



Well Name : **LO6-28D**
 Field : **Lobitos Onshore**
 Type of Well : **Development**
 Rig N° : **Pepesa 40**

Well Head
 N (m) : 9 508 651.52
 E (m) : 459 049.64
 KB (ft) : 50
 Ground Level (ft) : 335

Deviated well
 Direction : S 35.16 W
 Max Angle : 61.96°
 KOP (ft) : 480ft
 Build up angle at : 4°/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)	802	800	-750	802	800	-750	0	
TEREBRATULA Mbr(TALARA SH)	---	---	---	2335	1856	-1806		
CHACRA	2866	2150	-2100	2587	1981	-1931	169	
RIO BRAVO	5270	3280	-3230	5040	3203	-3153	77	<i>Main Objective</i>
PALEGREDA	9340	5193	-5143					
TD	9440	5240	-5190	8600				

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

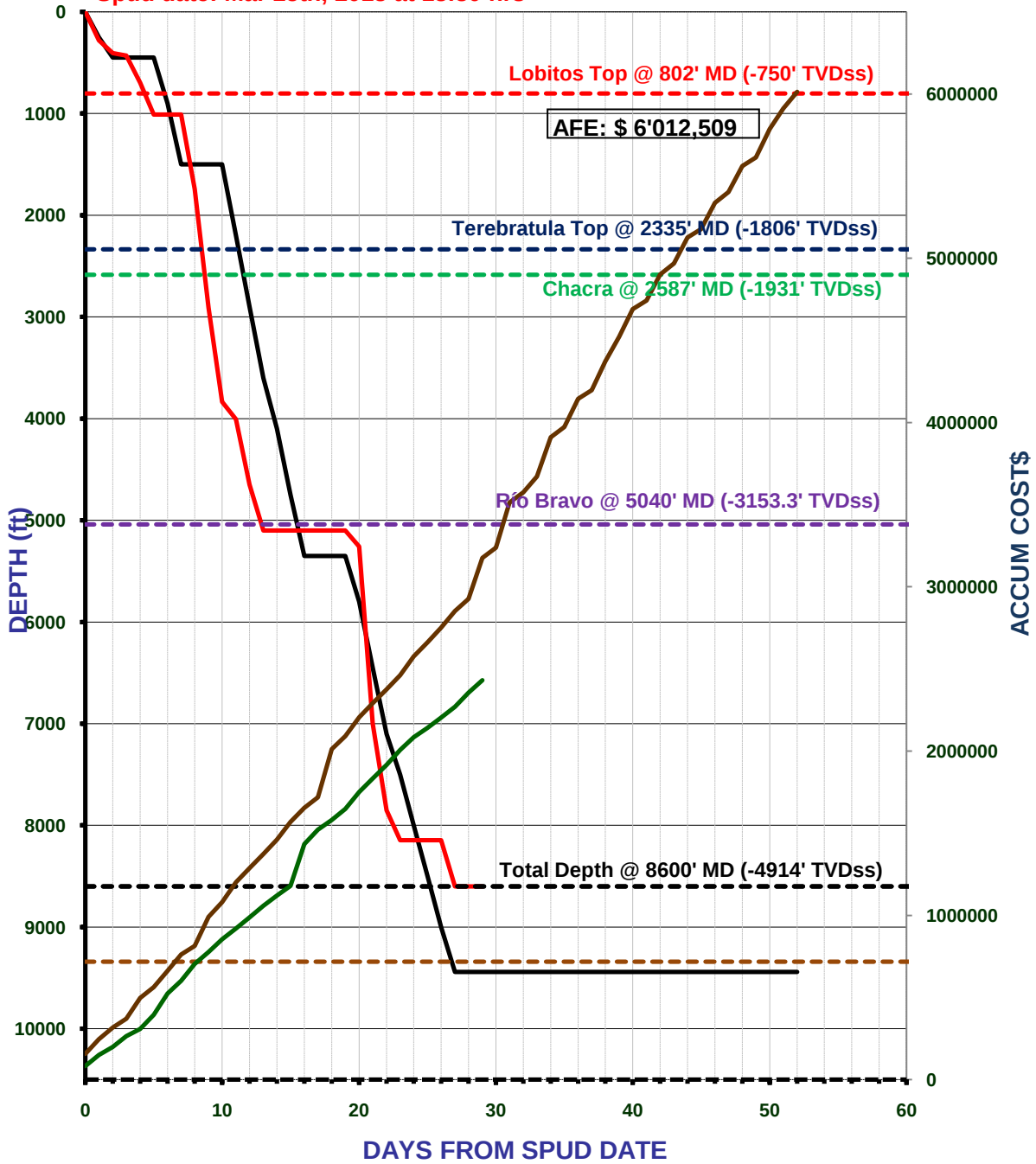
** In deviated wells, the difference between prognosis and the actual top might be influenced by the drift from the deviation plan.



DRILLING PROGRESS CURVE

WELL : LO6-28D

Spud date: Mar 25th, 2013 at 18:30 hrs

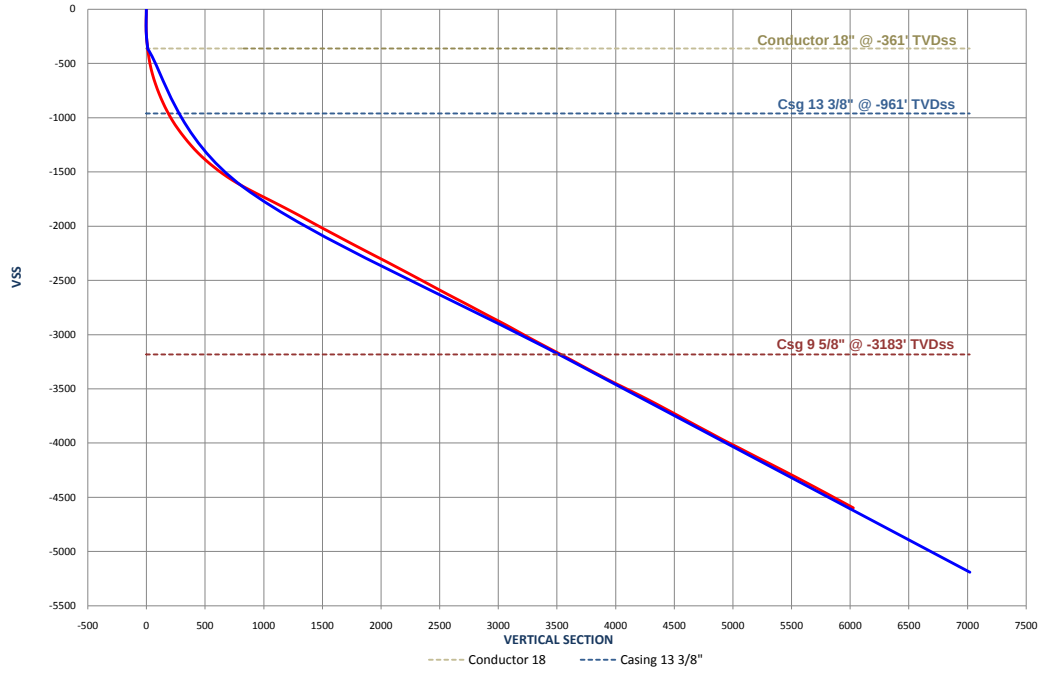


DEPTH: — PROGNOSSED — REAL COST: — PROGNOSSED — REAL



SAVIA
PERU

WELL PATH LO6-28D



LO6-28D MWD GYRODATA, PHOENIX & WTF 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)	TVDss (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	50.00
<i>GYRO SURVEY #02</i>	100.00	1.10	31.80	99.99	0.82	0.51	-0.96	0.96	31.80	1.10	-49.99
<i>GYRO SURVEY #02</i>	200.00	0.68	36.09	199.98	2.11	1.36	-2.51	2.51	32.81	0.42	-149.98
<i>GYRO SURVEY #02</i>	300.00	4.16	225.75	299.91	0.06	-0.89	0.46	0.89	273.76	4.83	-249.91
<i>GYRO SURVEY #03</i>	383.00	6.72	227.02	382.52	-5.35	-6.60	8.15	8.50	230.95	3.09	-332.52
<i>GYRO SURVEY #04</i>	412.00	5.43	234.86	411.36	-7.30	-8.96	11.09	11.56	230.83	5.28	-361.36
<i>GYRO SURVEY #05</i>	468.00	7.48	222.00	467.01	-11.53	-13.57	17.19	17.81	229.63	4.46	-417.01
<i>GYRO SURVEY #06</i>	559.00	10.53	217.70	556.88	-22.52	-22.62	31.37	31.92	225.13	3.43	-506.88
<i>GYRO SURVEY #07</i>	653.00	14.40	214.86	648.64	-38.91	-34.56	51.65	52.04	221.61	4.17	-598.64
<i>GYRO SURVEY #08</i>	747.00	17.70	212.90	738.97	-60.51	-49.00	77.62	77.86	219.00	3.56	-688.97
<i>GYRO SURVEY #09</i>	843.00	20.21	211.48	829.75	-86.91	-65.59	108.78	108.88	217.04	2.66	-779.75
<i>GYRO SURVEY #10</i>	934.00	23.51	211.62	914.20	-115.77	-83.32	142.61	142.64	215.74	3.63	-864.20
<i>First 12 1/4" MWD SURVEY</i>	1014.00	25.10	214.10	987.11	-143.42	-101.20	175.52	175.53	215.21	2.36	-937.11
	1111.00	29.40	214.10	1073.32	-180.18	-126.10	219.92	219.92	214.99	4.43	-1023.32
	1206.00	33.80	213.90	1154.22	-221.45	-153.92	269.68	269.68	214.80	4.63	-1104.22
	1299.00	36.00	214.70	1230.49	-265.39	-183.91	322.89	322.89	214.72	2.42	-1180.49
	1393.00	39.00	215.50	1305.05	-312.20	-216.82	380.10	380.10	214.78	3.23	-1255.05
	1488.00	42.60	215.50	1376.96	-362.72	-252.86	442.16	442.16	214.88	3.79	-1326.96
	1581.00	46.60	215.00	1443.15	-416.24	-290.33	507.48	507.49	214.90	4.32	-1393.15
	1676.00	49.20	215.20	1506.83	-473.90	-330.86	577.96	577.97	214.92	2.74	-1456.83
	1771.00	52.10	215.60	1567.06	-533.77	-373.42	651.40	651.42	214.98	3.07	-1517.06
	1866.00	55.80	215.50	1622.96	-596.25	-418.07	728.19	728.22	215.04	3.90	-1572.96
	1961.00	59.10	215.10	1674.07	-661.60	-464.33	808.25	808.28	215.06	3.49	-1624.07
	2056.00	60.60	215.90	1721.79	-728.28	-512.24	890.33	890.38	215.12	1.74	-1671.79
	2152.00	61.50	216.60	1768.26	-796.02	-561.91	974.30	974.37	215.22	1.13	-1718.26
	2247.00	61.40	216.20	1813.67	-863.19	-611.43	1057.70	1057.80	215.31	0.38	-1763.67
	2342.00	60.80	215.60	1859.58	-930.56	-660.20	1140.85	1140.96	215.35	0.84	-1809.58
	2436.00	60.50	215.10	1905.65	-997.39	-707.60	1222.77	1222.90	215.35	0.56	-1855.65
	2533.00	59.80	215.40	1953.93	-1066.09	-756.16	1306.90	1307.03	215.35	0.77	-1903.93
	2625.00	59.00	216.40	2000.76	-1130.24	-802.59	1386.06	1386.21	215.38	1.28	-1950.76
	2718.00	59.50	215.90	2048.31	-1194.77	-849.73	1465.95	1466.13	215.42	0.71	-1998.31
	2813.00	60.50	216.10	2095.81	-1261.33	-898.09	1548.20	1548.40	215.45	1.07	-2045.81
	2906.00	59.90	215.60	2142.03	-1326.75	-945.36	1628.88	1629.10	215.47	0.80	-2092.03
	3001.00	60.10	215.20	2189.53	-1393.81	-993.02	1711.14	1711.37	215.47	0.42	-2139.53
	3095.00	60.80	215.30	2235.89	-1460.59	-1040.21	1792.90	1793.14	215.46	0.75	-2185.89
	3188.00	60.30	214.20	2281.62	-1527.12	-1086.37	1873.88	1874.11	215.43	1.16	-2231.62
	3283.00	61.10	214.20	2328.11	-1595.64	-1132.94	1956.73	1956.94	215.38	0.84	-2278.11
	3377.00	60.70	214.70	2373.82	-1663.37	-1179.40	2038.86	2039.07	215.34	0.63	-2323.82
	3469.00	60.00	214.60	2419.34	-1729.15	-1224.86	2118.82	2119.01	215.31	0.77	-2369.34
	3563.00	60.50	213.90	2465.98	-1796.60	-1270.79	2200.43	2200.61	215.27	0.84	-2415.98
	3657.00	59.70	214.60	2512.84	-1863.96	-1316.65	2281.91	2282.08	215.24	1.07	-2462.84
	3753.00	60.10	214.30	2560.98	-1932.45	-1363.63	2364.97	2365.13	215.21	0.50	-2510.98
	3848.00	59.60	214.10	2608.70	-2000.39	-1409.80	2447.11	2447.27	215.17	0.56	-2558.70
	3941.00	60.20	213.80	2655.34	-2067.14	-1454.74	2527.57	2527.71	215.14	0.70	-2605.34
	4035.00	60.40	213.60	2701.91	-2135.07	-1500.04	2609.21	2609.33	215.09	0.28	-2651.91
	4129.00	61.00	213.20	2747.91	-2203.50	-1545.16	2691.17	2691.27	215.04	0.74	-2697.91
	4223.00	59.80	212.80	2794.34	-2272.05	-1589.68	2772.87	2772.95	214.98	1.33	-2744.34
	4318.00	60.10	212.40	2841.92	-2341.32	-1633.98	2855.05	2855.12	214.91	0.48	-2791.92
	4413.00	60.60	211.90	2888.91	-2411.22	-1677.91	2937.54	2937.58	214.83	0.70	-2838.91
	4509.00	60.70	211.50	2935.97	-2482.42	-1721.88	3021.12	3021.14	214.75	0.38	-2885.97
	4605.00	59.30	212.60	2983.97	-2552.88	-1766.00	3104.17	3104.18	214.67	1.76	-2933.97
	4700.00	58.80	214.40	3032.83	-2620.82	-1810.96	3185.63	3185.63	214.64	1.71	-2982.83
	4795.00	59.70	215.40	3081.40	-2687.78	-1857.67	3267.27	3267.27	214.65	1.31	-3031.40
	4889.00	60.10	215.30	3128.54	-2754.11	-1904.72	3348.58	3348.59	214.67	0.44	-3078.54
	4985.00	60.40	215.20	3176.18	-2822.17	-1952.83	3431.92	3431.94	214.68	0.33	-3126.18
	5041.00	60.50	215.10	3203.80	-2862.16	-1980.65	3480.64	3480.65	214.68	0.24	-3153.80
<i>Last 12 1/4" MWD SURVEY</i>	5128.00	60.33	215.69	3246.75	-2923.83	-2024.47	3556.29	3556.30	214.70	0.62	-3196.75
<i>First 8 1/2" MWD SURVEY by WTF Co.</i>	5223.00	59.82	216.12	3294.14	-2990.52	-2072.75	3638.61	3638.61	214.73	0.66	-3244.14
	5318.00	59.31	216.40	3342.27	-3056.57	-2121.19	3720.49	3720.49	214.76	0.59	-3292.27
	5413.00	60.53	215.51	3389.88	-3123.11	-2169.46	3802.68	3802.68	214.79	1.52	-3339.88
	5508.00	60.10	215.23	3436.93	-3190.41	-2217.23	3885.21	3885.21	214.80	0.52	-3386.93
	5602.00	61.37	214.41	3482.88	-3257.73	-2264.05	3967.21	3967.21	214.80	1.55	-3432.88
	5697.00	62.01	214.26	3527.93	-3326.79	-2311.22	4050.84	4050.84	214.79	0.69	-3477.93
	5793.00	61.89	213.97	3573.07	-3396.94	-2358.74	4135.56	4135.56	214.78	0.29	-3523.07
	5888.00	61.35	213.77	3618.23	-3466.34	-2405.32	4219.13	4219.13	214.76	0.60	-3568.23
	5982.00	60.70	213.45	3663.77	-3534.82	-2450.84	4301.35	4301.35	214.74	0.75	-3613.77
	6076.00	59.79	212.88	3710.42	-3603.13	-2495.49	4382.92	4382.92	214.71	1.10	-3660.42
	6171.00	59.95	215.00	3758.11	-3671.29	-2541.36	4465.07	4465.07	214.69	1.94	-3708.11
	6265.00	59.68	215.23	3805.37	-3737.76	-2588.10	4546.32	4546.32	214.70	0.36	-3755.37
	6359.00	59.17	214.77	3853.18	-3804.05	-2634.52	4627.25	4627.25	214.70	0.69	-3803.18
	6455.00	60.23	216.16	3901.62	-3871.55	-2682.61	4710.12	4710.13	214.72	1.67	-3851.62
	6550.00	60.06	215.98	3948.91	-3938.15	-2731.12	4792.50	4792.50	214.74	0.24	-3898.91
	6644.00	59.33	216.08	3996.34	-4003.78	-2778.86	4873.63	4873.63	214.76	0.78	-3946.34
	6739.00	61.67	216.29	4043.12	-4070.51	-2827.67	4956.29	4956.29	214.79	2.47	-3993.12
	6832.00	61.18	216.14	4087.60	-4136.40	-2875.92	5037.93	5037.93	214.81	0.55	-4037.60
	6928.00	60.59	216.59	4134.31	-4203.94	-2925.65	5121.77	5121.77	214.84	0.74	-4084.31
	7022.00	61.17	215.05	4180.06	-4270.52	-2973.70	5203.87	5203.87	214.85	1.56	-4130.06
	7117.00	61.39	215.12	4225.71	-4338.70	-3021.59	5287.18	5287.19	214.85	0.24	-4175.71
	7212.00	60.88	215.11	4271.57	-4406.75	-3069.45	5370.38	5370.38	214.86	0.54	-4221.57

7307.00	60.79	215.32	4317.87	-4474.53	-3117.28	5453.33	5453.34	214.86	0.22	-4267.87
7402.00	60.45	215.07	4364.47	-4542.18	-3165.00	5536.11	5536.12	214.87	0.43	-4314.47
7498.00	60.20	214.88	4412.00	-4610.52	-3212.81	5619.52	5619.53	214.87	0.31	-4362.00
7593.00	60.19	213.69	4459.22	-4678.63	-3259.24	5701.95	5701.95	214.86	1.09	-4409.22
7688.00	59.87	213.18	4506.68	-4747.31	-3304.59	5784.22	5784.22	214.84	0.57	-4456.68
7783.00	59.32	212.73	4554.76	-4816.06	-3349.16	5866.11	5866.11	214.82	0.71	-4504.76
7877.00	60.25	213.75	4602.07	-4883.99	-3393.69	5947.31	5947.31	214.79	1.36	-4552.07
7970.00	59.12	213.41	4649.01	-4950.88	-3438.09	6027.57	6027.58	214.78	1.26	-4599.01

First 12 1/4" MWD-GR Survey



REPORT N° 1

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	25-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	26-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	281	PROGRESS 00h00-24h00 (ft):	124
Depth @ 24h00 (ft):	405	CONDUCTOR (ft):	18"
Depth @ 06h00 (ft):	408	DRILLING DAYS:	1

Operations summary:

Continued RIH conductor to 389'ft. M/U 17" triconic it, jet sub, 01 drill collar, estabilizer, 02 drill collar. Runing Gyrodata tool. First run Gyro survey: 383'MD, incl 683°, azm 225.45°az. Take confirmation Gyrosurvey. Second run Gyro survey: 383'MD, incl 6.72°, az 227.02°. Drilled w/17" triconic bit & run 18" conductor from 389' to 400'MD. Drilled from 400' to 405'MD.

Present operations:

Drill on Helico Mbr. At 417'MD.

Prognosed operations:

Wash and run 18" conductor. Weld stops. R/U 21" diverter, bell nipple and flow line. Prepare cement job.

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
100.00	1.10	31.80					
200.00	0.68	36.09					
300.00	4.16	225.75					
383.00	6.72	227.02					

Mud information:

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

Provisional Formation Tops:

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

Remarks

Muglogging cabin 40% ready (sensors & system).

Well Cost:

AFE	6 012 509	US\$
DAILY	48 699	US\$
CUMULATED	198 348	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	26-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	27-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	405	PROGRESS 00h00-24h00 (ft):	25
Depth @ 24h00 (ft):	430	CONDUCTOR (ft):	18" 411
Depth @ 06h00 (ft):	430	DRILLING DAYS:	2

Operations summary:

Drilled, wash and run 18" conductor. Conductor shoe depth 411 ft. Hole depth 418 ft. Total conductor penetration in formation 22 ft. Run Gyrodata tool. Take survey. Pooh Gyro tool. Survey @ 412 ft, inc 5.43 deg, azm 234.86 deg. L/D pup joint and connect 5" stand. Drill w/ 17" tricone bit, from 418' to 430'MD. Circulate, POOH 17" BHA from 430 ft to surface.

Present operations:

L/D 16" magnet and prepare to run 17" BHA.

Prognosed operations:

M/U & RIH directional BHA w/17" PDC bit and drill ahead on formation.

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)
412.00	5.43	234.86					

Mud information:

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

Provisional Formation Tops:

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

Remarks

Muglogging cabin 70% ready (sensors & system).

Well Cost:

AFE	6 012 509	US\$
DAILY	66 146	US\$
CUMULATED	264 494	US\$



REPORT N° 3

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	27-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	28-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	430	PROGRESS 00h00-24h00 (ft):	268
Depth @ 24h00 (ft):	698	CONDUCTOR (ft):	18" 411
Depth @ 06h00 (ft):	981	DRILLING DAYS:	3

Operations summary:

Continued installing 21 1/4" BOP diverter. Installed Bell Niple on 21 1/4" diverter and condition flowline. M/U 16" magnet and RIH to 430 ft, POOH, recover 1/4 debris. 2nd run magnet, No debris, clean. L/D magnet and prepared to run 17" BHA. M/U and measure and calibrated directional tools. Pepesa rig services. M/U directional BHA & 17" PDC bit to 377 ft, Perform safety meeting with all crew on location. Took Gyrodata survey Directional drilled rotating and sliding from 430 ft to 698 ft. Last survey @ 934', incl 23.51° deg, azm 211.62° deg.

Present operations:

Circulate on bottom. (CSG POINT 1011'MD)

Prognosed operations:

POOH & L/D dir BHA. M/U & RIH slick BHA to condition hole. POOH. Run 13 3/8" csg.

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)
0	0.00	0.00	0.00	50.00	0.00	0.00	0.00
100	1.10	31.80	99.99	-49.99	0.96	0.82	0.51
200	0.68	36.09	199.98	-149.98	2.51	2.11	1.36
300	4.16	225.75	299.91	-249.91	0.89	0.06	-0.89
383	6.72	227.02	382.52	-332.52	8.50	-5.35	-6.60
412	5.43	234.86	411.36	-361.36	11.56	-7.30	-8.96
468	7.48	222.00	467.01	-417.01	17.81	-11.53	-13.57
559	10.53	217.70	556.88	-506.88	31.92	-22.52	-22.62
653	14.40	214.86	648.64	-598.64	52.04	-38.91	-34.56
747	17.70	212.90	738.97	-688.97	77.86	-60.51	-49.00
843	20.21	211.48	829.75	-779.75	108.88	-86.91	-65.59
934	23.51	211.62	914.20	-864.20	142.64	-115.77	-83.32
*1011	26.20	214.00	984.06	-934.06	174.96	-142.95	-100.88

Mud information:

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

Provisional Formation Tops:

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

Remarks

*1011 survey is projection to bottom.

Muglogging cabin 70% ready (sensors & system).

Drilling 17" section with sea water, without return. No cutting sample recovered in this section.

Well Cost:

AFE	6 012 509	US\$
DAILY	43 710	US\$
CUMULATED	308 204	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	28-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoya</i>	REPORT DATE :	29-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	981	PROGRESS 00h00-24h00 (ft):	30
Depth @ 24h00 (ft):	1011	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	1011	DRILLING DAYS:	4

Operations summary:

Drilled rotating & sliding from 698' to 1011'MD. POOH & L/D directional BHA w/17" PDC bit. M/U & RIH slick BHA w/17" triconic bit from surface to 1011'MD. Circulated with sea water, pumped vis pill. Continued cleaning hole. POOH & L/D. Welded shoe and valve to 13 3/8" csg. Safety meeting. Run 13 3/8" csg from surface to 1011'MD.

Present operations:

Performing 13 3/8" cement job. Displacing with sea water.

Prognosed operations:

WOC, N/D 21 1/4" diverter, N/U 13 5/8" BOP.

Lithology summary:

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

Surveys:

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

Mud information:

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

Provisional Formation Tops:

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

Remarks

Drilling 17" section with sea water, without return. No cutting sample recovered in this section.

13 3/8" csg run from surface to 1011'MD.

Halliburton Co. Realized safety meeting and then cementing job in de hole.

Inkawell Co. Worked in the LO6-27D well. Recording data w/memory gauge. At 04:00hrs 28-03-13 started POOH memory gauge.

Well Cost:

AFE	6 012 509	US\$
DAILY	86 008	US\$
CUMULATED	394 212	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	29-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	30-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	1011	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	1011	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	1011	DRILLING DAYS:	5

Operations summary:

Sertong Co. Run 13 3/8" csg from surface at 1011'MD (csg shoe). Halliburton Co. Realized cement job. L/D bell nipple.

Present operations:

Continue installing 13 5/8" BOP.

Prognosed operations:

Test BOP, M/U directional BHA, tag & drill out cement & formation. Perform formation integrity test. Drill 12 1/4" hole.

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: Sea water
Mud Weight (ppg):
Viscosity (sec):
Filtrate (ml):

Provisional Formation Tops:

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

Remarks

13 3/8" csg shoe @1011'MD.
Possible star 12 1/4" section at 22:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	129 155	US\$
CUMULATED	523 367	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	30-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	31-Mar-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	1011	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	1011	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	1011	DRILLING DAYS:	6

Operations summary:

Worked in 13 5/8" BOP. Tested BOP, Ok. R/U 5" DP from barge to platform. Took serial number and measure. M/U HWDP in stands and 5" DP in stands.

Present operations:

M/U dir. BHA bit 12 1/4" PDC, 12 1/8" mud motor, 8" monel.

Prognosed operations:

M/U 5" DP in stands. R/U and M/U dir. BHA w/ 12 1/4" PDC bit. TIH, tag TOC, drill out cement, perform FIT test.

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: EZ-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			50.00		

Remarks

13 3/8" csg shoe @1011'MD.

Possible star 12 1/4" section at 10:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	79 086	US\$
CUMULATED	602 453	US\$



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REPORT N° 7

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	31-Mar-13
Mud Loggers:	<i>O. Ojeda/R. Otoya</i>	REPORT DATE :	1-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	1011	PROGRESS 00h00-24h00 (ft):	732
Depth @ 24h00 (ft):	1743	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	2220	DRILLING DAYS:	7

Operations summary:

M/U directional BHA w/ 12 1/4" PDC bit. RIH. Tag top of cement at 967'MD. Drilled out cement from 967' to 996'MD. Performed casing test 1000psi, ok. Drilled out cement from 996' to 1011'MD. Displaced sea water from mud 9.5ppg. Drilled sliding & rotating from 1011' to 1743'MD.

Present operations:

Circulate, pump viscosity pill, clean annular at 2220'MD.

Prognosed operations:

Drill ahead on Lobitos member.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	1011 - 1260	181	90		10						NF	CLYST: olv blk, olv gy, dk gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbply i/p, occ irr, md sft/md frm, sl slble, mic mic, mic carb, sl calc/calc. SST: lt gy/gy, vf&f qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx i/p, calc cmnt, md consl/md fri, w/dk & grn'sh lthcs grns incl, p vis por. TG: 4 C1: 400 C2:0 C3: 0 C4: 0 C5: 0
LOBITOS	1260 - 1665	220	100								NF	CLYST: olv blk, olv gy, dk gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbply i/p, occ irr, md sft/md frm, sl slble, mic mic, mic carb, sl calc/calc. TG: 8 C1: 788 C2:0 C3: 0 C4: 0 C5: 0
LOBITOS	1665 - 1742	227	20		40	40					NF	SST: lt gy, occ md gy, vf/f qtz grns, hyal, transl, sbang/sbrns, w srt, arg mtx i/p, calc cmnt, md fri/md consl, w/dk & grn'sh lthcs incl, p vis por. SD: w, lt gy, smky, 30%vf, 60%f, 10%am qtz grns, hyal, transl, sbang/sbrnd, f srt. CLYST: olv blk, olv gy, dk gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbply i/p, occ irr, md sft/md frm, sl slble, mic mic, mic carb, sl calc/calc. TG: 121 C1: 11482 C2:138 C3: 77 C4: 21 C5: 3
LOBITOS	1742 - 2180	216	100				TR				NF	CLYST: olv blk, olv gy, dk gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbply i/p, occ irr, md sft/md frm, sl slble, mic mic, mic carb, sl calc/calc. LMST-DOL: dk yell'sh brn, beige, sbblky, irr, frm, mic carb, mass aspect TG: 15 C1: 1410 C2:28 C3: 8 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1014	25.10	214.10	987.11	-937.11	175.53	-143.42	-101.20
1111	29.40	214.10	1073.32	-1023.32	219.92	-180.18	-126.10
1206	33.80	213.90	1154.22	-1104.22	269.68	-221.45	-153.92
1299	36.00	214.70	1230.49	-1180.49	322.89	-265.39	-183.91
1393	39.00	215.50	1305.05	-1255.05	380.10	-312.20	-216.82
1488	42.60	215.50	1376.96	-1326.96	442.16	-362.72	-252.86
1581	46.60	215.00	1443.16	-1393.16	507.45	-416.05	-290.54
1676	49.20	215.20	1506.83	-1456.83	577.97	-473.90	-330.86
1771	52.10	215.60	1567.06	-1517.06	651.42	-533.77	-373.42
1866	55.80	215.50	1622.96	-1572.96	728.22	-596.25	-418.07
1961	59.10	215.10	1674.07	-1624.07	808.28	-661.60	-464.33
2056	60.60	215.90	1721.78	-1671.78	890.42	-728.47	-512.03

Mud information:

Type: EZ-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			50.00		

Remarks

Well Cost:

AFE	6 012 509	US\$
DAILY	101 692	US\$
CUMULATED	704 145	US\$



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REPORT N° 8

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	1-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	2-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	1743	PROGRESS 00h00-24h00 (ft):	1165
Depth @ 24h00 (ft):	2908	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	3252	DRILLING DAYS:	8

Operations summary:

Drilled rotating & sliding from 1743' to 2501'MD. Circulated. Short trip at 13 3/8" csg choe. RIH at bottom. Continued drill rotating and sliding from 2501' to 2908'MD.

Present operations:

Drill on Chacra fm. At 3350'MD.

Prognosed operations:

Drill ahead on Chacra fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	2180 - 2335	228	100								NF	CLYST: oliv blk, md dk gy, brn'sh blk i/p, earthy/smooth, blk/sbblky, sbply i/p, md sft/md frm, occ slty, sl slble, mic mic, mic carb i/p, sl calc. TG: 8 C1: 765 C2:14 C3: 7 C4: 0 C5: 0
TEREBRA TULA	2335 - 2408	238	30		10	60					NF	SD: wh, smky, 30%f, 50%fm, 20%cc, occ vc, sbang/sbrnd, w srt, dk & grn lithcs, w/f srt. SST: lt gy, md gy, v/f qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx, loc cacl cmnt, md fri/md consl, w/dk lithcs & grn'sh grns incl, p vis por. CLYST: oliv blk, md dk gy, brn'sh blk i/p, earthy/smooth, blk/sbblky, sbply i/p, md sft/md frm, occ slty, sl slble, mic mic, mic carb i/p, sl calc. TG: 94 C1: 8793 C2:151 C3: 86 C4: 0 C5: 0
TEREBRA TULA	2408 - 2450	161	40		10	50					NF	SD: wh, smky, 20%f, 60%fm, 20%cc, occ vc, sbang/sbrnd, w srt, dk & grn lithcs, w/f srt. SST: lt gy, md gy, v/f qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx, loc cacl cmnt, md fri/md consl, w/dk lithcs & grn'sh grns incl, p vis por. CLYST: oliv blk, md dk gy, brn'sh blk i/p, earthy/smooth, blk/sbblky, sbply i/p, md sft/md frm, occ slty, sl slble, mic mic, mic carb i/p, sl calc. TG: 39 C1: 3716 C2:62 C3: 33 C4: 0 C5: 2
TEREBRA TULA	2450 - 2587	221	10		20	70					NF	SD: wh, smky, 20%f, 70%fm, 10%cc, occ vc, sbang/sbrnd, w srt, dk & grn lithcs, w/f srt. SST: lt gy, md gy, v/f qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx, loc cacl cmnt, md fri/md consl, w/dk lithcs & grn'sh grns incl, p vis por. CLYST: oliv blk, md dk gy, brn'sh blk i/p, earthy/smooth, blk/sbblky, sbply i/p, md sft/md frm, occ slty, sl slble, mic mic, mic carb i/p, sl calc. TG: 48 C1: 4076 C2:112 C3: 90 C4: 39 C5: 9
CHACRA	2587 - 2660	233	50		10	40					NF	CLYST: md gy, lt gy i/p, oliv gy i/p, earthy surf, smooth surf i/p, sbblky, blk i/p, md sft/md frm, mic mic, mic carb, sl calc, v sl calc i/p. SD: wh, smky, 20%f, 70%fm, 10%cc, occ vc, sbang/sbrnd, w srt, dk & grn lithcs, w/f srt. SST: lt gy, md gy, v/f qtz grns, hyal, transl, sbang/sbrnd, w srt, arg mtx, loc cacl cmnt, md fri/md consl, w/dk lithcs & grn'sh grns incl, p vis por. TG: 11 C1: 910 C2:28 C3: 23 C4: 12 C5: 4
CHACRA	2660 - 2930	133	90	10		TR					NF	CLYST: md gy, lt gy i/p, oliv gy i/p, earthy surf, smooth surf i/p, sbblky, blk i/p, md sft/md frm, mic mic, mic carb, sl calc, v sl calc i/p. SLST: v lt gy, lt gy, sbblky, occ irr, md frm, mic mic, mic carb, occ micpyr on surf, grad to sst i/p, sl calc. TG: 11 C1: 798 C2:29 C3: 27 C4: 22 C5: 6

CHACRA	2930 - 3230	122	80	20							NF	CLYST: md gy, lt gy i/p, oliv gy i/p, earthy surf, smooth surf i/p, sbblky, blkly i/p, md sft/md frm, mic mic, mic carb, sl calc, v sl calc i/p. SLST: v lt gy, lt gy, sbblky, occ irr, md frm, mic mic, mic carb, occ micpyr on surf, grad to sst i/p, sl calc. TG: 8 C1: 696 C2: 18 C3: 15 C4: 11 C5: 2
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Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3001.0	60.10	215.20	2189.53	-2139.53	1711.37	-1393.81	-993.02
3095.0	60.80	215.30	2235.89	-2185.89	1793.14	-1460.59	-1040.21
3188.0	60.30	214.20	2281.62	-2231.62	1874.11	-1527.12	-1086.37

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.0
Viscosity (sec):	56
Filtrate (ml):	6.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32

Remarks

- So far we have drilled about 643 ft MD (318.6 ft vertical) of Claystone and siltstone sequence within Chacra fm.
- Attach you will find mud log and "well Path" where you see the section view of the well at 2231.62' VSS.
- Last survey at 3188' MD was incl 60.30°, az 214.20°, TVDss 2231.62', distance respect to plan is 8.11'ft.
- ROP rotating mode: 126; ROP sliding mode: 85.

Well Cost:

AFE	6 012 509	US\$
DAILY	73 332	US\$
CUMULATED	777 477	US\$



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REPORT N° 9

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	2-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	3-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	2909	PROGRESS 00h00-24h00 (ft):	926
Depth @ 24h00 (ft):	3835	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	4006	DRILLING DAYS:	9

Operations summary:

Drilled rotating & sliding from 2909' to 3818'MD. PO 02 stans to clean possum belly. RIH at bottom. Continued drilling & sliding from 3818' to 3835'MD.

Present operations:

Circulate bottom up to clean hole.

Prognosed operations:

Drill ahead on Chacra fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	3230 - 3350	187	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbpity i/p, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 13 C1: 1022 C2:32 C3: 29 C4: 20 C5: 4
CHACRA	3350 - 3512	132	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbpity i/p, occ sblam, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 5 C1: 388 C2:11 C3: 10 C4: 8 C5: 2
CHACRA	3512 - 3632	143	70	30			TR				NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbpity i/p, occ sblam, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc, occ mic pyr on surf. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 19 C1: 1557 C2:45 C3: 40 C4: 29 C5: 8
CHACRA	3632 - 3800	121	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbpity i/p, occ sblam, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc, occ mic pyr on surf. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 8 C1: 619 C2:19 C3: 16 C4: 12 C5: 3
CHACRA	3800 - 4006	78	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbpity i/p, occ sblam, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc, occ mic pyr on surf. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 6 C1: 456 C2:14 C3: 11 C4: 7 C5: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3753.0	60.10	214.30	2560.98	-2510.98	2365.13	-1932.45	-1363.63
3848.0	59.60	214.10	2608.70	-2558.70	2447.27	-2000.39	-1409.80
3941.0	60.20	213.80	2655.34	-2605.34	2527.71	-2067.14	-1454.74

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.2
Viscosity (sec):	56
Filtrate (ml):	6.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32

Remarks

- So far we have drilled about 1419'ft MD (705.2'ft vertical) of Claystone and siltstone secuencia whitin Chacra fm.
- Attach you will find mud log and "well Path" where you see the section view of the well at 2605.34' VSS.
- Last survey at 3941'MD was incl 60.20°, az 213.8°, TVDss -2605.34°, distance respect to plan is 9.88'ft.
- ROP rotating mode: 116; ROP sliding mode: 54.
- Between 3818' to 3823'MD without values of gas, due possum belly filled of cuttings. Pepesa personnel cleaned possum belly.
- Circulate on bottom (4006'MD) to clean annular.
- Next 9 5/8" csg point is programmed 5150'MD.

Well Cost:

AFE	6 012 509	US\$
DAILY	76 672	US\$
CUMULATED	854 149	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	D. Paz	OPERATIONS DATE :	3-Apr-13
Mud Loggers:	O. Ojeda/R. Otoyá	REPORT DATE :	4-Apr-13
Rig Contractor:	RIG 40	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	3835	PROGRESS 00h00-24h00 (ft):	171
Depth @ 24h00 (ft):	4006	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	4090	DRILLING DAYS:	10

Operations summary:

Drilled rotating & sliding from 3835' to 4006'MD. Pumped 30bbls viscosity pill. Circulated bottom up. POOH directional BHA. Phoenix mud motor damage. L/D phoenix mud motor. 12 1/4" PDC bit came out with 01 jet plug with rubber of mud motor. M/U & RIH same 12 1/4" PDC & new mud motor. RIH at 1200'MD.

Present operations:

Drill rotating on Chacra fm at 4140'MD.

Prognosed operations:

Drill ahead at 9 5/8" csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4006 - 4070	132	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbbly, sbply i/p, occ sblam, md frm/md sft, slty i/p, sl sble, mic mic, mic carb, non/v sl calc, occ mic pyr on surf. SLST: md gy, v lt gy, earthy, blk/sbbly, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 9 C1: 755 C2:24 C3: 19 C4:13 C5:0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3848.0	59.60	214.10	2608.70	-2558.70	2447.27	-2000.39	-1409.80
3941.0	60.20	213.80	2655.34	-2605.34	2527.71	-2067.14	-1454.74
4035.0	60.40	213.60	2701.91	-2651.91	2609.33	-2135.07	-1500.04

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.2
Viscosity (sec):	56
Filtrate (ml):	6.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32

Remarks

- So far we have drilled about 1483'ft MD (732.5'ft vertical) of Claystone and siltstone sequence within Chacra fm.
- Attach you will find mud log and "well Path" where you see the section view of the well at 2651.91' VSS.
- Last survey at 4035'MD was incl 60.40°, az 213.6°, TVDss -2651.91°, distance respect to plan is 10.66'ft.
- ROP rotating mode: 106.
- Phoenix mud motor damage in bearing section GAP, 06" open. 12 1/4" PDC bit came out with 01 jet plug with rubber of mud motor.
- Next 9 5/8" csg point is programmed 5150'MD.

Well Cost:

AFE	6 012 509	US\$
DAILY	66 381	US\$
CUMULATED	920 530	US\$



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REPORT N° 11

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	4-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	5-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	4006	PROGRESS 00h00-24h00 (ft):	643
Depth @ 24h00 (ft):	4649	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	4818	DRILLING DAYS:	11

Operations summary:

Drilled rotating & sliding from 4006' to 4649'MD.

Present operations:

Drill on Chacra fm at 4890'MD.

Prognosed operations:

Drill ahead at 9 5/8" csg point.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4070 - 4250	113	80	20							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, occ sblam, md frm/md sft, slty i/p, sl slble, mic mic, mic carb, non/v sl calc, occ mic pyr on surf. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 11 C1: 900 C2:29 C3: 24 C4:16 C5:0
CHACRA	4250 - 4400	113	70	30							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, md frm, v occ md sft, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc, occ mic pyr. TG: 11 C1: 951 C2:24 C3: 24 C4:14 C5:0
CHACRA	4400 - 4580	119	60	40							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, md frm, v occ md sft, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 12 C1: 1005 C2:31 C3: 23 C4:12 C5:0
CHACRA	4580 - 4790	77	50	50							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, md frm, v occ md sft, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 6 C1: 472 C2:16 C3: 11 C4:6 C5:0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4605.0	59.30	212.60	2983.97	-2933.97	3104.18	-2552.88	-1766.00
4700.0	58.80	214.40	3032.83	-2982.83	3185.63	-2620.82	-1810.96
4795.0	59.70	215.40	3081.40	-3031.40	3267.27	-2687.78	-1857.67

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.3
Viscosity (sec):	59
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32

Remarks

- So far we have drilled about 2203'ft MD (1108'ft vertical) of Claystone and siltstone sequence within Chacra fm.
- Attach you will find mud log and "well Path" where you see the section view of the well at -3031.40' VSS.
- Last survey at 4795'MD was incl 59.70°, az 215.40°, TVDss -3031.40°, distance respect to plan is 25.59'ft.
- ROP rotating mode average: 83. ROP slide mode average: 13.
- Next 9 5/8" csg point is programmed 5150'MD.

Well Cost:

AFE	6 012 509	US\$
DAILY	66 675	US\$
CUMULATED	987 205	US\$



REPORT N° 12

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	5-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	6-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	4649	PROGRESS 00h00-24h00 (ft):	451
Depth @ 24h00 (ft):	5100	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	5100	DRILLING DAYS:	12

Operations summary:

Drilled rotating & sliding from 4649' to 5100'MD. Csg point. Circulated. POOH. L/D 12 1/4" PDC bit.

Present operations:

Circulate and condition hole at 5100', MW: 10.3 ppg.

Prognosed operations:

POOH 12 1/4" bit.. Run 9 5/8" csg.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4790 - 5040	85	70	30							NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, md frm, v occ md sft, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. TG: 6 C1: 536 C2:16 C3: 12 C4:7 C5:0
POSS RIO BRAVO	5040 - 5100	75	70	30	TR - 10						NF	CLYST: md dk gy, oliv gy i/p, occ brn'sh gy, earthy, blk/sbblky, sbplty i/p, md frm, v occ md sft, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md gy, v lt gy, earthy, blk/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst i/p, sl calc. SST: med dk gry, dk gnsh gry, med gry, vf-f qtz gr, hyal, trns, sbang/sbrnd, wl srtd, arg mtrx i/p, calc cmt, mod cnsol, ti i/p, w/glau & dk mnrls incl, miccarb i/p, p vis por, N.O.S. TG: 16 C1: 1362 C2:39 C3: 26 C4:16 C5:2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4985.0	60.40	215.20	3176.18	-3126.18	3431.94	-2822.17	-1952.83
5041.0	60.50	215.10	3203.80	-3153.80	3480.65	-2862.00	-1980.87
5100.0	60.50	215.00	3232.85	-3182.85	3532.00	-2904.04	-2010.36

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.3
Viscosity (sec):	59
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- The top of the Poss Rio Bravo Fm. was defined at 5100' MD, based on the lt gy sandstone observed from this depth (10% sst; 60% clyst; 30% slst). We have drilled about 60' ft (29.5' VSS), with C1-C5 gas readings until 25units, but without oil shows.
- Attach you will find mud log and "well Path" where you see the section view of the well at -3182.85' VSS.
- Last survey at 5041'MD was incl 60.50°, az 215.00°, TVDss -3153.80°, distance respect to plan is 22'ft.
- ROP rotating mode average: 75. ROP slide mode average: 13.
- 9 5/8" csg point is at 5100'MD within Poss Rio Bravo fm.

Well Cost:

AFE	6 012 509	US\$
DAILY	70 475	US\$
CUMULATED	1 057 680	US\$



REPORT N° 13

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	6-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	7-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	5100	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5100	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	5100	DRILLING DAYS:	13

Operations summary:

M/U and RIH Slick BHA with 12 1/4" triconic bit from surface to 5100'MD. Last 2 stands TIH with pump. Circulated and conditioned hole, MW: 10.3 ppg. Pumped viscosity pill, shaker clean, ok. POOH Slick BHA w/ 12 1/4" triconic bit from 5100' to 3750', tight and worked up/down. RIH back to bottom, circulated and increased mud weight from 10.3 ppg to 10.6+ ppg. PO slick BHA w/ 12 1/4" triconic bit from 5100' to 2400'MD, Tight point at 4618'MD, worked up/down with rotation and circulation. From 2400' to 1011' shoe 13 3/8" free without rotation and circulation.

Present operations:

Pepesa organize 2nd level and wait on 9 5/8" casing.

Prognosed operations:

POOH slick BHA w/ 12 1/4" triconic bit. Receive 9 5/8" casing and prepare to run casing.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
Mud Weight (ppg): 10.3
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

• While RIH Tight at 4100'MD, 4618' and 3750'MD and 4700'MD. Worked string up/ down.

Well Cost:

AFE	6 012 509	US\$
DAILY	63 244	US\$
CUMULATED	1 120 924	US\$



REPORT N° 14

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	7-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	8-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	5100	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5100	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	5100	DRILLING DAYS:	14

Operations summary:

RIH slick BHA w/ 12 1/4" triconic bit from 1011' to 4560'MD. Show gas units on surface to 1800 units. Circulated, gas units drop to cero. Continue RIH from 4560' to 5100'MD. Last 3 stands with pump. Circulated, increased mud weight 10.8 ppg., pumped viscosity pill, conditioned mud. PO slick BHA w/ 12 1/4" triconic bit from 5100' to 3900'MD with pump and rotation. Continued PO from 3900' to 1011'MD shoe 13 3/8" free without pump, MW 10.8 ppg. Arrived to location vessel Confidence, bring 9 5/8" casing, Pepesa receive material.

Present operations:

Circulate bottoms up at 5100'MD, shakers clean. Prepare to POOH 12 1/4" triconic bit to surface.

Prognosed operations:

POOH slick BHA w/ 12 1/4" triconic bit, M/U and Run 9 5/8" casing.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
Mud Weight (ppg): 10.3
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- At 12:00hrs circulated to decrease gas units from 1800 at cero.

Well Cost:

AFE	6 012 509	US\$
DAILY	57 834	US\$
CUMULATED	1 178 758	US\$



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REPORT N° 15

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	8-Apr-13
Mud Loggers:	<i>O. Ojeda/R. Otoyá</i>	REPORT DATE :	9-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	5100	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5100	Csg (ft):	13 3/8" 1011
Depth @ 06h00 (ft):	5100	DRILLING DAYS:	15

Operations summary:

Waited on casing. RIH slick BHA w/ 12 1/4" triconic bit to calibrated hole from 1011' to 5100'MD. Last 3 stands with pump. Pepesa received 9 5/8" casing from Vessel to Perla Barge. Circulated bottoms up, condition hole, shakers clean, ok. POOH slick BHA w/ 12 1/4" tricone bit from 5100' to surface. R/U and M/U Weatherford tools, Change links to Top Drive. Run casing 9 5/8". Rig up conventional hydraulic tongs. continued Run casing 9 5/8". M/U and installed WTFill up tool. Circulated bottom up at 1000'MD, 13 5/8" shoe, ok.

Present operations:

Continue running casing 9 5/8" to 4700'MD.

Prognosed operations:

Continue run 9 5/8" casing, Rig up cement lines, perform cement job. WOC.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
Mud Weight (ppg): 10.3
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- Possible start 8 ½" Section Thursday (April 11th, 2013).

Well Cost:

AFE	6 012 509	US\$
DAILY	255 676	US\$
CUMULATED	1 434 434	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
 Mud Loggers: G. Cardoza/R. Otoyá
 Rig Contractor: RIG 40
 Depth @ 00h00 (ft): 5100
 Depth @ 24h00 (ft): 5100
 Depth @ 06h00 (ft): 5100

OPERATIONS DATE : 9-Apr-13
 REPORT DATE : 10-Apr-13
 SPUD DATE: 25-Mar-13
 PROGRESS 00h00-24h00 (ft): 0
 Csg (ft): 9 5/8" 5095
 DRILLING DAYS: 16

Operations summary:

Run 9 5/8" casing from surface at 9095'MD. L/D Weatherford tools. Halliburton personnel rig up cement lines. Circulated casing 9 5/8" with fill up tool. Cement 9 5/8" csg. WOC, cut and bevel 9 5/8" csg. Install casing spool 13 5/8".

Present operations:

Job in 13 5/8" BOP. Prepare to perform BOP test.

Prognosed operations:

Install 9 5/8" plug tester, Test 13 5/8" BOP. Prepare to run 8 1/2" directional BHA.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
 Mud Weight (ppg): 10.3
 Viscosity (sec): 59
 Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks:

- Cement 9 5/8" csg. w/ 223 bbls lead slurry 13.5 ppg, cont. pump 99 bbls, 15.2 ppg Tail Slurry Halcem, displace with 374 bbls, mud 10.8 ppg.
- 9 5/8" csg shoe at 5095'MD.
- Possible start 8 1/2" Section Thursday (April 11th, 2013).

Well Cost:

AFE	6 012 509	US\$
DAILY	87 229	US\$
CUMULATED	1 521 663	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: L. Agurto/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5100
Depth @ 24h00 (ft): 5100
Depth @ 06h00 (ft): 5100

OPERATIONS DATE : 10-Apr-13
REPORT DATE : 11-Apr-13
SPUD DATE: 25-Mar-13
PROGRESS 00h00-24h00 (ft): 0
Csg (ft): 9 5/8" 5095
DRILLING DAYS: 17

Operations summary:

Installed 13 5/8" BOP & welded pads. Tested BOP. Leak pressure from raiser flange & 13 5/8"x5M drilling spool. Changed ring. Performed BOP test, fail. Leak in the same ring. Pepesa L/D 13 5/8" BOP. Waited on flange from Talara. M/U 5" DP in stands.

Present operations:

Working in 13 5/8" BOP.

Prognosed operations:

Continue M/U 5" DP in stands. Test BOP.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
 Mud Weight (ppg): 10.3
 Viscosity (sec): 59
 Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- 9 5/8" csg shoe at 5095'MD.
- Possible start 8 1/2" Section friday (April 12th, 2013).

Well Cost:

AFE	6 012 509	US\$
DAILY	59 437	US\$
CUMULATED	1 581 100	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: L. Agurto/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5100
Depth @ 24h00 (ft): 5100
Depth @ 06h00 (ft): 5100

OPERATIONS DATE : 11-Apr-13
REPORT DATE : 12-Apr-13
SPUD DATE: 25-Mar-13
PROGRESS 00h00-24h00 (ft): 0
Csg (ft): 9 5/8" 5095
DRILLING DAYS: 18

Operations summary:

M/U 5"DP in stands. Pepesa received flange. Worked in 9 5/8" BOP. Performed BOP test. Ok. Rig serviced. Installed bell nipple & flow line. R/U directional tools from barge to platform.

Present operations:

WTF programming LWD inside hole.

Prognosed operations:

M/U directional BHA w/ 8 1/2" PDC bit. RIH directional BHA. Rig service.

Lithology summary:

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

Surveys:

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

Mud information:

Type: EZ-MUD
 Mud Weight (ppg): 10.3
 Viscosity (sec): 59
 Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Poss Rio V	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- 9 5/8" csg shoe at 5095'MD.
- Possible start 8 1/2" Section today at 20:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	67 455	US\$
CUMULATED	1 648 555	US\$



Geologists: D. Paz
Mud Loggers: L. Agurto/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5100
Depth @ 24h00 (ft): 5259
Depth @ 06h00 (ft): 5667

OPERATIONS DATE : 12-Apr-13
REPORT DATE : 13-Apr-13
SPUD DATE: 25-Mar-13
PROGRESS 00h00-24h00 (ft): 159
Csg (ft): 9 5/8" 5095
DRILLING DAYS: 19

Operations summary:

R/U directional tools. WTF tested tools on surface & programming LWD/MWD. M/U & RIH directional BHA w/ 8 1/2" PDC bit & motory Steerable. Rig serviced. Continued RIH at 5013'MD. Drill out cement from 5013' to 5080'MD. Performed casing test w/1000psi, 10 min, ok. Drill out cement 5080' to 5100'md. Drilled rotating fm from 5100' to 5115'MD. Circulated. Displaced contaminated mud by new mud w/ 10.3ppg. Performed formation integrity test. Drilled rotating from 5115' to 5259'MD.

Present operations:

Drill w/motory esteerable at 5750'MD on Rio bravo fm.

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	5100 - 5145	80	60	30	10						NF	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blkly/sbblky, mnrb sbplty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SLST: md dy gy, olv gy, occ md gy, earthy, blkly/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst, sl calc. SST: md dk gy, lt gy, grn'sh gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mtx i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. TG: 5 C1: 444 C2: 12 C3: 9 C4: 4 C5:1
RIO BRAVO	5145 - 5250	181	40	30	30						NF	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blkly/sbblky, mnrb sbplty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SLST: md dy gy, olv gy, occ md gy, earthy, blkly/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst, sl calc. SST: md dk gy, lt gy, grn'sh gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mtx i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. TG: 15 C1: 1310 C2: 41 C3: 26 C4: 11 C5:1
RIO BRAVO	5250 - 5430	147	60	30	10						NF	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blkly/sbblky, mnrb sbplty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SLST: md dy gy, olv gy, occ md gy, earthy, blkly/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst, sl calc. SST: md dk gy, lt gy, grn'sh gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mtx i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. TG: 35 C1: 3178 C2: 61 C3: 44 C4: 18 C5:2
RIO BRAVO	5430 - 5510	176	20		70	10					TR - 15	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blkly/sbblky, mnrb sbplty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SST: md dk gy, lt gy, grn'sh gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mtx i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. SD: wh, hyal, 60%f, 30%vf, 10%mf qtz grns, hyal, transl, sbang/sbrnd, w srt. FLUO: NVOS, pin-point, pal yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh res ring under UV light, not res ring at nat light, POS. TG: 21 C1: 1887 C2: 42 C3: 30 C4: 13 C5:2
RIO BRAVO	5510 - 5585	153	50	10	40						NF	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blkly/sbblky, mnrb sbplty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SLST: md dy gy, olv gy, occ md gy, earthy, blkly/sbblky, irr i/p, md frm, mic mic, mic carb, grad to sst, sl calc. SST: md dk gy, lt gy, grn'sh gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mtx i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. TG: 21 C1: 1813 C2: 52 C3: 36 C4: 17 C5:2

RIO BRAVO	5585 - 5650	204	10		10	80					5 - 15	CLYST: md dk gy, olv blk, occ brn'sh gy, earthy, blk/sbblk, mn'r sbp'ty, md frm, slty i/p, mic mic, mic carb, w/glauc incl, non/v sl calc. SST: md dk gy, lt gy, grn'sh gy, vf/f qtz grns, hyal, sbang/sbrnd, w srt, arg mt'x i/p, clac cmnt, md fri/md consl, w/glauc & dk lithcs grns incl, mic carb i/p, p vis por. SD: wh, hyal, 60% <i>f</i> , 30% <i>vf</i> , 10% <i>m</i> qtz grns, hyal, transl, sbang/sbrnd, w srt. FLUO: NVOS, pin-point, pal yell nat fluo, slow, weak, faint, even, yell'sh wh cut fluo, mlky wh res ring under UV light, not res ring at nat light, POS. TG: 57 C1: 4876 C2: 130 C3: 105 C4: 50 C5: 10
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Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5413.0	60.53	215.51	3389.88	-3339.88	3802.68	-3123.11	-2169.46
5508.0	60.10	215.23	3436.93	-3386.93	3885.21	-3190.41	-2217.23
5602.0	61.37	214.41	3482.88	-3432.88	3967.21	-3257.73	-2264.05

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.3
Viscosity (sec):	59
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- The well path is by Weatherford Co. from this section.
- So far we have drilled about 710'ft MD (340'ft vertical) of Rio Bravo fm. From 5435' to 5650'MD we have 40% SST dk gy, vf/f qtz grns, md consl, arg mt'x, calc cmnt, p vis por; 30% SD wh, hyal, 30%*vf*, 60%*f*, 10%*m*, sbang/sbrnd, w srt &; 30%*C*lyst average. Oil show with 5-15% fluorescence NVOS, pin-point, pal yell nat fluo & gas units (C1-C5) with 263 unit max.
- Attach you will find mud log and "well Path" where you see the section view of the well at -3432.88' VSS.
- Last survey at 5602'MD was incl 61.37°, az 214.41°, TVDss -3432.88°, distance respect to plan is 14'ft.
- ROP rotating mode average: 110.

Well Cost:

AFE	6 012 509	US\$
DAILY	102 498	US\$
CUMULATED	1 751 053	US\$



REPORT N° 20

LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	D. Paz	OPERATIONS DATE :	13-Apr-13
Mud Loggers:	L. Agurto/G. Cardoza	REPORT DATE :	14-Apr-13
Rig Contractor:	RIG 40	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	5259	PROGRESS 00h00-24h00 (ft):	1741
Depth @ 24h00 (ft):	7000	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	7000	DRILLING DAYS:	20

Operations summary:

Drilled rotating & sliding from 5259' to 7000'MD.

Present operations:

RIH directional BHA w/motory esteerable at 5835'MD on Rio bravo fm.

Prognosed operations:

RIH at bottom. Circulate. Drill ahead on Rio Bravo fm.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5650 - 5745	187	10		30	60					20	SD: wh, 80%f, 20% m, tr c qtz grns, hyal, trnsal, dk lithcs grns, sbang/sbrnd, w srt. SST: md lt gy, lt gy, f qtz grns, hyal, sbang/sbrnd, w srt, calc cmnt, md fri, loc pyr on surf, w/dk mat incl, p to f vis por. CLYST: md dy gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non calc. FLUO: NVOS, pin-point, pal yell nat fluo, v slow, weak, faint, even, yell'sh wh cut fluo, milky wh res ring under UV lt, non res ring at nat lt, POS. TG: 217 C1: 16248 C2: 818 C3:681 C4: 361 C5:75
RIO BRAVO	5745 - 5800	129	90		10	TR					NF	CLYST: md dy gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non calc. SST: md lt gy, lt gy, f qtz grns, hyal, sbang/sbrnd, w srt, calc cmnt, md fri, loc pyr on surf, w/dk mat incl, p to f vis por. SD: wh, 80%f, 20% m, tr c qtz grns, hyal, trnsal, dk lithcs grns, sbang/sbrnd, w srt. TG: 56 C1: 4092 C2: 170 C3:161 C4: 120 C5:33
RIO BRAVO	5800 - 5870	191	30	10	60						NF	SST: md lt gy, occ lt gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mt, sc calc cmnt, md fri, loc pyr on surf, w/dk mat incl, p vis por. CLYST: md dy gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non calc. SLST: md dk gy, md gy, earthy surf, blk/irr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. TG: 48 C1: 3776 C2: 119 C3:106 C4: 78 C5:25
RIO BRAVO	5870 - 5970	190	30		30	40					15	SD: wh, 30%f, 70% m, tr c qtz grns, hyal, transl, tr dk lithcs grns, sbang/sbrnd, w srt. SST: md lt gy, lt gy, f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, md fri, loc pyr on surf, w/dk lithcs incl, p to f vis por. CLYST: md dy gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non calc. FLUO: NVOS, pin-point/spotty, pal yell nat fluo, v slow, weak, faint, even, yell'sh wh cut fluo, milky wh res ring under UV lt, non res ring at nat lt, POS. TG: 124 C1: 9244 C2: 444 C3:379 C4: 223 C5:56
RIO BRAVO	5970 - 6240	150	60	20	20						NF	SST: md lt gy, occ lt gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, arg mt, sc calc cmnt, md fri, loc pyr on surf, w/dk mat incl, p vis por. CLYST: md dy gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non calc. SLST: md dk gy, md gy, earthy surf, blk/irr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. TG: 18 C1: 1508 C2: 48 C3:36 C4: 22 C5:7
RIO BRAVO	6240 - 6334	183	20		80						5	SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, md fri, occ pyr on surf, w/dk lithcs grns incl, p to f vis por. CLYST: md dk gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non/v sl calc. FLUO: NVOS, pin-point, pal yell nat fluo, slow, weak, faint/pal, even, yell'sh wh cut fluo, milky yell res ring under UV lt, non res ring at nat lt, POS. TG: 26 C1: 2276 C2: 60 C3:44 C4: 22 C5:4
RIO BRAVO	6334 - 6405	206	40		40	20					5 - 10	SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, md fri, occ pyr on surf, w/dk lithcs grns incl, p to f vis por. SD: wh, 60%f, 40% m qtz grns, hyal, transl, occ dk lithcs grns, sbang/sbrnd, w srt. CLYST: md dk gy, occ brn'sh gy, earthy surf, blk/sbbkly, md frm, slty i/p, mic mic, mic carb, non/v sl calc. FLUO: NVOS, pin-point, pal yell nat fluo, slow, weak, faint/pal, even, yell'sh wh cut fluo, milky yell res ring under UV lt, non res ring at nat lt, POS. TG: 95 C1: 7493 C2: 323 C3:245 C4: 122 C5:26

RIO BRAVO	6405 - 6470	166	80		20					NF	CLYST: md dk, occ brn'sh gy, earthy surf, rough surf i/p, sbblky, blkly i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md gy, md lt gy, vf, f i/p qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, md fri, occ pyr on surf, w/dk lthcs grn incl, p vis por. TG: 40 C1: 3330 C2: 115 C3:82 C4: 46 C5:10
RIO BRAVO	6470 - 6580	176	40		40	20				5	SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, md fri, occ pyr on surf, w/dk lthcs grns incl, p to f vis por. SD: wh, 60%f, 40%qm qtz grns, hyal, transl, occ dk lthcs grns, sbang/sbrnd, w srt. CLYST: md dk, occ brn'sh gy, earthy surf, rough surf i/p, sbblky, blkly i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. TG: 61 C1: 5108 C2: 163 C3:114 C4: 61 C5:12
RIO BRAVO	6580 - 6680	177	40	20	30	10				NF	CLYST: md dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md lt gy, md gy, vf, mnr f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, md fri, occ pyr on surf, w/dk lthcs grns incl, p vis por. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, mic mic, mic carb, non calc. SD: wh, lt gy, hyal, 90%f, 10%qm qtz grns, sbang/srmd w srt. TG: 22 C1: 1832 C2: 60 C3:43 C4: 28 C5:8
RIO BRAVO	6680 - 6710	91	20	10	30	40				NF	SD: wh, lt gy, hyal, 80%f, 20%qm qtz grns, sbang/srmd w srt. SST: md lt gy, md gy, vf, mnr f qtz grns, hyal, transl, sbang/sbrnd, w srt, calc cmnt, arg mtb, md fri, occ pyr on surf, w/dk lthcs grns incl, p vis por. CLYST: md dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, mic mic, mic carb, non calc. TG: 30 C1: 2431 C2: 74 C3:55 C4: 38 C5:14
RIO BRAVO	6710 - 6830	147	40	10	30	20				NF	CLYST: md dk gy, dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, arg mtb, md fri/md consl, occ pyr on surf, w/dk lthcs grns incl, p vis por. SD: wh, lt gy, hyal, 100%f, sbang/sbrnd, w srt. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, mic mic, mic carb, non calc. TG: 21 C1: 1818 C2: 49 C3:32 C4: 22 C5:8
RIO BRAVO	6830 - 6950	167	80	10	10					NF	CLYST: md dk gy, dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, arg mtb, md fri/md consl, occ pyr on surf, w/dk lthcs grns incl, p vis por. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, mic mic, mic carb, non calc. TG: 24 C1: 2057 C2: 52 C3:34 C4: 22 C5:7
RIO BRAVO	6950 - 6976	153	70	TR	20	10				NF	CLYST: md dk gy, dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, arg mtb, md fri/md consl, occ pyr on surf, w/dk lthcs grns incl, p vis por. SD: wh, lt gy, hyal, 90%f, 10%qm, sbang/sbrnd, w srt. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, mic mic, mic carb, non calc. TG: 33 C1: 2984 C2: 56 C3:38 C4:19 C5:5
RIO BRAVO	6976 - 7074	132	90		10					NF	CLYST: md dk gy, dk gy, earthy/sl rough surf, blkly/sbblky, sbply i/p, md frm, slty i/p, mic mic, mic carb, non/v sl calc. SST: md lt gy, md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, sc calc cmnt, arg mtb, md fri/md consl, occ pyr on surf, w/dk lthcs grns incl, p vis por. TG: 17 C1: 1481 C2: 40 C3:26 C4:13 C5:2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6832.0	61.18	216.14	4087.60	-4037.60	5037.93	-4136.40	-2875.92
6928.0	60.59	216.59	4134.31	-4084.31	5121.77	-4203.94	-2925.65
7022.0	61.17	215.05	4180.06	-4130.06	5203.87	-4270.52	-2973.70

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.6
Viscosity (sec):	56
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- So far, we have drilled about 2034'ft (981'Vss) of sandstone, sand & claystone sequences within Rio Bravo fm.
- Between 5590'-5750'MD we found mainly sands body (90%f, 10%qm qtz grns) with traces and up to 20% natural fluorescence and C1-C5 gas readings (527 units max).
- Last 250'ft drilled are mainly claystone, from which 40'ft (6950'-6990'MD) are sandstone & sand sequence without oil show.
- GR reading is not representative due fast ROP.
- Last survey at 7022'MD was incl 61.17°, az 215.05°, TVDss -4130.06°, distance respect to plan is 17'ft.
- ROP rotating mode average: 160.
- At 00:30hrs stopped drill to perform wiper trip.

Well Cost:

AFE	6 012 509	US\$
DAILY	82 066	US\$
CUMULATED	1 833 119	US\$



LO6-28D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
Mud Loggers: L. Agurto/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7000
Depth @ 24h00 (ft): 7852
Depth @ 06h00 (ft): 8113

OPERATIONS DATE : 14-Apr-13
REPORT DATE : 15-Apr-13
SPUD DATE: 25-Mar-13
PROGRESS 00h00-24h00 (ft): 852
Csg (ft): 9 5/8" 5095
DRILLING DAYS: 21

Operations summary:

Wiper trip from 7000' at 9 5/8" csg shoe. RIH at bottom. Drilled rotating & sliding from 7000' to 7852'MD.

Present operations:

Drill w/motory esteerable at 8113'MD on Rio bravo fm.

Prognosed operations:

Drill ahead at TD.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	7074 - 7230	121	100								NF	CLYST: lt gy, md gy, occ brn'sh gy, sbbkly/sbplty, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. TG: 22 C1: 1456 C2: 68 C3:62 C4: 63 C5:27
RIO BRAVO	7230 - 7420	137	20		30	50					NF	SD: wh, smky, hyal, 90%f, 10%m, tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10%vf, tr m qtz grns, sbang, w srt, arg mtz, kaolinitic mtz i/p, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p vis por. CLYST: lt gy, md gy, occ brn'sh gy, sbbkly/sbplty, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. TG: 27 C1: 2102 C2: 65 C3:50 C4: 43 C5:23
RIO BRAVO	7420 - 7490	146	40		30	30					NF	CLYST: lt gy, md gy, occ brn'sh gy, sbbkly/sbplty, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. SD: wh, smky, hyal, 90%f, 10%m, tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10%vf, tr m qtz grns, sbang, w srt, arg mtz, kaolinitic mtz i/p, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p vis por. TG: 20 C1: 1591 C2: 54 C3:37 C4: 29 C5:17
RIO BRAVO	7490 - 7550	116	30		30	40					10 - 5	SD: wh, smky, hyal, 60%f, 40%m, tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10%vf, tr m qtz grns, sbang, w srt, arg mtz, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p to fair vis por. CLYST: lt gy, md gy, occ brn'sh gy, sbbkly/sbplty, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. FLUO: NVOS, pin-point, pal yell nat fluo, v slow, weak, faint, even/bloom, yell'sh wh cut fluo, mlky wh res ring under UV lt, non res ring at nat lt, POS. TG: 41 C1: 3290 C2: 121 C3:81 C4: 50 C5:21
RIO BRAVO	7550 - 7700	98	40		30	30					NF	CLYST: lt gy, md gy, occ brn'sh gy, sbbkly/sbplty, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. SD: wh, smky, hyal, 90%f, 10%m, tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10%vf, tr m qtz grns, sbang, w srt, arg mtz, slty mtz i/p, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p vis por. TG: 35 C1: 2986 C2: 100 C3:62 C4: 33 C5:7

RIO BRAVO	7700 - 7745	112	30		40	30					30 - 20	SD: wh, smky, hyal, 60%f, 40% <i>m</i> , tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10% <i>vf</i> , tr m qtz grns, sbang, w srt, arg mtx, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p to fair vis por. CLYST: lt gy, md gy, occ brn'sh gy, sbblky/sbply, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. FLUO: NVOS, pin-point, pal yell nat fluo, v slow, weak, faint, even/bloom, yell'sh wh cut fluo, mlky wh res ring under UV lt, non res ring at nat lt, FOS. TG: 53 C1: 4391 C2: 164 C3:107 C4: 53 C5:10
RIO BRAVO	7745 - 7920	105	80		10	10					NF	CLYST: md dk gy, md gy, occ brn'sh gy, earthy/rough surf, sbblky/sbply, blkly i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: md lt gy, mnr md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, calc cmnt, fri, w/dk lthcs grns incl, p vis por. SD: wh, smky, hyal, 80%f, 20% <i>m</i> , tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. TG: 15 C1: 1278 C2: 40 C3:24 C4: 14 C5:1
RIO BRAVO	7920 - 8000	161	60	10	20	10					NF	CLYST: md dk gy, md gy, occ brn'sh gy, earthy/rough surf, sbblky/sbply, blkly i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: md lt gy, mnr md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, calc cmnt, fri, w/dk lthcs grns incl, p vis por. SD: wh, smky, hyal, 80%f, 20% <i>m</i> , tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SLST: md dk gy, md gy, earthy surf, blkly/lrr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. TG: 10 C1: 884 C2: 28 C3:18 C4: 12 C5:1
RIO BRAVO	8000 - 8113	121	40	10	40	10					NF	CLYST: md dk gy, md gy, occ brn'sh gy, earthy/rough surf, sbblky/sbply, blkly i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: md lt gy, mnr md gy, v/f qtz grns, hyal, sbang/sbrnd, w srt, calc cmnt, fri, w/dk lthcs grns incl, p vis por. SD: wh, smky, hyal, 80%f, 20% <i>m</i> , tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. SLST: md dk gy, md gy, earthy surf, blkly/lrr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. TG: 12 C1: 960 C2: 31 C3:20 C4: 14 C5:2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.8
Viscosity (sec):	56
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- So far, we have drilled about 3073'ft (1490'Vss) of sandstone, sand & claystone sequences within Rio Bravo fm.
- Last 368'ft drilled are mainly claystone, from which 50'ft (8000'-8050'MD) are sandstone & sand sequence without oil show and gas reading 12 units average (C1-C4).
- GR reading is not representative due fast ROP.
- Last survey at 7970'MD was incl 59.12°, az 213.41°, TVDss -4649.01°, distance respect to plan is 20'ft.
- ROP rotating mode average: 12.
- Circulate due Pepesa personnel is working in pump N°03.

Well Cost:

AFE	6 012 509	US\$
DAILY	81 913	US\$
CUMULATED	1 915 032	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists: D. Paz
 Mud Loggers: L. Agurto/G. Cardoza
 Rig Contractor: RIG 40
 Depth @ 00h00 (ft): 7852
 Depth @ 24h00 (ft): 8146
 Depth @ 06h00 (ft): 8146

OPERATIONS DATE : 15-Apr-13
 REPORT DATE : 16-Apr-13
 SPUD DATE: 25-Mar-13
 PROGRESS 00h00-24h00 (ft): 294
 Csg (ft): 9 5/8" 5095
 DRILLING DAYS: 22

Operations summary:

Drilled rotating & sliding from 7852' to 8146'MD. Weatherford HEL tool (LWD) no pulser, performed tools surface inspection. Circulated. POOH & L/D directional BHA & 8 1/2" PDC bit.

Present operations:

RIH directional BHA to 3200'MD.

Prognosed operations:

RIH at bottom. Circulate, drill ahead to TD.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	8113 - 8146	118	20		70	10					TR - 5	SST: lt gy, v lt gy, brn'sh gy i/p, 90%f, 10%vf, tr m qtz grns, sbang, w srt, arg mtx, calc cmnt, md consl, w/dk lthcs grns & calc mat incl, p to fair vis por. SD: wh, smky, hyal, 60%f, 40%md, tr c qtz grns, sbang, sbrnd i /p, dk lthcs grns, w srt. CLYST: lt gy, md gy, occ brn'sh gy, sbbky/sbply, blkly i/p, md frm/frm, mic mic, sl mic carb, earthy/rough surf, w/thin coal layer intrbd, v sl/non calc. FLUO: NVOS, pin-point, pal yell nat fluo, v slow, weak, faint, even/bloom, yell'sh wh cut fluo, milky wh res ring under UV lt, non res ring at nat lt, POS. TG: 58 C1: 5091 C2: 133 C3:76 C4:37 C5:8

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type: EZ-MUD
 Mud Weight (ppg): 10.8
 Viscosity (sec): 56
 Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- So far, we have drilled about 3106'ft (1520'Vss) of sandstone, sand & claystone sequences within Rio Bravo fm.
- GR reading is not representative due fast ROP.
- Last survey at 7970'MD was incl 59.12°, az 213.41°, TVDss -4649.01°, distance respect to plan is 20'ft.
- ROP rotating mode average: 110.

Well Cost:

AFE 6 012 509 US\$
 DAILY 92 277 US\$
 CUMULATED 2 007 309 US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	16-Apr-13
Mud Loggers:	<i>L. Agurto/G. Cardoza</i>	REPORT DATE :	17-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8146	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8146	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8146	DRILLING DAYS:	23

Operations summary:

M/U & directional BHA & 8 1/2" PDC bit. RIH from surface at 6927'MD. Tight point at 6927'MD. Worked string. PO 02 stands Circulated. Increased mud from 11.0 to 11.3ppg. RIH at 7000'MD. No possible to RIH. PO at 6750'MD. Circulated. Increased mud from 11.0 to 11.5ppg.

Present operations:

POOH at 700'MD.

Prognosed operations:

POOH & L/D directional BHA. RIH slick BHA w/ 8 1/2" PDC bit to calibrate & condition 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)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.8
Viscosity (sec):	56
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

Tight point at 6729', 6980' & 7000'MD. Worked string up/down. Perforation department decide to change directional BHA by slick BHA to calibrate & condition hole.

Well Cost:

AFE	6 012 509	US\$
DAILY	77 496	US\$
CUMULATED	2 084 805	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	17-Apr-13
Mud Loggers:	<i>L. Agurto/G. Cardoza</i>	REPORT DATE :	18-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8146	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8146	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8146	DRILLING DAYS:	24

Operations summary:

POOH & L/D directional BHA. M/U & RIH slick BHA at 5100'MD. Circulated & conditioned mud. Continued RIH. At 6976'MD there is restriction to pass. Worked string up/down with rotation & circulation.

Present operations:

Continue wash down to 6996'MD.

Prognosed operations:

Continue wash down to bottom and drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	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)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	10.8
Viscosity (sec):	56
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

Tight point at 6729', 6980' & 7000'MD. Worked string up/down.

Well Cost:

AFE	6 012 509	US\$
DAILY	56 300	US\$
CUMULATED	2 141 105	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	18-Apr-13
Mud Loggers:	<i>L. Agurto/G. Cardoza</i>	REPORT DATE :	19-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8146	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8146	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8300	DRILLING DAYS:	25

Operations summary:

Continued wash down with conventional BHA & 8 1/2" PDC bit from 6975' to 8146'MD. Circulated and increased mud at 11.7ppg.

Present operations:

Drill at 8350'MD.

Prognosed operations:

Drill ahead at TD.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	8146 - 8300	48	100								NF	CLYST: dk gy, md dk gy, occ olv gy, earthy/rough surf, blkly/sbbkly, sbply i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. TG: 15 C1: 1202 C2: 33 C3: 26 C4: 20 C5: 15

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	11.7
Viscosity (sec):	55
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- So far, we have drilled about 3310'ft (1655'Vss) of sandstone, sand & claystone sequences within Rio Bravo fm.
- Last 204'ft drilled are mainly claystone (dk gy, md gy, blkly/sbbkly, md frm) with gas readings (C1-C5) 15 units average.
- Drilling from 8146'MD without mud motor and LWD, We have not surveys & GR readings.
- Last survey at 7970'MD was incl 59.12°, az 213.41°, TVDss -4649.01°, distance respect to plan is 20'ft.
- ROP rotating mode average: 50.

Well Cost:

AFE	6 012 509	US\$
DAILY	63 400	US\$
CUMULATED	2 204 505	US\$



Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	19-Apr-13
Mud Loggers:	<i>L. Agurto/G. Cardoza</i>	REPORT DATE :	20-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8146	PROGRESS 00h00-24h00 (ft):	454
Depth @ 24h00 (ft):	8600	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8600	DRILLING DAYS:	26

Operations summary:

Drilled rotating with conventional BHA & 8 1/2" PDC bit from 8146' to 8600'MD (Total Depth). Circulated to recovery bottom sample. Short trip at 9 5/8" csg shoe. Circulated. RIH at 6000'MD.

Present operations:

Circulate at 8600'MD to condition hole.

Prognosed operations:

POOH & L/D conventional BHA. M/U & RIH SLB NeoScope (LWD) tools to logging hole.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %				Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	8300 - 8420	58	100		TR						NF	CLYST: dk gy, md dk gy, occ olv gy, earthy/rough surf, blkly/sbbkly, sbpity i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: lt gy, v lt gy, brn'sh gy i/p, 90%v, 10%vf, tr m qtz grms, sbang, w srt, arg mtz, calc cmnt, md consl, w/dk lthcs grms & calc mat incl, p to fair vis por. TG: 30 C1: 2441 C2: 90 C3: 55 C4: 37 C5: 13
RIO BRAVO	8420 - 8530	43	60	20	20						TR	CLYST: dk gy, md dk gy, occ olv gy, earthy/rough surf, blkly/sbbkly, sbpity i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: lt gy, v lt gy, brn'sh gy i/p, 90%v, 10%vf, tr m qtz grms, sbang, w srt, arg mtz, calc cmnt, md consl, w/dk lthcs grms & calc mat incl, p to fair vis por. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. FLUO: NVOS, pin-point, pal yell nat fluo, v slow, weak, faint, even/bloom, yell'sh wh cut fluo, mlky wh res ring under UV lt, non res ring at nat lt, POS. TG: 28 C1: 2200 C2: 81 C3: 57 C4: 44 C5: 15
RIO BRAVO	8530 - 8600	58	80	10	10						NF	CLYST: dk gy, md dk gy, occ olv gy, earthy/rough surf, blkly/sbbkly, sbpity i/p, md frm/frm, slty i/p, mic mic, v sl mic carb, non calc. SST: lt gy, v lt gy, brn'sh gy i/p, 90%v, 10%vf, tr m qtz grms, sbang, w srt, arg mtz, calc cmnt, md consl, w/dk lthcs grms & calc mat incl, p to fair vis por. SLST: md dk gy, md gy, earthy surf, blkly/irr, md frm, grad to vf sst, loc pyr on surf, mic mic, mic carb, non calc. TG: 25 C1: 2156 C2: 56 C3: 38 C4: 28 C5: 11

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7783.0	59.32	212.73	4554.76	-4504.76	5866.11	-4816.06	-3349.16
7877.0	60.25	213.75	4602.07	-4552.07	5947.31	-4883.99	-3393.69
7970.0	59.12	213.41	4649.01	-4599.01	6027.58	-4950.88	-3438.09

Mud information:

Type:	EZ-MUD
Mud Weight (ppg):	11.7
Viscosity (sec):	59
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- So far, we have drilled about 3560'ft (1780'Vss) of sandstone, sand & claystone sequences within Rio Bravo fm. Between 8450' – 8500'MD we have sandstone 20% (v lt gy, 100%vf, md consl, calc cmnt, arg mtx, p vis por), with traces of natural fluorescence (pin point, pale, pal yell nat fluo, v slow, weak, faint, even, yell'sh wh cut fluo, mlky wh res ring under U.V. lt, no res ring at nat lt, POS), gas readings (C1-C5) 29 units average.
- Last 100'ft (8500' – 8600'MD), we have 10% SST, 10% SLST & 80% CLYST (dk gy, md gy, earthy/rough surf, sbply/sbblky, frm, md frm i/p, mic mic, v sl mic carb, non calc).
- Drilling from 8146'MD without mud motor and LWD, We have not surveys & GR readings.
- Last survey at 7970'MD was incl 59.12°, az 213.41°, TVDss -4649.01°, distance respect to plan is 20'ft.
- ROP rotating mode average: 50.
- The drilling stopped at 8600'MD (Total Depth), at 14:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	64 653	US\$
CUMULATED	2 269 158	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	D. Paz	OPERATIONS DATE :	20-Apr-13
Mud Loggers:	G. Cardoza/E. Santisteban	REPORT DATE :	21-Apr-13
Rig Contractor:	RIG 40	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8600	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8600	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8600	DRILLING DAYS:	27

Operations summary:

Continued wash down 8 1/2" slick BHA from 6945' to 8600'MD (total depth). Circulated. POOH. L/D 8 1/2" slick BHA. Rig serviced. M/U & RIH SLB NeoScope (LWD) BHA at 120'ft.

Present operations:

RIH SLB NeoScope (LWD) tools at 5130'MD.

Prognosed operations:

Perform LWD in open hole at total depth (8600'MD).

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	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: EZ-MUD
Mud Weight (ppg): 11.7
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- Start LWD in open hole at 07:00hrs.
- Logging speed 220 ft/hrs. Time appox: 24:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	86 400	US\$
CUMULATED	2 355 558	US\$



LOBITOS FIELD

LO6-28D GEOLOGICAL DAILY REPORT

Geologists:	<i>D. Paz</i>	OPERATIONS DATE :	21-Apr-13
Mud Loggers:	<i>G. Cardoza/E. Santisteban</i>	REPORT DATE :	22-Apr-13
Rig Contractor:	<i>RIG 40</i>	SPUD DATE:	25-Mar-13
Depth @ 00h00 (ft):	8600	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8600	Csg (ft):	9 5/8" 5095
Depth @ 06h00 (ft):	8600	DRILLING DAYS:	28

Operations summary:

Continued M/U & RIH SLB NeoScope (LWD) BHA at 5020'ft. Calibrated LWD tools. Performed LWD (Density, Perosity, Resistivity, Caliper, Gamma Ray) from 5020' to 6920'MD.

Present operations:

RIH SLB NeoScope (LWD) tools at 7900'MD.

Prognosed operations:

Perform LWD in open hole at total depth (8600'MD). POOH.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	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:	EZ-MUD
Mud Weight (ppg):	11.7
Viscosity (sec):	59
Filtrate (ml):	6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
Lobitos	802.0	802.00	-752.00		
Terebratula	2335.0	1856.17	-1806.17	-925.59	-656.64
Chacra	2587.0	1981.29	-1931.29	-1103.91	-783.32
Rio Bravo	5040.0	3203.30	-3153.30	-2861.22	-1980.47

Remarks

- SLB NeoScope (LWD) has logged about 2700'ft in 24 hours.
- Difficulty to recording observed in bodies sands, due in gauge hole interval.
- Logging speed 220 ft/hrs.
- Time appox to finish logging: 14:00hrs.

Well Cost:

AFE	6 012 509	US\$
DAILY	75 860	US\$
CUMULATED	2 431 418	US\$