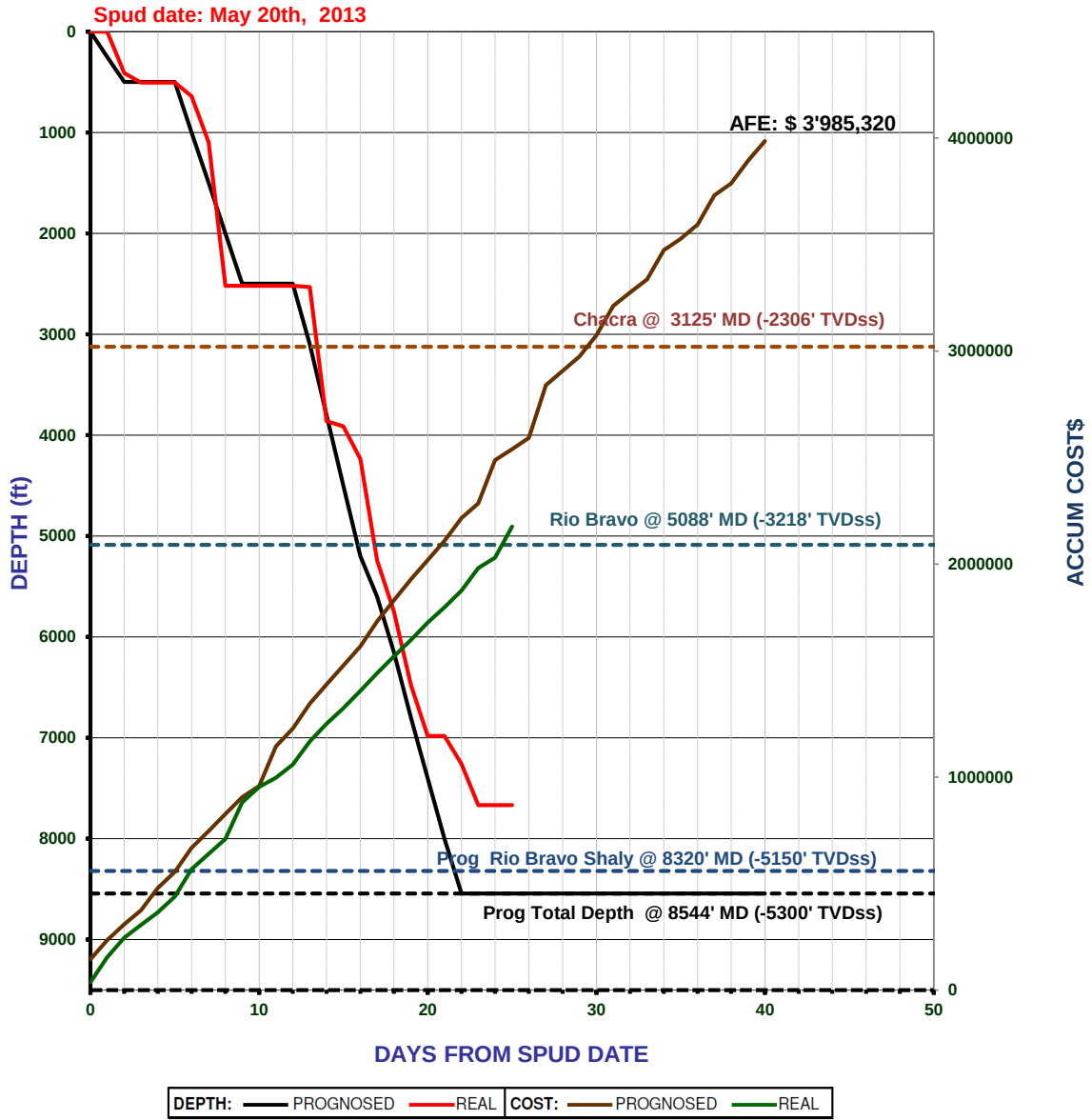




SAVIA
PERÚ

DRILLING PROGRESS CURVE

WELL : LO6-31D




SAVIA
PERÚ

LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	24-May-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	25-May-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	505	PROGRESS 00h00-24h00 (ft):	137
Depth @ 24h00 (ft):	642	COND: 18"	505
Depth @ 06h00 (ft):	726	DRILLING DAYS:	5

Operations summary:

Pepesa M/U 25 stands 5" DP. M/U & TIH conventional BHA with 12 1/4" tricone bit. Tag TOC (top of cement) @ 485'. DOC (drill out cement) from 485' to 505' MD. Ream & circulated. Drilled rotating from 505' to 507' MD, no debris. Circulated sample for geology to confirm formation. Displaced sea water by mud 8.8 ppg. Resumed drilling formation from 507' to 520' MD. Circulated, POOH, L/D conventional BHA & tricone bit. M/U & TIH directional BHA with new 12 1/4" PDC bit. Circulated & conditioned mud. Resumed directional drill from 520' to 642' MD. Took Gyro orientation survey every joint.

Present operations:

Taking Gyro survey.

Forecast operations:

Continue directional drill with 12 1/4" PDC bit & take Gyro Surveys, POOH install MWD, TIH 12 1/4" PDC bit and drill with directional.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	505 - 710	118	50		40	10					NF	CLYST: md dk gy, md gy, loc olive gy, blk/sbblk, occ irr, md frm/md sft, micmic, micarb, sl calc, earthy surf. SST: md gy, md dk gy, 100% vf/f, hyal, smky, dk lith grns i/p, sb ang/sb rnd, w srt, scarce arg mtx, cal cmt, md cons/md fri, loc tight, p vis por. SD: wh, hyal, 100% vf/f, sbang/sbrnd, w srt. TG: 1 C1: 83 C2: 0 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 9.0
Viscosity (sec): 48.0
Filtrate (ml): 6.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

So far have drilled @ 221' MD (171' TVDss), within mainly Sandstone & Sand (predominantly vf/f) sequences, with Claystone interbedded Talara Fm. Wellsite Geologist arrived to location at 20:45 hrs, 24/05/2013. Mudlogging TGTALAB 100% ready.

Well Cost:

AFE	3 985 620	US\$
DAILY	127 812	US\$
CUMULATED	567 422	US\$



REPORT N° 2

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 642
Depth @ 24h00 (ft): 1096
Depth @ 06h00 (ft): 1462

OPERATIONS DATE : 25-May-13
REPORT DATE : 26-May-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 454
COND: 18" 505
DRILLING DAYS: 6

Operations summary:

Drilled rotating & sliding with 12 1/4" PDC bit from 642' to 1096' MD. Circulated. Took last Gyrodata survey @ 1058' MD incl 15.89 deg, azm 188.66 deg. POOH L/D UBHO. TIH directional BHA with same PDC bit & MWD tools to 584' MD.

Present operations:

Drilling Sliding at 1600' MD.

Forecast operations:

Drill ahead 12 1/4" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	710 - 800	174	100								NF	CLYST: md dk gy, md gy, loc olive gy, blk/sbblky, occ irr, md frm/md sft, micmic, micarb, sl calc, earthy surf. SST: md gy, md dk gy, 100% vf/f, hyal, smky, dk lith grns i/p, sb ang/sb rnd, w srt, scarce arg mtb, cal cmt, md cons/md fri, loc tight, p vis por. SD: wh, hyal, 100% vf/f, sbang/sbrnd, w srt. TG: 1 C1: 126 C2: 0 C3: 0 C4: 0 C5: 0
TALARA	800 - 1460	246	40		40	20					NF	CLYST: md dk gy, gy, loc olive gy, blk/sbblky, occ sb tab, frm/md frm, md sft i/p, rr sol, micmic, miccarb, calc, earthy surf, loc slty. TG: 7 C1: 659 C2: 0 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
375.00	1.75	355.70	374.94	-324.94	5.73	5.71	-0.43
432.00	2.64	20.64	431.90	-381.90	7.81	7.81	-0.03
494.00	2.73	29.71	493.83	-443.83	10.49	10.43	1.20
510.00	2.34	23.30	509.82	-459.82	11.16	11.06	1.52
540.00	2.44	23.88	539.79	-489.79	12.37	12.20	2.02
572.00	1.51	40.32	571.77	-521.77	13.40	13.15	2.57
600.00	1.19	84.04	599.76	-549.76	13.81	13.46	3.10
636.00	1.36	140.69	635.76	-585.76	13.69	13.17	3.74
655.00	1.75	166.75	654.75	-604.75	13.31	12.71	3.95
681.00	3.15	179.24	680.73	-630.73	12.30	11.61	4.05
711.00	4.44	188.37	710.66	-660.66	10.39	9.64	3.89
743.00	5.69	189.44	742.53	-692.53	7.67	6.85	3.45
772.00	7.34	191.93	771.35	-721.35	4.59	3.61	2.83
868.00	11.22	187.74	866.07	-816.07	11.65	-11.65	0.31
963.00	13.97	185.82	958.78	-908.78	32.28	-32.22	-2.10
1058.00	15.89	188.86	1050.57	-1000.57	56.72	-56.48	-5.27
1106.00	17.30	190.50	1096.57	-1046.57	70.40	-69.99	-7.58
1205.00	22.10	194.40	1189.75	-1139.75	103.60	-102.52	-14.90
1298.00	25.60	196.70	1274.80	-1224.80	140.96	-138.72	-25.03
1393.00	29.70	198.20	1358.93	-1308.93	184.76	-180.75	-38.28
1485.00	34.70	201.90	1436.76	-1386.76	233.35	-226.74	-55.18

Mud information:

Type: WBAC
Mud Weight (ppg): 9.5
Viscosity (sec): 50.0
Filtrate (ml): 6.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

So far have drilled @ 1095' MD (1035' TVDss), within mainly Claystone sequences from @ 770' MD Talara Fm. Back ground gas readings @ 7 units (C1) & up to 24 units (C1) as conection gas at 1366' MD. Last Sample 1550' MD 100% Clyst. IT have to change e-mail well name LO6-28D by LO6-31D. Resume drilling after add MWD tolos to BHA @ 01:00 hrs today.

Well Cost:

AFE	3 985 620	US\$
DAILY	71 725	US\$
CUMULATED	639 147	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
 Mud Loggers: G. Cardoza/E. Santisteban
 Rig Contractor: RIG 40
 Depth @ 00h00 (ft): 1096
 Depth @ 24h00 (ft): 2521
 Depth @ 06h00 (ft): 2521

OPERATIONS DATE : 26-May-13
 REPORT DATE : 27-May-13
 SPUD DATE: 20-May-13
 PROGRESS 00h00-24h00 (ft): 1425
 COND: 18" 505
 DRILLING DAYS: 7

Operations summary:

Continued TIH from 584' to 1096' MD. Resumed directional drill sliding & rotating from 1096' to 2521' MD. Circulated & condition hole to shakers clean.

Present operations:

M/U conventional BHA with tricone bit to condition hole for running 9 5/8" csg.

Forecast operations:

RIH, condition hole, POOH, run 9 5/8" csg.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	1460 - 2300	206	100								NF	CLYST: md gy, md dk gy, olive gy i/p, sbbkly/bkly, occ sbtab, rr sb lam, frm/md v frm, occ w pyr & coal incl, micmic, miccarb, v sl/non calc, sl earthy surf, occ slty. TG: 11 C1: 1045 C2: 3 C3: 0 C4: 0 C5: 0
TALARA	2300 - 2390	164	80			20					NF	CLYST: md dk gy, olive gy, rr brn'sh gy, bkly/sbbky, occ sblam/sbtab, frm/md frm, micmic, miccarb, v sl/non calc, w coal incl i/p, sl earthy surf, slty i/p. SD: hyal, smky, wh i/p, 80% vf/f, 20% m, sbang/sbrnd, w srt. TG: 58 C1: 5477 C2: 71 C3: 34 C4: 8 C5: 0
TALARA	2390 - 2520	196	100								NF	CLYST: md dk gy, olive gy, loc olive dk gy, bkly/sbbkly, irr i/p, frm/md frm, micmic, miccarb, non calc, earthy surf, slty i/p. TG: 9 C1: 755 C2: 50 C3: 10 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1581.00	38.90	207.40	1513.64	-1463.64	289.93	-278.89	-79.26
1679.00	43.30	211.60	1587.48	-1537.48	352.80	-334.87	-111.05
1771.00	47.40	216.10	1652.14	-1602.14	416.17	-389.13	-147.56
1866.00	51.00	220.30	1714.22	-1664.22	485.20	-445.57	-192.06
1962.00	52.90	224.30	1773.40	-1723.40	557.19	-501.44	-242.94
2059.00	54.90	226.60	1830.56	-1780.56	631.55	-556.40	-298.80
2151.00	57.60	229.80	1881.68	-1831.68	703.91	-607.34	-355.83
2246.00	58.90	233.30	1931.68	-1881.68	779.75	-657.55	-419.09
2341.00	60.10	237.50	1979.91	-1929.91	855.72	-704.00	-486.45
2436.00	60.70	242.10	2026.85	-1976.85	931.11	-745.53	-557.82
2451.00	60.70	243.10	2034.19	-1984.19	942.91	-751.55	-569.43
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Mud information:

Type: WBAC
 Mud Weight (ppg): 10.1
 Viscosity (sec): 51.0
 Filtrate (ml): 6.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

So far have drilled @ 2015' MD (1563' TVDss), within mainly Claystone sequences from @ 770' MD Talara Fm. Back ground gas readings @ 13 units (C1) & up to 114 units (C1) as formation gas at 2362' MD. Last Sample 2520' MD 100% Clyst. IT have to change e-mail well name LO6-28D by LO6-31D. Due fast ROP @ 200 ft/hr (average sliding & rotating) GR readings with gaps interpolated, Phoenix MWD tool memory recorded mode non available to avoid gaps.

Well Cost:

AFE	3 985 620	US\$
DAILY	69 995	US\$
CUMULATED	709 142	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	27-May-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	28-May-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	2521	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2521	COND: 18"	505
Depth @ 06h00 (ft):	2521	DRILLING DAYS:	8

Operations summary:

POOH & L/D directional BHA with 12 1/4" PDC. M/U & RIH slick BHA with 12 1/4" rr tricone bit to 2521' MD. Circulated & conditioned hole to run 9 5/8" csg, POOH & L/D slick BHA. Pepesa changed links on top drive, R/D Pepesa hydraulic tong. R/U ITS hydraulic tong, install links 18 ft & spider. P/U to platform 2 csg joints, installed 9 5/8" shoe & float valve. Performed safety meeting. M/U 9 5/8" shoe, 2 csg joints, float valve at 77'. RIH 9 5/8" casing from 77' to 1045' MD.

Present operations:

Install bottom & top plugs in cement head to perform cement job.

Forecast operations:

Perform cement job, WOC (wait on cement) install christmas section, work on BOPs.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 10.1
Viscosity (sec): 50.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

Probably after work on BOPs for 8 1/2" section, change Savia's Linkbelt crane by Pepesa's hydraulic crane probably 3 days.

Well Cost:

AFE	3 985 620	US\$
DAILY	171 925	US\$
CUMULATED	881 067	US\$



REPORT N° 5

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	28-May-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	29-May-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	2521	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2521	COND: 18"	505
Depth @ 06h00 (ft):	2521	DRILLING DAYS:	9

Operations summary:

Run 9 5/8" casing from 1045' to 2521' MD. Installed & circulated with circulation head. Medomack boat R/U Halliburton cement lines to platform. Installed Halliburton cement head. Performed safety meeting. Tested cement lines with 2600 psi. Pumped 20 bbls mudflush 8.4 ppg; 25 bbls tuned spacer 11.5 ppg. Mixed cement. Dropped bottom plug. Pumped Econocem I cement 236 bbls, 12.5 ppg. Mixed & pumped 57 bbls Halcem I, 15.2 ppg. Dropped top plug, displaced cement with mud 10.1 ppg. WOC. Halliburton R/D cement lines. Cut window to 18" conductor & welded ring between 18" cond. & 9 5/8" csg. N/D 9 5/8" BOP. Fetco personnel cut & bevel 9 5/8" csg, installed 9 5/8" csg head, tested with 1200 psi.

Present operations:

Installing bell nipple & tight bolts on BOP.

Forecast operations:

N/U BOP stack, flow line, P/U & M/U 5" DP stands. Test 9 5/8" BOP.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 10.1
Viscosity (sec): 50.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

Estimated time to drill 8 1/2" section, tomorrow afternoon.

Well Cost:

AFE	3 985 620	US\$
DAILY	72 777	US\$
CUMULATED	953 844	US\$


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LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	29-May-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	30-May-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	2521	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2521	CSG: 9 5/8"	2521
Depth @ 06h00 (ft):	2521	DRILLING DAYS:	11

Operations summary:

N/U& M/U BOP's. Pepesa installed flow line. Installed 9 5/8" plug tester, tested operative BOP open/close. Leveled drilling rig. Performed BOP test, ok.

Present operations:

P/U 5" DP to platform.

Forecast operations:

P/U - M/U 5" DP & rack them in derrick. M/U 8 1/2" BHA.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 10.1
Viscosity (sec): 50.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

Estimated time to drill 8 1/2" section, tomorrow morning.

Well Cost:

AFE	3 985 620	US\$
DAILY	42 796	US\$
CUMULATED	996 640	US\$


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LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	30-May-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	31-May-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	2521	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2521	CSG: 9 5/8"	2521
Depth @ 06h00 (ft):	2521	DRILLING DAYS:	12

Operations summary:

Pepesa continued level drilling rig. Finished working on BOP's. P/U 5" DP from barge to platform. Savia's M&R mechanical change 7/8" cable to crane on Perla barge. Change diesel to crane motor. Continued P/U 5" drill pipe from barge to platform, M/U 46 stands & rack on derrick.

Present operations:

M/U Weatherford directional BHA & new PDC bit.

Forecast operations:

R/U & RIH WTF directional tools 8 1/2" PDC bit. TOC (Top Of Cement) & DOC (Drill Out Cement), perform CIT (Casing Integrity Test) FIT (Formation Integrity Test), drill 8 1/2" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 50.0
Viscosity (sec): 50.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

Estimated time to drill 8 1/2" section @ 12 hrs. Directional BHA with WFT Motary & LWD tool.

Well Cost:

AFE	3 985 620	US\$
DAILY	61 399	US\$
CUMULATED	1 058 039	US\$



REPORT N° 8

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2521
Depth @ 24h00 (ft): 2532
Depth @ 06h00 (ft): 2950

OPERATIONS DATE : 31-May-13
REPORT DATE : 1-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 11
CSG: 9 5/8" 2521
DRILLING DAYS: 13

Operations summary:

Finished M/U 5" DP stands, WTF directional R/U & M/U tools & equipment. M/U new 8 1/2" PDC bit. Tested MWD tool. Tested mud motor, ok. Continued RIH to 2311' MD. WTF tested depth sensor & motary tool, ok. RIH tagged TOC @ 2442' MD. Drill out cement (DOC) to 2505' MD. Circulated, performed casing test (CIT) with 1000 psi, ok. Continued DOC to shoe 2521' & 11 ft of formation to 2532' MD. Circulated, geology confirmed 100% formation, ok. Displaced contaminated mud by new mud, 10.3 ppg. Performed FIT, mud weight 10.3 ppg, 345 psi, EMW 13.5 ppg. ok.

Present operations:

Drilling with motary at 3103' MD.

Forecast operations:

Drill ahead with 8 1/2" PDC bit & motary directional tool (no sliding).

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	S1st %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	2521 - 2660	84	100								NF	CLYST: md dk gy, dk gy, loc olive gy, blkyl/sbblky, irr i/p, sb tab occ, frm/md frm, loc md sft, micmic, miccarb, non calc, earthy surf, slty i/p. TG: 4 C1: 380 C2: 17 C3: 4 C4: 0 C5: 0
TALARA	2660 - 2750	148	50		10	40					TR - 10	CLYST: md dk gy, olive gy, loc dk gy, blkyl/sbblky, irr i/p, frm/md frm, loc md sft, micmic, miccarb, non calc, earthy surf, slty i/p. SST: md gy, md lt gy, 100% vf/f, hyal, smky, occ gy'sh lith grns, ang/sbang, w srt, arg mtx, calc cmt, fri/md fri, p vis por. SD: wh, hyal, smky, 70% vf/f, 30% m, sb ang/sbrnd, w/f srt. FLUO: nvos, pinpoint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, POS. TG: 163 C1: 14935 C2: 468 C3: 131 C4: 0 C5: 0
TALARA	2750 - 2990	159	90	10	TR						NF	CLYST: olive gy, md dk gy, occ dk gy, blkyl/sbblky, irr i/p, frm/md frm, micmic, miccarb, sl calc, earthy surf, slty i/p. SLST: olive gy, md dk gy, blkyl/sbblky, loc irr, md frm, micmic, miccarb, sl calc, grad to vf sst i/p. SST: md gy, md lt gy, 100% vf/f, hyal, smky, occ gy'sh lith grns, ang/sbang, w srt, arg mtx, calc cmt, fri/md fri, p vis por. TG: 41 C1: 4038 C2: 17 C3: 4 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2578.87	60.27	242.37	2097.41	-2047.41	1044.05	-802.44	-667.93
2673.48	61.01	243.75	2143.79	-2093.79	1120.26	-839.80	-741.44
2768.39	62.17	246.79	2188.96	-2138.96	1197.08	-874.70	-817.25
2863.04	62.30	246.28	2233.05	-2183.05	1274.34	-908.05	-894.08
2957.91	61.92	245.79	2277.43	-2227.43	1352.71	-942.11	-970.70

Mud information:

Type: WBAC
Mud Weight (ppg): 10.3
Viscosity (sec): 50.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)

Remarks

So far have drilled @ 486' MD (188' TVDss), within mainly Claystone secuencias with a thin sand (mainly smky, hyal & wh i/p, 70% f, 30% m, sbang/sbrnd) body at 2660' MD up to 10% fluo (TR-10% nvos, pinpoint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut, milky wh rr under uv light, nvrr at nat light, POS). Talara Fm. Average gas readings @ 53 units (C1) & up to 1200 units (C1-C3) as formation gas at 2716' MD. Chromatograph gas readings not reliable from 2521' MD due new calibration method needed, not available production boat during night to bring technician, TGTLAB technician will arrived to location at @ 08:00 hrs from LO19. Missing gas readings from 2521' to 2568' MD.

Well Cost:

AFE	3 985 620	US\$
DAILY	108 791	US\$
CUMULATED	1 166 830	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	1-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	2-Jun-13
Rig Contractor:	RIG 40	SPUD DATE :	20-May-13
Depth @ 00h00 (ft):	2532	PROGRESS 00h00-24h00 (ft):	1328
Depth @ 24h00 (ft):	3860	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	3913	DRILLING DAYS:	14

Operations summary:

Continued drilling rotating & occasionally sliding from 2532' to 3388' MD. PO to 9 5/8" shoe (2521' MD) without pumps due SCR shut down. Pepesa personnel repair SCR drill console cable. RIH from 2521' to 3388' MD. Circulated & pumped vis pill, ok. Resumed drilling rotating from 3388' to 3860' MD. Continued circulating, while Pepesa change alternator to generator. (rig service).

Present operations:

Work stuck pipe.

Forecast operations:

Attempt to free stuck pipe.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	2990 - 3125	133	70	20	10						NF	CLYST: olive gy, md dk gy, occ dk gy, blk, occ sb tab, rr sbply, md frm/frm, micmic, miccarb, sl calc/non calc, earthy, slty i/p, occ w glau incl, rr w coal veins incl. SLST: olive gy, md dk gy, sbblky/blk, frm, micmic, v miccarb, sl calc/calc, grad to vf sst i/p. SST: md lt gy, md gy, 100% vf/f, hyal, smky, mn r gy'sh & dk lith grns, sbang/sbrnd, w srt, arg mt, calc cmt, md fri, loc consl, p vis por. TG: 7 C1: 648 C2: 9 C3: 2 C4: 0 C5: 0
TALARA	3125 - 3890	115	90	10							NF	CLYST: olive gy, loc md dk gy, occ dk gy, blk, occ sbtab, md frm/frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: olive gy, md dk gy, sbblky/blk, frm, micmic, miccarb, calc, earthy, w coal incl, grad to vf sst. TG: 9 C1: 853 C2: 20 C3: 12 C4: 3 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3052.41	62.03	245.90	2321.83	-2271.83	1431.39	-976.25	-1046.81
3147.90	61.90	246.12	2366.71	-2316.71	1511.33	-1010.51	-1123.82
3243.45	61.29	246.49	2412.16	-2362.16	1591.36	-1044.29	-1200.78
3338.07	63.08	246.76	2456.31	-2406.31	1671.30	-1077.49	-1277.59
3432.54	62.43	247.13	2499.56	-2449.56	1751.75	-1110.38	-1354.87
3526.90	63.00	245.51	2542.82	-2492.82	1832.64	-1144.06	-1431.67
3621.98	62.63	245.31	2586.26	-2536.26	1914.80	-1179.26	-1508.58
3717.69	62.17	244.97	2630.60	-2580.60	1997.48	-1214.92	-1585.54
3810.86	61.14	244.53	2674.84	-2624.84	2077.70	-1249.89	-1659.70

Mud information:

Type: WBAC
Mud Weight (ppg): 10.6
Viscosity (sec): 49.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35

Remarks

So far have drilled @ 788' MD (368' TVDss), within mainly Claystone secuencias with few Sst-Slst stringers CHACRA Fm & 1392' MD (656' TVDss) 8 1/2" section. Background gas readings @ 9 units (C1-C3). Last sample 3890' MD 100% Cyst. TGTLAB technician calibrated Chromatograph, stays on location for any inconvenients. GR sensor at 54 ft from bit. Chacra Fm Top -56' TVDss out of prognosed. Mud weight 10.6 ppg, LO6-28D Chacra Fm. Drilled with mud weight 10.0-10.3 ppg. Average ROP 118 ft/hr. Stuck pipe from 01:30 hrs today at 3913' MD (2674' TVDss), 788' MD (368' TVDss) within Chacra Fm.

Well Cost:

AFE	3 985 620	US\$
DAILY	83 786	US\$
CUMULATED	1 250 616	US\$


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LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3860
Depth @ 24h00 (ft): 3913
Depth @ 06h00 (ft): 3913

OPERATIONS DATE : 2-Jun-13
REPORT DATE : 3-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 53
CSG: 9 5/8" 2521
DRILLING DAYS: 15

Operations summary:

Drilled directional hole rotating & sliding 3860' to 3913' MD. Stuck pipe, worked string up/down, no circulation & rotation. Hold pressure 350 psi inside string. Working string with no response Jar. Pepesa L/D 01 joint 5" DP to maneuver. Connected top drive to next joint (@20 ft above drilling table). Rig motor #2 broke crank screws, repaired. Continued working string up/down, with jars firing, hold 350-600 psi inside string, no rotation. Tensionated up to 250-300Klb. Worked with torque, tension & pressure. Recovered partial circulation & rotation. Increased pump rate gradually. Reciprocated string. PO with circulation as precaution from 3750' to 2450' MD. Circulated inside csg @ 2450' MD. Shakers full. Continued PO from 2450' to 192' MD.

Present operations:

Condition rig floor to M/U directional BHA.

Forecast operations:

Test WTF tools on surface. M/U and RIH dir. BHA with 8 1/2" PDC & change HEL LWD. Condition hole on bottom.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
 Mud Weight (ppg): 10.7
 Viscosity (sec): 49.0
 Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35

Remarks

Mud weight increased from 10.6 to 10.7 ppg. Stuck pipe from 01:30 hrs at 3913' MD (2674' TVDss), 788' MD (368' TVDss) within Chacra Fm. Free stuck pipe at 17:30 hrs. Estimated time to resume drilling @ 18 hrs.

Well Cost:

AFE	3 985 620	US\$
DAILY	72 193	US\$
CUMULATED	1 322 809	US\$


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LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	3-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	4-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	3913	PROGRESS 00h00-24h00 (ft):	323
Depth @ 24h00 (ft):	4236	CSG: 9 5/8"	2521
Depth @ 06h00 (ft):	4519	DRILLING DAYS:	16

Operations summary:

Continued POOH & L/D directional assembly. WTF performed surface LWD test. PEPESA inspected Top Drive. Conditioned rig floor, changed part from pulser to used HEL LWD tool. Recalibrated HEL LWD tool. Programmed LWD & MSS. M/U & RIH same 8 1/2" PDC bit & directional BHA. Performed shallow test, ok. Continued RIH directional BHA from 96' to 2521' MD(9 5/8" csg shoe). Circulated & continued RIH 3913' MD. Circulated 1 bottoms up, pumped vis pill, until shakers clean. Drilled rotating & occasionally slide from 3913' to 4236' MD.

Present operations:

Drilling rotating with WFT Motary at 4519' MD.

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	3990 - 4520	97	100								NF	CLYST: md dk gy, md gy, occ olive gy & dk gy, blk/sbbly, sb atb i/p, occ sb lam, md frm/md sft, occ sl sol, micmic, miccarb, sl calc, earthy, occ slty. TG: 11 C1: 924 C2: 32 C3: 20 C4: 5 C5: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3903.85	61.72	246.96	2719.31	-2669.31	2157.42	-1283.43	-1734.15
3997.84	62.01	247.08	2763.63	-2713.63	2238.09	-1315.79	-1810.46
4093.01	62.29	247.38	2808.09	-2758.09	2320.08	-1348.36	-1888.05
4187.63	63.15	246.67	2851.46	-2801.46	2402.24	-1381.19	-1965.47
4282.27	63.41	244.35	2894.02	-2844.02	2485.37	-1416.23	-2042.39
4376.83	63.84	244.60	2936.03	-2886.03	2569.03	-1452.73	-2118.84

Mud information:

Type: WBAC
Mud Weight (ppg): 10.9
Viscosity (sec): 52.0
Filtrate (ml): 5.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35

Remarks

So far have drilled @ 1394' MD (643' TVDss), within mainly Claystone secuencias Chacra Fm. & 1998' MD (931 TVDss) 8 1/2" section. Background gas readings @ 11 units (C1-C5) & up to 61 units (C1-C5) at 4461' MD as conection gas. Last sample 4520' MD 100% Clyst. Before resume drilling after stuck pipe decided to change chromatograph by LO19 back up cromatograph, TGTLAB technician will go to LO14 this morning to R/U Mudlogging unit.

Well Cost:

AFE	3 985 620	US\$
DAILY	82 424	US\$
CUMULATED	1 405 233	US\$


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LOBITOS FIELD
LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	4-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	5-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	4236	PROGRESS 00h00-24h00 (ft):	1007
Depth @ 24h00 (ft):	5243	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	5468	DRILLING DAYS:	17

Operations summary:

Continued drill rotating & occasionally sliding from 4236' to 5178' MD. Circulated, pumped heavy pill, circulated & conditioned mud. MW to 11.0 ppg. Resumed drilling rotating from 5178' to 5243' MD.

Present operations:

Circulating at 5556' MD prior wiper trip.

Forecast operations:

Perform wiper trip, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4520 - 5088	84	100								NF	CLYST: md dk gy, loc md gy, occ dk gy, blk/sbblky, loc sbtab, occ sb lam, md frm/frm, occ sl sol, micmic, miccarb, sl calc/calc, earthy, slty. TG: 14 C1: 1152 C2: 41 C3: 23 C4: 13 C5: 0
POSS. RIO BRAVO	5088 - 5150	110									5 - TR	CLYST: md dk gy, md gy, occ dk gy, sbblky/blkly, irr i/p, frm/md frm, micmic, miccarb, sl calc, w galu incl, earthy, slty i/p. SST: olive gy, loc lt olive gy, prdm f, hyal, smky, w dk & gy'sh lith grns, sb ang/sb rnd, w srt, arg mtx, scarce calc cmt, md fri/ md consl, drty, w abund glau incl, p vis por. SD: hyal, smky, mnrr dk lith grns, 90% f, 10% m, sb ang/sb rnd, w srt. FLUO: nvos, pinpoint, pale yell nat fluo, crush, weak, faint, even, yell'sh wh cut fluo, nvrr, pos. TG: 20 C1: 1826 C2: 49 C3: 29 C4: 9 C5: 0
POSS. RIO BRAVO	5150 - 5430	67	100				TR				NF	CLYST: md dk gy, md gy, blk/sbblky, irr i/p, md frm/frm, micmic, miccarb, sl calc, earthy/sl earthy, sl slty i/p. LMST: olive gy, occ lt olive gy, sbblky, irr i/p, occ mass, md hd, sl earthy surf. TG: 11 C1: 903 C2: 32 C3: 21 C4: 10 C5: 0
POSS. RIO BRAVO	5430 - 5470	92	60		10	30					NF	CLYST: md dk gy, md gy, occ olive gy, blk/sbblky, irr i/p, loc sbtab, frm/md frm, micmic, miccarb, sl calc, sl earthy, slty i/p. SST: md gy, md lt gy, 100% vf/f, hyal, smky, wh, mnrr gy'sh & dk lith grns, sbang/sbrnd, w srt, arg mtx, scarce calc cmt, fri/md fri, drty i/p, p vis por. SD: wh, smky, mlky wh i/p, mnrr gy'sh & dk lith grns, 100% f, tr m, sbang/sbrnd, w srt. FLUO: nvos, pin point pale yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh rr under U. V. light, nvrr at nat lt, pos TG: 16 C1: 1413 C2: 36 C3: 21 C4: 4 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4471.06	63.22	243.67	2978.03	-2928.03	2652.46	-1489.53	-2194.74
4565.13	62.90	242.46	3020.65	-2970.65	2735.68	-1527.51	-2269.50
4659.23	62.52	241.02	3063.79	-3013.79	2818.90	-1567.10	-2343.16
4753.40	61.24	240.75	3108.18	-3058.18	2901.69	-1607.51	-2415.72
4846.93	61.48	239.93	3153.01	-3103.01	2983.58	-1648.13	-2487.05
4942.07	61.25	239.56	3198.60	-3148.60	3066.95	-1690.21	-2559.18

Mud information:

Type: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 51.0
Filtrate (ml): 5.8

5037.83	61.10	239.50	3244.77	-3194.77	3150.74	-1732.75	-2631.49
5131.33	62.00	240.25	3289.31	-3239.31	3232.81	-1774.01	-2702.59
5225.58	62.06	239.85	3333.52	-3283.52	3315.92	-1815.56	-2774.71
5319.66	62.43	239.47	3377.33	-3327.33	3399.07	-1857.62	-2846.57

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02

Remarks

So far have drilled @ 468' MD (219' TVDss), within a poor Sst-Sd body on top with up to 5% fluorescence (nvos, pinpoint, pale yell nat fluo, crush, weak, faint, even, yell'sh wh cut fluo, nvrr, pos) followed by a regular Claystone body & Sd-Sst interbeded layers underneath, Rio Bravo Fm. & 3035' MD (1419 TVDss) 8 1/2" section. Background gas readings @ 13 units (C1-C4) & up to 86 units (C1-C4) as swab gas at 5180. Last sample 5470' MD 60% Clyst, 30% SD, 10% Sst, TR Fluo(nvos, pin point pale yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh rr under U. V. light, nvrr at nat lt, pos).TGTLAB technician on LO14 with crew R/U Mudlogging unit. TGTLAB personnel arrive today to LO19 R/U Mudlogging unit, second Technician with new chromatograph from Lima.

Well Cost:

AFE	3 985 620	US\$
DAILY	82 329	US\$
CUMULATED	1 487 562	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5243
Depth @ 24h00 (ft): 5745
Depth @ 06h00 (ft): 5943

OPERATIONS DATE : 5-Jun-13
REPORT DATE : 6-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 502
CSG: 9 5/8" 2521
DRILLING DAYS: 18

Operations summary:

Continued drilling rotating & sliding from 5243' to 5556' MD. Performed wiper trip to shoe without problems. Pepesa cut 150 ft & slipped 100 ft drilling line. Rig serviced. WTF directional tested motary & calibrated depth sensor. RIH, circulated 1 bottoms up, swepted hole. Resumed dirrectional drill rotating & sliding from 5556' to 5745' MD.

Present operations:

Drilling with motary at 6024' MD.

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
POSS. RIO BRAVO	5470 - 5540	102	30		20	50					15 - TR	CLYST: md dk gy, md gy, occ olive gy, blk/sbblky, irr i/p, loc sbtab, frm/md frm, micmic, miccarb, sl calc, slty i/p, earthy surf. SST: lt gy, md lt gy, occ wh'sh lt gy, prdm vff, hyal, smky, occ w gy'sh lith grns, sbang/sbrnd, w srt, arg mtz, scarce calc cmt, fri/md fri, f vis por. SD: hyal, wh'sh hyal, smky, mnr gy'sh & dk lith grns, 30% f, 40% m, 30% c, sbang/sbrnd, p srt. FLUO: nvos, pinpoint, pale, yell'sh nat fluo, slow weak, faint, even, yell'sh wh cut fluo, mlky wh rr under uv light, nvrr at nat light, pos. TG: 15 C1: 1252 C2: 53 C3: 38 C4: 8 C5: 0
POSS. RIO BRAVO	5540 - 5770	62	50		30	20					NF	CLYST: md dk gy, loc olive gy, blk/sbblky, irr i/p, loc sbtab, frm/md frm, micmic, miccarb, sl calc, loc slty i/p, earthy surf. SST: md lt gy, md lt gy, occ wh'sh lt gy, prdm vff, hyal, smky, occ w gy'sh lith grns, sbang/sbrnd, w srt, arg mtz, scarce calc cmt, fri/md fri, f vis por. SD: smky, hyal, wh'sh hyal, mnr dk lith grns, 30% f, 60% m, 10% c, sbang/sbrnd, p srt. TG: 8 C1: 611 C2: 28 C3: 22 C4: 10 C5: 1
POSS. RIO BRAVO	5770 - 5850	62	70	20	10	TR					NF	CLYST: md dk gy, md gy, blk/sbblky, irr i/p, occ sbtab/sblam, frm/md frm, micmic, miccarb, non calc, loc slty, sl earthy surf. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst i/p. SST: md gy, md lt gy, vff, hyal, smky, mnr gy'sh lith grns, sb ang/sb rnd, w srt, scarce arg mtz, calc cmt, md consl/md fri, loc tight, p vis por. SD: hyal, wh'sh hyal, smky, mnr dk lith grns, prdm vff, tr m, sbang/sbrnd, w srt. TG: 7 C1: 559 C2: 22 C3: 15 C4: 9 C5: 0
POSS. RIO BRAVO	5850 - 5940	109	20		60	30					NF	CLYST: md dk gy, md gy, blk/sbblky, irr i/p, frm/md frm, micmic, v miccarb, non calc, loc slty, earthy surf. SST: md lt gy, md gy, lt gy i/p, vff, hyal, smky, mnr gy'sh & dk lith grns, sb ang/sb rnd, w srt, scarce arg mtz, calc cmt, md consl/md fri, tight i/p, w glau incl i/p, p vis por. SD: hyal, smky, mnr dk lith grns, 90% f, 10% m, tr c, sbang/sbrnd, w srt. TG: 13 C1: 1135 C2: 43 C3: 26 C4: 12 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5413.45	62.04	238.98	3421.02	-3371.02	3481.99	-1900.08	-2917.87
5507.52	61.86	238.99	3465.26	-3415.26	3564.96	-1942.86	-2989.02
5602.00	62.28	238.90	3509.51	-3459.51	3648.39	-1985.92	-3060.53
5697.03	61.62	238.49	3554.20	-3504.20	3732.22	-2029.50	-3132.19
5790.76	61.77	239.04	3598.64	-3548.64	3814.71	-2072.29	-3202.75
5885.97	61.30	237.69	3644.02	-3594.02	3898.39	-2116.19	-3274.01

Mud information:

Type: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02

Remarks

So far have drilled @ 936' MD (442' TVDss), within mainly Sst-Sd secuenes interbeded with Clyst layers, Rio Bravo Fm. & 3503' MD (1642' TVDss) 8 1/2" section. Background gas readings @ 11 units (C1-C4). Last sample 5950' MD 80% Clyst, 10% SD, 10% Sst, NF. TGTLAB personnel arrive today to LO19 R/U Mudlogging unit, second Technician coming with new chromatograph from Lima.

Well Cost:

AFE	3 985 620	US\$
DAILY	78 433	US\$
CUMULATED	1 565 995	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5745
Depth @ 24h00 (ft): 6478
Depth @ 06h00 (ft): 6632

OPERATIONS DATE : 6-Jun-13
REPORT DATE : 7-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 733
CSG: 9 5/8" 2521
DRILLING DAYS: 19

Operations summary:

Continued drilling rotating & sliding from 5745' to 6478' MD. Swept hole at 6123' & 6410' MD & circulated to shakers clean.

Present operations:

Drilling with motary at 6690' MD.

Forecast operations:

Drill ahead, perform wiper trip, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5940 - 6040	63	30	30	40						NF	CLYST: md dk gy, loc dk gy, blk/sbblky, irr i/p, occ sb tab, frm/md frm, micmic, miccarb, non calc, earthy, slty. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: md gy, md lt gy i/p, 100% vf/f, hyal, smky, dk lith grns i/p, sbang/sbrnd, w srt, calc cmt, scarce/non arg mtx, md consl/md fri, tight, p vis por. TG: 9 C1: 744 C2: 28 C3: 16 C4: 9 C5: 0
RIO BRAVO	6040 - 6120	55	80	20	TR						NF	CLYST: md dk gy, loc dk gy, blk/sbblky, occ sb tab, frm&md frm, micmic, miccarb, non calc, earthy, loc slty. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: md gy, loc md lt gy, 100% vf/f, hyal, smky & dk lith grns, sbang/sbrnd, w srt, calc cmt, scarce arg mtx, md consl/md fri, tight i/p, p vis por. TG: 8 C1: 641 C2: 25 C3: 14 C4: 7 C5: 0
RIO BRAVO	6120 - 6310	96	10	TR	60	30					TR - 40	CLYST: md dk gy, loc dk gy, blk/sbblky, occ sbtab, frm/md frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: lt gy, loc md lt gy, wh'sh lt gy i/p, 100% vf/f, hyal, smky, gy'sh lith grns i/p, sbang/sbrnd, w srt, scarce arg mtx & calc cmt, md fri, loc w glau & shell frag incl, f/p vis por. SD: hyal, smky, wh'sh hyal & mlky wh i/p, mnr gy'sh & dk lith grns, 50%f, 40% m, 10% c, tr vc, sbang/sbrnd, p srt. FLUO: nvos, pinpoint, pale, yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, f/pos. TG: 68 C1: 5505 C2: 237 C3: 184 C4: 73 C5: 3
RIO BRAVO	6310 - 6450	41	60	10	20	10					NF	CLYST: md dk gy, loc dk gy, blk/sbblky, occ sbtab, frm/md frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: md lt gy, loc lt gy, 100% vf/f, hyal, smky, dk lith grns i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri, f vis por. SD: hyal, wh'sh hyal, smky, 80% f, 20% m, tr c & vc, sbang/sbrnd, occ ang, f/w srt. TG: 33 C1: 2733 C2: 104 C3: 70 C4: 38 C5: 3

RIO BRAVO	6450 - 6500	39	50		20	30					NF	CLYST: md dk gy, occ dk gy, blk/sbblky, occ sbtab/sblam, frm/md frm, micmic, miccarb, non calc, earthy surf. SST: lt gy, md lt gy, occ olive lt gy, 100% vf/f, hyal, smky, dk lith grns i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, f vis por. SD: hyal, wh'sh hyal, smky, 60% f, 40% m, tr c, sbang/sbrnd, occ ang, f/p srt. TG: 22 C1: 1962 C2: 57 C3: 28 C4: 12 C5: 0
RIO BRAVO	6500 - 6590	34	60	10	30	TR					NF	CLYST: md dk gy, md gy, occ dk gy & olive black, blk/sbblky, occ sbtab, frm/md frm, micmic, miccarb, non calc, earthy surf, slty i/p. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: lt gy, med lt gy, moc med gy, 100% vf/f, hyal, smky, dk lith grns i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, loc tight, occ w mic pyr incl, p vis por. SD: hyal, wh'sh hyal, smky, 100% f, tr m, sbang/sbrnd, w srt. TG: 19 C1: 1748 C2: 43 C3: 22 C4: 10 C5: 0
RIO BRAVO	6590 - 6620	35	40		40	20					NF	CLYST: md dk gy, dk gy, blk/sbblky, occ sbtab, frm, loc md frm, micmic, miccarb, non calc, earthy, slty i/p. SST: lt gy, md lt gy, 100% vf/f, hyal, smky, dk lith grns i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, loc fri, tight i/p, p vis por. SD: hyal, wh'sh hyal, smky, 50% m, 30% c, 10% vc, sbang/sbrnd, loc ang, p srt. TG: 16 C1: 1459 C2: 35 C3: 21 C4: 11 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5981.15	61.03	237.07	3689.93	-3639.93	3981.76	-2161.13	-3344.24
6076.19	59.61	236.96	3736.98	-3686.98	4064.33	-2206.08	-3413.50
6171.86	59.83	237.14	3785.22	-3735.22	4146.95	-2251.02	-3482.83
6267.01	57.85	237.45	3834.46	-3784.46	4228.37	-2295.01	-3551.34
6362.04	56.31	237.82	3886.10	-3836.10	4308.13	-2337.72	-3618.71
6457.25	56.53	238.03	3938.76	-3888.76	4387.45	-2379.84	-3685.93

Mud information:

Type: WBAC
Mud Weight (ppg): 11.1
Viscosity (sec): 58.0
Filtrate (ml): 5.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02

Remarks

So far have drilled @ 1602' MD (799' TVDss), within mainly Sst-Sd secuense interbeded with Clyst & some Slst beds Rio Bravo Fm. up to 40% Fluo (nvos, pinpoint, pale, yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, f/pos) at 6290' MD, drilled 4169' MD (2000' TVDss) 8 1/2" section. Background gas readings @ 28 units (C1-C5) & up to 433 units (C1-C5) as formation gas at 6285' MD. Last sample 6660' MD 80% Clyst, 10% Sst, 10% Slst, NF. Avg. Rop 64 ft/hr.

Well Cost:

AFE	3 985 620	US\$
DAILY	77 923	US\$
CUMULATED	1 643 918	US\$



REPORT N° 15

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	7-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	8-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	6478	PROGRESS 00h00-24h00 (ft):	502
Depth @ 24h00 (ft):	6980	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	6980	DRILLING DAYS:	20

Operations summary:

Continued drilling rotating & sliding from 6478' to 6980' MD. Circulated to recover bottom sample. Pumped heavy pill, circulated 01 bottoms up, shakers clean, ok. PO from 6980' to 2521' MD (9 5/8" csg shoe) with out problems. Circulated 01 bottoms up, shakers clean.

Present operations:

Closed dock due rough seas. Wait on industrial water & mud chemical products.

Forecast operations:

Wait on calm seas. Receive industrial water & mud chemical products, RIH.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	6620 - 6710	33	70	20	10						NF	CLYST: md dk gy, loc dk gy, blk/sbblky, irr, occ sb tab, frm/md frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: md dk gy, md gy, blk/sbblky, frm/md frm, micmic, miaccarb, sl calc, grad to vf sst. SST: lt gy, md lt gy, 100% f/vf, hyal ,smky, wh'sh hyal, dk mnrl incl i/p, sbang/sbrnd, w srt, scarce arg mtz, calc cmt, md fri/md consl, p vis por. TG: 34 C1: 3041 C2: 69 C3: 37 C4: 15 C5: 2
RIO BRAVO	6710 - 6820	106	TR	TR	40	60					TR - 40	CLYST: md dk gy, loc dk gy, blk/sbblky, loc irr, occ sb tab, frm/md frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miaccarb, sl calc, grad to vf sst. SST: md lt gy, loc lt gy, 100% f/vf, hyal ,smky, wh'sh hyal, dk mnrl incl i/p, sbang/sbrnd, w srt, arg mtz, calc cmt, md fri/md consl, w calc frag incl, p vis por. SD: hyal, smky, wh'sh hyal, 70% f, 30% m, tr c, sbang/sbrnd, f srt. FLUO: nvos, pinpoint, pale, yell'sh wh nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, f/pos. TG: 104 C1: 9011 C2: 275 C3: 179 C4: 67 C5: 5
RIO BRAVO	6820 - 6910	50	50	10	40	TR					TR	CLYST: md dk gy, loc dk gy, occ olive gy & dk brn, blk/sbblky, occ sb tab, frm/md frm, micmic, miccarb, non calc, earthy, slty i/p. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miaccarb, sl calc, grad to vf sst. SST: md lt gy, loc lt gy, 100% f/vf, hyal ,smky, wh'sh hyal, dk mnrl incl i/p, sbang/sbrnd, w srt, arg mtz, calc cmt, fri/md fri, f vis por. SD: hyal, smky, wh'sh hyal, 60% f, 40% m, sbang/sbrnd, p srt. FLUO: nvos, pinpoint, pale, yell'sh wh nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, pos. TG: 36 C1: 2939 C2: 97 C3: 77 C4: 45 C5: 7

Surveys:

Mud information:

Provisional Formation Tops:Remarks

Well Cost:

AFE	3 985 620	US\$
DAILY	81 235	US\$
CUMULATED	1 725 153	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	8-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	9-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	6980	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	6980	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	6980	DRILLING DAYS:	21

Operations summary:

Closed dock due rough seas. Wait on industrial water & chemical products. Pepesa rig inspection top drive. Performed inspection to mud pumps.

Present operations:

Preparing to run 8 1/2" PDC bit with mud motor and MWD. Continue receiving material from Ruby River boat.

Forecast operations:

RIH mud motor BHA, resume drilling.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 11.2
Viscosity (sec): 59.0
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02

Remarks

Estimated time to resume drilling 12 hrs.

Well Cost:

AFE	3 985 620	US\$
DAILY	71 521	US\$
CUMULATED	1 796 674	US\$



REPORT N° 17

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6980
Depth @ 24h00 (ft): 7259
Depth @ 06h00 (ft): 7483

OPERATIONS DATE : 9-Jun-13
REPORT DATE : 10-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 279
CSG: 9 5/8" 2521
DRILLING DAYS: 22

Operations summary:

Ruby River vessel arrived to location with missing material (industrial water, chemical products & diesel). Pepesa POOH 8 1/2" directional BHA. L/D motary, LWD & bit. RIH directional BHA with repaired 8 1/2" PDC bit RSF519M, mud motor & MWD. Tested tools, ok. Continued RIH to 2521' MD (9 5/8" casing shoe). Circulated 01 bottoms up, gas up to 1050 units. RIH from 2521' to 4440' MD. Circulated gas up to 40 units, continued RIH from 4440' to 6980' MD. Circulated out trip gas up to 3889 units. Swept hole & displaced new mud 11.2 ppg. Resumed directional drilling rotating & sliding from 6980' to 7259' MD.

Present operations:

Drilling with mud motor at 7542' MD.

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	6980 - 7190	107	70	10	10	10						CLYST: md dk gy, md gy, occ dk gy, blk/sbblky, occ sctab, frm/md frm, micmic, miccarb, non calc, slty i/p, earthy. SLST: md dk gy, md gy, blk/sbblky, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: md lt gy, lt gy, 100% vf/f, hyal, smky, wh'sh hyal i/p & dk lith incl, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, occ tight, p vis por. SD: wh, hyal, smky, 50%f, 40% m, 10% c, tr vc, sbang/sbrnd, p srt. FLUO: nvos, pinpoint, pale, yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, pos. TG: 47 C1: 3307 C2: 204 C3: 168 C4: 121 C5: 4
RIO BRAVO	7190 - 7300	107	80	10	10							CLYST: md dk gy, md gy, occ dk gy & olive blk, blk/sbblky, occ sctab, frm/md frm, micmic, miccarb, non calc, slty i/p, earthy. SLST: md dk gy, md gy, blk/sbblky, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: lt gy, med lt gy, occ v lt gy, 100% vf/f, hyal, smky, wh'sh hyal i/p & dk lith incl, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, occ tight, p vis por. TG: 19 C1: 1664 C2: 60 C3: 26 C4: 9 C5: 1
RIO BRAVO	7300 - 7330	107	50	10	10	30						CLYST: md dk gy, md gy, occ olive blk, blk/sbblky, irr, frm/md frm, micmic, miccarb, non calc, loc slty, earthy. SLST: md dk gy, md gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: lt gy, md lt gy, occ v lt gy, 100% vf/f, hyal, smky, dk lith incl i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, occ tight, p vis por. SD: wh, hyal, smky, mnr dk lith grns, 60% vf/f, 40% m, tr c, sbang/sbrnd, p srt. TG: 23 C1: 2097 C2: 77 C3: 20 C4: 6 C5: 1

RIO BRAVO	7330 - 7440	88	90	10	TR						NF	CLYST: md dk gy, md gy, occ olive blk, blk/sbblky, irr, frm/md frm, micmic, miccarb, non calc, loc slty, earthy. SLST: md dk gy, md gy, blk/sbblky, irr, md frm/frm, micmic, miccarb, sl calc, grad to vf sst, earthy. SST: lt gy, md lt gy, occ v lt gy, 100% vf/f, hyal, smky, dk lith incl i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, occ tight, p vis por. SD: smky, hyal, wh'sh hyal, 80% f, 20% m, tr c, sbang/sbrnd, w srt. TG: 10 C1: 866 C2: 36 C3: 15 C4: 6 C5: 1
RIO BRAVO	7440 - 7460	85	TR	30	10							CLYST: md dk gy, md gy, occ olive blk & dk gy, blk/sbblky, irr, frm/md frm, micmic, miccarb, non calc, occ slty, earthy. SLST: md dk gy, md gy, blk/sbblky, irr, frm/frm md, micmic, miccarb, non calc, grad to vf sst, earthy. SST: lt gy, md lt gy, occ v lt gy, 100% vf/f, hyal, smky, dk lith incl i/p, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, fri/md fri, p vis por. SD: smky, hyal, wh'sh hyal, 100% vf/f, tr m, sbang/sbrnd, w srt. FLUO: nvos, pinpint, pale, yell'sh nat fluo, crush, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, pos. TG: 11 C1: 894 C2: 43 C3: 14 C4: 7 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7002.36	51.41	237.68	4254.26	-4204.26	4831.54	-2614.64	-4062.94
7097.54	51.26	238.37	4313.73	-4263.73	4905.85	-2654.00	-4125.98
7191.59	49.65	238.45	4373.60	-4323.60	4978.36	-2691.99	-4187.75
7286.15	49.16	238.85	4435.13	-4385.13	5050.14	-2729.34	-4249.07
7380.56	49.01	238.49	4496.97	-4446.97	5121.46	-2766.44	-4310.01

Mud information:

Type: WBAC
Mud Weight (ppg): 11.3
Viscosity (sec): 50.0
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02

Remarks

So far have drilled @ 2454' MD (1332' TVDss), within mainly Clyst sequences with some Sst-Sd stringers with Tr Fluo (nvos, pinpint, pale, yell'sh nat fluo, crush, weak, faint, even, yell'sh wh cut, mlky wh rr under uv light, nvrr at nat light, pos) Bravo Fm, drilled 5021' MD (2532' TVDss) 8 1/2" section. Background gas readings @ 30 units (C1-C5) & up to 353 units (C1-C5) as conection gas at 7164' MD. Last sample 7510' MD 60% Clyst, 30% Sst, 10% Sd, NF.

Well Cost:

AFE	3 985 620	US\$
DAILY	79 062	US\$
CUMULATED	1 875 736	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	10-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	11-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	7259	PROGRESS 00h00-24h00 (ft):	409
Depth @ 24h00 (ft):	7668	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	7668	DRILLING DAYS:	23

Operations summary:

Continued drilling rotating & sliding from 7259' to 7668' MD (Total Depth). Circulated bottom sample. Pumped heavy vis pill, circulated & conditioned mud until shakers clean, MW 11.3+ ppg. PO directional BHA with 8 1/2" PDC bit from 7668' to 7100' MD, with pump. Performed flow check, ok. MW 11.4 ppg. Continued POOH. L/D directional tools.

Present operations:

RIH conventional BHA with rr tricone bit at 6500' MD.

Forecast operations:

RIH condition hole for WFT shuttle electrical logs. POOH Slick BHA. Run WFT shuttle logs.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	7460 - 7500	71	30		20	50				TR	CLYST: md dk gy, md gy, loc dk gy, blkyl/sbblky, irr, occ shtab, frm/md frm, micmic, miccarb, non calc, occ slty, earthy surf. SST: lt gy, md lt gy, loc v lt gy, 100% vf/f, hyal, smky, wh'sh hyal i/p, loc dk lith grns, sbang/sbrnd, w srt, scarce arg mtz, calc cmt, fri/md fri, p vis por. SD: smky, hyal, wh'sh hyal, occ gy'sh lith grns, 80% f, 20% m, w srt, sbang/sbrnd. FLUO: nvos, pinpoint, pale, yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut, milky wh rr under uv light, nvrr at nat light. TG: 6 C1: 498 C2: 33 C3: 13 C4: 8 C5: 1
RIO BRAVO	7460 - 7668	70	90		10					NF	CLYST: md dk gy, loc dk gy, occ olive gy & ben'sh gy, blkyl/sbblky, irr, occ shtab/sblam, frm/md frm, micmic, miccarb, non calc, slty i/p, earthy surf. SST: md lt gy, lt gy, loc v lt gy, 100% vf/f, hyal, smky, wh'sh hyal i/p, w dk lith grns, sbang/sbrnd, w srt, arg mtz, calc cmt, fri/md fri, p vis por. TG: 49 C1: 4233 C2: 214 C3: 53 C4: 7 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7476.24	48.54	238.05	4560.02	-4510.02	5193.42	-2804.28	-4371.22
7570.24	48.24	237.59	4622.44	-4572.44	5263.70	-2841.71	-4430.71
7602.00	48.02	237.90	4643.64	-4593.64	5287.35	-2854.34	-4450.71
7668.00	47.72	238.47	4687.92	-4637.92	5336.29	-2880.14	-4492.30

Mud information:

Type: WBAC
Mud Weight (ppg): 11.4
Viscosity (sec): 51.0
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02
TD	7668.0	4687.92	-4637.92	-2880.14	-4492.30

Remarks

So far have drilled @ 2580' MD (1420' TVDss), within mainly Clyst secuencias with two thin Sst-Sd bodies at @ 7300' & 7440' MD with Tr Fluo (nvos, pinpoint, pale, yell'sh nat fluo, slow, weak, faint, even, yell'sh wh cut, milky wh rr under uv light, nvrr at nat light.) Rio Bravo Fm, drilled 5147' MD (2620' TVDss) 8 1/2" section. Background gas readings @ 28 units (C1-C5) & up to 1282 units (C1-C5) as conection gas at 7641' MD. Last sample 7668' MD 90% Clyst, 10% Sst, NF. Total depth proposed by lima office.

Well Cost:

AFE	3 985 620	US\$
DAILY	105 944	US\$
CUMULATED	1 981 680	US\$



LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	11-Jun-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	12-Jun-13
Rig Contractor:	RIG 40	SPUD DATE:	20-May-13
Depth @ 00h00 (ft):	7668	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	7668	CSG:	9 5/8" 2521
Depth @ 06h00 (ft):	7668	DRILLING DAYS:	24

Operations summary:

M/U & RIH Slick BHA with 8 1/2" tricone bit to 7668' MD without problems. Logging WTF personnel arrived to location, performed before check tools. POOH Slick BHA without problems. Performed safety meeting with. Weatherford M/U & RIH logging BHA tools. Mule shoe, shuttle landing, 4 3/4" pipe 5, lower latch, upper latch, 4 3/4" pipe 1. WTF installed logging tool inside BHA. to 207' MD.

Present operations:

RIH shuttle logging tool & BHA to 5560' MD.

Forecast operations:

RIH to bottom, send messenger dart, deploy log tool out of BHA, run electrical logs.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 11.4
Viscosity (sec): 52.0
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5088.0	3267.81	-3217.81	-1755.10	-2670.02
TD	7668.0	4687.92	-4637.92	-2880.14	-4492.30

Remarks

Rio Bravo section drilled @ 2407' MD (1254' TVDss), @ 618 ft of Sst-Sd bodies interbedded with Clyst-Slst secuencias with Fluo from traces up to 40% (nvos, pinpoint, pale, yell'sh nat fluo, slow/crush, weak, faint, even, yell'sh wh cut, milky wh rr under uv light, nvrr at nat light.). WFT personnel on location at 08:30 hrs on Jun 11th, 2013. Wait for well ready until 19:00 hrs on Jun 11th, 2013. WFT logging tools & equipment on location at 00:30 hrs on Jun 11th, 2013. While rig POOH slick BHA, WFT wireline personnel checked tools & found out that new batteries required diferent housing & ordered to El Alto, arrived to location at 21:30 hrs. BHA length 209 ft, MCG-MDN-MPD-MDL tool length 155 ft & weight 1111 lb.

Well Cost:

AFE	3 985 620	US\$
DAILY	47 987	US\$
CUMULATED	2 029 667	US\$



REPORT N° 20

LOBITOS FIELD

LO6-31D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7668
Depth @ 24h00 (ft): 7668
Depth @ 06h00 (ft): 7668

OPERATIONS DATE : 12-Jun-13
REPORT DATE : 13-Jun-13
SPUD DATE: 20-May-13
PROGRESS 00h00-24h00 (ft): 0
CSG: 9 5/8" 2521
DRILLING DAYS: 25

Operations summary:

Continued M/U logging tools & BHA, tested circulation ok. RIH logging tool BHA with 5" DP string from 300' to 7668'. Tested circulation with 127 gpm at 1500', 2500', 3500', 5000', 6000' & on bottom. PO out 2 stands from 7668' to 7493'. WTF dropped dart inside string & pumped dart with 88-36-14 gpm. Dart broke 2 pins sections & logging tool deployed, then broke more pins for circulation opens. Circulated gas out 01 bottoms up. POOH 5" DP & WTF logging (MDL-MPD-MDN-GR-CCL) with string from 7493' to 4950' MD at ≤ 30 ft/min. Continued POOH 5" DP from 4950' to 370' MD at 60 ft/min. L/D logging tools. P/U & M/U 5 1/2" csg float equipment, Run 10 jts 5 1/2" csg, 17 ppf, N-80, BTC to 400' MD.

Present operations:

RIH 5.5 " csg at 3800' MD.

Forecast operations:

RIH 5.5 " csg to bottom, perform cement job.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)

Mud information:

Type: WBAC
Mud Weight (ppg): 11.4
Viscosity (sec): 54.0
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDSS(ft)	North(ft)	East(ft)
CHACRA	3125.0	2355.93	-2305.93	-1002.33	-1105.35
RIO BRAVO	5087.0	3268.00	-3218.00	-1755.10	-2670.02
SHALY	7489.0	4568.00	-4518.00		
TD	7668.0	4687.92	-4637.92	-2880.14	-4492.30

Remarks

While rig POOH slick BHA, WFT wireline personnel checked tools & found out that new batteries required diferent housing & ordered to El Alto, arrived to location at 21:30 hrs. BHA length 209 ft, MCG-MDN-MPD-MDL tool length 155 ft & weight 1111 lb.

While RIH according to procedure circulated at 1500', 2500', 3500', 5000' & 6000' MD. Pumped & displaced messenger dart at 03 bbl/min (50 min), then 01 bbl/min (11 min), according to pump pressure peaks oberserved messenger dart deployed tools out of BHA to open hole & broke pins in landing & circulation sub(11:30 hrs), according to drilling supervisor circulated bottom gas out without moving 5" string, new bottom tool depth at 7638' MD. During main log speed controlled at ≤ 30 ft/hr from 7638' to 4700' MD. Then increased speed to 60 ft/min to prevent damage logging tools. Confirmed 19.5 hrs data processed. R/D WFT personnel & equipment until 06:00 hrs on Jun. 13th, 2013.

Well Cost:

AFE	3 985 620	US\$
DAILY	146 500	US\$
CUMULATED	2 176 167	US\$