



Well Name : **LO6-27D**
Field : **Lobitos Onshore**
Type of Well : **Development**
Rig N° : **Pepesa 40**

Well Head
N (m) : 9 508 655.23
E (m) : 459 043.07
KB (ft) : 50
Ground Level (ft) : 335

Deviated well
Direction : S 15.72 W
Max Angle : 47°
KOP (ft) : 700'
Build up angle at : 5°/100'

Formation Top	PROGNOSIS (ft)			PROVISIONAL (ft) *			Delta TVDss**	Observations
	MD	TVD	TVDss	MD	TVD	TVDss		
HELICO Mbr (TALARA SH)	From sea bottom			From sea bottom				
LOBITOS Mbr (TALARA SH)	---	---	---	785	785	-735		
TEREBRATULA Mbr(TALARA SH)	---	---	---	---	---	---		
CHACRA	3000	2400	-2350	2860	2518	-2468	-118	
RIO BRAVO	3400	3250	-3200	3405	2891	-2841	359	Oil Bearing
PALEGREDA	5850	4570	-4520	5728	4508	-4458	62	
MOGOLLON	6900	5220	-5170	6318	4891	-4841	329	Oil Bearing
SAN CRISTOBAL	7800	5750	-5700	8229	6181	-6131	-431	
WEDGE SANDS TOP	---	---	---	9340	6947	-6897	---	
WEDGE SANDS BASE	---	---	---	9456	7025	-6975	---	
UPPER BASAL SALINA	9450	7050	-7000	10332	7684	-7634	-634	Secondary Objective
LOWER BASAL SALINA	10345	7626	-7576	---	---	---	---	Main Objective
BALCONES	10800	7955	-7905	10980	8229	-8179	-274	
TD	11084	8130	-8080	11095	8333	-8283	-203	

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

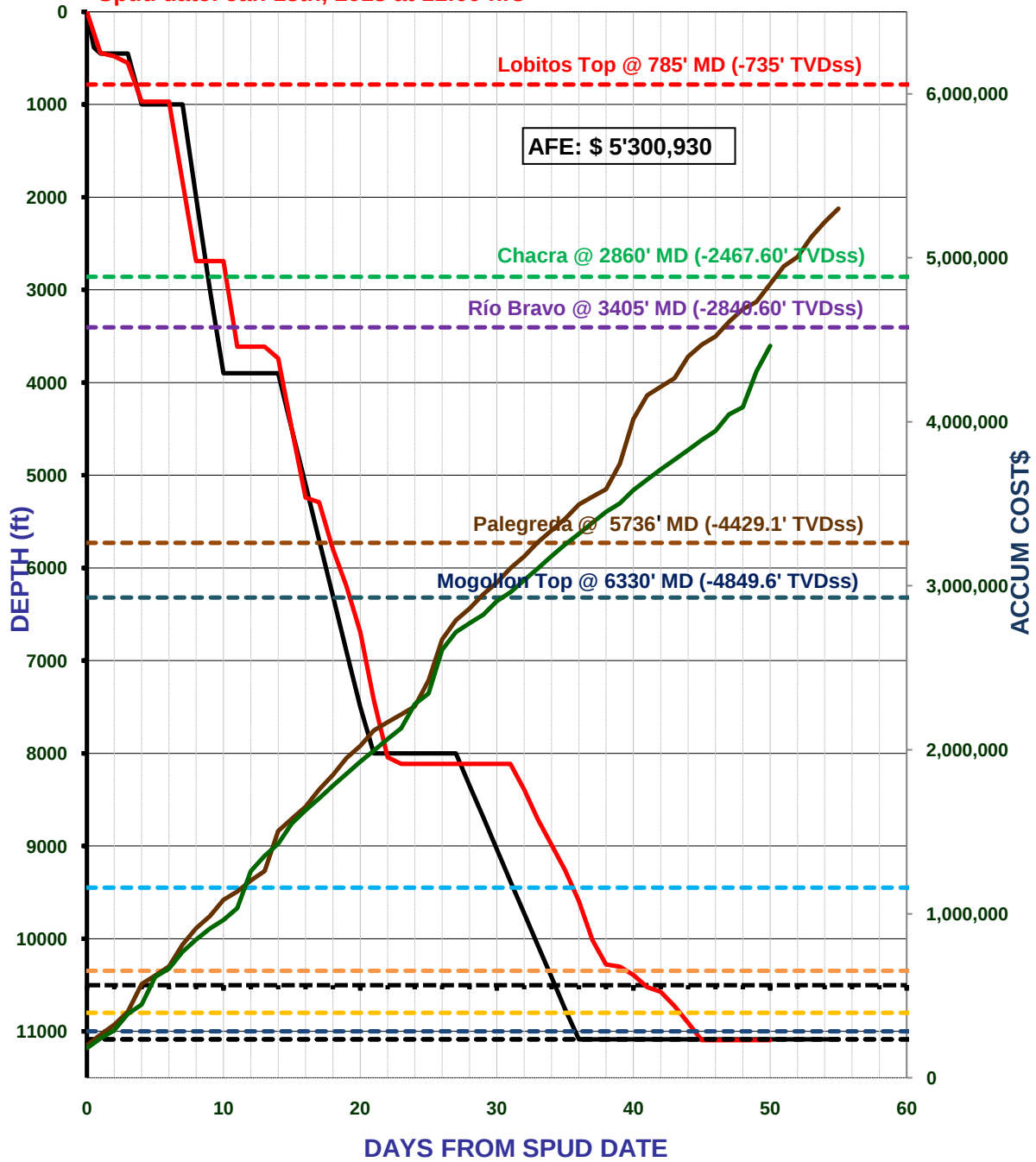
** In deviated wells, the difference between prognosis and the actual top might be influenced by the drift from the deviation plan.



SAVIA DRILLING PROGRESS CURVE

WELL : LO6-27D

Spud date: Jan 18th, 2013 at 11:00 hrs



LO6-27D MWD 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)
<i>Tie In</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>GYRO SURVEY N°1</i>	100.00	0.52	146.17	100.00	-0.38	0.25	0.29	0.45	146.17	0.52
<i>GYRO SURVEY N°1</i>	200.00	0.27	78.01	200.00	-0.70	0.74	0.48	1.02	133.77	0.49
<i>GYRO SURVEY N°1</i>	300.00	0.44	200.82	300.00	-1.01	0.83	0.75	1.31	140.73	0.63
<i>GYRO SURVEY N°1</i>	350.00	0.78	43.16	349.99	-0.95	0.99	0.64	1.37	133.58	2.40
<i>GYRO SURVEY N°1</i>	400.00	1.11	112.06	399.99	-0.88	1.68	0.38	1.89	117.70	2.21
<i>GYRO SURVEY N°1</i>	431.00	1.34	359.11	430.99	-0.63	1.95	0.07	2.05	107.92	6.60
<i>GYRO SURVEY N°2</i>	465.00	1.73	7.93	464.97	0.28	2.01	-0.82	2.03	82.20	1.34
<i>GYRO SURVEY N°4</i>	500.00	1.70	14.48	499.96	1.30	2.22	-1.86	2.57	59.57	0.57
<i>GYRO SURVEY N°5</i>	531.00	0.96	3.96	530.95	2.01	2.35	-2.58	3.09	49.50	2.50
<i>GYRO SURVEY N°6</i>	562.00	0.40	0.66	561.95	2.37	2.37	-2.93	3.35	44.94	1.81
<i>GYRO SURVEY N°7</i>	594.00	0.56	247.14	593.95	2.42	2.23	-2.94	3.29	42.55	2.52
<i>GYRO SURVEY N°8</i>	624.00	1.25	211.59	623.94	2.09	1.92	-2.54	2.84	42.57	2.86
<i>GYRO SURVEY N°8</i>	654.00	1.82	204.71	653.93	1.38	1.55	-1.75	2.07	48.35	1.99
<i>GYRO SURVEY N°9</i>	699.00	2.96	196.17	698.89	-0.39	0.93	0.12	1.00	112.74	2.65
<i>GYRO SURVEY N°9</i>	744.00	4.32	196.46	743.80	-3.13	0.12	2.98	3.13	177.77	3.02
<i>GYRO SURVEY N°10</i>	839.00	7.81	196.62	838.25	-12.75	-2.74	13.01	13.04	192.12	3.67
<i>GYRO SURVEY N°11</i>	914.00	9.82	190.73	912.37	-23.92	-5.32	24.47	24.51	192.55	2.93
<i>First 12 1/4" MWD-GR Survey</i>	1019.00	11.70	194.90	1015.52	-43.01	-9.73	44.03	44.10	192.75	1.94
	1114.00	15.40	199.70	1107.86	-64.20	-16.46	66.26	66.28	194.38	4.07
	1209.00	17.10	199.70	1199.06	-89.23	-25.42	92.78	92.78	195.90	1.79
	1304.00	18.30	199.50	1289.56	-116.44	-35.11	121.60	121.62	196.78	1.26
	1399.00	20.20	197.60	1379.25	-146.13	-45.05	152.88	152.92	197.13	2.11
	1493.00	23.10	196.90	1466.61	-179.25	-55.32	187.55	187.60	197.15	3.10
	1588.00	26.20	199.20	1552.94	-216.90	-67.64	227.12	227.20	197.32	3.42
	1682.00	29.10	200.10	1636.20	-257.97	-82.32	270.64	270.79	197.70	3.12
	1778.00	31.50	199.90	1719.08	-303.48	-98.88	318.95	319.18	198.05	2.50
	1873.00	33.90	198.80	1799.02	-351.91	-115.87	370.17	370.49	198.22	2.60
	1968.00	36.20	195.40	1876.79	-404.04	-131.86	424.69	425.02	198.07	3.18
	2063.00	38.10	194.60	1952.51	-459.46	-146.70	482.05	482.31	197.71	2.06
	2158.00	40.20	194.80	2026.18	-517.22	-162.60	541.96	542.17	197.45	2.21
	2254.00	43.00	196.10	2097.96	-578.64	-179.60	605.68	605.87	197.24	3.05
	2348.00	45.60	196.90	2165.23	-641.57	-198.25	671.32	671.51	197.17	2.83
	2444.00	45.90	197.10	2232.22	-707.33	-218.35	740.07	740.27	197.16	0.35
	2539.00	45.80	196.90	2298.39	-772.52	-238.28	808.22	808.43	197.14	0.18
	2634.00	46.90	195.60	2363.96	-838.51	-257.51	876.96	877.16	197.07	1.52
	2729.00	47.30	195.00	2428.63	-905.64	-275.87	946.54	946.72	196.94	0.63
	2823.00	47.20	195.00	2492.44	-972.31	-293.74	1015.56	1015.71	196.81	0.11
	2919.00	47.00	195.00	2557.79	-1040.24	-311.94	1085.88	1086.00	196.69	0.21
	3013.00	47.00	195.00	2621.90	-1106.64	-329.73	1154.62	1154.72	196.59	0.00
	3107.00	46.60	194.70	2686.24	-1172.88	-347.30	1223.13	1223.21	196.49	0.48
	3201.00	46.00	194.10	2751.19	-1238.70	-364.20	1291.07	1291.13	196.38	0.79
	3295.00	46.30	194.30	2816.31	-1304.42	-380.83	1358.83	1358.87	196.28	0.35
	3391.00	48.40	194.60	2881.35	-1372.79	-398.45	1429.41	1429.44	196.19	2.20
	3486.00	48.40	194.10	2944.42	-1441.61	-416.06	1500.43	1500.45	196.10	0.39
<i>Last 12 1/4" MWD-GR Survey</i>	3558.00	47.70	193.70	2992.55	-1493.59	-428.92	1553.95	1553.96	196.02	1.06
<i>First 8 1/2" MWD-GR Survey</i>	3670.00	47.30	193.10	3068.36	-1573.77	-448.10	1636.32	1636.32	195.89	0.52
	3763.00	47.70	193.20	3131.19	-1640.54	-463.70	1704.81	1704.81	195.78	0.44
	3858.00	47.50	194.10	3195.25	-1708.71	-480.25	1774.91	1774.92	195.70	0.73
	3953.00	47.20	194.10	3259.61	-1776.48	-497.27	1844.75	1844.76	195.64	0.32
	4048.00	46.10	193.80	3324.83	-1843.52	-513.93	1913.80	1913.82	195.58	1.18
	4143.00	46.50	193.40	3390.46	-1910.28	-530.08	1982.43	1982.46	195.51	0.52
	4238.00	46.60	195.60	3455.80	-1977.04	-547.34	2051.37	2051.41	195.47	1.68
	4333.00	46.50	197.00	3521.13	-2043.23	-566.70	2120.33	2120.36	195.50	1.08
	4427.00	46.80	197.50	3585.66	-2108.51	-586.97	2188.66	2188.69	195.56	0.50
	4522.00	47.80	196.40	3650.08	-2175.29	-607.32	2258.46	2258.48	195.60	1.35
	4616.00	47.70	197.70	3713.29	-2241.81	-627.72	2328.02	2328.04	195.64	1.03
	4711.00	48.10	197.40	3776.98	-2309.02	-648.97	2398.48	2398.49	195.70	0.48
	4807.00	47.00	197.60	3841.77	-2376.58	-670.27	2469.28	2469.29	195.75	1.16
	4901.00	47.40	197.10	3905.64	-2442.41	-690.84	2538.23	2538.23	195.79	0.58
	4996.00	47.70	196.10	3969.76	-2509.58	-710.86	2608.32	2608.32	195.82	0.84
	5092.00	47.00	196.30	4034.80	-2577.39	-730.56	2678.93	2678.93	195.83	0.75
	5187.00	46.50	196.10	4099.89	-2643.83	-749.86	2748.12	2748.12	195.83	0.55
	5284.00	46.30	195.60	4166.79	-2711.41	-769.05	2818.36	2818.36	195.84	0.43
	5379.00	46.00	195.80	4232.60	-2777.36	-787.59	2886.87	2886.87	195.83	0.35
	5475.00	45.90	195.60	4299.35	-2843.79	-806.26	2955.87	2955.87	195.83	0.18
	5570.00	46.00	195.50	4365.40	-2909.57	-824.56	3024.15	3024.15	195.82	0.13
	5664.00	46.90	195.40	4430.16	-2975.23	-842.71	3092.28	3092.28	195.81	0.96
	5758.00	47.20	194.50	4494.21	-3041.71	-860.46	3161.07	3161.07	195.80	0.77
	5854.00	47.70	194.20	4559.13	-3110.22	-877.99	3231.77	3231.77	195.76	0.57
	5949.00	45.70	193.30	4624.28	-3177.37	-894.43	3300.86	3300.86	195.72	2.22
	6043.00	43.90	194.60	4690.98	-3241.65	-910.38	3367.05	3367.06	195.69	2.15

	6137.00	43.30	196.30	4759.05	-3304.13	-927.65	3431.87	3431.88	195.68	1.40
	6232.00	43.30	197.00	4828.19	-3366.55	-946.31	3497.01	3497.02	195.70	0.51
	6327.00	43.10	197.70	4897.45	-3428.62	-965.71	3562.02	3562.03	195.73	0.55
	6422.00	44.70	197.70	4965.90	-3491.37	-985.73	3627.86	3627.86	195.77	1.68
	6515.00	45.90	198.60	5031.31	-3554.19	-1006.33	3693.90	3693.90	195.81	1.46
	6610.00	46.70	199.20	5096.94	-3619.16	-1028.58	3762.49	3762.49	195.87	0.96
	6705.00	46.90	198.80	5161.98	-3684.64	-1051.12	3831.63	3831.64	195.92	0.37
	6800.00	49.20	198.50	5225.48	-3751.58	-1073.71	3902.20	3902.21	195.97	2.43
	6895.00	49.30	198.60	5287.49	-3819.81	-1096.61	3974.08	3974.11	196.02	0.13
	6990.00	49.20	195.00	5349.51	-3888.69	-1117.41	4046.02	4046.05	196.03	2.87
	7084.00	48.70	194.10	5411.25	-3957.30	-1135.22	4116.89	4116.91	196.01	0.90
	7179.00	48.50	193.00	5474.07	-4026.58	-1151.91	4188.09	4188.10	195.96	0.89
	7274.00	47.10	193.70	5537.88	-4095.05	-1168.16	4258.40	4258.41	195.92	1.57
	7368.00	48.10	194.40	5601.27	-4162.38	-1185.01	4327.78	4327.78	195.89	1.20
	7462.00	48.10	193.60	5664.05	-4230.27	-1201.94	4397.71	4397.71	195.86	0.63
	7557.00	47.60	192.80	5727.80	-4298.84	-1218.02	4468.06	4468.06	195.82	0.82
	7652.00	48.20	194.60	5791.49	-4367.32	-1234.72	4538.50	4538.50	195.79	1.54
	7746.00	47.30	194.10	5854.69	-4434.72	-1251.97	4608.05	4608.06	195.76	1.04
	7842.00	47.50	194.60	5919.67	-4503.18	-1269.48	4678.70	4678.70	195.74	0.44
	7936.00	47.40	194.70	5983.24	-4570.18	-1287.00	4747.93	4747.94	195.73	0.13
	8031.00	47.90	194.70	6047.24	-4638.09	-1304.81	4818.12	4818.13	195.71	0.53
<i>Last 8 1/2" MWD-GR Survey</i>	8056.00	47.70	194.80	6064.03	-4656.00	-1309.53	4836.64	4836.65	195.71	0.85
<i>Fisrt 6 1/8" MWD-GR Survey</i>	8151.00	47.80	196.20	6127.91	-4723.76	-1328.32	4906.97	4906.96	195.71	1.10
	8245.00	46.90	197.00	6191.59	-4790.02	-1348.07	4976.10	4976.09	195.72	1.14
	8339.00	45.20	197.70	6256.83	-4854.61	-1368.24	5043.74	5043.74	195.74	1.89
	8434.00	45.40	197.80	6323.65	-4918.92	-1388.83	5111.23	5111.22	195.77	0.22
	8528.00	44.80	198.70	6390.00	-4982.16	-1409.68	5177.75	5177.75	195.80	0.93
	8623.00	46.20	198.90	6456.59	-5046.30	-1431.51	5245.41	5245.41	195.84	1.48
	8717.00	46.20	198.90	6521.65	-5110.49	-1453.49	5313.16	5313.16	195.88	0.00
	8812.00	45.50	198.70	6587.82	-5175.01	-1475.46	5381.23	5381.24	195.91	0.75
	8906.00	46.10	198.30	6653.35	-5238.92	-1496.84	5448.55	5448.56	195.95	0.71
	9001.00	48.00	197.50	6718.08	-5305.09	-1518.20	5518.03	5518.05	195.97	2.09
	9095.00	48.30	197.50	6780.80	-5371.87	-1539.26	5588.02	5588.05	195.99	0.32
	9190.00	46.60	197.70	6845.04	-5438.57	-1560.42	5657.97	5658.00	196.01	1.80
	9284.00	47.00	197.50	6909.38	-5503.89	-1581.14	5726.46	5726.50	196.03	0.45
	9379.00	47.70	197.60	6973.75	-5570.51	-1602.21	5796.30	5796.35	196.05	0.74
	9473.00	47.00	198.20	7037.43	-5636.30	-1623.45	5865.40	5865.45	196.07	0.88
	9568.00	45.10	199.00	7103.36	-5701.12	-1645.26	5933.71	5933.77	196.10	2.09
	9662.00	44.30	199.60	7170.18	-5763.52	-1667.11	5999.70	5999.79	196.13	0.96
	9757.00	42.60	200.30	7239.14	-5824.94	-1689.40	6064.87	6064.98	196.17	1.86
	9851.00	41.20	201.00	7309.11	-5883.68	-1711.53	6127.42	6127.56	196.22	1.57
	9946.00	40.50	201.90	7380.97	-5941.51	-1734.25	6189.26	6189.44	196.27	0.96
	10040.00	39.20	203.10	7453.13	-5997.16	-1757.29	6249.08	6249.32	196.33	1.61
	10134.00	38.30	204.20	7526.44	-6051.05	-1780.88	6307.37	6307.68	196.40	1.21
	10229.00	37.20	205.30	7601.56	-6103.87	-1805.23	6364.82	6365.23	196.48	1.36
	10324.00	36.90	205.40	7677.30	-6155.60	-1829.70	6421.30			0.32
<i>Last 6 1/8" MWD-GR Survey</i>	10419.00	37.50	205.10	7753.00	-6207.60	-1854.20	6477.90			0.66
PROJECTION TO TOTAL DEPTH	10513.00	35.60	204.50	7828.50	-6258.40	-1877.50	6533.20			2.06
	11095.00	23.98	200.78	8332.90	-6523.60	-1990.10	6819.00			2.02



REPORT N° 1

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	20-Jan-13
Mud Loggers:	<i>G. Cardoza/O. Ojeda</i>	REPORT DATE :	21-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	480	PROGRESS 00h00-24h00 (ft):	72
Depth @ 24h00 (ft):	552	CONDUCTOR (ft):	18" 438
Depth @ 06h00 (ft):	608	DRILLING DAYS:	3

Operations summary:

Run 13 3/8" Kangaroo POOH to surface. filled with cuttings but no recovered debris.Observed leak in wash pipe of TD. Remove wash pipe, observed washout on wash pipe upper seal face.Pepesa welder filled washout on upper face seal of wash pipe with solder and perform refacing. install wash pipe and rotary hose,pressure test with TD manual valve close with 3000 psi ok.M/U & RIH 16" magnet to 480 ft. Don't recovered debris. M/U & RIH 17" directional BHA to 480 ft.drill rotate from 480 ft to 517 ft. with 500 gpm, 540 psi. drill slide from 517 ft to 552 ft. with 600 gpm, 1000 psi.take gyro survey each joint.

Present operations:

Drill sliding on Talara fm at 642'MD.

Prognosed operations:

Drill ahead 17" at csg point.

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: Spud mud
Mud Weight (ppg): 9.5
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos			50.00		

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	100 174	US\$
CUMULATED	389 474	US\$



SAVIA
PERÚ

REPORT N° 2

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 552
Depth @ 24h00 (ft): 968
Depth @ 06h00 (ft): 968

OPERATIONS DATE : 21-Jan-13
REPORT DATE : 22-Jan-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 416
CONDUCTOR (ft): 18" 438
DRILLING DAYS: 4

Operations summary:

Drilled rotating & sliding from 552' to 968' MD (416ft total). ROP average 34 ft/hr.

Present operations:

L/D 17" Directional BHA.

Prognosed operations:

Run 13 3/8" csg & cement, WOC, L/D 21 1/4" BOP. Test BOP. M/U 5" DP.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
HELICO	620 - 680	-	10		20	70					NF	SD: wh, hyal, trans, lt gy, 20%vf, 60%f, 20%m, tr qtz grns, sbang/sbrnd, f srt. SST: md dk gy, md gy, v/f qtz grns, hyal, trans, sbang/sbrnd, w srt, calc cmnt, arg mtb, md fri/fri, occ const, w/dk & lithcs grns incl, p vis por. CLYST: oliv blk, oliv gy, occ dk gy, blk/sbbly, frm/md frm, sl slble, mic mic, mic carb, sl calc, earthy surf. TG: 0 C1: 0 C2: 0 C3: 0 C4: 0 C5: 0
HELICO	680 - 785	74	20		40	40					NF	SD: wh, hyal, trans, lt gy, 20%vf, 60%f, 20%m, tr qtz grns, sbang/sbrnd, f srt. SST: md dk gy, md gy, v/f qtz grns, hyal, trans, sbang/sbrnd, w srt, calc cmnt, arg mtb, md fri/fri, occ const, w/dk & lithcs grns incl, p vis por. CLYST: oliv blk, oliv gy, occ dk gy, blk/sbbly, frm/md frm, sl slble, mic mic, mic carb, sl calc, earthy surf. TG: 5 C1: 549 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	785 - 968	47	100								NF	CLYST: oliv blk, brn'sh gy, occ md dk gy, blk/sbbly, md sft, md frm i/p, sl slble, mic mic, mic carb, sl calc, earthy surf. TG: 8 C1: 767 C2: 1 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
0	0.00	0.00	0.00	50.00	0.00	0.00	0.00
100	0.52	146.17	100.00	-50.00	0.45	-0.38	0.25
200	0.27	78.01	200.00	-150.00	1.02	-0.70	0.74
300	0.44	200.82	300.00	-250.00	1.31	-1.01	0.83
350	0.78	43.16	349.99	-299.99	1.37	-0.95	0.99
400	1.11	112.06	399.99	-349.99	1.89	-0.88	1.68
431	1.34	359.11	430.99	-380.99	2.05	-0.63	1.95
465	1.73	7.93	464.97	-414.97	2.03	0.28	2.01
500	1.70	14.48	499.96	-449.96	2.57	1.30	2.22
531	0.96	3.96	530.95	-480.95	3.09	2.01	2.35
562	0.40	0.66	561.95	-511.95	3.35	2.37	2.37
594	0.56	247.14	593.95	-543.95	3.29	2.42	2.23
624	1.25	211.59	623.94	-573.94	2.84	2.09	1.92
654	1.82	204.71	653.93	-603.93	2.07	1.38	1.55
699	2.96	196.17	698.89	-648.89	1.00	-0.39	0.93
744	4.32	196.46	743.80	-693.80	3.13	-3.13	0.12
839	7.81	196.62	838.25	-788.25	13.04	-12.75	-2.74
914	9.82	190.73	912.37	-862.37	24.52	-23.92	-5.39
*968	11.16	190.73	965.46	-915.46	34.34	-33.58	-7.22

Mud information:

Type: Spud mud
Mud Weight (ppg): 9.5
Viscosity (sec): 45
Filtrate (ml): -

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

* This survey is projection to 17" bit.

Well Cost:

AFE	5 300 930	US\$
DAILY	57 004	US\$
CUMULATED	446 478	US\$



REPORT N° 3

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	22-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	23-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	968	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	968	CSG (ft):	13 3/8" 966
Depth @ 06h00 (ft):	968	DRILLING DAYS:	5

Operations summary:

PO at conductor shoe. RIH at bottom. Circulated. POOH. L/D directional BHA. Run 13 3/8" csg to 966'ft. Cement csg, ok.

Present operations:

N/U 13 5/8" BOP.

Prognosed operations:

N/U & test 13 3/8"x5mts BOP. M/U 5" DP in stands in derrick. M/U & RIH 12 1/4 directional BHA. TOC.

Lithology summary:

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

Surveys:

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

Mud information:

Type:
Mud Weight (ppg):
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	168 925	US\$
CUMULATED	615 403	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 968
Depth @ 24h00 (ft): 968
Depth @ 06h00 (ft): 968

OPERATIONS DATE : 23-Jan-13
REPORT DATE : 24-Jan-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 0
CSG (ft): 13 3/8" 966
DRILLING DAYS: 6

Operations summary:

Installed BOP & flow line. Tested BOP & lines, Ok. Installed wash pipe in top drive. M/U 57x5" DP in stands in derrick.

Present operations:

RIH 12 1/4" directional BHA at 490' MD.

Prognosed operations:

RIH 12 1/4" directional BHA. Tag cement. DOC, float collar csg shoe, drill 10' ft of formation, FIT, drill ahead.

Lithology summary:

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

Surveys:

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

Mud information:

Type:
 Mud Weight (ppg):
 Viscosity (sec):
 Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

Well Cost:

AFE 5 300 930 US\$
 DAILY 50 343 US\$
 CUMULATED 665 746 US\$



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REPORT N° 5

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	24-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	25-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	968	PROGRESS 00h00-24h00 (ft):	866
Depth @ 24h00 (ft):	1834	CSG (ft):	13 3/8" 966
Depth @ 06h00 (ft):	2292	DRILLING DAYS:	7

Operations summary:

M/U & RIH 12 1/4" directional BHA.TOC at 925'MD. Drill out cement from 925' to 951'MD. CIT w/1000 psi, Ok. Drill out cement from 951' to 968'MD. Drilled formation from 968' to 978'MD. Displaced contaminated mud w/10ppg new mud. Perform FIT. Drilled from 978' to 1834'MD.

Present operations:

Drill in Talara fm at 2360'MD.

Prognosed operations:

Drill ahead on Talara fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %			Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	968 - 1118	156	80		20					NF	CLYST: oliv blk, oliv gy, brn'sh gy, mn'r md dk gy, earthy, blk/sbbilky, sbpity i/p, irr, md sft, md frm, slty i/p, sl slble, mic mic, mic carb, sl calc. SST: md dk gy, md gy, mn'r oliv gy, vf/f qtz grns, hyal, trns, sbang/sbrnd, w srt, occ arg mtz, calc cmnt, md consl/md fri, occ tight, w/dk lithcs grns incl, p vis por. TG: 7 C1: 699 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	1118 - 1338	243	90		10					NF	CLYST: oliv blk, oliv gy, brn'sh gy, mn'r md dk gy, earthy, blk/sbbilky, occ sbpity, occ irr, md sft/md frm, slty i/p, sl slble, mic mic, mic carb, sl calc. SST: md dk gy, md gy, mn'r oliv gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtz, calc cmnt, md fri/md consl, occ tight, w/dk min incl, p vis por. TG: 9 C1: 866 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	1338 - 1670	242	100							NF	CLYST: oliv blk, brn'sh blk, oliv gy, mn'r md dk gy, earthy, blk/sbbilky, occ sbpity, md sft/md frm, slty i/p, sl sle, mic mic, mic carb, sl calc, TG: 7 C1: 657 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	1670 - 1825	255	40		50	10				NF	CLYST: oliv blk, oliv gy, brn'sh gy, mn'r md dk gy, earthy, blk/sbbilky, occ sbpity, occ irr, md sft/md frm, slty i/p, sl slble, mic mic, mic carb, sl calc. SST: md dk gy, md gy, mn'r oliv gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtz, calc cmnt, md fri/md consl, occ tight, w/dk min incl, p vis por. SD: wh, 80% vf/f tr, 20% m, hyal, transl, sbang/sbrnd, f srt, w/dk lithcs grns. TG: 8 C1: 884 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	1825 - 2053	232	90	10			TR			NF	CLYST: oliv blk, oliv gy, brn'sh gy, mn'r md dk gy, earthy, blk/sbbilky, occ sbpity, occ irr, md sft/md frm, slty i/p, sl slble, mic mic, mic carb, sl calc. SLST: md dk gy, oliv gy, earthy, blk/sbbilky, occ irr, md frm, mic mic, mic carb, grd to vf sst, sl calc. LSMT-DOL: dk yell'sh brn, earthy, blk/sbbilky, frm/md hd, irr. TG: 7 C1: 670 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	2053 - 2240	224	90	TR			10			NF	CLYST: oliv blk, oliv gy, brn'sh gy, mn'r md dk gy, earthy, blk/sbbilky, occ sbpity, occ irr, md sft/md frm, slty i/p, sl slble, mic mic, mic carb, sl calc. SLST: md dk gy, oliv gy, earthy, blk/sbbilky, occ irr, md frm, mic mic, mic carb, grd to vf sst, sl calc. LSMT-DOL: dk yell'sh brn, earthy, blk/sbbilky, frm/md hd, irr. TG: 6 C1: 636 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)
1019	11.70	194.90	1015.52	-965.52	44.10	-43.01	-9.73
1114	15.40	199.70	1107.86	-1057.86	66.28	-64.20	-16.46

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.0
Viscosity (sec): 47

1209	17.10	199.70	1199.06	-1149.06	92.78	-89.23	-25.42
1304	18.30	199.50	1289.56	-1239.56	121.62	-116.44	-35.11
1399	20.20	197.60	1379.25	-1329.25	152.92	-146.13	-45.05
1493	23.10	196.90	1466.61	-1416.61	187.60	-179.25	-55.32
1588	26.20	199.20	1552.94	-1502.94	227.20	-216.90	-67.64
1682	29.10	200.10	1636.20	-1586.20	270.79	-257.97	-82.32
1778	31.50	199.90	1719.08	-1669.08	319.18	-303.48	-98.88
1873	33.90	198.80	1799.02	-1749.02	370.49	-351.91	-115.87
1968	36.20	195.40	1876.79	-1826.79	425.02	-404.04	-131.86
2063	38.10	194.60	1952.51	-1902.51	482.31	-459.46	-146.70
2158	40.20	194.80	2026.18	-1976.18	542.21	-517.47	-161.92
2254	43.00	196.10	2097.96	-2047.96	605.91	-578.89	-178.92

Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	102 766	US\$
CUMULATED	768 512	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	25-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	26-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	1834	PROGRESS 00h00-24h00 (ft):	856
Depth @ 24h00 (ft):	2690	CSG (ft):	13 3/8" 966
Depth @ 06h00 (ft):	2690	DRILLING DAYS:	8

Operations summary:

Drilled from 1834' to 1595'MD. Circulated. Short trip at 13 3/8" csg shoe to condition hole. RIH at bottom. Continued drilling from 2595' to 2690'MD. Pepesa Unit crane (model 480-H, serial 01871) out of service. Crane Turntable cracked. Circulated. Sent viscosity pill. PO at 13 3/8" csg shoe. Waiting for Mr. Bob barge with new crane to replace Pepesa Crane.

Present operations:

Waiting for Mr. Bob barge with new crane, replace Pepesa Crane.

Prognosed operations:

Replace Pepesa Crane.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	2240 - 2400	279	90	TR			10				NF	CLYST: md dk gy, oliv blk, oliv gy, dk gy, earthy, blk/sbblky, occ sbplty, irr, md sft/md frm, occ sft, sl slble, mic mic, mic carb, non/sl calc. LMST-DOL: dk yell'sh brn, earthy, blk/sbblky, md frm, mic carb, mass aspect. SLST: md dk gy, oliv gy, earthy, blk/sbblky, occ irr, md frm, mic mic, mic carb, grd to vf sst, sl calc. TG: 12 C1: 1170 C2: 12 C3: 2 C4: 0 C5: 0
LOBITOS	2400 - 2690	223	90	10			TR				NF	CLYST: oliv blk, oliv gy, occ brn'sh gy, earthy/smooth i/p, blk/sbblky, occ sbplty, irr, md sft/md frm, occ sl slble, occ w/gluc incl, mic mic, mic carb, calc. SLST: md gy, md dk gy, earthy, blk/sbblky, occ irr, mod frm, mic mic, mic carb, grad to vf sst, sl calc. LMST-DOL: dk yell'sh brn, earthy, blk/sbblky, md frm, mic carb, mass aspect. TG: 18 C1: 1686 C2: 16 C3: 2 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2348	45.60	196.90	2165.20	-2115.20		-641.60	-198.20
2444	45.90	197.10	2232.20	-2182.20		-707.30	-218.40
2539	45.80	196.90	2298.40	-2248.40		-772.50	-238.30
2634	46.90	195.60	2364.00	-2314.00		-838.50	-257.50

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.0
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

Well Cost:

AFE 5 300 930 US\$
DAILY US\$
CUMULATED US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	27-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	28-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	2690	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2690	CSG (ft):	13 3/8" 966
Depth @ 06h00 (ft):	2872	DRILLING DAYS:	10

Operations summary:

Mr Bob barge wait on daylight. Mr Bob barge approach to west side of platform to replace platform crane. IMI personnel perform maneuver and Rig down Pepesa Unit crane. and rig up Savia LB 043 crane to platform LO6.

Present operations:

Drill on Talara Fm. Lobitos Mbr. At 2980'MD.

Prognosed operations:

Drill ahead at csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	2690 - 2860	152	90	10			TR				NF	CLYST: oliv blk, oliv gy, occ brn'sh gy, earthy/smooth i/p, blkly/sbbilky, occ sbply, irr, md sft/md frm, occ sl slble, occ w/gluc incl, mic mic, mic carb, calc. SLST: md gy, md dk gy, earthy, blkly/sbbilky, occ irr, mod frm, mic mic, mic carb, grad to vf sst, sl calc. LMST-DOL: dk yell'sh brn, earthy, blkly/sbbilky, md frm, mic carb, mass aspect. TG: 18 C1: 1236 C2: 16 C3: 2 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2729	47.30	195.00	2428.63	-2378.63	946.72	-905.64	-275.87
2823	47.20	195.00	2492.44	-2442.44	1015.71	-972.31	-293.74

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.0
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	52 675	US\$
CUMULATED	962 766	US\$



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REPORT N° 8

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	28-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	29-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	2690	PROGRESS 00h00-24h00 (ft):	924
Depth @ 24h00 (ft):	3614	CSG (ft):	13 3/8" 966
Depth @ 06h00 (ft):	3614	DRILLING DAYS:	11

Operations summary:

Drilled rotating & sliding from 2690' to 3614'MD. Circulated to recovered bottom sample. Csg point at 3614'MD. Continued circulated. Short trip. RIH at bottom. Circulated sent high vis pill. POOH.

Present operations:

L/D directional BHA.

Prognosed operations:

Run 9 5/8" csg. Cement job.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	2860 - 3170	194	80	20			TR				NF	CLYST: md dk gy, oliv gy, occ brn'sh gy, dk yell'sh brn, earthy, blkyl/sbbilky, sbang, sbrnd i/p, md frm/md sft, occ silty, sl slble, mic mic, mic carb, sl calc. SLST: md gy, md dk gy, earthy, blkyl/sbbilky, loc irr, md frm, mic mic, mic carb, grad to vf sst, sl calc. LMST-DOL: dk yell'sh brn, pal yell'sh brn, earthy, blkyl/sbbilky, frm/md frm, mi c carb. TG: 4 C1: 339 C2: 7 C3: 3 C4: 0 C5: 0
CHACRA	3170 - 3405	259	90	10							NF	CLYST: md dk gy, oliv gy, oliv blkyl, occ brn'sh gy, dk yell'sh brn, earthy, blkyl/sbbilky, sbply i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SLST: md gy, md dk gy, earthy, blkyl/sbbilky, occ irr, md frm, mic mic, mic carb, grad to vf sst, sl calc. TG: 8 C1: 766 C2: 14 C3: 9 C4: 3 C5: 1
RIO BRAVO	3405 - 3614	228	60		30	10					TR - 10	SD: wh, lt gy, occ dk lithcs grns, 20%vf, 60%f, 20%mqtz grns, hyal, transl, sbang/sbrnd, f srt. SST: md gy, md lt gy, vff qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtz, calc cmnt, md fri, occ fri, w/dk lithcs grns incl, p vis por. CLYST: md dk gy, oliv gy, oliv blkyl, occ brn'sh gy, dk yell'sh brn, earthy, blkyl/sbbilky, sbply i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SLST: md gy, md dk gy, earthy, blkyl/sbbilky, occ irr, md frm, mic mic, mic carb, grad to vf sst, sl calc. FLUO: NVOS, pin-point, faint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, milky wh res ring on UV, nos res ring at nat light. POS. TG: 9 C1: 822 C2: 18 C3: 14 C4: 6 C5: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2919	47.00	195.00	2557.79	-2507.79	1086.00	-1040.24	-311.94
3013	47.00	195.00	2621.90	-2571.90	1154.72	-1106.64	-329.73
3107	46.60	194.70	2686.24	-2636.24	1223.21	-1172.88	-347.30
3201	46.00	194.10	2751.19	-2701.19	1291.13	-1238.70	-364.20
3295	46.30	194.30	2816.31	-2766.31	1358.87	-1304.42	-380.83
3391	48.40	194.60	2881.35	-2831.35	1429.44	-1372.79	-398.45
3486	48.40	194.10	2944.42	-2894.42	1500.45	-1441.61	-416.06
3558	47.70	193.70	2992.55	-2942.55	1553.96	-1493.59	-428.92
*3614	47.30	193.50	3030.38	-2980.38	1595.21	-1533.72	-438.63

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.3
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks

*This survey is projected to 12 1/4" PDC bit.

Well Cost:

AFE	5 300 930	US\$
DAILY	71 065	US\$
CUMULATED	1 033 831	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	29-Jan-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	30-Jan-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	3614	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	3614	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	3614	DRILLING DAYS:	12

Operations summary:

Circulated. POOH & L/D directional BHA w/ 12 1/4" PDC. Run 9 5/8" casing 3614 ft. Circulated casing 9 5/8" w/ fill up tool with 300 gpm. Halliburton cement head. Continued circulate.

Present operations:

MU/ 13 5/8 BOP.

Prognosed operations:

BOP test. M/U 5" DP in stands. M/U directional BHA.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.3
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	225 983	US\$
CUMULATED	1 259 814	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3614
Depth @ 24h00 (ft): 3614
Depth @ 06h00 (ft): 3614

OPERATIONS DATE : 30-Jan-13
REPORT DATE : 31-Jan-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 0
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 13

Operations summary:

Cement 9 5/8" csg. Csg shoe at 1614'ft. Perform BOP tested and lines. Ok. R/U 5"DP and Phoenix tools. M/U 5"DP in stands & put in derrick.

Present operations:

M/U 8 1/2" directional BHA.

Prognosed operations:

Continue M/U & RIH 8 1/2" directional BHA. Tag cement. Drill on formation. CIT. Drill 8 1/2" hole.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
 Mud Weight (ppg): 10.3
 Viscosity (sec): 47
 Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90

Remarks**Well Cost:**

AFE 5 300 930 US\$
 DAILY 93 480 US\$
 CUMULATED 1 353 294 US\$



Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3614
Depth @ 24h00 (ft): 3738
Depth @ 06h00 (ft): 4051

OPERATIONS DATE : 31-Jan-13
REPORT DATE : 1-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 124
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 14

Operations summary:

Continued M/U 5" DP in stand and put in derrick. M/U & RIH 8 1/2" directional BHA w/ 8 1/2" PDC bit. DOC from 3599' to 3545'MD. CIT, OK. Continued drill out cement at 3614'MD. Drilled formation from 3614' to 3625'MD. FIT, OK. Displaced contaminated mud by new mud. Drilled rotating from 3625' to 3738'MD.

Present operations:

Drill on Rio Bravo fm. At 4051'MD.

Prognosed operations:

Drill ahead on Rio Bravo fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %			Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	3614 - 3720	104	70			30				NF	CLYST: md dk gy, oliv gy, oliv blk, blk/sbbiky, sbplty i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SD: hyal, occ wh, 30%vf, 60%f, 10%mqtz grns, transl, sbrnd, snag i/p, f srt. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	3720 - 3800	102	70	20	10					NF	CLYST: md dk gy, oliv gy, oliv blk, blk/sbbiky, sbplty i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SD: hyal, occ wh, 30%vf, 60%f, 10%mqtz grns, transl, sbrnd, snag i/p, f srt. SLST: md gy, md dk gy, earthy, blk/sbbiky, occ irr, md frm, mic mic, mic carb, grd to vf sst, sl calc. TG: 2 C1: 224 C2: 6 C3: 2 C4: 0 C5: 0
RIO BRAVO	3800 - 3911	109	30		40	30				10	CLYST: md dk gy, oliv gy, oliv blk, blk/sbbiky, sbplty i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SST: md gy, md lt gy, vfff qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mt, calc cmnt, md fri, w/dk lthcs grns incl, p vis por. SD: hyal, occ wh, 30%vf, 60%f, 10%mqtz grns, transl, sbrnd, snag i/p, f srt. FLUO: NVOS, pin-point, faint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 168 C2: 8 C3: 3 C4: 1 C5: 0
RIO BRAVO	3911 - 4040	77	20		30	50				10	CLYST: md dk gy, oliv gy, oliv blk, blk/sbbiky, sbplty i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SST: md gy, md lt gy, vfff qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mt, calc cmnt, md fri, w/dk lthcs grns incl, p vis por. SD: hyal, occ wh, 30%vf, 60%f, 10%mqtz grns, transl, sbrnd, snag i/p, f srt. FLUO: NVOS, pin-point, faint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 106 C2: 4 C3: 2 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3670	47.30	193.10	3068.36	-3018.36	1636.32	-1573.77	-448.10
3763	47.70	193.20	3131.19	-3081.19	1704.81	-1640.54	-463.70
3858	47.50	194.10	3195.25	-3145.25	1774.92	-1708.71	-480.25
3953	47.20	194.10	3259.61	-3209.61	1844.76	-1776.48	-497.27

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.4
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	73 602	US\$
CUMULATED	1 426 896	US\$



Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3738
Depth @ 24h00 (ft): 4495
Depth @ 06h00 (ft): 4495

OPERATIONS DATE : 1-Feb-13
REPORT DATE : 2-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 757
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 15

Operations summary:

Drilled rotating & sliding from 3738' to 4055'MD. Lost rotation. Continued rotation & worked string up/down, reduced mud weight from 10.5 to 10.2 ppg. Lost 100bbs of mud. Recovered rotation. Short trip at 9 5/8" csg shoe to conditioned mud. RIH at bottom. Continued drilled rotating & sliding from 4055' to 4495'MD. Between 4300' to 4995'MD lost 200bbs of mud. Circulated at 4995'MD. POOH at 4200'MD.

Present operations:

Drill on Rio Bravo fm. At 4540'MD.

Prognosed operations:

Drill ahead at csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	4040 - 4065	77	10	10	30	50					30	CLYST: md dk gy, oliv gy, oliv blk, blkyl/sbbly, sbply i/p, md frm/md sft, occ slty, sl slble, mic mic, mic carb, sl/non calc. SST: md gy, md lt gy, vfff qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx, calc cmnt, md fri, w/dk lithcs grns incl, p vis por. SD: hyal, occ wh, 30%vf, 60%f, 10%qm qtz grns, transl, sbrnd, snag i/p, f srt. SLST: md gy, md dk gy, earthy, blkyl/sbbly, occ irr, md frm, mic mic, mic carb, grad to vf sst, sl calc. FLUO: NVOS, pin-point, faint, pale yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, milky wh res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	4065 - 4168	76	30	20	30	20					5 - TR	CLYST: md dk gy, md gy, sbbly, sbply i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. SST: md gy, v occ v lt gy, 100%vf, smky, lt gy, occ hyal, sbrnd/snang, w srt, arg mtx, calc cmnt, md consl, md fri i/p, w/dk lithcs grns, p vis por. SLST: md gy, md dk gy, earthy, blkyl/irr, sbbly i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. SD: wh, lt gy, smky, occ hyal, 90%f, 10%qm, tr c qtz grns, sbrnd, occ sbang, w srt. FLUO: pin-point, faint, pale yell nat fluo, slow, weak, faint/pale, even, yell'sh wh cut fluo, vis res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	4168 - 4200	76	30	10	20	40					NF	SD: hyal, transl, lt gy, wh, 20%vf, 70%f, 10%qm, sbrnd, occ sbang, w-f sort. SST: v lt gy, occ lt gy, 20%vf, 80%f, hyal, lt gy, transl, sbrnd/sbang, w srt, kaol mtx, arg mtx i/p, calc cmnt, fri, w/dk lithcs & occ grn grns incl, p-f vis por. CLYST: md dk gy, md gy, sbbly, sbply i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. SLST: md gy, md dk gy, earthy, blkyl/irr, sbbly i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	4200 - 4336	92	30	20	30	20					NF	CLYST: md dk gy, md gy, sbbly, sbply i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. SST: md gy, v occ v lt gy, 100%vf, smky, lt gy, occ hyal, sbrnd/snang, w srt, arg mtx, calc cmnt, md consl, md fri i/p, w/dk lithcs grns, p vis por. SLST: md gy, md dk gy, earthy, blkyl/irr, sbbly i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. SD: wh, lt gy, smky, occ hyal, 90%f, 10%qm, tr c qtz grns, sbrnd, occ sbang, w srt. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0

RIO BRAVO	4336 - 4370	135	20	20	50	10					TR	SST: v lt gy, occ lt gy, 20%vf, 80%f, hyal, lt gy, transl, sbrnd/sbang, w srt, kaol mtz, arg mtz i/p, calc cmnt, fri, w/dk lithcs & occ gm grms incl, p-f vis por. SD: hyal, transl, lt gy, wh, 20%vf, 70%f, 10%m, sbrnd, occ sbang, w-f sort. CLYST: md dk gy, md gy, sbbly, sbpty i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. SLST: md gy, md dk gy, earthy, bly/irr, sbbly i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. FLUO: pin-point, faint, pale yell nat fluo, slow, weak, faint/pale, even, yell'sh wh cut fluo, vis res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	4370 - 4386	189	30	30	20	20					TR	CLYST: md dk gy, md gy, sbbly, sbpty i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. SST: md gy, v occ v lt gy, 100%vf, smky, lt gy, occ hyal, sbrnd/sbang, w srt, arg mtz, calc cmnt, md consl, md fri i/p, w/dk lithcs grms, p vis por. SLST: md gy, md dk gy, earthy, bly/irr, sbbly i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. SD: wh, lt gy, smky, occ hyal, 90%f, 10%m, tr c qtz grsn, sbrnd, occ sbang, w srt. FLUO: pin-point, faint, pale yell nat fluo, slow, weak, faint/pale, even, yell'sh wh cut fluo, vis res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0
RIO BRAVO	4386 - 4495	84	10		30	60					50	SD: hyal, transl, lt gy, wh, 20%vf, 70%f, 10%m, sbrnd, occ sbang, w-f sort. SST: v lt gy, occ lt gy, 20%vf, 80%f, hyal, lt gy, transl, sbrnd/sbang, w srt, kaol mtz, arg mtz i/p, calc cmnt, fri, w/dk lithcs & occ gm grms incl, p-f vis por. CLYST: md dk gy, md gy, sbbly, sbpty i/p, md frm, occ slty, mic mic, mic carb, non/v sl calc. FLUO: pin-point, faint, pale yell nat fluo, slow, weak, faint/pale, even, yell'sh wh cut fluo, vis res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 169 C2: 3 C3: 1 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4048	46.10	193.80	3324.83	-3274.83	1913.82	-1843.52	-513.93
4143	46.50	193.40	3390.46	-3340.46	1982.46	-1910.28	-530.08
4238	46.60	195.60	3455.80	-3405.80	2051.41	-1977.04	-547.34
4333	46.50	197.00	3521.13	-3471.13	2120.36	-2043.23	-566.70

Mud information:

Type:	Z MUD
Mud Weight (ppg):	10.4
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	123 476	US\$
CUMULATED	1 550 372	US\$



REPORT N° 13

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	2-Feb-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	3-Feb-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	4495	PROGRESS 00h00-24h00 (ft):	745
Depth @ 24h00 (ft):	5240	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	5256	DRILLING DAYS:	16

Operations summary:

Continued PO from 4200' to 9 5/8" csg shoe. Flow sheck, ok. Lost 12bbls of mud. Prepared 400 bbls of new mud. RIH at bottom. Drilled from 4495' to 5240'MD.

Present operations:

POOH directional BHA at 2712'MD.

Prognosed operations:

POOH. M/U & RIH conventional BHA at bottom. Pumped LCM pill. Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	4495 - 4568	54	10		30	60					20 - 60	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10% <i>m</i> , TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 82 C2: 4 C3: 2 C4: 1 C5: 0
RIO BRAVO	4568 - 4623	51	10		20	70					60 - 20	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10% <i>m</i> , TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 49 C2: 4 C3: 2 C4: 1 C5: 0
RIO BRAVO	4623 - 4718	63	10		30	60					30	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10% <i>m</i> , TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 46 C2: 6 C3: 3 C4: 2 C5: 0
RIO BRAVO	4718 - 4815	64	30	20	30	20					10	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10% <i>m</i> , TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 44 C2: 4 C3: 3 C4: 2 C5: 0

RIO BRAVO	4815 - 4900	84	20		20	60					10 - 25	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 2 C1: 126 C2: 5 C3: 3 C4: 2 C5: 0
RIO BRAVO	4900 - 4993	73	20		20	60					TR	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred lt gy, md gy, 100%vf, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 103 C2: 5 C3: 2 C4: 1 C5: 0
RIO BRAVO	4993 - 5030	65	20		20	60					TR	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred v lt gy, wh'sh gy, 100%f, tr m qtz grsn, sbang/sbrnd, w srt, kaol mtz & calc mtz, occ arg mtz, calc cmnt, md fri/fri, w/calc mat incl, w/dk lthcs grns incl, p-f vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 71 C2: 4 C3: 2 C4: 2 C5: 0
RIO BRAVO	5030 - 5120	61	30	10	40	20					TR - 10	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred lt gy, md gy, 100%vf, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. SLST: md gy, sbblky/sbplty, md frm, mic mic, mic carb, sl calc, earthy surf. FLUO: NVOS, pin-point, pale, gold yell nat fluo, slow, weak, pale, bloom, mlky wh cut fluo, yell'sh wh res ring under UV light, non res ring at nat light, POS. TG: 1 C1: 71 C2: 4 C3: 2 C4: 2 C5: 0
RIO BRAVO	5120 - 5256	65	30	10	20	40					NF	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred lt gy, md gy, 100%vf, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. CLYST: md gy, md dk gy, sbblky/blky, sbplty i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. SLST: md gy, sbblky/sbplty, md frm, mic mic, mic carb, sl calc, earthy surf. TG: 1 C1: 71 C2: 4 C3: 2 C4: 2 C5: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4427	46.80	197.50	3585.66	-3535.66	2188.69	-2108.51	-586.97
4522	47.80	196.40	3650.08	-3600.08	2258.48	-2175.29	-607.32
4616	47.70	197.70	3713.29	-3663.29	2328.04	-2241.81	-627.72
4711	48.10	197.40	3776.98	-3726.98	2398.49	-2309.02	-648.97
4807	47.00	197.60	3841.77	-3791.77	2469.29	-2376.58	-670.27
4901	47.40	197.10	3905.64	-3855.64	2538.23	-2442.41	-690.84
4996	47.70	196.10	3969.76	-3919.76	2608.32	-2509.58	-710.86
5092	47.00	196.30	4034.80	-3984.80	2678.93	-2577.39	-730.56
5187	46.50	196.10	4099.89	-4049.89	2748.12	-2643.83	-749.86

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.2
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10

Remarks

Well lost 100 bbls of drilling mud at 5256'MD. Drilling department decides POOH directional BHA to change by conventional BHA.

Well Cost:

AFE 5 300 930 US\$
DAILY 79 950 US\$
CUMULATED 1 630 322 US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	3-Feb-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	4-Feb-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	5240	PROGRESS 00h00-24h00 (ft):	50
Depth @ 24h00 (ft):	5290	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	5467	DRILLING DAYS:	17

Operations summary:

Drilled rotating & sliding from 5240' to 5256'MD. Well lost 40 bbls of mud while drilling. Pumped LCM pill & circulated. Lost 100 bbls more of drilling mud. Prepared & sent 70bbls LCM pill. POOH. L/D directional BHA. M/U & RIH conventional BHA w/ same 8 1/2" PDC bit. Drilled from 5240' to 5290'MD.

Present operations:

Drilling on Rio Bravo fm at 5500'MD.

Prognosed operations:

Drill ahead 8 1/2" hole w/conventional BHA.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5256 - 5450	40	20	TR	20	60					NF	SD: hyal, smky, transl, occ wh, smky, 10%vf, 80%f, 10%m, TR c qtz grns, sbrnd, sbang i/p, w-p srt. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. CLYST: md gy, md dk gy, sbblky/blky, sbply i/p, md frm, occ md sft, mic mic, mic carb, v sl/non calc, rough surf. SLST: md gy, sbblky/sbply, md frm, mic mic, mic carb, sl calc, earthy surf. TG: 1 C1: 27 C2: 3 C3: 2 C4: 1 C5: 0

Surveys:

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

Mud information:

Type:	Z MUD
Mud Weight (ppg):	10.5
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10

Remarks

450 bbls of mud lost from drill on Rio Bravo formation. Drilling with conventional BHA from 5256'MD, without MWD & GR.

Well Cost:

AFE	5 300 930	US\$
DAILY	73 908	US\$
CUMULATED	1 704 230	US\$



REPORT N° 15

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5290
Depth @ 24h00 (ft): 5798
Depth @ 06h00 (ft): 5798

OPERATIONS DATE : 4-Feb-13
REPORT DATE : 5-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 508
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 18

Operations summary:

Drilled rotating w/conventional BHA from 5290' to 5798'MD. Circulated, Pumped HVP, continued circulating. POOH at 150'MD.

Present operations:

RIH directional BHA at 4700'MD.

Prognosed operations:

Continue RIH at bottom. Drilling ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5450 - 5720	38	50	10	20	20					NF	CLYST: md gy, dk gy i/p, sbblky/sbply, occ blk, md frm, mic mic, mic carb, non/v sl calc, rough/earthy surf. SLSLT: md gy, sbblky/irr, md frm, mic mic, mic carb, v sl calc, earthy surf, frag to sst. SD: smky, lt gy, occ hyal, occ wh, 80%vf, 10%f, 10%m qtz grns, sbrnd/sbang, w-f srt. SST: md gy, occ v lt gy, 100%vf/f, occ m qtz grns, lt gy, smky, hyal, transl, sbang/sbrnd, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 1 C1: 25 C2: 3 C3: 2 C4: 0 C5: 0
RIO BRAVO	5720 - 5798	38	30	20	30	20					NF	CLYST: md gy, dk gy i/p, sbblky/sbply, occ blk, md frm, mic mic, mic carb, non/v sl calc, rough/earthy surf. SLSLT: md gy, sbblky/irr, md frm, mic mic, mic carb, v sl calc, earthy surf, frag to sst. SD: smky, lt gy, occ hyal, occ wh, 80%vf, 10%f, 10%m qtz grns, sbrnd/sbang, w-f srt. SST: md gy, occ v lt gy, 100%vf/f, occ m qtz grns, lt gy, smky, hyal, transl, sbang/sbrnd, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 2 C1: 163 C2: 5 C3: 3 C4: 0 C5: 0

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 10.6
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10

Remarks

Well Cost:

AFE 5 300 930 US\$
DAILY 76 573 US\$
CUMULATED 1 780 803 US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	5-Feb-13
Mud Loggers:	<i>A. Pellegrin/O. Ojeda</i>	REPORT DATE :	6-Feb-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	5798	PROGRESS 00h00-24h00 (ft):	398
Depth @ 24h00 (ft):	6196	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	6323	DRILLING DAYS:	19

Operations summary:

L/D conventional BHA. M/U & RIH directional BHA w/ 8 1/2" PDC bit. RIH from 5261' to 5798' at rate of 2.5 ft/min to log gamma Ray. Drilled rotating & sliding from 5798' to 6196'MD.

Present operations:

Drill in Palegreda fm at 6360'MD.

Prognosed operations:

Drill ahead at csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
PALEGREDA	5798 - 5900	64	60	20	20						NF	CLYST: md dk gy, dk gy, earthy i/p, blk/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blk/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: md gy, occ v lt gy, 100%vf/f, occ m qtz grns, lt gy, smky, hyal, transl, sbang/sbrnd, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 9 C1: 866 C2: 9 C3: 5 C4: 1 C5: 0
PALEGREDA	5900 - 6190	56	80	20							NF	CLYST: md dk gy, dk gy, earthy i/p, blk/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blk/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. TG: 10 C1: 950 C2: 15 C3: 9 C4: 1 C5: 0
PALEGREDA	6190 - 6310	55	80	10			10				NF	CLYST: md dk gy, dk gy, earthy i/p, blk/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blk/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. LMST-DOL: dk yell'sh brn, palre brn, earthy, blk/sbblky, frm/md hd, mic carb i/p, mass aspect. TG: 11 C1: 1007 C2: 21 C3: 11 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5284	46.30	195.60	4166.79	-4116.79	2818.36	-2711.41	-769.05
5379	46.00	195.80	4232.60	-4182.60	2886.87	-2777.36	-787.59
5475	45.90	195.60	4299.35	-4249.35	2955.87	-2843.79	-806.26
5570	46.00	195.50	4365.40	-4315.40	3024.15	-2909.57	-824.56
5664	46.90	195.40	4430.16	-4380.16	3092.28	-2975.23	-842.71
5758	47.20	194.50	4494.21	-4444.21	3161.07	-3041.71	-860.46
5854	47.70	194.20	4559.13	-4509.13	3231.77	-3110.22	-877.99
5949	45.70	193.30	4624.28	-4574.28	3300.86	-3177.37	-894.43
6043	43.90	194.60	4690.98	-4640.98	3367.06	-3241.65	-910.38
6137	43.30	196.30	4759.05	-4709.05	3431.88	-3304.13	-927.65
6232	43.30	197.00	4828.19	-4778.19	3497.02	-3366.55	-946.31

Mud information:

Type:	Z MUD
Mud Weight (ppg):	10.8
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5736.0	4479.08	-4429.08	-3026.20	-856.40

Remarks

RIH from 5261' to 5798' at rate of 2.5 ft/min to log gamma Ray.

Well Cost:

AFE	5 300 930	US\$
DAILY	72 272	US\$
CUMULATED	1 853 075	US\$



Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6196
Depth @ 24h00 (ft): 6693
Depth @ 06h00 (ft): 6859

OPERATIONS DATE : 6-Feb-13
REPORT DATE : 7-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 497
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 20

Operations summary:

Drilled rotating & sliding from 6196' to 6588'MD. Connection Gas (8212'units). Circulated to condition mud, increased at 10.9ppg. Continued drilling rotating & sliding from 6588' to 6693'MD.

Present operations:

Drill in Mogollon fm. At 6900'MD.

Prognosed operations:

Drill ahead at csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
PALEGREDA	6310 - 6330	43	80	10	10						NF	CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 6 C1: 512 C2: 15 C3: 14 C4: 4 C5: 1
MOGOLLON	6330 - 6408	73	70	20	10						NF	CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 60 C1: 4812 C2: 171 C3: 184 C4: 57 C5: 18
MOGOLLON	6408 - 6434	43	30	20	10	40					NF	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10% m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf/f, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, p vis por. TG: 39 C1: 3194 C2: 130 C3: 101 C4: 33 C5: 7
MOGOLLON	6434 - 6470	135	10	20	10	60					NF	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10% m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. TG: 72 C1: 6007 C2: 232 C3: 174 C4: 54 C5: 7
MOGOLLON	6470 - 6495	71	10	10	10	70					NF	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10% m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtz, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. TG: 91 C1: 7249 C2: 349 C3: 263 C4: 78 C5: 11

MOGOLLON	6495 - 6535	40	10	10	10	70					10 - 25	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10%m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtb, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, md fast/slow, faint, pale/br, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, P-FOS. TG: 13 C1: 1050 C2: 44 C3: 35 C4: 15 C5: 3
MOGOLLON	6535 - 6590	74	10	10	10	70					10 - 25	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10%m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtb, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, md fast/slow, faint, pale/br, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, P-FOS. TG: 24 C1: 1885 C2: 85 C3: 64 C4: 24 C5: 3
MOGOLLON	6590 - 6670	58	10	10	10	70					10 - 25	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10%m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtb, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, md fast/slow, faint, pale/br, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, P-FOS. TG: 102 C1: 7596 C2: 422 C3: 359 C4: 133 C5: 25
MOGOLLON	6670 - 6850	63	10	10	10	70					10 - 30	SD: smky, lt gy, occ hyal, occ wh, 10%vf, 80%f, 10%m qtz grns, sbrnd/sbang, w-f srt. CLYST: md dk gy, dk gy, earthy i/p, blkly/sbblky, sbplaty i/p, occ sblam, md frm, occ md sft, occ slty, mic mic, mic carb, non calc. SLST: md dk, md gy, earthy, blkly/sbblky, irr, md frm, mic mic, mic carb, occ mic pyr, grad to vf sst, sl calc. SST: pred lt gy, md gy, occ v lt gy, 100%vf, tr f qtz grns, sbrnd/sbang, smky, lt gy, occ hyal, w srt, arg mtb, calc cmnt, md consl, w/dk lithcs & grn'sh grns incl, p vis por. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, md fast/slow, faint, pale/br, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, P-FOS. TG: 102 C1: 7779 C2: 417 C3: 336 C4: 120 C5: 20

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6327	43.10	197.70	4897.45	-4847.45	3562.03	-3428.62	-965.71
6422	44.70	197.70	4965.90	-4915.90	3627.86	-3491.37	-985.73
6515	45.90	198.60	5031.31	-4981.31	3693.90	-3554.19	-1006.33
6610	46.70	199.20	5096.94	-5046.94	3762.49	-3619.16	-1028.58
6705	46.90	198.80	5161.98	-5111.98	3831.64	-3684.64	-1051.12
6800	49.20	198.50	5225.48	-5175.48	3902.21	-3751.58	-1073.71

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.0
Viscosity (sec): 47
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5736.0	4479.08	-4429.08	-3026.20	-856.40
Mogollon	6330.0	4899.64	-4849.64	-3430.58	-966.33

Remarks

At 6588' MD connection gas 8212 units.

Well Cost:

AFE 5 300 930 US\$
DAILY 73 731 US\$
CUMULATED 1 926 806 US\$



Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6693
Depth @ 24h00 (ft): 7426
Depth @ 06h00 (ft): 7521

OPERATIONS DATE : 7-Feb-13
REPORT DATE : 8-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 733
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 21

Operations summary:

Drilled rotating & sliding from 6693' to 7426'MD.

Present operations:

Drill in Mogollon fm at 7550'MD.

Prognosed operations:

Drill ahead to csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	6850 - 6980	56	10	10	20	60					20 - 5	SD: wh, 20%vf, 70%f, 10%qm qtz grns, hyal, transl, sbrnd/sbang, occ ang, w srt. SST: md lt gy, lt gy, occ md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtx, calc cmnt, md fri/fri, occ tight, w/dk lithcs & grn grns incl, p vis por. CLYST: md gy, dk gy, blk/sbblky, sbply i/p, md frm/md sft, occ slty, mic mic, mic carb, earthy surf, non calc. SLST: md gy, md dk gy, earthy, blk/sbblky, irr i/p, md frm, occ md sft, mic mic, mic carb, occ mic pyr incl, grad to vf sst, sl calc. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, slow, faint, pale, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, POS. TG: 65 C1: 5076 C2: 240 C3: 199 C4: 77 C5: 16
MOGOLLON	6980 - 7090	57	20	10	20	50					10 - TR	SD: wh, 20%vf, 70%f, 10%qm qtz grns, hyal, transl, sbrnd/sbang, occ ang, w srt. SST: md lt gy, lt gy, occ md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtx, calc cmnt, md fri/fri, occ tight, w/dk lithcs & grn grns incl, p vis por. CLYST: md gy, dk gy, blk/sbblky, sbply i/p, md frm/md sft, occ slty, mic mic, mic carb, earthy surf, non calc. SLST: md gy, md dk gy, earthy, blk/sbblky, irr i/p, md frm, occ md sft, mic mic, mic carb, occ mic pyr incl, grad to vf sst, sl calc. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, slow, faint, pale, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, POS. TG: 41 C1: 3416 C2: 136 C3: 89 C4: 26 C5: 5
MOGOLLON	7090 - 7280	61	30	20	30	20					TR	SD: wh, 20%vf, 70%f, 10%qm qtz grns, hyal, transl, sbrnd/sbang, occ ang, w srt. SST: md lt gy, lt gy, occ md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, occ arg mtx, calc cmnt, md fri/fri, occ tight, w/dk lithcs & grn grns incl, p vis por. CLYST: md gy, dk gy, blk/sbblky, sbply i/p, md frm/md sft, occ slty, mic mic, mic carb, earthy surf, non calc. SLST: md gy, md dk gy, earthy, blk/sbblky, irr i/p, md frm, occ md sft, mic mic, mic carb, occ mic pyr incl, grad to vf sst, sl calc. FLUO: NVOS, pin-point, pale, yell'sh wh nat fluo, slow, faint, pale, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, POS. TG: 39 C1: 3359 C2: 115 C3: 80 C4: 23 C5: 3

MOGOLLON	7280 - 7372	73	20	TR	30	50					10 - 15	SD: wh, 10%vf, 80%f, 10%m, hyal, transl, smky, sbang/sbrnd, occ ang, w srt. SST: md gy, md lt gy, vfff, occ m qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx i/p, calc cmnt, md consl/md fri, occ tight, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. CLYST: dk gy, md dk gy, occ gy/sh bl, blk/sbbiky, occ sbpty, md frm/md sft, occ frm, mic mic, mic carb, earthy/smooth surf, non calc. SLST: md gy, md dk gy, earthy, blk/sbbiky, irr i/p, md frm, occ md sft, mic mic, mic carb, occ mic pyr incl, grad to vf sst, sl calc. FLUO: NVOS, pin-point, pale/faint, yell'sh wh nat fluo, slow, faint, pale, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, POS. TG: 97 C1: 8448 C2: 246 C3: 177 C4: 54 C5: 6
MOGOLLON	7372 - 7521	81	30		40	30					5 - 15	SD: wh, 10%vf, 80%f, 10%m, hyal, transl, smky, sbang/sbrnd, occ ang, w srt. SST: md gy, md lt gy, vfff, occ m qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx i/p, calc cmnt, md consl/md fri, occ tight, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. CLYST: dk gy, md dk gy, occ gy/sh bl, blk/sbbiky, occ sbpty, md frm/md sft, occ frm, mic mic, mic carb, earthy/smooth surf, non calc. SLST: md gy, md dk gy, earthy, blk/sbbiky, irr i/p, md frm, occ md sft, mic mic, mic carb, occ mic pyr incl, grad to vf sst, sl calc. FLUO: NVOS, pin-point, pale/faint, yell'sh wh nat fluo, slow, faint, pale, bloom, wh'sh yell cut fluo, wh'sh yell res ring under UV light, non res ring on nat light, POS. TG: 25 C1: 2140 C2: 65 C3: 49 C4: 16 C5: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6895	49.30	198.60	5287.49	-5237.49	3974.11	-3819.81	-1096.61
6990	49.20	195.00	5349.51	-5299.51	4046.05	-3888.69	-1117.41
7084	48.70	194.10	5411.25	-5361.25	4116.91	-3957.30	-1135.22
7179	48.50	193.00	5474.07	-5424.07	4188.10	-4026.58	-1151.91
7274	47.10	193.70	5537.88	-5487.88	4258.41	-4095.05	-1168.16
7368	48.10	194.40	5601.27	-5551.27	4327.78	-4162.38	-1185.01
7462	48.10	193.60	5664.05	-5614.05	4397.71	-4230.27	-1201.94

Mud information:

Type:	Z MUD
Mud Weight (ppg):	11.0
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5736.0	4479.08	-4429.08	-3026.20	-856.40
Mogollon	6330.0	4899.64	-4849.64	-3430.58	-966.33

Remarks

We have drilled 1191 ft within Mogollon, so far; from which about 450'ft are Sandstones. This sandstones oil show traces at 15% natural fluorescence and C1 to NC5 gas readings.

-Restart of perforation at 06:15 hrs.

- Performed short trip to calibrate hole from 7521' to 5700'MD.

Well Cost:

AFE	5 300 930	US\$
DAILY	67 374	US\$
CUMULATED	1 994 180	US\$



Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7426
Depth @ 24h00 (ft): 8041
Depth @ 06h00 (ft): 8114

OPERATIONS DATE : 8-Feb-13
REPORT DATE : 9-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 615
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 22

Operations summary:

Drilled rotating & sliding from 7426' to 7521'MD. Circulated to recovered last sample. Short trip to calibrate from 7521' to 5700'MD. Tight & ream up/down. RIH at bottom. Circulated, gas 2900 units. Drilled rotating & sliding from 7521' to 8041'MD.

Present operations:

Continue POOH directional BHA at 3550'MD.

Prognosed operations:

Drill ahead 8 1/2" hole to csg point. Circulate bottom up, pump viscosity pill. POOH 8 1/2" PDC bit.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	7521 - 7630	65	20		10	70					NF	SD: wh, 20%vf, 70%f, 10% m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. SST: md lt gy, lt gy, md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, occ tight, md consl/md fri, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbplty, sbplty i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. TG: 27 C1: 2026 C2: 83 C3: 78 C4: 46 C5: 12
MOGOLLON	7630 - 7750	73	50	10	20	20					NF	CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbplty, sbplty i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. SD: wh, 20%vf, 70%f, 10% m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. SST: md lt gy, lt gy, md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, occ tight, md consl/md fri, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. SLST: md gy, md dk gy, earthy, blky/sbblky, irr, md frm, occ md sft, mic mic, mic carb, occ mic pyr on surf, grad to vf sst, v sl calc. TG: 28 C1: 2471 C2: 67 C3: 50 C4: 16 C5: 4
MOGOLLON	7750 - 7815	65	50		10	40					NF	CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbplty, sbplty i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. SD: wh, 20%vf, 70%f, 10% m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. SST: md lt gy, lt gy, md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, occ tight, md consl/md fri, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. TG: 43 C1: 3710 C2: 102 C3: 81 C4: 23 C5: 3
MOGOLLON	7815 - 7900	73	60	TR	20	20					NF	CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbplty, sbplty i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. SD: wh, 20%vf, 70%f, 10% m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. SST: md lt gy, lt gy, md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, occ tight, md consl/md fri, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. SLST: md gy, md dk gy, earthy, blky/sbblky, irr, md frm, occ md sft, mic mic, mic carb, occ mic pyr on surf, grad to vf sst, v sl calc. TG: 28 C1: 2442 C2: 61 C3: 46 C4: 13 C5: 3
MOGOLLON	7900 - 7980	68	50	40	10	TR					NF	CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbplty, sbplty i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. SLST: md gy, md dk gy, earthy, blky/sbblky, irr, md frm, occ md sft, mic mic, mic carb, occ mic pyr on surf, grad to vf sst, v sl calc. SST: md lt gy, lt gy, md gy, vf/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, occ tight, md consl/md fri, w/dk lithcs & grn grns incl, occ mic pyr on surf, p vis por. SD: wh, 20%vf, 70%f, 10% m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. TG: 23 C1: 2092 C2: 51 C3: 36 C4: 9 C5: 1

MOGOLLON	7980 - 8114	70	20		40	40					NF	SST: md lt gy, occlt gy, md gy, v/f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtx, occ tight, md consl/md fri, w/dk lithcs grns incl, occ mic pyr on surf, p vis por. SD: wh, 10%vf, 80%f, 10%m, tr c qtz grns, hyal, transl, sbang/sbrnd, occ ang, w srt. CLYST: dk gy, md dk gy, occ oliv gy, sbblky/sbply, sbply i/p, md frm, mic mic, mic carb, earthy/rough surf, non calc. TG: 30 C1: 2581 C2: 75 C3: 53 C4: 14 C5: 1
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Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7557	47.60	192.80	5727.80	-5677.80	4468.06	-4298.84	-1218.02
7652	48.20	194.60	5791.49	-5741.49	4538.50	-4367.32	-1234.72
7746	47.30	194.10	5854.69	-5804.69	4608.06	-4434.72	-1251.97
7842	47.50	194.60	5919.67	-5869.67	4678.70	-4503.18	-1269.48
7936	47.40	194.70	5983.24	-5933.24	4747.94	-4570.18	-1287.00
8031	47.90	194.70	6047.24	-5997.24	4818.13	-4638.09	-1304.81
8056	47.70	194.80	6064.03	-6014.03	4836.65	-4656.00	-1309.53
*8114	47.70	194.80	6103.06	-6053.06	4879.55	-4697.48	-1320.49

Mud information:

Type:	Z MUD
Mud Weight (ppg):	11.0
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5736.0	4479.08	-4429.08	-3026.20	-856.40
Mogollon	6330.0	4899.64	-4849.64	-3430.58	-966.33

Remarks

*this survey is projection to 8 1/2" PDC bit.

Well Cost:

AFE	5 300 930	US\$
DAILY	71 830	US\$
CUMULATED	2 066 010	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: A. Pellegrin/O. Ojeda
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8114
Depth @ 24h00 (ft): 8114
Depth @ 06h00 (ft): 8114

OPERATIONS DATE : 9-Feb-13
REPORT DATE : 10-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 0
CSG (ft): 9 5/8" 3614
DRILLING DAYS: 23

Operations summary:

Drilled rotating & sliding from 8041' to 8114'MD. Circulated. POOH at surface. L/D directional BHA. M/U & RIH conventional BHA. Circulated on bottom. Gas 1600 units. Continued circulating & condition mud weight to 11.2ppg.

Present operations:

Install lubricator. Prepare tools to run logs.

Prognosed operations:

Run DLL-GR – RES- NEUTRON- DEN electrical log.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
 Mud Weight (ppg): 11.2
 Viscosity (sec): 47
 Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5736.0	4479.08	-4429.08	-3026.20	-856.40
Mogollon	6330.0	4899.64	-4849.64	-3430.58	-966.33

Remarks

Well Cost:

AFE 5 300 930 US\$
 DAILY 65 361 US\$
 CUMULATED 2 131 371 US\$



Geologists:	J. Coronado	OPERATIONS DATE :	10-Feb-13
Mud Loggers:	A. Pellegrin/O. Ojeda	REPORT DATE :	11-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	24

Operations summary:

Pull out Slick BHA w/ 8 1/2" tricone bit from 8114' to surface. Pepesa L/D bell nipple and flow line. Schlumberger receive well, Pepesa and SLB install 13 5/8" flange on top of BOP, install lubricator bumper sub. Perform safety meeting. Continue installing bolts to flange. Perform pressure test. SLB power units fail, Pepesa and SLB personnel repair it. TIH Logging tool from surface to 7990'. restriction at 7992'. Fill hole with 10 bbls. Start to log. from 7992' to shoe 3614'. Tension with 6000 lbs at 7950', and 6100 lbs at 7850'. (over pull 2200 lbs) Repeat section from 3900' to 3614'. Fill hole with 10 bbls. Continue pull out Schlumberger logging tool. Rig down SLB logging tool.

Present operations:

Circulating bottom up at shoe 3614' w/ 8 1/2" tricone bit.

Prognosed operations:

Calibrate hole. Pooh. R/U SLB tools, Run pressure log.

Lithology summary:

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

Surveys:

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

Mud information:

Type:	Z MUD
Mud Weight (ppg):	11.2
Viscosity (sec):	47
Filtrate (ml):	7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks

- While running in hole with logging tools observed restriction at 8008', after some attempts decided start log main section from this depth.
- 9 5/8" Casing Shoe @ 3614' MD
- Repeated Section from 3850' @ 3650' MD
- Observed overpull @ 7950' MD = 6000 pounds; @ 7850' MD = 6100 pounds
- Drilling Department decided perform calibration trip before Second E-log Run
- Used Matrix = Limestone, Density = 2.71 gr/cc
- Schlumberger had problem with power Generator for 1 hour
- Schlumberger operator suffered a slight accident during installation of bumper sub, hit on the hand finger, and was transferred to Talara.
- After first run Drilling Department decided perform calibration trip before Second E-log Run.

Well Cost:

AFE	5 300 930	US\$
DAILY	146 723	US\$
CUMULATED	2 278 094	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	11-Feb-13
Mud Loggers:	A. Pellegrin/O. Ojeda	REPORT DATE :	12-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	9 5/8" 3614
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	25

Operations summary:

Continue rig down SLB tools (flange 13 5/8"), Pepesa install bell nipple and flow line. M/U and THI slick BHA w/ 8 1/2" tricone bit from surface to 3600ft. shoe. Circulate bottom up. Gas 1600 units. TIH to 8114', show gas 4400 units. MW 11.2 ppg. Pull out slick BHA w/ 8 1/2" tricone bit from 8114' to surface. Perform safety meeting. SLB prepare pressure tool. TIH SLB pressure tool from surface to 5500'. Start to record pressure points.

Present operations:

Pepesa changing 7" pipe rams prior to run casing and moving SLB units on 3 level of platform

Prognosed operations:

R/U ITS tool w/ fill up tool to run 7" casing.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.2
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegrede	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	64 688	US\$
CUMULATED	2 342 782	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	12-Feb-13
Mud Loggers:	A. Pellegrin/O. Ojeda	REPORT DATE :	13-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	9 5/8" 3612
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	26

Operations summary:

Finish take pressure points, Pull out tool inside casing, perform SLB tool test inside casing, ok. Continue pull out SLB pressure tool to surface. L/D SLB pressure tool, SLB personnel work data and Rig down. Change 7" pipe ramps in 13 5/8" BOP. Rig up IST tools (power units, tongs, fill up tools). Install tongs on rotary table and fill up tool, Run 7" casing (N-80, BTC, 26 lb/ft) to 4609'.

Present operations:

Running 7 casing at 6950'.

Prognosed operations:

Run 7" casing @ bottom, Rig up Halliburton cement lines, perform cement job.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.2
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	267 818	US\$
CUMULATED	2 610 600	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	13-Feb-13
Mud Loggers:	O. Ojeda/G. Cardoza	REPORT DATE :	14-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	27

Operations summary:

Continue running 7" casing from 4609' to 7921'. Work casing up/down w/ restriction. 7" casing tag at 7921 ft, Safety meeting. Test cement lines w/ 3500 psi. Halliburton perform cement job, Casing shoe: 7921', float collar: 7842'. WOC.

Present operations:

install section "C" casing head

Prognosed operations:

N/U 7 1/16" BOP. test. L/D 5" DP

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.2
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	106 545	US\$
CUMULATED	2 717 145	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	14-Feb-13
Mud Loggers:	O. Ojeda/G. Cardoza	REPORT DATE :	15-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	28

Operations summary:

N/U 7 1/16" BOP. Perform 7 1/16" BOP test: Blind rams w/ 300 & 3000 psi by 10 min, ok. Install bell nipple.

Present operations:

L/D 5" drill pipe.

Prognosed operations:

Finish L/D 5" Drill pipe, Rig up 3 1/2" DP.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.2
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	53 684	US\$
CUMULATED	2 770 829	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	15-Feb-13
Mud Loggers:	O. Ojeda/G. Cardoza	REPORT DATE :	16-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	29

Operations summary:

Continued L/D 5" drill pipe. Moved DP from platform to Perla barge. Continued L/D 5" drill pipe and 6 3/4" DC. Organized DP on Perla racks. P/U 3 1/2" DP from barge to platform. Pepesa measured & took serial numbers. M/U 40 3 1/2" stands.

Present operations:

RIH directional BHA with 6 1/8" PDC bit to 122' MD.

Prognosed operations:

M/U directional BHA with 6 1/8" PDC bit. TIH with 3 1/2" DP adding joint by joint. Slip and cut drilling cable. TIH to TOC.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Z MUD
Mud Weight (ppg): 11.2
Viscosity (sec): 47
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	52 979	US\$
CUMULATED	2 823 808	US\$



REPORT N° 26

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	<i>A. Ortega</i>	OPERATIONS DATE :	16-Feb-13
Mud Loggers:	<i>O. Ojeda/G. Cardoza</i>	REPORT DATE :	17-Feb-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	30

Operations summary:

M/U & RIH directional BHA w/ new 6 1/8" PDC bit, performed shallow test at 770' MD, ok. Continued rih to 3000' MD. Tested circulation with 500 psi, pressure hold, no discharge; tried again, pressure no discharge. POOH. Observed Halliburton mud compacted inside directional tools, MWD, mud motor & 1 flex monel. Cleaned & circulated surface lines, pump lines, stand pipe with sea water, ok. M/U & RIH Slick BHA with 6 1/8" tricone bit to condition mud and DO. Circulated at 500' MD, full return, ok. Continue TIH to 1500', circulated, full return, ok.

Present operations:

RIH tricone bit & slick BHA at 6000' MD M/U joint by joint.

Prognosed operations:

TIH slick BHA w/ 6 1/8" tricone bit, TOC, DOC, perform CIT & FIT.

Lithology summary:

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

Surveys:

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

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.2
Viscosity (sec): 47
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	83 020	US\$
CUMULATED	2 906 828	US\$



REPORT N° 27

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	17-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	18-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8114	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8114	DRILLING DAYS:	31

Operations summary:

RIH slick BHA with 3 1/2" DP and 6 1/8" tricone bit from 1500' to 7836' MD, circulated at 3000', 6000', 7200' MD. TOC at 7836' MD. Drill out 7" csg accessories & cement to 7906' MD. Performed CIT with 1500 psi by 10 min, ok. Continued DOC from 7906' to 7921' MD (7" csg shoe). Drilled out cement contaminated with mud from 7921' to 8114' MD. Displaced contaminated mud for new mud 11.2 ppg. & circulated. PO string to 7888' MD inside casing. Performed FIT gradually, increased pressure to 450 psi, drop to 410 psi, EMW 12.5 ppg. POOH slick BHA from 7888' to 2500' MD.

Present operations:

RIH directional BHA with 6 1/8" PDC bit to 3700' MD.

Prognosed operations:

Continue RIH directional BHA, drill 6 1/8" section.

Lithology summary:

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

Surveys:

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

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.2
Viscosity (sec): 50
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	52 718	US\$
CUMULATED	2 959 546	US\$



SAVIA
PERÚ

REPORT N° 28

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	18-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	19-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8114	PROGRESS 00h00-24h00 (ft):	276
Depth @ 24h00 (ft):	8390	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8484	DRILLING DAYS:	32

Operations summary:

Continued POOH slick BHA to surface. M/U and RIH directional BHA with 6 1/8" PDC bit to 8114' MD. Drilled rotating from 8114' to 8390' MD.

Present operations:

Drilling 6 1/8" section at 8505' MD.

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	8114 - 8140	17	10		TR	90					NF	CLYST: dk gy, med dk gy, gy'sh brn, occ olive brn, blkly/sbblky, occ sblam/sbplty, md frm/md sft, loc frm, micmic, miccarb, non/sl calc, earthy surf, slty i/p. SST: md lt gy, md gy, 100% vff, prdm hyal, occ dk & gy'sh lith grns, sb ang/sb rnd, w srt, arg mtz i/p, occ calc cmt, fri/md fri, occ w coal, p vis por. SD: hyal, smky, occ mlky wh, 80% f, 20% m, sb ang/sb rnd, w srt. TG: 5 C1: 440 C2: 11 C3: 9 C4: 5 C5: 5
MOGOLLON	8140 - 8210	44	30		20	50					NF	CLYST: dk gy, med dk gy, gy'sh brn, occ olive brn, blkly/sbblky, mn sub tab, md frm/md sft, loc frm, micmic, miccarb, non/sl calc, earthy surf, slty i/p. SST: md lt gy, md gy, 100% vff, prdm hyal, occ dk & gy'sh lith grns, sb ang/sb rnd, w srt, arg mtz i/p, occ calc cmt, fri/md fri, occ w coal, p vis por. SD: hyal, smky, occ mlky wh, 90% f, 10% m, sb ang/sb rnd, w srt. TG: 6 C1: 517 C2: 13 C3: 9 C4: 3 C5: 2
MOGOLLON	8210 - 8229	33	10		10	90					NF	CLYST: dk gy, sl dk gy/gy, gy'sh brn, occ olive brn, blkly/sbblky, mn sub tab, md frm/md sft, loc frm, micmic, miccarb, non/sl calc, earthy surf, slty i/p. SST: sl lt gy, gy, 100% vff, prdm hyal, occ dk & gy'sh lith grns, sb ang/sb rnd, w srt, arg mtz i/p, occ calc cmt, fri/md fri, occ w coal, p vis por. SD: hyal, smky, occ mlky wh, 90% f, 10% m, sb ang/sb rnd, occ ang, w srt. TG: 7 C1: 598 C2: 17 C3: 11 C4: 4 C5: 1
POSSIBLE SAN CRISTOBAL	8229 - 8340	39	60		20	20					NF	CLYST: md lt gy, md gy, gy'sh brn, amorphus, sft, plastic, v sol, micmic, miccarb, non calc, earthy surf, occ slty. SST: md lt gy, gy, 100% vf, hyal, occ dk & gy'sh lith grns, sb ang/sb rnd, w srt, arg mtz, fri, p vis por. SD: hyal, smky, occ dk lith grns, 100% f, tr m, ang/sb ang, w srt. TG: 5 C1: 434 C2: 15 C3: 8 C4: 2 C5: 1
POSSIBLE SAN CRISTOBAL	8340 - 8480	39	100		TR						NF	CLYST: md lt gy, md gy, gy'sh brn, amorphus, sft, plastic, v sol, micmic, miccarb, non calc, earthy surf, slty i/p. SST: md lt gy, gy, 100% vf, hyal, occ dk & gy'sh lith grns, sb TG: 3 C1: 311 C2: 10 C3: 4 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8151.00	47.80	196.20	6127.91	-6077.91	4906.96	-4723.76	-1328.32
8245.00	46.90	197.00	6191.59	-6141.59	4976.09	-4790.02	-1348.07
8339.00	45.20	197.70	6256.83	-6206.83	5043.74	-4854.61	-1368.24
8434.00	45.40	197.80	6323.65	-6273.65	5111.22	-4918.92	-1388.83

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.2
Viscosity (sec): 50
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80

Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	74 253	US\$
CUMULATED	3 033 799	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	19-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	20-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8390	PROGRESS 00h00-24h00 (ft):	319
Depth @ 24h00 (ft):	8709	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	8815	DRILLING DAYS:	33

Operations summary:

Continued drilling rotating & sliding from 8390' to 8709' MD. Performed blow out fire drill on platform & barge with all personnel.

Present operations:

Drilling rotating in San Cristobal fm. at 8860' MD.

Prognosed operations:

Drill ahead in San Cristobal fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	8340 - 8520	36	100		TR						NF	CLYST: md dk gy, gy & brn'sh gy i/p, prdm blk/sbblk, amorphous i/p, sft/md frm, micmic, miccarb, v sl calc, earthy, sol & slty i/p, plastic i/p. SST: md lt gy, 100% vf/f, hyal, dk mnrl incl i/p, sb ang/sb rnd, w srt, arg mtx, md fri, p vis por. TG: 3 C1: 283 C2: 9 C3: 4 C4: 0 C5: 0
SAN CRISTOBAL	8520 - 8800	38	70	20	10	TR					NF	CLYST: gy'sh brn, md dk gy, dk gy i/p, blk/sbblk, occ sbpity, md frm/sft, micmic, miccarb, slty, non calc. SLST: dk gy/gy, blk/sbblk, amorphous, md frm/sft, micmic, miccarb, earthy, grad to vf sst. SST: gy, 100% f/m, smky & dk & gn'sh lith grns, rnd/sbrnd, w srt, abndt arg mtx, fri, p vis por. SD: smky, hyal, milky wh i/p, prdm f/m, sb rnd/rnd, w srt. TG: 3 C1: 244 C2: 6 C3: 3 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8528.00	44.80	198.70	6390.00	-6340.00	5177.75	-4982.16	-1409.68
8623.00	46.20	198.90	6456.59	-6406.59	5245.41	-5046.30	-1431.51
8717.00	46.20	198.90	6521.65	-6471.65	5313.16	-5110.49	-1453.49

Mud information:

Type: BARADRILL-N
Mud Weight (pgg): 11.4
Viscosity (sec): 50
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	71 357	US\$
CUMULATED	3 105 156	US\$



REPORT N° 30

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	20-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	21-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8709	PROGRESS 00h00-24h00 (ft):	277
Depth @ 24h00 (ft):	8986	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	9051	DRILLING DAYS:	34

Operations summary:

Continued drilling rotating & sliding from 8709' to 8986' MD.

Present operations:

Performing wiper trip to 7" csg shoe (7921' MD).

Prognosed operations:

RIH, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	8800 - 8950	25	90	10	TR	TR					NF	CLYST: md dk gy, gy, occ gy'sh brn, blk/sbblk, occ sb lam/sb plty, md frm/frm, micmic, miccarb, non calc, sl earthy, loc slty. SLST: md gy/dk gy, blk/sbblk, md frm, sl calc, micmic, miccarb i/p, grad to vf sst, earthy. SST: md gy., 100% f, smky, dk & gn'sh gy lith grns, rnd/sbrnd, w srt, abundt arg mtz, fri, p vis por. SD: smky, hyal, wh i/p, w dk lith grns i/p, prdm vf, sbrnd/rnd, w srt. TG: 4 C1: 367 C2: 7 C3: 4 C4: 1 C5: 0
SAN CRISTOBAL	8950 - 9050	21	80		20						NF	CLYST: md gy, dk gy & gy'sh brn i/p, blk/sbblk, sb lam/sb plty i/p, md frm/frm, non calc, micmic, miccarb, sl earthy, occ slty. SST: gy/dk gy, gy, 100% vf, tr m, smky, hyal, mn'r gy'sh lith grns, sb rnd/rnd, w srt, arg mtz, tight/fri, micpyr on surf, p vis por. TG: 8 C1: 347 C2: 7 C3: 4 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8812.00	45.50	198.70	6587.82	-6537.82	5381.24	-5175.01	-1475.46
8906.00	46.10	198.30	6653.35	-6603.35	5448.56	-5238.92	-1496.84
9001.00	48.00	197.50	6718.08	-6668.08	5518.05	-5305.09	-1518.20

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.5
Viscosity (sec): 52
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	76 331	US\$
CUMULATED	3 181 487	US\$



Geologists:	A. Ortega	OPERATIONS DATE :	21-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	22-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	8986	PROGRESS 00h00-24h00 (ft):	274
Depth @ 24h00 (ft):	9260	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	9333	DRILLING DAYS:	35

Operations summary:

Continued drilling sliding & rotating from 8986' to 9260' MD.

Present operations:

Drilling sliding at 9345' MD.

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	9050 - 9210	36	80		10	10					NF	CLYST: gy, md gy, mn brn'sh gy & dk brn, blk/sbbkly, occ sbply, md frm, non calc, micmic, miccarb, slty i/p. SST: prdm gy, md gy i/p, 100% f, hyal, smky, mn gy'sh & dk mnrl grns, sb ang/sb rnd, arg mtx, calc cmt, md fri, micpyr incl i/p, p vis por. SD: smky, hyal, occ gy'sh & dk lith grns, prdm f/vf, sbang/sbrnd, w srt. TG: 4 C1: 367 C2: 7 C3: 4 C4: 0 C5: 0
SAN CRISTOBAL	9210 - 9300	27	60		30	10						CLYST: gy, md gy, loc gy'sh brn, blk/sbbkly, occ sb lam, md frm/frm, non calc, micmic, miccarb, esarthy surf, sl slty i/p. SST: md gy, lt gy, 100% f, hyal, smky, mn dk lith grns, sb ang/sb rnd, w srt, arg mtx & scarce calc cmt, fri/ tight, micpyr incl, p vis por. SD: smky, wh, hyal, gy'sh lith grns i/p, prdm f/vf, tr c, w ang broke grns i/p, w srt TG: 2 C1: 181 C2: 4 C3: 2 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9095.00	48.30	197.50	6780.80	-6730.80	5588.05	-5371.87	-1539.26
9190.00	46.60	197.70	6845.04	-6795.04	5658.00	-5438.57	-1560.42
9284.00	47.00	197.50	6909.38	-6859.38	5726.50	-5503.89	-1581.14

Mud information:

Type:	BARADRILL-N
Mud Weight (ppg):	11.6
Viscosity (sec):	53
Filtrate (ml):	5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	70 255	US\$
CUMULATED	3 251 742	US\$



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REPORT N° 32

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: O. Huaman/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 9260
Depth @ 24h00 (ft): 9596
Depth @ 06h00 (ft): 9667

OPERATIONS DATE : 22-Feb-13
REPORT DATE : 23-Feb-13
SPUD DATE: 18-Jan-13
PROGRESS 00h00-24h00 (ft): 336
CSG (ft): 7" 7921
DRILLING DAYS: 36

Operations summary:

Continued drilling rotating & sliding 9260' to 9595' MD.

Present operations:

Drilling rotating at 9705' MD.

Prognosed operations:

Drill ahead to Upper BS Fm. Top, possible bit trip.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	9300 - 9340	36	70		10	20					NF	CLYST: gy, md gy, gy'sh brn i/p, blk/sbblky, occ sblam, md frm/frm, non calc, micmic, miccarb, loc slty. SST: md gy, lt gy, 100% f, hyal, smky, dk mnrl grns i/p, sbang/sbrnd, w srt, arg mtz & scarce calc cmt, fri/tight, micpyr incl, p vis por. SD: smky, wh, hyal, occ dk lith grns, prdm f, occ c, sbrnd/sbang, ang broken grns i/p, w srt. TG: 2 C1: 198 C2: 5 C3: 3 C4: 1 C5: 0
WEDGE SANDS	9340 - 9460	28	30		20	50					TR - 10	CLYST: gy, md gy, gy'sh brn i/p, blk/sbblky, occ sblam, md frm/frm, non calc, micmic, miccarb, loc slty. SST: lt gy, md gy, 100% f, smky, hyal, mnrl dk lith grns, sbang/sbrnd, w srt, arg mtz, scarce calc cmt, md fri/fri, p vis por. SD: smky, hyal, wh & dk lith grns i/p, 50% f, 30% m, 20% c, sbang/sbrnd, w srt. FLUO: nvos, pinpoint, pale, yell'sh nat fluo, crush, faint, pale, strmg, yell'sh wh cut, mlky wh rr under uv light, non rr under nat light, pos. TG: 4 C1: 353 C2: 11 C3: 6 C4: 2 C5: 0
SAN CRISTOBAL	9460 - 9550	37	60		30	10					NF	CLYST: gy, md gy, blk/sbblky, md frm/frm, non calc, micmic, non miccarb, loc slty, sl earthy. SST: md gy, lt gy, 100% f, occ m, hyal, smky, wh & dk lith grns i/p, sbang/sbrnd, w srt, arg mtz, calc cmt, md fri/fri, drty i/p, p vis por. SD: smky, wh, occ dk & gy'sh lith grns, 100% f/vf, sbang/sbrnd, w srt. TG: 3 C1: 298 C2: 7 C3: 4 C4: 1 C5: 0
SAN CRISTOBAL	9550 - 9630	34	90		10						NF	CLYST: gy, md gy, occ brn'sh gy, blk/sbblky, md frm/frm, occ brtt, non calc, micmic, non miccarb, occ micpyr incl, sl earthy & slty i/p. SST: lt gy, 100% f, hyal, smky, mnrl dk lith grns, sbang/sbrnd, w srt, arg mtz, calc cmt, md fri/fri, drty i/p, p vis por. TG: 5 C1: 414 C2: 7 C3: 5 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9379.00	47.70	197.60	6973.75	-6923.75	5796.35	-5570.51	-1602.21
9473.00	47.00	198.20	7037.43	-6987.43	5865.45	-5636.30	-1623.45
9568.00	45.10	199.00	7103.36	-7053.36	5933.77	-5701.12	-1645.26

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.7
Viscosity (sec): 55
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	5624.47	-1619.58

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	65 884	US\$
CUMULATED	3 317 626	US\$



REPORT N° 33

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	23-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	24-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	9595	PROGRESS 00h00-24h00 (ft):	420
Depth @ 24h00 (ft):	10015	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10176	DRILLING DAYS:	37

Operations summary:

Continued drilling rotating from 9595' to 10015' MD.

Present operations:

Drilling rotating at 10183' MD.

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	9630 - 9950	36	100								NF	CLYST: gy, md gy, occ dk brn, blk/sbblk, loc sb lam/sbply, md frm/frm, frm i/p, occ brtt, non calc, micmic, miccarb, sl earthy, micpyr i/p, loc slty. TG: 4 C1: 299 C2: 6 C3: 4 C4: 1 C5: 0
SAN CRISTOBAL	9950 - 10130	33	100		TR						NF	CLYST: gy, md gy, occ dk brn, sbblk/blk, loc sb lam, rr sb fiss, md frm/frm, occ sft & britt, non calc, micmic, miccarb i/p, sl earthy/smooth surf, rr slty. SST: gy, gy/lt gy i/p, 100% vf, hyal, smky, gy'sh lith grns, sbang/sbrnd, w srt, tight, arg mtx, non/v sl calc cmt, p vis por. TG: 4 C1: 405 C2: 7 C3: 5 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9662.00	44.30	199.60	7170.18	50.00	5999.79	-5763.52	-1667.11
9757.00	42.60	200.30	7239.14	50.00	6064.98	-5824.94	-1689.40
9851.00	41.20	201.00	7309.11	50.00	6127.56	-5883.68	-1711.53
9946.00	40.50	201.90	7380.97	50.00	6189.44	-5941.51	-1734.25
10040.00	39.20	203.10	7453.13	50.00	6249.32	-5997.16	-1757.29

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 10.8
Viscosity (sec): 59
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	5624.47	-1619.58

Remarks

Well Cost:

AFE 5 300 930 US\$
DAILY 66 434 US\$
CUMULATED 3 384 060 US\$



REPORT N° 34

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	24-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	25-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10015	PROGRESS 00h00-24h00 (ft):	264
Depth @ 24h00 (ft):	10279	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10298	DRILLING DAYS:	38

Operations summary:

Continued drilling rotating from 10015' to 10279' MD. Performed short trip from 10279' to 7633' MD backreaming. RIH from 7633' to 10279' MD installed 84 jt WWT reduced torque tools. Circulated to displace trip gas.

Present operations:

Drilling at 10299' MD.

Prognosed operations:

Drill ahead, possible trip due very low ROP.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	10130 - 10290	31	100								NF	CLYST: gy, md gy, occ dk brn, blk/sbbly, loc sb lam, sbfiss i/p, md frm/frm, non calc, micmic, miccarb, occ britt, slty, rr w thin calcite veins incl. TG: 6 C1: 425 C2: 7 C3: 6 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
10134.00	38.30	204.20	7526.44	-7476.44	6307.68	-6051.05	-1780.88
10229.00	37.20	205.30	7601.56	-7551.56	6365.23	-6103.87	-1805.23
10324.00	36.90	205.40	7677.30	-7627.30	0.00	-6155.60	-1829.70

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 57
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	5624.47	-1619.58

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	66 177	US\$
CUMULATED	3 450 237	US\$



REPORT N° 35

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	25-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	26-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10279	PROGRESS 00h00-24h00 (ft):	23
Depth @ 24h00 (ft):	10302	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10302	DRILLING DAYS:	38

Operations summary:

Continued circulating to displace trip gas, resumed drilling rotary mode from 10279' to 10302' MD too low rop. POOH, L/D 6 1/8" directional BHA & PDC bit. M/U new directional BHA & 6 1/8" PDC bit, type MSI513UBPX, serial JY6674. Performd MWD shallow test, ok. Continued

Present operations:

Circulating before resume drilling 6 1/8" section.

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	10290 - 10300	3	100								NF	CLYST: gy, md gy, occ dk brn & brn'sh gy, blkyl/sbbly, occ sb plty, md frm/frm, non calc, micmic, miccarb, sl earthy/smooth surf, slty i/p. TG: 5 C1: 393 C2: 9 C3: 7 C4: 2 C5: 0

Surveys:

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

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 59
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	5624.47	-1619.58

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	52 261	US\$
CUMULATED	3 502 498	US\$



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REPORT N° 36

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	26-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	27-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10302	PROGRESS 00h00-24h00 (ft):	88
Depth @ 24h00 (ft):	10390	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10428	DRILLING DAYS:	39

Operations summary:

RIH 6 1/8" directional BHA from 4270' to 7830' MD. Cut 110' and slip 120' of drilling line. Continued RIH 6 1/8" directional BHA from 7830' to 10302' MD. Resumed drilling rotary mode from 10302' to 10390' MD very low ROP. At 10311' MD pumped disperse pills and abrasive pills to bit balling.

Present operations:

Drilling rotating at 10445' MD

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	10300 - 10330	5	100								NF	CLYST: md gy, gy, loc dk brn & gy'sh brn, blk/sbbkly, loc sb plty, md frm/frm, moc sft, non calc, micmic, miccarb, sl earthy surf, occ brtt, rr w calcite veins incl, rr slty. TG: 6 C1: 222 C2: 5 C3: 4 C4: 2 C5: 0
SAN CRISTOBAL	10330 - 10420	11	70		20	10					TR - NF	CLYST: md gy, gy, loc dk brn & gy'sh brn, blk/sbbkly, loc sb plty, md frm/frm, moc sft, rr sl sol, non calc, micmic, miccarb, sl earthy surf, occ brtt, rr w calcite veins incl, rr slty. SST: gy, lt gy i/p, 100% f, hyal, smky, mnr gy'sh & dk lith grns, sb ang/sb rns, w srt, arg mxt, scarce calc cmt, tight i/p, p/f vis por. SD: smky, hyal, mnr wh & dklith grns, 70% f, 30% m, tr c, sb ang/sb rnd, f srt. FLUO: nvos, pin point, dull, pl yelsh nat fluor, slw, wk, pl, even, yslh wh cut fluor, mky wh rr under U.V lt. nrr nat lt, pos. TG: 7 C1: 357 C2: 9 C3: 6 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
10324.00	36.90	205.40	7677.30	-7627.30	0.00	-6155.60	-1829.70

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 57
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	52 261	US\$
CUMULATED	3 502 498	US\$



REPORT N° 37

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	27-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	28-Feb-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10390	PROGRESS 00h00-24h00 (ft):	132
Depth @ 24h00 (ft):	10522	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10556	DRILLING DAYS:	40

Operations summary:

Continued drilling rotating from 10390' to 10522' MD. At 10568' MD and 10510' MD pumped abrasive pills to avoid bit balling.

Present operations:

Drilling rotating at 10560' MD.

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
Poss Upper Basal Salina	10420 - 10540	7	100		TR						NF	CLYST: gy, gy/dk gy, blk/sbblk, occ sb pty, non calc, micmic, v sl miccarb, sl earthy i/p, occ slty. SST: gy/lt gy, lt gy, prdm f/m, smky, hyal, mnr gy/sh & dk mnrl incl, ang/sbang, md srt, arg mtz & calc cmt, tight, p vis por, occ w glau incl. TG: 2 C1: 172 C2: 5 C3: 3 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
10419.00	37.50	205.10	7753.00	-7703.00	0.00	-6207.60	-1854.20

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 57
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	64 128	US\$
CUMULATED	3 648 185	US\$



REPORT N° 38

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	28-Feb-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	1-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10522	PROGRESS 00h00-24h00 (ft):	52
Depth @ 24h00 (ft):	10574	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10574	DRILLING DAYS:	41

Operations summary:

Drilled rotary mode from 10522' to 10574' MD, at 10550' MD pumped abrasive pills to avoid bit balling. Due very low ROP, POOH, L/D 6 1/8" BHA & PDC bit. M/U BHA rr 6 1/8" PDC bit, type Mi513UBPX, serial JE3026, Mud Motor, with no directional & MWD tools.

Present operations:

RIH at 9800' MD.

Prognosed operations:

RIH, circulated out trip gas, resume drilling 6 1/8" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
Poss Upper Basal Salina	10540 - 10574	7	100								NF	CLYST: dk gy, gy'sh brn, blk/sbbly, loc shtab, frm, non calc, micmic, non/v sl miccarb, sl slty i/p, sl earthy surf. TG: 4 C1: 212 C2: 5 C3: 3 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
10513.00	35.60	205.10	7828.50	-7778.50	0.00	-6258.40	-1877.50

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 57
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	61 995	US\$
CUMULATED	3 710 180	US\$



Geologists:	A. Ortega	OPERATIONS DATE :	1-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	2-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10574	PROGRESS 00h00-24h00 (ft):	154
Depth @ 24h00 (ft):	10728	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10778	DRILLING DAYS:	42

Operations summary:

Continued RIH 6 1/8" directional BHA (only mud motor) from 340' to 10529' MD. Washed down and circulated last four stands to displace trip gas (465 TG units). Resumed drilling from 10574' to 10728' MD.

Present operations:

Drilling at 10790' MD

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
Poss Upper Basal Salina	10574 - 10670	14	100								NF	CLYST: gy, dk gy, occ dk brn, blkyl/sbbilky, loc sbplty, frm, v frm i/p, micmic, occ miccarb, non calc, smooth/sl earthy surf, slty i/p. TG: 7 C1: 643 C2: 19 C3: 14 C4: 6 C5: 1
Poss Upper Basal Salina	10670 - 10720	16	70		20	10					NF	CLYST: gy, dk gy i/p, blkyl/sbbilky, loc sb tab, frm/v frm, micmic, v sl miccarb, non calc, smooth/sl earthy surf, slty i/p. SST: gy, lt gy, 100% vf, hyal, smky, w dk mnrl incl, sbrnd/rnd, w srt, sl arg mtb, scarce calc cmt, tight, md fri, p vis por. SD: hyal, wh, smky, dk lith grns i/p, prdm f, sbrnd/rnd, wsrt. TG: 9 C1: 837 C2: 17 C3: 12 C4: 5 C5: 1
Poss Upper Basal Salina	10720 - 10750	7	100								NF	CLYST: gy, dk gy, blkyl/sbbilky, loc sbtab, frm/v frm, micmic, miccarb, non calc, sl earthy, slty, grad to slst i/p, micpyr i/p. TG: 2 C1: 138 C2: 3 C3: 2 C4: 1 C5: 0

Surveys:

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

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 59
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79

Remarks

Well Cost:

AFE 5 300 930 US\$
DAILY 58 854 US\$
CUMULATED 3 769 034 US\$



Geologists:	A. Ortega	OPERATIONS DATE :	2-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	3-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10728	PROGRESS 00h00-24h00 (ft):	178
Depth @ 24h00 (ft):	10906	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	10924	DRILLING DAYS:	43

Operations summary:

Continued drilling rotary mode from 10728' to 10906' MD. Maneuvered drilling string several times while pumped 10 bbl of disperse and abrasive pills to avoid bit balling.

Present operations:

Drilling at 10928' MD.

Prognosed operations:

Drill ahead, possible bit trip.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
Poss Upper Basal Salina	10750 - 10820	15	100								NF	CLYST: dk gy, gy, blk/sbbly, occ sb tab, frm, v frm i/p, micmic, miccarb, non calc, micpyr, sl earthy, slty i/p. TG: 2 C1: 183 C2: 5 C3: 3 C4: 1 C5: 0
Poss Upper Basal Salina	10820 - 10890	21	50		20	30					10 - 15	CLYST: gy, dk gy i/p, occ dk brn, blk/sbbly, loc sb tab, micmic, miccarb, non calc, frm/v frm, micpyr, sl earthy, slty i/p. SST: md gy, lt gy, prdm v/f, hyal, smky, dk & gn'sh gy litn grns, sb ang/sb rnd, w srt, arg mtb, calc cmt, md fri, p vis por. SD: hyal, smky, wh, 100% f/vf, hyal, smky, occ dk & gy'sh lith grns, sb ang/sb rnd, w srt. FLUO: nvos, pinpoint, dull, pale yell nat fluo, crush, faint, pale, streiming, yell'sh wh cut fluo, no vis res ring. TG: 42 C1: 3586 C2: 139 C3: 81 C4: 26 C5: 2
Poss Upper Basal Salina	10890 - 10920	5	100								NF	CLYST: gy, dk gy/gy, sb tab/sb lam, mnr sbbly, frm, micmic, occ miccarb, non calc, smooth/sl earthy surf, sl slty i/p. TG: 2 C1: 152 C2: 4 C3: 3 C4: 1 C5: 0

Surveys:

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

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 58
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	59 267	US\$
CUMULATED	3 828 301	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	3-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	4-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	10906	PROGRESS 00h00-24h00 (ft):	189
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	44

Operations summary:

Continued drilling rotating from 10906' to 11095 ft (Drilling Department TD due limitations with drilling rig). Maneuvered drilling string several times while pumped 10 bbls of disperse and abrasive pills to avoid balling. Condition hole to run electrical logs.

Present operations:

PO at 9000' MD.

Prognosed operations:

POOH to surface, L/D 6 1/8" PDC bit & mud motor, M/U & RIH conventional BHA.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %		Fluor %	LITHOLOGICAL DESCRIPTION
Poss Upper Basal Salina	10920 - 10980	15	100						NF	CLYST: md gy, dk gry/gy, blkyl/sblky, loc shtab/sblam, frm, non calc, micmic, sl miccarb, loc slty, sl earthy/smooth surf i/p. TG: 4 C1: 342 C2: 7 C3: 4 C4: 1 C5: 0
Poss Upper Basal Salina	10980 - 11094	17	100						NF	CLYST: gy, dk gy/gy i/p, med dk gry, blkyl/sblky, occ blkyl, loc shtab/sblam, frm, non calc, micmic, sl miccarb, loc slty, smooth/sl earthy surf. TG: 4 C1: 398 C2: 9 C3: 5 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
11095.00	23.98	200.78	8332.90	-8282.90	0.00	-6523.60	-1990.10

Mud information:

Type: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79
Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8331.90	-8281.90	-6523.60	-1990.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	59 846	US\$
CUMULATED	3 888 147	US\$



REPORT N° 42

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	4-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	5-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	11095	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	45

Operations summary:

Finished conditioning hole. POOH 6 1/8" PDC bit & directional BHA, L/D directional BHA & 6 1/8" PDC bit. M/U and RIH 6 1/8" tricone bit & conventional BHA to 7880' MD, filling up each 2000 ft and circulate to confirm return. Continued RIH from 7880' to 10084' MD.

Present operations:

PO conventional BHA at 9350' MD.

Prognosed operations:

POOH, Run E-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: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79
Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8332.90	-8282.90	-6523.60	-1990.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	56 379	US\$
CUMULATED	3 944 526	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	5-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	6-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	11095	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	46

Operations summary:

RIH slick BHA with tricone bit 6 1/8" to 11095' MD, circulated and pumped viscous, heavy and sweep pills, POOH, L/D conventional BHA, SLB wireline M/U and run logging tools, performed tension test with log tool and stuck @ 9774' MD, after three attempts unstuck tool, SLB run log from @ 9600' to 7921' MD, Lima office decided to cancel SLB E-Logs, POOH & R/D SLB logging tools.

Present operations:

RIH with conventional BHA at 9500' MD, to condition hole.

Prognosed operations:

Condition hole to run Shuttle E-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: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79
Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8332.90	-8282.90	-6523.60	-1990.10

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	100 719	US\$
CUMULATED	4 045 245	US\$



REPORT N° 44

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	6-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	7-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	11095	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	47

Operations summary:

SLB crew finished R/D logging tools and equipment. M/U and RIH 6 1/8" slick BHA with 6 1/8" tricone bit. Circulated & conditioned hole, trip gas (3600 units), pumped 30 bbls vis & heavy pill, 25 bbls vis & sweep pill. POOH, L/D 6 1/8" slick BHA.

Present operations:

RIH 4 1/2" & 5" liner at surface.

Prognosed operations:

RIH liner with ACP & hanger.

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: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79
Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8332.90	-8282.90	-6523.60	-1990.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	100 719	US\$
CUMULATED	4 045 245	US\$



REPORT N° 45

LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	7-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	8-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	11095	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	48

Operations summary:

Run 4 1/2" csg liner (4 blank & 3 slotted), ACP, 5" Stage tool, 79 5" blank csg liner, 5" x 7" Hydraulic Liner Hanger, 5" Top Packer, 5" PBR and run with 6 3 1/2" HWDP and 75 3 1/2" DP stands from 3401' to 7863' MD, circulated, continued running with 21 3 1/2" DP stands to 9820' MD.

Present operations:

Dropped 1 1/4" ball inside 3 1/2" DP.

Prognosed operations:

Set liner hanger, release setting tool, inflate ACP, Open Stage tool and cement job 5" casing liner.

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: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
Top	9340.0	6947.00	-6897.00	-5543.07	-1593.51
Base	9456.0	7025.00	-6975.00	-5624.47	-1619.58
Poss. Upper BS	10332.0	7684.00	-7634.00	-6159.94	-1831.79
Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8332.90	-8282.90	-6523.60	-1990.10

Remarks

Well Cost:

AFE	5 300 930	US\$
DAILY	216 797	US\$
CUMULATED	4 306 604	US\$



LOBITOS FIELD

LO6-27D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	8-Mar-13
Mud Loggers:	O. Huaman/G. Cardoza	REPORT DATE :	9-Mar-13
Rig Contractor:	RIG 40	SPUD DATE:	18-Jan-13
Depth @ 00h00 (ft):	11095	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	11095	CSG (ft):	7" 7921
Depth @ 06h00 (ft):	11095	DRILLING DAYS:	49

Operations summary:

Continued run with 14 stand 3 1/2" drill pipe to 11092 ft, Circulated at 11092 ft at bottom with 109 gpm and 910 psi, set liner hanger, released setting tool, inflated ACP, Open Stage tool and cement job 5" casing liner, POOH setting tool with Drill pipe 3 1/2" NC 38 from 7692 ft to surface, Break out setting tool.

Present operations:

M/U & RIH 3 3/4" BHA with triconic bit and 8 joins from 3 1/8" Drill collar to 373 ft.

Prognosed operations:

Continue M/U and RIH BHA with 3 3/4" triconic bit, 8 joins from 3 1/8" with 2 7/8" drill pipe PAC and 3 1/2" to ACP 10756 ft.

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: BARADRILL-N
Mud Weight (ppg): 11.9
Viscosity (sec): 49
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	785.0	784.00	-734.00	-6.60	-0.90
Chacra	2860.0	2518.00	-2468.00	-998.50	-300.80
Rio Bravo	3404.0	2891.00	-2841.00	-1382.90	-400.10
Palegreda	5728.0	4507.69	-4457.69	-3026.20	-856.40
Mogollon	6318.0	4890.84	-4840.84	-3430.58	-966.33
Cristobal	8229.0	6180.68	-6130.68	-4778.83	-1344.66
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Poss. Balcones	10980.0	8228.90	-8178.90	-6478.50	-1972.50
Total Depth	11095.0	8332.90	-8282.90	-6523.60	-1990.10

Remarks**Well Cost:**

AFE	5 300 930	US\$
DAILY	156 344	US\$
CUMULATED	4 462 948	US\$