


LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	24-Nov-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	25-Nov-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	495	PROGRESS 00h00-24h00 (ft):	317
Depth @ 24h00 (ft):	812	Conductor :	18" 480
Depth @ 06h00 (ft):	920	DRILLING DAYS:	5

Operations summary:

RIH directional BHA to 495', Displace sea water by 9 ppg drilling mud, orientated tool, Drill from 495ft to 920', take gyro survey every 45 feet.

Present operations:

Drill sliding at 920ft

Prognosed operations:

Continue drilling to 950', POOH to change bit and add slim pulse.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
TALARA SST	495 - 920	32	50		30	20				NF	CLYST: olv gry, loc med dk gry, occ olv blk, ea, blk-sbbly, sbtab i/p, mod sft-mod frm, slty i/p, sli sol, micmic, loc miccarb, w/pyr dissem i/p, n calc-sli calc. SST: md gry, olv gry, med dk gry, mnir med lt gry, vf-f qtz gr, hyal, trnsi, sbang-sbrnd, wl srted, arg mtrx, sli calc cmt, mod fri-fri, loc mod consol, ti i/p, occ drty, loc w/dk mnrls & glau incl, p vis por. SD: wh, vf-f, tr m qtz gr, hyal, trnsi, sbang-sbrnd, wl srted, w/dk & gn lits. TG: 0.37 C1: 37

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
607.00	6.11	282.90	606.15	-556.15		12.02	12.02
702.00	8.47	284.21	700.38	-650.38		14.86	14.86
794.00	10.29	282.32	791.14	-741.14		18.28	18.28

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 9.2
Viscosity (sec): 49
Filtrate (ml):

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
			50.00		

Remarks

- From sea bottom drilling Talara Sst member, mainly Claystone & Sandstone (very fine to fine) no fluorescence,
- TGT Mudlogging Rig Up @ 100%
- Logging Data gas from 700', at moment average of 0.37 Units (C1).
- ROP rotating average: 30 ft/hr.

Well Cost:

AFE	4 377 850	US\$
DAILY	89 771	US\$
CUMULATED	302 947	US\$


SAVIA
PERÚ

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 812
Depth @ 24h00 (ft): 1041
Depth @ 06h00 (ft): 1186

OPERATIONS DATE : 25-Nov-13
REPORT DATE : 26-Nov-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 229
Conductor : 18" 480
DRILLING DAYS: 6

Operations summary:

Drilling rotating & sliding from 812ft to 1041ft, Circulate and pump hi vis, to shaker clean. POOH drilling string with circulation, Make up and RIH 17" PDC and MWD, drilling from 1041 to 1186.

Present operations:

Drilling 17" hole at 1200' MD (-1133' TVDss)

Prognosed operations:

Drill ahead to casing point (Aprox. 2350')

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	DoI %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
HELICO	920 - 1150	48	50	30	20				NF	CLYST: olv gry, med dk gry, mnv olv blk, occ dk yelsh brn, ea, blk-y-sbbiky, sbtab i/p, amor, mod frm-mod sft, loc slty, sli sol, micmic, miccarb i/p, occ w/ diss pyr, n calc-sli calc. SST: med lt gry, med gry, occ olv gry, vf-f qtz gr, hyal, transl, sbang-sbrmd, w/ srted, arg mtrx, calc cmt, mod fri-fri, loc mod consol, w/dk mnrls & glauc incl, p visl por. SD: wh, vf-f qtz gr, hyal, trans, sbang-sbrmd, w/ srted, loc w/dk & gn lits. TG: 1 C1: 115

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
987.00	13.61	283.89	979.96	-929.96	89.27	27.05	-86.74
995.38	13.74	283.30	988.10	-938.10	91.19	27.52	-88.67
1104.25	15.68	285.18	1093.40	-1043.40	118.03	34.35	-115.45

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 9.5
Viscosity (sec): 50
Filtrate (ml): 10

Provisional Formation Tops:

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

Remarks

- In the last 24 hours we have drilled within Talara Sst member, mainly Claystone & Sandstone (very fine to fine), minor Sand (very fine to fine), no fluorescence, and Gas average 1 Unit (C1)
- ROP average 60 ft/hr
- Last survey @ 1104' MD; Inc: 15.68; Az: 285.18, distance from plan 5.59'.

Well Cost:

AFE	4 377 850	US\$
DAILY	80 099	US\$
CUMULATED	383 046	US\$



LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	26-Nov-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	27-Nov-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	1041	PROGRESS 00h00-24h00 (ft):	855
Depth @ 24h00 (ft):	1896	Conductor :	18" 480
Depth @ 06h00 (ft):	2126	DRILLING DAYS:	7

Operations summary:

Drilling rotating and sliding from 1041ft to 1896 ft, taking survey every stand & circulating after pumping high viscosity pill.

Present operations:

Drilling @ 2130' MD (-1943' TVDss)

Prognosed operations:

Drill ahead to casing point (Aprox. 2145' MD)

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
HELICO	1150 - 1555	75	20		20	60				NF	CLYST: olv gry, med dk gry, occ olv blk, ea, blkly-sbbly, sbtab i/p, mod sft-sft, mod frm i/p, occ slty, sli sol, micmic, miccarb i/p, n calc-sli calc. SST: med lt gry, lt gry, mnr med gry, f-vf, tr m qtz gr, hyal, trnsi, sbang-sbrmd, vl srted, arg mtrx i/p, calc cmt, mod fri-mod consol, loc fri, ti i/p, occ drty, w/dk mnrls & glau incl, miccarb i/p, occ micpyr, p vis por SD: wh, occ lt gry, medium, mnr fine, on bottom crs & vcrrs- cgl qtz gr, hyal, trnsi, sbang-sbrmd, loc ang, p srted, w/dk & gnsh lits TG: 2 C1: 187
HELICO	1555 - 2130	77	100			TR				NF	CLYST: brnsh gry, olv gry, loc brnsh blk, occ olv blk, med dk gry, ea, blkly-sbbly, sbtab i/p, frm, loc mod frm, occ slty, micmic, miccarb, n calc. SD: wh, fine, mnr v fine, occ m, tr crs qtz gr, hyal, transl, sbang-sbrmd, fr srted, w/dk & gn lits. TG: 6 C1: 593 C2:5

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1849.92	33.74	298.21	1766.07	-1716.07	429.67	156.64	-403.42
1944.85	34.79	299.61	1844.53	-1794.53	483.11	182.49	-450.19
2039.68	36.42	298.99	1921.63	-1871.63	538.30	209.50	-498.34

Mud information:

Type:	KLASHIELD
Mud Weight (ppg):	9.8
Viscosity (sec):	49
Filtrate (ml):	9.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55

Remarks

- From sea bottom to 1555' MD we have drilled within Helico member, mainly Sandstone (very fine to fine) and Sand (fine, medium to coarse), minor Claystone, from 1510' to 1550' we have Conglomeratic Sand, without fluorescence, and Gas average 2 Unit (C1).
- From 1555' MD (-1463' TVDss) we have drilled within Lobitos member, mainly Claystone, very occasionally Sand, gas average: 6 Units (C1-C2).
- ROP average 77 ft/hr.
- Last survey @ 2039' MD; Inc: 36.42; Az: 298.99, distance from plan 22.8'.

Well Cost:

AFE	4 377 850	US\$
DAILY	82 480	US\$
CUMULATED	465 526	US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 1896
Depth @ 24h00 (ft): 2143
Depth @ 06h00 (ft): 2143

OPERATIONS DATE : 27-Nov-13
REPORT DATE : 28-Nov-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 247
Conductor : 18" 480
DRILLING DAYS: 8

Operations summary:

Drill from 1896 ft to 2143 ft (Casing point), circulate until clean shakers, POOH directional BHA, M/U Slick BHA and RIH, POOH.

Present operations:

Laid down Slick BHA

Prognosed operations:

Run 13 3/8" Casing and perform cement job.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
HELICO	1555 - 2143	77	100			TR				NF	CLYST: brnsh gry, olv gry, loc brnsh blk, occ olv blk, med dk gry, ea, blk-sbbly, sbtab i/p, frm, loc mod frm, occ slty, micmic, miccarb, n calc. SD: wh, fine, mnv v fine, occ m, tr crs qtz gr, hyal, transl, sbang-sbrnd, fr strd, w/dk & gn lits. TG: 6 C1: 593 C2:5

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2039.68	36.42	298.99	1921.63	-1871.63	538.30	209.50	-498.34
2070.18	36.79	298.95	1946.11	-1896.11	556.49	218.31	-514.25
2143.00	37.90	298.83	2004.00	-1954.00	600.65	239.65	-552.93

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10
Viscosity (sec): 60
Filtrate (ml): 9.6

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55

Remarks

- Drilled from 1555' to 2143' (casing point), within Lobitos member, mainly Claystone, very occasionally Sand (fine to medium, rare coarse), without fluorescence, and Gas average 6 Unit (C1-C2).
- Projection at bottom 2143' MD; Inc: 37.90; Az: 298.83, distance from plan 22'.
- Possible Start 12 1/4" Section Saturday noon.

Well Cost:

AFE 4 377 850 US\$
DAILY 78 576 US\$
CUMULATED 544 102 US\$



SAVIA
PERÚ

REPORT N° 5

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	28-Nov-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	29-Nov-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	2143	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	2143	Conductor :	18" 480
Depth @ 06h00 (ft):	2143	DRILLING DAYS:	9

Operations summary:

RIH Slick BHA to bottom, circulate until clean shaker, POOH, run 13 3/8" Casing to 2142', perform cement job.

Present operations:

L/D cement head, cut casing 13 3/8".

Prognosed operations:

Work on BOPs, perform pressure test.

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2039.68	36.42	298.99	1921.63	-1871.63	538.30	209.50	-498.34
2070.18	36.79	298.95	1946.11	-1896.11	556.49	218.31	-514.25
2143.00	37.90	298.83	2004.00	-1954.00	600.65	239.65	-552.93

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10
Viscosity (sec): 60
Filtrate (ml): 9.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55

Remarks

- 13 3/8" casing shoe @ 2142' MD (-1953 TVDss).
- Possible Start 12 1/4" Section Saturday noon.

Well Cost:

AFE	4 377 850	US\$
DAILY	156 498	US\$
CUMULATED	700 600	US\$



LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 2143
Depth @ 24h00 (ft): 2143
Depth @ 06h00 (ft): 2143

OPERATIONS DATE : 29-Nov-13
REPORT DATE : 30-Nov-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 13 3/8" 2142
DRILLING DAYS: 10

Operations summary:

Worked on BOPs

Present operations:

Perform pressure test on BOP

Prognosed operations:

M/U and RIH directional BHA with 12 1/4" PDC bit, drill out cement.

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2039.68	36.42	298.99	1921.63	-1871.63	538.30	209.50	-498.34
2070.18	36.79	298.95	1946.11	-1896.11	556.49	218.31	-514.25
2143.00	37.90	298.83	2004.00	-1954.00	600.65	239.65	-552.93

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10
Viscosity (sec): 60
Filtrate (ml): 9.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55

Remarks

• Possible Start 12 1/4" Section tonight

Well Cost:

AFE 4 377 850 US\$
DAILY 95 068 US\$
CUMULATED 795 668 US\$



SAVIA
PERÚ

REPORT N° 7

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 2143
Depth @ 24h00 (ft): 2143
Depth @ 06h00 (ft): 2143

OPERATIONS DATE : 30-Nov-13
REPORT DATE : 1-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 13 3/8" 2142
DRILLING DAYS: 11

Operations summary:

Pressure test of BOPs, M/U drill pipe in stands, M/U Directional BHA

Present operations:

Drill out cement @ 2110' MD, Current hole depth: 2143' MD

Prognosed operations:

Casing test, Drill out 10' of formation, FIT, Drill 12 1/4" Section.

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2039.68	36.42	298.99	1921.63	-1871.63	538.30	209.50	-498.34
2070.18	36.79	298.95	1946.11	-1896.11	556.49	218.31	-514.25
2143.00	37.90	298.83	2004.00	-1954.00	600.65	239.65	-552.93

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10
Viscosity (sec): 45
Filtrate (ml): 9.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55

Remarks

- Possible Start 12 1/4" Section in two hours

Well Cost:

AFE 4 377 850 US\$
DAILY 104 094 US\$
CUMULATED 899 762 US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 2143
Depth @ 24h00 (ft): 2885
Depth @ 06h00 (ft): 2885

OPERATIONS DATE : 1-Dec-13
REPORT DATE : 2-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 742
Casing: 13 3/8" 2142
DRILLING DAYS: 12

Operations summary:

RIH Directional BHA, Drill out cement, FIT, displaced new mud, Drilled from 2142' to 2885' MD.

Present operations:

Repairing Mud Pump # 2

Prognosed operations:

Repair Pump, RIH, Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS	2143 - 2420	230	100							NF	CLYST: brnsh gry, olv gry, occ olv blk, ea, sbblky-blky, sbply i/p, mod sft-mod frm, loc sft, slty i/p, micmic, loc miccarb, n-sli calc. TG: 27 C1: 1170 C2: 9 C3: 3 C4: 1
TEREBRATULA	2420 - 2599	220	60		30	10				NF	CLYST: olv gry, brnsh gry, med dk gry, occ olv blk, ea, blkly-sbblky, sbtab i/p, loc sbply, mod frm-mod sft, occ sft, slty i/p, micmic, loc miccarb, n-sli calc i/p. SST: lt gry, med lt gry, mnv v lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, w/ srt, arg mtrix i/p, calc cmt, mod fri-fri, loc mod consol, w/dk mnrls & glau incl, occ miccarb, p vis por. SD: wh, vf-f qtz gr, hyal, trns, sbang-sbrnd w/ srt, loc w/dk liths TG: 10 C1: 1026 C2: 6 C3: 2
CHACRA	2599 - 2885	215	80	20	TR					NF	CLYST: med dk gry, olv gry, med gry, occ olv blk, ea, blkly-sbblky, sbtab i/p, loc sbply, mod frm-mod sft, slty i/p, micmic, loc miccarb, n-sli calc i/p. SLTST: med gry, med dk gry, ea, blkly-sbblky, amor, mod frm, micmic, miccarb, grad vf sst, sli calc i/p. TG: 8 C1: 782 C2: 5 C3: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2624.59	38.36	299.06	2385.11	-2335.11	895.02	381.95	-810.64
2719.59	37.90	299.51	2459.84	-2409.84	953.66	410.64	-861.8
2814.63	37.18	299.72	2535.20	-2485.20	1011.55	439.26	-912.15

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10
Viscosity (sec): 45
Filtrate (ml): 9.5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2599.00	2365.00	-2315.00	374.24	-796.77

Remarks

- From casing point (2142') to 2420' MD we continue drilling within LOBITOS member, 100% Claystne (brownish gray), total gas average: 27 Units (C1-C4).
- From 2420' @ 2599' MD we have drilled within POSS TEREBRATULA member, 60% Claystone, 30% Sandstone (very fine to fine), 10% Sand (very fine to fine), total gas average: 10 Units (C1-C3).
- From 2599' MD we have drilled within CHACRA formation, 80% Claystone (medium gray), 20% Siltstone, traces Sandstone (very fine), total gas average: 8 Units (C1-C3).
- Last Survey @ 2814' MD; Incl: 37.18; Az: 299.7; Separated from plan: 12.7'
- Possible restart drilling this afternoon.

Well Cost:

AFE 4 377 850 US\$



SAVIA
PERÚ

REPORT N° 9

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 2885
Depth @ 24h00 (ft): 2885
Depth @ 06h00 (ft): 2885

OPERATIONS DATE : 2-Dec-13
REPORT DATE : 3-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 13 3/8" 2142
DRILLING DAYS: 13

Operations summary:

Repairing Mud pump.

Present operations:

Restarting drilling from 2885' MD (-2541 TVDss)

Prognosed operations:

Drill ahead

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2624.59	38.36	299.06	2385.11	-2335.11	895.02	381.95	-810.64
2719.59	37.90	299.51	2459.84	-2409.84	953.66	410.64	-861.8
2814.63	37.18	299.72	2535.20	-2485.20	1011.55	439.26	-912.15

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10.1
Viscosity (sec): 57
Filtrate (ml): 8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2599.00	2365.00	-2315.00	374.24	-796.77

Remarks

• Drilling with three pumps.

Well Cost:

AFE 4 377 850 US\$
DAILY 89 849 US\$
CUMULATED 1 080 035 US\$



SAVIA
PERÚ

REPORT N° 10

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	3-Dec-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	4-Dec-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	2885	PROGRESS 00h00-24h00 (ft):	1141
Depth @ 24h00 (ft):	4026	Casing: 13 3/8"	2142
Depth @ 06h00 (ft):	4026	DRILLING DAYS:	14

Operations summary:

Repaired Mud pump #02, Drilled from 2885' to 4026', Pump #03 failure, POOH.

Present operations:

Pull drill pipe @ 2200', Current hole depth 4026' MD (-3499 TVDss).

Prognosed operations:

Pull drill pipe to casing shoe (2142'), Repair mud pump #03, RIH, Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	DoI %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	2885 - 3400	174	90				10			NF	CLYST: med dk gry, med gry, occ olv gry, olv blk, dk yelsh brn, dk gry, ea-smth i/p, blk-y-sbbiky, loc sbtab, sbply i/p, mod frm-frm, occ mod sft, slty i/p, micmic, loc miccarb, n calc. LMST: dolomite, pal yelsh brn, dk yelsh brn, ea, blk-y-sbbiky, sb tab i/p, frm-mod hd, miccarb. TG: 8 C1: 790 C2: 5
CHACRA	3400 - 4026	155	60		20	20				NF	CLYST: med dk gry, med gry, occ olv gry, olv blk, dk yelsh brn, dk gry, ea-smth i/p, blk-y-sbbiky, loc sbtab, sbply i/p, mod frm-frm, occ mod sft, slty i/p, micmic, loc miccarb, n calc. SST: lt gry, v lt gry, loc med lt gry, vf-f qtz gr, hyal, transl, sbang-sbrnd, wl srt, arg mtrx, scs calc cmt, mod fri-fri, loc mod consol, drty i/p, w/dk mnrls incl, p vis por. SD: wh, vf-f, tr m qtz gr, hyal, transl, sbang-sbrnd, wl srt, loc w/dk lits. TG: 24 C1: 2268 C2: 37 C3: 7

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3763.78	36.94	299.05	3287.76	-3237.76	1589.82	717.46	-1419.15
3858.77	36.54	299.03	3363.88	-3313.88	1646.63	745.04	-1468.82
3953.79	36.30	299.43	3440.34	-3390.34	1703.03	772.59	-1518.05

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10.7
Viscosity (sec): 60
Filtrate (ml): 8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2599.00	2365.00	-2315.00	374.24	-796.77

Remarks

- From 2885' to 3400' MD we have continued drilling within CHACRA Fm, mainly Claystone and occasionally Limestone; Total gas avrg: 8 Units (C1-C3).
- From 3400' to 4026' MD we have drilled mainly Claystone with intercalation of 30% Sand (fine) and 20% Sandstone (very fine to fine), without fluorescence and total gas avrg: 23 Units (C1-C3).
- Last Survey @ 3953' MD; Incl: 36.3; Az: 299.43, separated from plan 8 feet.
- PARIÑAS Fm expected at 4059' MD.
- Next casing point @ 5550' MD.
- Possible Restart drilling at midnight.

Well Cost:

AFE	4 377 850	US\$
DAILY	88 375	US\$
CUMULATED	1 168 410	US\$



SAVIA
PERÚ

REPORT N° 11

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 4310
Depth @ 06h00 (ft): 4510

OPERATIONS DATE : 4-Dec-13
REPORT DATE : 5-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 284
Casing: 13 3/8" 2142
DRILLING DAYS: 15

Operations summary:

Repaired Mud pump #03, RIH, Drilled from 4026' to 4510' MD

Present operations:

Drilling @ 4510' MD (-3834 TVDss).

Prognosed operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
PARIÑAS	3663 - 4269	120	60		20	20				NF	CLYST: med dk gry, med gry, occ olv gry, olv blk, dk yelsh brn, dk gry, ea-smth i/p, blkly-sbbiky, loc sstab, sbply i/p, mod frm-frm, occ mod sft, slty i/p, micmic, loc miccarb, n calc. SST: lt gry, v lt gry, loc med lt gry, vf-f qtz gr, hyal, transl, sbang-sbrnd, wl srted, arg mtrx, scs calc cmt, mod fri-fri, loc mod consol, drty i/p, w/dk mnrls incl, p vis por. SD: wh, vf-f, tr m qtz gr, hyal, transl, sbang-sbrnd, wl srted, loc w/dk lits. TG: 14 C1: 1287 C2: 29 C3: 5
PALEGREDA	4269 - 4510	105	90	10						NF	CLYST: med dk gry, mntr dk gry, loc olv blk, occ olv gry, brnsh gry, ea, blkly-sbbiky, loc sstab-sblam, frm, loc mod frm, slty i/p, micmic, miccarb, n calc SLST: med gry, med dk gry, ea, blkly-sbbiky, amor, mod frm-frm, micmic, miccarb, grad vf sst, sli calc. TG: 9 C1: 816 C2: 26 C3: 6

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4238.48	37.18	300.49	3667.39	-3617.39	1874.68	858.10	-1666.99
4333.44	36.79	300.58	3743.24	-3693.24	1931.76	887.12	-1716.19
4428.45	36.86	300.88	3819.30	-3769.30	1988.64	916.22	-1765.15

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 10.8
Viscosity (sec): 60
Filtrate (ml): 7.7

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86

Remarks

- From 3663' to 4269' MD we have drilled within POSS PARIÑAS Fm, with average of 60% Claystone, 20% Sand (fine) and 20% Sandstone (very fine to fine), without fluorescence and total gas avrg: 23 Units (C1-C3).
- From 4269' we are drilling mainly Claystone, occasionally Siltstone, total gas avrg: 9 Units (C1-C3).
- Last Survey @ 4428' MD; Incl: 36.8; Az: 300.8, separated from plan 6 feet.
- Next casing point @ 5550' MD.
- Mogollon Fm expect @ 5609' MD (secondary Objective).

Well Cost:

AFE 4 377 850 US\$
DAILY 89 200 US\$
CUMULATED 1 257 610 US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 4310
Depth @ 24h00 (ft): 5164
Depth @ 06h00 (ft): 5330

OPERATIONS DATE : 5-Dec-13
REPORT DATE : 6-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 854
Casing: 13 3/8" 2142
DRILLING DAYS: 16

Operations summary:

Drilled from 4510' to 5330' MD.

Present operations:

Drilling @ 5330' MD (-4494 TVDss).

Prognosed operations:

Drill ahead to casing point (Aprox. 5550' MD).

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
PALEGREDA	4540 - 4600	100	60		20	20				5	CLYST: med dk gry, dk gry, loc med gry, occ olv blk, brnsh gry, ea, biky-sbbiky, loc sblam, occ sblam, frm-mod frm, slty i/p, micmic, miccarb, n calc. SST: v lt gry, lt gry, occ med lt gry, vf-f qtz gr, hyal, trnsi, sbang-sbrmd, wl srt, arg mtrx i/p, calc cmt, mod fri-fri, occ mod consol, w/dk mnris, p-fr vis por. SD: wh, 60% vf, 40% f, tr m qtz gr, hyal, trnsi, sbang-sbrmd, wl srt, loc w/dk lits. FLUOR: NVOS, pin point pal yel nat fluor, slw-crush, pal, even, pal yel cut fluor, milky wh res ring under U. V. lt, n res ring at nat lt. VPOS. TG: 16 C1: 1371 C2: 84 C3: 28 C4: 5
PALEGREDA	4600 - 5300	95	90	10	TR					NF	CLYST: med dk gry, olv gry, occ med gry, dk gry, ea, biky-sbbiky, loc sblam, occ sblam, mod frm-frm, loc mod sft, slty, micmic, miccarb, occ glau incl, n calc-occ sli calc. SLST: med gry, med dk gry, ea, biky-sbbiky, amor, mod frm-frm, loc mod sft, micmic, miccarb, grad-vf sst, sli calc. SST: lt gry, v lt gry, occ med lt gry, vf-f qtz gr, hyal, trnsi, sbang-sbrmd, wl srt, arg mtrx i/p, calc cmt, mod fri-mod consol, w/ dk mnris, p vis por. N.O. S. TG: 13 C1: 1129 C2: 50 C3: 14 C4: 3

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4998.40	36.88	299.57	4275.19	-4225.19	2330.57	1084.07	-2063.14
5093.35	36.32	300.10	4351.42	-4301.42	2387.15	1112.24	-2112.25
5188.32	36.76	299.45	4427.72	-4377.72	2443.67	1140.31	-2161.32

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.0
Viscosity (sec): 60
Filtrate (ml): 7.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86

Remarks

- Continue drilling within PALEGREDA Fm, mainly Claystone.
- From 4540' to 4600' MD we have 20% Sand (very fine to fine) and 20% Sandstone (very fine to fine), with 5% of natural fluorescence (Slow crushing cut), Gas total average of 16 Units (C1-C5) and Up to 35 Units.
- From 4600' to 5300' MD we have drilled mainly 90% Claystone, and 10% Siltstone, and on bottom 10% Sandstone (very fine to fine), total gas avrg: 13 Units (C1-C4).
- ROP avrg: 95 ft/hr.
- Last Survey @ 5188' MD; Incl: 36.7; Az: 299.45, separated from plan 11 feet.
- Next casing point @ 5550' MD.
- Mogollon Fm expect @ 5609' MD (secondary Objective).

Well Cost:

AFE 4 377 850 US\$
DAILY 90 876 US\$
CUMULATED 1 348 486 US\$



SAVIA
PERÚ

REPORT N° 13

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 5164
Depth @ 24h00 (ft): 5439
Depth @ 06h00 (ft): 5439

OPERATIONS DATE : 6-Dec-13
REPORT DATE : 7-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 275
Casing: 13 3/8" 2142
DRILLING DAYS: 17

Operations summary:

Drilled from 5330 to 5439' MD (Casing point), POOH Directional BHA.

Present operations:

M/U slick BHA with 12 1/4" tricone bit

Prognosed operations:

RIH Slick BHA, Condition hole

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	5383 - 5439	77	30		30	40				5 - 15	CLYST: med dk gry, dk gry, loc olv gry, occ olv blk, ea, blkly-sbblky, loc sbtab, occ sblam, mod frm-frm, loc mod sft, slty i/p, micmic, miccarb, n calc-v sli calc SST: v lt gry, lt gry, occ med lt gry, vf to f qtz gr, hyal, trnsi, sbang-sbrnd, wl srted, arg mtrix i/p, calc cmt, mod fri-fri, loc mod consol, w/dk mnrls & glau incl, occ miccarb, p vis por SD: wh, medium to coarse, mnrl fine, tr v coarse qtz gr, hyal, trnsi, sbang-sbrnd, fr srted, w/dk liths. FLUOR: NVOS, 5-15% pin point pal yel nat fluor, slw-crush, pal, even, pal yel cut fluor, n res ring at nat lt. POS. TG: 56 C1: 4485 C2: 332 C3: 124 C4: 31 C5: 4

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5283.27	36.63	299.78	4503.86	-4453.86	2500.39	1168.35	-2210.65
5368.25	36.34	299.82	4572.18	-4522.18	2550.89	1193.46	-2254.50
5439.00	36.05	299.86	4629.28	-4579.28	2592.66	1214.25	-2290.74

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.0
Viscosity (sec): 60
Filtrate (ml): 5.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08

Remarks

- We have drilled MOGOLLON Fm from 5383' to 5439' MD, 30% Claystone, 30% Sandstone (fine) and 40% Sand (medium to coarse, traces very coarse).
- Average of Total Gas: 56 Unidades; C1: 4485 ppm; C2: 332 ppm; C3: 124 ppm; C4: 31 ppm; C5: 4; and Up at 91 Unidades, oil shows from 5 to 15% (slow to moderately fast crushing cut).
- Projection at bottom: 5439' MD; TVD: 4629', Incl: 36.05; Az: 299.8, Separated from plan 13.8 ft.

Well Cost:

AFE	4 377 850	US\$
DAILY	76 344	US\$
CUMULATED	1 424 830	US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	10-Dec-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	11-Dec-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	5439	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5439	Casing: 9 5/8"	5432
Depth @ 06h00 (ft):	5439	DRILLING DAYS:	21

Operations summary:

Working on BOPs, pressure test, ok, pick up drill pipe from barge to platform and M/U in Stand.

Present operations:

M/U BHA directional with 8 1/2" PDC bit at 300 ft.

Prognosed operations:

RIH BHA directional with 8 1/2" PDC bit, perform drill out cement

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5283.27	36.63	299.78	4503.86	-4453.86	2500.39	1168.35	-2210.65
5368.25	36.34	299.82	4572.18	-4522.18	2550.89	1193.46	-2254.50
5439.00	36.05	299.86	4629.28	-4579.28	2592.66	1214.25	-2290.74

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 48
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08

Remarks
Well Cost:

AFE	4 377 850	US\$
DAILY	42 746	US\$
CUMULATED	1 886 957	US\$



SAVIA
PERÚ

REPORT N° 15

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 5439
Depth @ 24h00 (ft): 5439
Depth @ 06h00 (ft): 5800

OPERATIONS DATE : 11-Dec-13
REPORT DATE : 12-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 22

Operations summary:

Make Up directional BHA and test, ok, RIH drill pipe in singles, TOC @ 5340' MD, perform drill out cement, test integrity casing, ok, Continue drill out cement, displaced and homogenize contaminated x new mud, from 00:00 hrs to 06:00 hrs drilling from 5439' to 5800' MD.

Present operations:

Drilling @ 5800' MD (-4867 TVDss)

Prognosed operations:

Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	5383 - 5700	105	30		40	30				TR - 20	CLYST: dk gry, med dk gry, occ olv gry, ea, blkly-sbbkly, occ sbtab- sblam, frm-mod frm, loc slty, micmic, miccarb, n calc. SST: vl gry, lt gry, occ med lt gry, fine, mnr very fine qtz gr, hyal, transl, sbang-sbrnd, wl srted, arg mtrix i/p, calc cmt, mod fri-fri, occ mod consol, w/dk mnrls incl, occ miccarb, p vis por. SD: wh, medium, mnr fine and coarse, tr v crs qtz gr, hyal, transl, sbang-sbrnd, occ ang, fr srted, w/dk liths. FLUOR: NVOS, pin point pal yel nat fluor, slw-crush, wk, pal, even, pal yel cut fluor, n res ring at nat lt, p/f oil show. TG: 32 C1: 2478 C2: 195 C3: 82 C4: 28 C5: 5

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5457.95	36.67	300.93	4644.28	-4594.28	2604.21	1220.45	-2300.53
5552.88	36.69	301.24	4720.42	-4670.42	2660.84	1249.72	-2349.10
5647.85	37.04	298.65	4796.40	-4746.40	2717.77	1278.15	-2398.46

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 49
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08

Remarks

- From 5383' to 5700' MD (254' in TVD) we have drilled within MOGOLLON Fm, drilling mainly Sandstone (fine) & Sand (medium, minor coarse, traces very coarse), intercalated with Claystone, with fluorescence from Traces to 20%, gas total average of 32 Units (C1-C5) Up to 146 Units.
- Observed connection gas of 1000 Units.
- ROP average of 100 ft/hr.
- Last survey @ 5742' MD; Incl: 36.71; Az: 298.9; Separated from plan: 18'

Well Cost:

AFE	4 377 850	US\$
DAILY	112 799	US\$
CUMULATED	1 999 756	US\$



SAVIA
PERÚ

REPORT N° 16

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 5439
Depth @ 24h00 (ft): 6660
Depth @ 06h00 (ft): 6732

OPERATIONS DATE : 12-Dec-13
REPORT DATE : 13-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 1221
Casing: 9 5/8" 5432
DRILLING DAYS: 23

Operations summary:

Drilled from 5432' to 6732' MD

Present operations:

Pull out directional @ 5400' MD, Current Hole Depth 6732' MD (5617' TVDss)

Prognosed operations:

Perform Short Trip to 9 5/8" Casing shoe, RIH, Drill Ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	5700 - 6300	123	20	20	30	30					CLYST: med dk gry, dk gry, loc olv blk, occ med gry, ea i/p, blkly-sbblky, loc sbltab, occ sblam, mod frm-frm, occ mod sft, slty, micmic, miccarb, n calc. SLTST: med gry, med dk gry, ea, blkly-sbblky, amor, mod frm-frm, micmic, miccarb, grad-vf sst, sli calc. SST: v lt gry, lt gry, 70% f, 30% vf, tr med qtz gr, hyal, trnsi, sbang-sbrmd, wl srted, arg mtrix i/p, calc cmt, mod fri-fri, loc consol, ti i/p, w/dk mnrls & shell frag incl i/p, miccarb i/p, p vis por. SD: wh, medium to coarse, minor fine, tr v crs qtz gr, hyal, trnsi, bang-sbrmd, fr srted, w/dk liths. FLUOR: from 6110ft to 6160ft: NVOS, Tr pin point pal yel nat fluor, slw-crush, wk, pal, even, pal yel cut fluor, n res ring at nat lt. VPOS. TG: 10 C1: 834 C2: 47 C3: 11 C4: 3
MOGOLLON	6300 - 6732	87	50	20	20	10					CLYST: med dk gry, dk gry, mn med gry, occ olv blk, ea i/p, blkly-sbblky, loc sbltab, occ sbply, frm- mod frm, slty, micmic, miccarb, occ micpyr, n calc. SLTST: med gry, med dk gry, ea, blkly-sbblky, amor, mod frm-frm, micmic, miccarb, grad vf sst, sli calc i/p SST: v lt gry, lt gry, loc med lt gry, occ olv gry, vf-f qtz gr, hyal, transl, sbang-sbrmd, wl srted, arg mtrix i/p, calc cmt, mod fri-mod consol, loc fri, w/dk mnrls incl, loc miccarb, p vis por SD: wh, vf-f, 40% m qtz gr, hyal, transl, sbang-sbrmd, fr srted, w/dk lits. TG: 9 C1: 836 C2: 37 C3: 7 C4: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6407.39	35.68	298.14	5407.08	-5357.08	3169.35	1492.71	-2795.81
6502.39	37.31	297.35	5483.45	-5433.45	3225.85	1519.01	-2845.82
6597.25	36.95	297.82	5559.08	-5509.08	3283.10	1545.52	-2896.57

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 50
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARÍNAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08

Remarks

- From 5700' to 6080' MD we have drilled within MOGOLLON Fm, drilling mainly Claystone intercalated with Sandstone (very fine to fine) and Sand (fine to medium), without fluorescence, and gas total average of 9 Units (C1-C4).
- From 6080' to 6250' MD we have drilled mainly Sandstone (fine), intercalated with Sand (medium to coarse), Claystone and Siltstone, with traces of fluorescence from 6110' to 6160' MD, and total gas average of 11 Units (C1-C4)
- From 6250 to 6732' MD we have drilled mainly Claystone intercalated with Siltstone and Sandstone (fine, minor coarse) and total gas average of 15 Units (C1-C4), from 6250' to 6300', we have mainly Sandstone with traces to 5% fluorescence and TG of 11 Units (C1-C4).
- At moment we have drilled 1083' in TVD of Mogollon Fm.
- ROP average of 90 ft/hr.
- Last survey @ 6597' MD; Incl: 36.95; Az: 297.8; Separated from plan: 16'
- Next Formation expected: San Cristobal (mainly Claystone)

Well Cost:

AFE	4 377 850	US\$
DAILY	80 998	US\$
CUMULATED	2 080 754	US\$



REPORT N° 17

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 6660
Depth @ 24h00 (ft): 7032
Depth @ 06h00 (ft): 7250

OPERATIONS DATE : 13-Dec-13
REPORT DATE : 14-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 372
Casing: 9 5/8" 5432
DRILLING DAYS: 24

Operations summary:

Drilled 6660 ft to 6732 ft, generator fail shut-down, POOH BHA directional to 5400', rig service, wait & changed filter, RIH BHA directional to 6732 ft, Drill resume from 6732 ft to 7250' MD.

Present operations:

Drilling @ 7250' MD (-6025 TVDss)

Prognosed operations:

Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	6732 - 7210	66	50	TR	20	30				TR - 10	CLYST: med dk gry, med gry, occ dk gry, ea, bkly-sbblky, loc sctab, mod frm-frm, loc mod sft, silty i/p, micmic, miccarb, n calc. SLTST: med gry, med dk gry, ea, bkly-sbblky, amor, mod frm-frm, micmic, miccarb, grad vf sst, sli calc i/p. SST: f, 40% vf qtz gr, hyal, transl, sbang-sbrnd, wl srtld, arg mtrix i/p, calc cmt, mod fri-fri, loc mod consol, ti i/p, dity i/p, w/dk mnrls incl, occ miccarb, p vis por SD: wh, fine to medium, tr crs qtz gr, hyal, transl, sbang-sbrnd, wl srtld, w/dk lits. FLUOR: from 6820ft to 6900ft NVOS, Tr-10% pin point vr pal yel nat fluor, shw crush, fn, dl, even, pal yel cut fluor, n res ring at nat lt. VPOS. TG: 8 C1: 770 C2: 32 C3: 9 C4: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6977.01	37.20	298.58	5863.44	-5813.44	3510.18	1649.18	-3098.65
7071.89	36.79	298.90	5939.22	-5889.22	3567.27	1676.63	-3148.71
7166.80	36.63	298.45	6015.30	-5965.30	3624.00	1703.85	-3198.48

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 50
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08

Remarks

- From 6732' @ 7070' MD we have drilled within Mogollon Fm, mainly Claystone intercalated with Siltstone, we have drilled too two body of 20' with 40% Sandstone (very fine) and 50% sand (fine to medium) with 10% of oil shows (Slow cut crushing) and 65 Gas Units (C1-C5).
- At moment we have drilled 1353' in TVD of Mogollon Fm.
- From 7070' MD (-5887' TVDss) we have an increase @ 90% Claystone, 10% Siltstone very possible San Cristobal Fm, it will be confirmed.
- ROP average of 60 ft/hr.
- Last survey @ 7166' MD; Incl: 36.63; Az: 298.45; Separated from plan: 13'

Well Cost:

AFE 4 377 850 US\$
DAILY 92 700 US\$
CUMULATED 2 173 454 US\$



SAVIA
PERÚ

REPORT N° 18

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	14-Dec-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	15-Dec-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	7032	PROGRESS 00h00-24h00 (ft):	512
Depth @ 24h00 (ft):	7544	Casing: 9 5/8"	5432
Depth @ 06h00 (ft):	7544	DRILLING DAYS:	25

Operations summary:

Drilled from 7032 to 7544, observed diesel of system contaminated, POOH BHA Directional from 7544 to 5432' (Casing Shoe)

Present operations:

Clean diesel system from generator and motor of mud pumps. Current well Depth 7544' MD (-6263 TVDss)

Prognosed operations:

Clean Diesel system

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	7070 - 7544	50	90	10						NF	CLYST: med dk gry, med gry, loc med lt gry, occ dk gry, ea, blkly-sbbkly, loc sbtab, occ sblam, mod frm-mod sft, loc frm, loc slty, sli sol i/p, micmic, miccarb, n calc. SLTST: med gry, med dk gry, ea, blkly-sbbkly, amor, mod frm-frm, micmic, miccarb, grad vf sst i/p, sli calc i/p. TG: 6 C1: 500 C2: 19 C3: 5

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7261.73	36.39	297.88	6091.60	-6041.60	3680.48	1730.51	-3248.27
7356.74	38.13	297.82	6167.22	-6117.22	3738.00	1757.38	-3299.13
7451.70	38.30	297.45	6241.80	-6191.80	3794.00	1784.63	-3351.17

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 50
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

Remarks

- From 7070' MD (-5887' TVDss) we have drilled within San Cristobal Fm, 90% Claystone, 10% Siltstone, occasionally 10% Sandstone, Total Gas avg: 6 Units (C1-C3).
- We have drilled 376' in TVD of San Cristobal Fm.
- ROP average of 50 ft/hr.
- Last survey @ 7451.7' MD; Incl: 38.3; Az: 297.45; Separated from plan: 11'
- Possible restart drilling tomorrow.

Well Cost:

AFE	4 377 850	US\$
DAILY	88 900	US\$
CUMULATED	2 262 354	US\$



REPORT N° 19

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 7544
Depth @ 24h00 (ft): 7544
Depth @ 06h00 (ft): 7544

OPERATIONS DATE : 15-Dec-13
REPORT DATE : 16-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 26

Operations summary:

POOH BHA from 7200 ft to 5400 ft, check filter in principal motor generator, plugged (diesel contaminated), IMI move diesel contaminated, Arpe service crew clean IMI diesel tank, Ok, Pepesa clean and purge diesel system, motor mud pumps tank, drawwork tank, generator tank.

Present operations:

Waiting diesel

Prognosed operations:

Receive diesel, RIH to bottom, drill ahead

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7261.73	36.39	297.88	6091.60	-6041.60	3680.48	1730.51	-3248.27
7356.74	38.13	297.82	6167.22	-6117.22	3738.00	1757.38	-3299.13
7451.70	38.30	297.45	6241.80	-6191.80	3794.00	1784.63	-3351.17

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 52
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

RemarksWell Cost:

AFE 4 377 850 US\$
DAILY 101 921 US\$
CUMULATED 2 364 275 US\$



SAVIA
PERÚ

REPORT N° 20

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 7544
Depth @ 24h00 (ft): 7544
Depth @ 06h00 (ft): 7544

OPERATIONS DATE : 16-Dec-13
REPORT DATE : 17-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 27

Operations summary:

Continue clean and purge diesel system, received new diesel, circulate and homogenized mud, RIH BHA from 5400' to 7543' MD, drilled from 7543' to 7680' MD.

Present operations:

Drilling @ 7680' MD (-6374 TVDss)

Prognosed operations:

Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	7544 - 7640	33	90	10	TR					NF	CLYST: med dk gry, med lt gry, loc med gry, occ dk gry, ea, blkly-sbbiky, loc sbtab, occ sblam, mod sft-mod frm, occ slty, sli sol i/p, micmic, miccarb, n calc. SLTST: med gry, med dk gry, ea, blkly-sbbiky, amor, mod frm-frm, micmic, miccarb, grad vf sst i/p, sli calc i/p. TG: 10 C1: 613 C2: 55 C3: 38 C4: 20 C5: 11

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7356.74	38.13	297.82	6167.22	-6117.22	3738.00	1757.38	-3299.13
7451.70	38.30	297.45	6241.80	-6191.80	3796.74	1784.63	-3351.17
7546.57	38.54	297.26	6316.16	-6266.16	3855.69	1811.72	-3403.53

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 53
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

Remarks

- From 7544' MD we have continued drilling within San Cristobal Fm, mainly Claystone, occasionally Siltstone & traces Sandstone, total gas average 10 Unis (C1-C5).
- Short trip gas 970 Units (C1-C5)
- ROP avrg: 33 ft/hr
- Last Survey @ 7546' MD; Incl: 38.5; Az: 297.26; Separated from plan 9'.
- Expect Basal Salina top @ 9400' MD (-7700 TVDss).

Well Cost:

AFE 4 377 850 US\$
DAILY 84 221 US\$
CUMULATED 2 448 496 US\$



SAVIA
PERÚ

REPORT N° 21

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 7544
Depth @ 24h00 (ft): 8174
Depth @ 06h00 (ft): 8350

OPERATIONS DATE : 17-Dec-13
REPORT DATE : 18-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 630
Casing: 9 5/8" 5432
DRILLING DAYS: 28

Operations summary:

RIH from 7400 to 7544, homogenized mud, drilled from 7544' @ 8350' MD

Present operations:

Drilling @ 8350' MD (-6902' TVDs)

Prognosed operations:

Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Silt %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	7640 - 7885	45	90	10	TR	TR				NF	CLYST: med gry, med dk gry, ea, sbbly-bly, sbbly i/p, occ sblam, mod sft-mod frm, occ frm, occ sly, sli sol i/p, v micmic, miccarb, n calc SLTST: med gry, med dk gry, ea, bly-sbbly, amor, mod sft-mod frm, micmic, miccarb, occ grad-vf sst, sli calc i/p. TG: 8 C1: 746 C2: 34 C3: 12 C4: 4 C5: 2
WEDGE SAND	7885 - 8050	68	30		30	40				NF	CLYST: med dk gry, brnsh gry, ea, bly-sbbly, loc sbbly, occ sblam, mod sft-mod frm, loc sly, micmic, miccarb, n calc. SST: v lt gry, lt gry, 60% f, 40% vf qtz gr, hyal, trnsi, sbang-sbrmd, wl srt, scs arg mtr, calc cmt, mod fri-fri, occ mod consol, w/dk mnrls incl, p-fr vis por. SD: wh, med/fine, tr crs qtz gr, hyal, trnsi, sbang-sbrmd, wl srt. TG: 7 C1: 637 C2: 24 C3: 5 C4: 1
SAN CRISTOBAL	8050 - 8280	50	90	10						NF	CLYST: med dk gry, dk gry, ea, bly-sbbly, loc sbbly, occ sblam, mod frm-mod sft, loc sly, micmic, miccarb, occ micpyr, n calc. SLTST: med gry, med dk gry, ea, bly-sbbly, amor, mod sft-mod frm, micmic, miccarb, occ grad-vf sst, sli calc i/p. TG: 4 C1: 368 C2: 13 C3: 3

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8021.62	38.01	296.79	6687.31	-6637.31	4152.08	1944.35	-3668.70
8116.63	37.36	295.85	6762.50	-6712.50	4210.13	1970.11	-3720.76
8211.55	37.68	296.81	6837.79	-6787.79	4267.91	1995.75	-3772.57

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.3
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

Remarks

- From 7070' to 7885' MD we have drilled San Cristobal Fm, mainly Claystone with thins intercalations of Siltstone, occasionally Sandstone and Sand, total gas avrg 9 Units (C1-C5).
- From 7885' to 8050' MD we have drilled within Wedge Sand, mainly Sand (medium to fine) and Sandstone (fine to very fine), intercalated with Claystone, without fluorescence & total gas avrg: 7 Units (C1-C4).
- From 8050 we are drilling mainly Claystone.
- ROP avrg: 50 ft/hr
- Last Survey @ 8211' MD; Incl: 37.6; Az: 296.8; Separated from plan 18'.
- Expect Basal Salina top @ 9400' MD (-7700 TVDs).

Well Cost:

AFE 4 377 850 US\$
DAILY 89 549 US\$
CUMULATED 2 538 045 US\$



LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
 Mud Loggers: O. Ojeda / E. Santisteban
 Rig Contractor: PEPESA 44
 Depth @ 00h00 (ft): 8174
 Depth @ 24h00 (ft): 8545
 Depth @ 06h00 (ft): 8600

OPERATIONS DATE : 18-Dec-13
 REPORT DATE : 19-Dec-13
 SPUD DATE: 23-Aug-13
 PROGRESS 00h00-24h00 (ft): 371
 Casing: 9 5/8" 5432
 DRILLING DAYS: 29

Operations summary:

Drill from 8174' to 8545', Short trip to 7200' MD, RIH, Drill from 8545' to 8620' MD

Present operations:

Drilling @ 8620' MD (-7111 TVDss)

Prognosed operations:

Drill ahead

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	8280 - 8450	50	30		30	40				TR - 5	CLYST: med dk gry, dk gry, ea, blkly-sbbiky, loc sbbiky, occ sblam, mod frm-mod sft, loc slty, micmic, miccarb, occ micpyr, n calc. SD: wh, occ lt gry, 50% m, 30% f, 20% crs, tr v crs qtz gr, hyal, trnsi, sbang-sbrnd, loc ang, sbply i/p, wl-fr srted, w/dk lits i/p. SST: v lt gry, lt gry, 60% f, 40% vf qtz gr, hyal, trnsi, sbang-sbrnd, wl srted, scs arg mtrx, calc cmt, mod fri-fri, mod consol i/p, w/dk mnrls incl, p-fr vis por. TG: 4 C1: 317 C2: 13 C3: 3
SAN CRISTOBAL	8450 - 8580	50	100							NF	CLYST: med dk gry, med gry, ea, blkly-sbbiky, loc sbply-sbbiky, occ sblam, mod frm-mod sft, slty i/p, micmic, miccarb, n calc. TG: 4 C1: 322 C2: 13 C3: 3

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8306.46	37.89	296.02	6912.80	-6862.80	4326.04	2021.62	-3824.65
8401.37	37.94	295.11	6987.67	-6937.67	4384.30	2046.78	-3877.26
8496.31	37.13	296.67	7062.96	-7012.96	4442.10	2072.03	-3929.29

Mud information:

Type: KLASHIELD
 Mud Weight (ppg): 11.3
 Viscosity (sec): 55
 Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

Remarks

- From 8280' to 8450' MD we have drilled Wedge Sand, mainly Sand (medium to fine) and Sandstone (fine to very fine), intercalated with Claystone, without fluorescence & total gas avrg: 4 Units (C1-C3).
- From 8450' to 8580' MD we have drilled San Cristobal Fm, mainly Claystone, total gas avrg 4 Units (C1-C3).
- ROP avrg rotating: 50 ft/hr
- ROP avrg Sliding: 5 ft/hr
- Last Survey @ 8496' MD; Incl: 37.1; Az: 296.6; Separated from plan 25' (Left).
- Expect Basal Salina top @ 9400' MD (-7700 TVDss).

Well Cost:

AFE 4 377 850 US\$
 DAILY 90 576 US\$
 CUMULATED 2 628 621 US\$



SAVIA
PERÚ

REPORT N° 23

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists:	J. Coronado	OPERATIONS DATE :	19-Dec-13
Mud Loggers:	O. Ojeda / E. Santisteban	REPORT DATE :	20-Dec-13
Rig Contractor:	PEPESA 44	SPUD DATE:	23-Aug-13
Depth @ 00h00 (ft):	8545	PROGRESS 00h00-24h00 (ft):	577
Depth @ 24h00 (ft):	9122	Casing:	9 5/8" 5432
Depth @ 06h00 (ft):	9217	DRILLING DAYS:	30

Operations summary:

Drilling from 8545' to 9217' MD

Present operations:

Circulating @ 9150' MD, Current hole depth 9217' MD (-7597' TVDss)

Prognosed operations:

Short trip @ 7000 ft, RIH adding torque reducer

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
SAN CRISTOBAL	8580 - 9170	50	80		20	TR				NF	CLYST: med gry, med dk gry, blkly- sbblky, loc sbtab, sbply i/p, mod frm-mod sft, slty i/p, micmic, loc miccarb, n calc. SST: med lt gry, lt gry, vf-f qtz gr, hyal, trns, sbmd, w srt, loc arg mtr, loc calc cmt, mod fri-mod consol, drty i/p, loc w/dk mnrls incl, p vis por SD: wh, occ lt gry, fine, mnrl med qtz gr, hyal, trns, sbang-sbmd, loc ang, sbply i/p, w/fr srt, w/dk lts i/p. TG: 9 C1: 843 C2: 36 C3: 9
POSS UP BASAL SALINA	9170 - 9217	45	10		10	80				5	CLYST: med gry, med dk gry, blkly- sbblky, loc sbtab, sbply i/p, mod frm-mod sft, slty i/p, micmic, loc miccarb, n calc. SST: vl gry, lt gry, vf-f qtz gr, hyal, trns, sbmd, w srt, scs arg mtr, calc cmt, mod consol-mod fri, w/dk mnrls incl, p vis por. SD: wh, med, coar, tr v crs-congl qtz gr, hyal, trns, sbang-sbmd, loc ang, p srt, diss pyr on surf i/p. Fluor: NVOS, pin point pal yel nat fluor, slw to crsh, wk, fn, even, pal yel cut fluor, n res ring at nat lt. POS. TG: 12 C1: 1017 C2: 52 C3: 13 C4: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type:	KLASHIELD
Mud Weight (ppg):	11.3
Viscosity (sec):	55
Filtrate (ml):	5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARIÑAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70

Remarks:

- From 8580' to 9170' MD we have continued drilling San Cristobal Fm, mainly Claystone (medium gray), occasionally 20% of Sandstone (very fine to fine) intercalated, total gas average 9 Units (C1-C3).
- From 9170' MD we have an increase until 90% Sand (medium to coarse) Possible Upper Basal Salina, total gas average 12 Units, and picks of 68 Units (C1-C4), with 5% oil shows.
- ROP avrg rotating: 50 ft/hr
- Last Survey @ 9161' MD; Incl: 35.25; Az: 288.35; Separated from plan 43'.
- Possible restart drill tonight.

Well Cost:

AFE	4 377 850	US\$
DAILY	90 576	US\$
CUMULATED	2 719 197	US\$



LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
 Mud Loggers: O. Ojeda / E. Santisteban
 Rig Contractor: PEPESA 44
 Depth @ 00h00 (ft): 9122
 Depth @ 24h00 (ft): 9217
 Depth @ 06h00 (ft): 9217

OPERATIONS DATE : 20-Dec-13
 REPORT DATE : 21-Dec-13
 SPUD DATE: 23-Aug-13
 PROGRESS 00h00-24h00 (ft): 95
 Casing: 9 5/8" 5432
 DRILLING DAYS: 31

Operations summary:

Drill from 9122 ft to 9217 ft, circulate until clean shakers, PEPESA repair clutch chain of drawwork, POOH from bottom (9217ft) to 7400 ft with backreaming, continue to POOH from 7400 ft to 5432 ft with circulation, no rotation, Ok, continue to POOH from 5432 ft to surface

Present operations:

RIH BHA Directional at 1400 ft

Prognosed operations:

RIH adding torque reducer

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type: KLASHIELD
 Mud Weight (ppg): 11.4
 Viscosity (sec): 56
 Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks

- Possible restart drill this afternoon.
- Changed BHA & Bit.

Well Cost:

AFE 4 377 850 US\$
 DAILY 90 577 US\$
 CUMULATED 2 809 774 US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9217
Depth @ 24h00 (ft): 9217
Depth @ 06h00 (ft): 9217

OPERATIONS DATE : 21-Dec-13
REPORT DATE : 22-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 32

Operations summary:

Make up New BHA with new bit and RIH to 5350 (9 5/8" Casing Shoe), Rig service (working on malacate engine)

Present operations:

RIH drill pipe @ 6000' MD, Current hole depth 9217' MD (-7597' TVDss)

Prognosed operations:

Continue RIH to bottom adding torque reducer, restart drilling

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.4
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARÍNAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks
Well Cost:

AFE	4 377 850	US\$
DAILY	90 578	US\$
CUMULATED	2 900 352	US\$


SAVIA
PERÚ

LOBITOS OFFSHORE
LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: O. Ojeda / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9217
Depth @ 24h00 (ft): 9217
Depth @ 06h00 (ft): 9217

OPERATIONS DATE : 22-Dec-13
REPORT DATE : 23-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 33

Operations summary:

Installed gearbox repaired, test, ok, RIH BHA @ 7004', circulated and observed 2000 unit gas, mud cut from 10.4 to 10.2, conduction mud, continue RIH BHA @ 8183', Barge separate due slide anchor, disconnected lines, POOH BHA to casing shoe (5400').

Present operations:

Wait on weather

Prognosed operations:

Wait on weather

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.4
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks

• Observed 2000 units circulating @ 7000'. Mud cut from 10.4 to 10.2

Well Cost:

AFE 4 377 850 US\$
DAILY 90 579 US\$
CUMULATED 2 990 931 US\$



SAVIA
PERÚ

REPORT N° 27

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoy / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9217
Depth @ 24h00 (ft): 9217
Depth @ 06h00 (ft): 9217

OPERATIONS DATE : 23-Dec-13
REPORT DATE : 24-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 34

Operations summary:

Waiting on weather, closed well, relocated barge to platform and connect lines, RIH BHA.

Present operations:

Circulating @ 6900'

Prognosed operations:

Continue RIH, restart Drilling

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.4
Viscosity (sec): 53
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks

- Observed 2600 units total gas circulating @ 6900'.
- While wait on weather gain 4.5 bbls of mud at trip tank, closed well.
- Possible restart drilling this afternoon

Well Cost:

AFE 4 377 850 US\$
DAILY 67 957 US\$
CUMULATED 3 058 888 US\$



SAVIA
PERÚ

REPORT N° 28

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoy / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9217
Depth @ 24h00 (ft): 9217
Depth @ 06h00 (ft): 9217

OPERATIONS DATE : 24-Dec-13
REPORT DATE : 25-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 35

Operations summary:

Relocated barge to platform, condition mud 11.5 ppg in, out. open annular BOP, flow check ok. RIH directional BHA with 5" DP from 5400 ft to 9204' MD circulating every 1500' and condition mud weight, added torque reducer every stand, mud cut from 11.6 to 11.3, condition to 11.7, observed rough sea, barge separated from initial position. POOH to casing shoe, observed good better sea condition, RIH.

Present operations:

Circulating @ 7000'

Prognosed operations:

Continue RIH, restart Drilling

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8971.35	35.47	292.45	7446.16	-7396.16	4722.45	2192.80	-4182.61
9066.40	35.22	290.36	7523.70	-7473.70	4777.05	2212.87	-4233.80
9161.32	35.25	288.35	7601.23	-7551.23	4831.18	2231.01	-4285.46

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.8
Viscosity (sec): 54
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks

- Observed 3098 units total gas circulating @ 9043'.
- Mud cut from 11.6 to 11.3, condition mud to 11.8
- Possible restart drilling tonight.

Well Cost:

AFE	4 377 850	US\$
DAILY	76 117	US\$
CUMULATED	3 135 005	US\$



SAVIA
PERÚ

REPORT N° 29

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoyá / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9217
Depth @ 24h00 (ft): 9537
Depth @ 06h00 (ft): 9720

OPERATIONS DATE : 25-Dec-13
REPORT DATE : 26-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 320
Casing: 9 5/8" 5432
DRILLING DAYS: 36

Operations summary:

Circulate at shoe and condition MW to 11.8 ppg. wait on weather condition. RIH BHA fr 5400 ft to 9217 ft. Drill in rotate mode from 9217 ft to 9720 ft.

Present operations:

Drilling @ 9720' MD (-8004 TVDss)

Prognosed operations:

Drill ahead to TD

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
UPP BASAL SALINA	9170 - 9270	40	30		20	50				5	CLYST: med dk gry, med gry, biky-sbbiky, loc sbtab, occ sblam, mod frm-mod sft, loc slty, micmic, miccarb, occ micpyr & glau inclu, n calc. SST: v lt gry, lt gry, vf-f qtz gr, hyal, trnsi, sbrnd, wl srted, scs arg mtrx, calc cmt, mod consol-mod fri, w/dk mnrls incl, p vis por. SD: wh, medium to coarse, tr v crs-cgl qtz gr, hyal, trnsi, sbang-sbrnd, loc ang, p srted. FLUOR: From 9200 ft to 9240 ft: NVOS, 5% pin point pal yel nat fluor, slw to crsh, wk, fn, even, pal yel cut fluor, n res ring at nat lt. POS TG: 11 C1: 911 C2: 52 C3: 22 C4: 7 C5: 5
UPP BASAL SALINA	9270 - 9635	39	70	10	10	10				NF	CLYST: med gry, loc gry, biky-sbbiky, loc sbtab, occ sblam, mod frm-frn, occ slty, micmic, loc miccarb, n calc. SST: med lt gry, med gry, vf-f qtz gr, hyal, trnsi, sbrnd, wl srted, loc arg mtrx, scs calc cmt, mod consol-mod fri, loc drty, w/dk mnrls incl, p vis por. N.O.S. SD: wh, vf-f qtz gr, hyal, trnsi, sbang-sbrnd, wl srted. TG: 7 C1: 633 C2: 23 C3: 6 C4: 1
UPP BASAL SALINA	9635 - 9660	40	40		30	30				NF	CLYST: med gry, gry, biky-sbbiky, loc sbtab-sblam, mod frm-frn, slty i/p, micmic, miccarb, n calc. SST: v lt gry, lt gry, vf-f qtz gr, hyal, trnsi, sbrnd, wl srted, arg mtrx i/p, calc cmt, mod fri-fri, w/dk mnrls incl, p vis por. N.O.S. SD: white, fine to medium, mn crs qtz gr, hyal, trnsi, sbang-sbrnd, fr srted. TG: 9 C1: 859 C2: 28 C3: 6

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9399.04	36.21	285.96	7794.38	-7744.38	4967.02	2270.83	-4418.18
9497.30	36.30	284.30	7873.62	-7823.62	5023.65	2286.00	-4474.27
9595.62	36.61	283.30	7952.70	-7902.70	5080.27	2299.93	-4531.00

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.8
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO					
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARÍÑAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL SALINA	9170.00	7608.32	-7558.32	2232.67	-4290.18

Remarks

- From 9170' to 9270' MD we have drilled within Upper Basal Salina, mainly Sand (medium to coarse) minor Sandstone (fine), intercalated with Claystone (medium gray to gray) and occasionally Siltstone, average total gas: 11 Units (C1-C5), and pick of 68 Units, with 5% fluorescence.
- From 9270 to 9635' MD we have drilled mainly Claystone (medium gray to gray), intercalated occasionally with Sandstone (very fine) and siltstone, total gas avrg 7 Units (C1-C4)
- From 9635 to 9660' MD we have drilled Claystone, intercalated with Sand (fine) & Sandstone (very fine), total gas avrg 9 Units (C1-C3) and Up @ 39 Units, no fluorescence.
- ROP average: 38 ft/hr.
- Last Survey @ 9595'; Incl: 36.61; Az: 283.3, Separated from plan 97ft.

Well Cost:

AFE	4 377 850	US\$
DAILY	77 855	US\$
CUMULATED	3212 860	US\$



SAVIA
PERÚ

REPORT N° 30

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoy / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9537
Depth @ 24h00 (ft): 9952
Depth @ 06h00 (ft): 9952

OPERATIONS DATE : 26-Dec-13
REPORT DATE : 27-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 415
Casing: 9 5/8" 5432
DRILLING DAYS: 37

Operations summary:

Drilled from 9537 to 9952' MD (FTD), Circulate on bottom, POOH

Present operations:

POOH Directional BHA @ 7670, FTD: 9952' MD (-8188 TVDss)

Prognosed operations:

POOH at surface, RIH Slick BHA

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Congl %	Fluor %	LITHOLOGICAL DESCRIPTION
UPP BASAL SALINA	9660 - 9805	36	40		30	30				NF	CLYST: med gry, gry, bkly-sbbkly, loc sbtab-sblam, mod frm-frm, silty i/p, micmic, miccarb, n calc. SST: v lt gry, lt gry, vf-f qtz gr, hyal, transl, sbmnd, wl srted, arg mtrix i/p, calc cmt, mod fri-fri, w/dk mnrls incl, p vis por. SD: wh, fine to medium qtz gr, hyal, transl, sbang-sbmnd, wl srted. TG: 6 C1: 523 C2: 21 C3: 4
BALCONES	9805 - 9952	45	100							NF	CLYST: dk gry, med dk gry, bkly-sbbkly, loc sbtab-sblam, occ sbpity, mod frm-frm, loc silty i/p, micmic, miccarb i/p, n calc. TG: 4 C1: 394 C2: 13 C3: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9792.14	36.79	280.36	8110.57	-8060.57	5192.51	2323.55	-4645.61
9890.38	37.00	279.60	8189.14	-8139.14	5248.57	2333.77	-4703.69
9952.00	37.21	278.85	8238.28	-8188.28	5283.75	2339.73	-4740.39

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.8
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL	9170.00	7608.32	-7558.32	2232.67	-4290.18
LOW BASAL	9634.00	7983.52	-7933.52	2305.05	-4553.29
BALCONES	9860.00	8164.87	-8114.87	2330.68	-4685.69

Remarks

- From 9660 to 9805' MD we have drilled Claystone, intercalated with Sand (fine to medium) & Sandstone (very fine), total gas avrg 6 Units (C1-C3), no fluorescence.
- From 9805' to 9952' MD we have drilled Claystone (gray, medium dark gray), total gas avrg 4 units (C1-C3).
- Observed Balcones marker from 9860'
- Survey projected at bottom: 9952'; Incl: 37.21; Az: 278.85
- Possible run E-Logs tomorrow on night.

Well Cost:

AFE 4 377 850 US\$
DAILY 84 075 US\$
CUMULATED 3 296 935 US\$



SAVIA
PERÚ

REPORT N° 31

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoy / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9952
Depth @ 24h00 (ft): 9952
Depth @ 06h00 (ft): 9952

OPERATIONS DATE : 27-Dec-13
REPORT DATE : 28-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 38

Operations summary:

POOH directional BHA, M/U Slick BHA and RIH to shoe.

Present operations:

Circulate at shoe to condition MW 11.9 ppg

Prognosed operations:

Repair Power transmission system in motor # 1 of drawwork, continue RIH to bottom

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9792.14	36.79	280.36	8110.57	-8060.57	5192.51	2323.55	-4645.61
9890.38	37.00	279.60	8189.14	-8139.14	5248.57	2333.77	-4703.69
9952.00	37.21	278.85	8238.28	-8188.28	5283.75	2339.73	-4740.39

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.8
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL	9170.00	7608.32	-7558.32	2232.67	-4290.18
LOW BASAL	9634.00	7983.52	-7933.52	2305.05	-4553.29
BALCONES	9860.00	8164.87	-8114.87	2330.68	-4685.69

Remarks

- Final TD: 9952' MD (-8188 TVDss)
- Increase mud weight from 11.8 to 11.9 ppg
- Possible run E-Logs tomorrow on night

Well Cost:

AFE 4 377 850 US\$
DAILY 70 262 US\$
CUMULATED 3 367 197 US\$



SAVIA
PERÚ

REPORT N° 32

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Ofoya / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9952
Depth @ 24h00 (ft): 9952
Depth @ 06h00 (ft): 9952

OPERATIONS DATE : 28-Dec-13
REPORT DATE : 29-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 39

Operations summary:

RIH Slick BHA at 5400', working on power transmission system, continue RIH

Present operations:

RIH slick BHA @ 9600'

Prognosed operations:

RIH to bottom, circulate, POOH

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9792.14	36.79	280.36	8110.57	-8060.57	5192.51	2323.55	-4645.61
9890.38	37.00	279.60	8189.14	-8139.14	5248.57	2333.77	-4703.69
9952.00	37.21	278.85	8238.28	-8188.28	5283.75	2339.73	-4740.39

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.9
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL	9170.00	7608.32	-7558.32	2232.67	-4290.18
LOW BASAL	9634.00	7983.52	-7933.52	2305.05	-4553.29
BALCONES	9860.00	8164.87	-8114.87	2330.68	-4685.69

Remarks

- Final TD: 9952' MD (-8188 TVDss)
- Total Gas While Circulate 317 Units.
- Possible run E-Logs tomorrow early.

Well Cost:

AFE	4 377 850	US\$
DAILY	66 961	US\$
CUMULATED	3 434 158	US\$



SAVIA
PERÚ

REPORT N° 33

LOBITOS OFFSHORE

LO16-27D GEOLOGICAL DAILY REPORT

Geologists: J. Coronado
Mud Loggers: R. Otoy / E. Santisteban
Rig Contractor: PEPESA 44
Depth @ 00h00 (ft): 9952
Depth @ 24h00 (ft): 9952
Depth @ 06h00 (ft): 9952

OPERATIONS DATE : 29-Dec-13
REPORT DATE : 30-Dec-13
SPUD DATE: 23-Aug-13
PROGRESS 00h00-24h00 (ft): 0
Casing: 9 5/8" 5432
DRILLING DAYS: 40

Operations summary:

Condition hole with slick BHA before run E-Logs

Present operations:

Logging @ 6000' MD (GR-Resistivity-Neutron-Density-Caliper)

Prognosed operations:

Continue logging 8 1/2" hole

Lithology summary:

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

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
9792.14	36.79	280.36	8110.57	-8060.57	5192.51	2323.55	-4645.61
9890.38	37.00	279.60	8189.14	-8139.14	5248.57	2333.77	-4703.69
9952.00	37.21	278.85	8238.28	-8188.28	5283.75	2339.73	-4740.39

Mud information:

Type: KLASHIELD
Mud Weight (ppg): 11.9
Viscosity (sec): 55
Filtrate (ml): 5

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
HELICO			FROM SURFACE		
LOBITOS	1555.00	1513.00	-1463.00	89.13	-268.55
CHACRA	2627.00	2387.00	-2337.00	382.68	-811.95
PARINAS	3663.00	3207.00	-3157.00	688.38	-1365.90
PALEGREDA	4269.00	3691.00	-3641.00	867.45	-1682.86
MOGOLLON	5383.00	4584.00	-4534.00	1197.80	-2262.08
SAN CRISTOBAL	7070.00	5937.70	-5887.70	1676.08	-3147.70
UP BASAL	9170.00	7608.32	-7558.32	2232.67	-4290.18
LOW BASAL	9634.00	7983.52	-7933.52	2305.05	-4553.29
BALCONES	9860.00	8164.87	-8114.87	2330.68	-4685.69

Remarks

- Hole depth: 9952' MD (-8188 TVDss)
- Start Rig up E-Logs tools @ 02:30 am (December 30).
- RIH wireline with normal speed from surface @ 6500' MD.
- From 6500' observed problems, tag in several points, tool pass after some attempts.
- Stuck attempt @ 6740' MD, released with 8000 pounds of tension
- From 6740' to 6500' open caliper, observed diameter of 11.5" avrg.
- Continue RIH from 6740 to 7650', tag in several points, tried pass with several attempts and different speeds without success.
- Decided pull out logging from 7650' MD in coordination with Lima office.
- Logging from 07:15 am
- Mud weight 11.9 ppg; String length: 71.21 ft; String weight: 1430' pounds, String maximum outer diameter: 5"

Well Cost:

AFE	4 377 850	US\$
DAILY	78 100	US\$
CUMULATED	3 512 258	US\$