



SAVIA
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REPORT N° 1

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	4-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	5-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	456	PROGRESS 00h00-24h00 (ft):	20
Depth @ 24h00 (ft):	476	Cond: 18"	456
Depth @ 06h00 (ft):	490	DRILLING DAYS:	7

Operations summary:

Drilled out cement (DOC) from 454' to 456' MD, drilled formation from 456' to 458' MD, vibration during last foot drilled, performed 7 magnet runs, total debris recovered 17 kg, displaced sea water by drilling mud, took gyro to 464' MD: Inc: 1.76 deg, Azi: 124.3 deg. M/U directional BHA with 12 1/4" tricone bit from surface to 468' MD, Oriented tool face.

Present operations:

Drilling sliding at 498' MD (448' TVDss).

Forecast operations:

Drill ahead 12 1/4" pilot hole until @ 900' MD, open hole to 17".

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 8.8
Viscosity (sec): 40
Filtrate (ml): ---

Provisional Formation Tops:

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

Remarks

Wellsite Geologist on location at 19:30 hrs. Mud logging unit 100% ready. Chromatograph & Electronic hand arrived to location at 00:00 hrs today.

Well Cost:

AFE	4 660 640	US\$
DAILY	92 573	US\$
CUMULATED	801 941	US\$



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REPORT N° 2

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	5-Jan-14
Mud Loggers:	R. Otoy/M. Adrianzen	REPORT DATE :	6-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	476	PROGRESS 00h00-24h00 (ft):	268
Depth @ 24h00 (ft):	744	Cond:	18" 456
Depth @ 06h00 (ft):	781	DRILLING DAYS:	8

Operations summary:

Continued drilling pilot hole sliding & rotating with 12 1/4" tricone bit from 476' to 744' MD, taking gyro surveys every stand.

Present operations:

Drilling sliding at 789' MD (738' TVDss).

Forecast operations:

Drill ahead to @ 900' MD, PO 12 1/4" directional BHA, RIH 17" directional BHA with PDC bit, open hole to 17" & drill ahead 17" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA SST	456 - 780	28	50	20	30				NF	CLYST: olv gy, loc olv blk, occ md dk gy, biky/sbblky, loc sblab/sblam, occ sbply, md frm/md sft, micmic, miccarb, non/sl calc, earthy surf. SST: md dk gy, loc md gy, 100% vt/f, hyal, smky, mnrd dk & gn'sh gy lith grns, sbang/sbrnd, w srt, scs arg mtz, calc cmt, md consl/md fri, loc tight, p vis por. SD: wh, hyal, mnrd dk & gn'sh lith grns, 50% f, 40% m, 10% c.sbang/sbrnd, p srt. TG: 2 C1: 167 C2: 4 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
100.00	1.58	147.61	99.99	-49.99	1.38	S 1.16	E 0.74
150.00	1.78	142.90	149.97	-99.97	2.84	S 2.37	E 1.58
200.00	1.82	144.51	199.94	-149.94	4.41	S 3.63	E 2.51
250.00	1.94	135.91	249.91	-199.91	6.04	S 4.89	E 3.56
300.00	2.14	137.96	299.88	-249.88	7.81	S 6.19	E 4.77
350.00	2.19	133.51	349.85	-299.85	9.69	S 7.54	E 6.09
400.00	2.16	130.09	399.81	-349.81	11.57	S 8.80	E 7.50
420.00	2.08	125.92	419.80	-369.80	12.29	S 9.26	E 8.08
464.00	1.76	124.30	463.77	-413.77	13.73	S 10.11	E 9.29
487.00	2.77	145.84	486.75	-436.75	14.62	S 10.77	E 9.89
517.00	2.85	146.85	516.72	-466.72	16.08	S 11.99	E 10.71
547.00	3.05	156.31	546.68	-496.68	17.58	S 13.35	E 11.44
577.00	4.02	171.81	576.62	-526.62	19.24	S 15.12	E 11.91
609.00	4.51	174.98	608.53	-558.53	21.30	S 17.48	E 12.18
639.00	4.76	181.17	638.44	-588.44	23.37	S 19.90	E 12.25
669.00	5.80	191.48	668.31	-618.31	25.58	S 22.63	E 11.93
699.00	6.43	194.03	698.14	-648.14	28.08	S 25.75	E 11.22

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 40
Filtrate (ml): ---

Provisional Formation Tops:

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

Remarks

So far have drilled 333' MD (333' TVDss) of mainly Sst-Sd sequences interbedded with Clyst in Talara Sst mbr, & 333' MD (240' TVDss) 12 1/4" pilot hole section, 2 units (C1-C2) as background gas. Last sample 780' MD, 60% Clyst, 20% Sd, 20% Sst, NF.

Well Cost:

AFE	4 660 640	US\$
DAILY	72 441	US\$
CUMULATED	874 382	US\$



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REPORT N° 3

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 744
Depth @ 24h00 (ft): 823
Depth @ 06h00 (ft): 847

OPERATIONS DATE : 6-Jan-14

REPORT DATE : 7-Jan-14

SPUD DATE: 29-Dec-13

PROGRESS 00h00-24h00 (ft): 79

Cond: 18" 456

DRILLING DAYS: 9

Operations summary:

Continued drilling sliding 744' to 788' MD, POOH directional BHA & M/U slick BHA with 12 1/4" tricone bit, RIH to bottom to take survey closer to bottom. POOH slick BHA to surface, Changed BH to 1.85. M/U directional BHA with 12 1/4" tricone bit from surface to bottom. Resumed drilling sliding from 788 to 823' MD, POOH directional BHA to surface, M/U slick BHA with 12 1/4" tricone bit, RIH to bottom.

Present operations:

L/D directional BHA.

Forecast operations:

L/D directional BHA, M/U slick BHA with 12 1/4" bit, run gyro survey closer to bottom, change out to directional BHA with 12 1/4" bit & drill ahead pilot hole to @ 900' MD.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS MBR	780 - 840	20	100							NF	CLYST: olv gy, olv blk, loc md dk gy, blk/sbblk, occ sctab, md frm/firm, loc md sft, micmic, miccarb, sl calc, earthy surf. TG: 2 C1: 151 C2: 2 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
731.00	6.51	198.40	729.93	-679.93	30.94	S 29.21	E 10.21
756.00	7.18	201.41	754.76	-704.76	33.30	S 32.01	E 9.19
779.00	7.63	203.67	777.56	-727.56	35.66	S 34.74	E 8.06
817.00	10.29	201.49	815.10	-765.10	40.63	S 40.21	E 5.80

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 6.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks:

So far have drilled 16' MD (16' TVDss) of mainly Clyst sequences Lobitos Mbr - Talara Fm, & 367' MD (365' TVDss) 12 1/4" pilot hole section, 2 units (C1-C2) as background gas. Last sample 840' MD, 100% Clyst. TGTlab electrician arrived to location today at 01:00 hrs with spare material.

Well Cost:

AFE 4 660 640 US\$
DAILY 73 379 US\$
CUMULATED 947 761 US\$



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REPORT N° 4

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 823
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 936

OPERATIONS DATE : 7-Jan-14
REPORT DATE : 8-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 113
Cond: 18" 456
DRILLING DAYS: 10

Operations summary:

M/U & RIH directional BHA with 12 1/4" tricone bit. Drilled sliding from 823' to 857' MD. POOH, changed out to slick BHA, took gyro survey, POOH changed out to directional BHA with 12 1/4" tricone bit. Continued drilling sliding from 857' to 936' MD. Observed bad weather, PO directional BHA from 936' to 420' MD, disconnected hoses & lines from Perla Tender to Platform, waited on weather.

Present operations:

Wait on weather.

Forecast operations:

Wait on weather, RIH to bottom, take gyro survey, POOH, L/D 12 1/4" BHA, M/U 17" tricone bit, open hole to 17".

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS MBR	840 - 930	25	100							NF	CLYST: olv blk, loc olv gy, ea, blk/sbplty, loc sbtab, amor i/p, md frm/md sft, micmic, miccarb, v sl calc. TG: 2 C1: 222 C2: 8 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
850.00	12.31	198.15	847.46	-797.46	46.44	37.26	E 3.62

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

So far have drilled 129' MD (127' TVDss) of mainly Clyst sequences Lobitos Mbr-Talara Fm, & 480' MD (476'TVDss) 12 1/4" pilot hole section, 2 units (C1-C2) as background gas. Last sample 930' MD, 100% Clyst. Avg. ROP 25 ft/hr. TGTlab electrition on the way to Talara to bring another CPU for transmissions PC.

Well Cost:

AFE	4 660 640	US\$
DAILY	88 898	US\$
CUMULATED	1 036 659	US\$



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REPORT N° 5

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 936

OPERATIONS DATE : 8-Jan-14
REPORT DATE : 9-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 11

Operations summary:

Wait on weather.

Present operations:

Wait on weather.

Forecast operations:

Wait on weather, connect lines & hoses to Perla Tender, RIH, take Gyro survey, POOH, L/D 12 1/4" BHA with tricone bit, M/U 17" BHA with tricone bit, open hole to 17".

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 6.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

So far have drilled 129' MD (127' TVDss) of mainly Clyst sequences Lobitos Mbr-Talara Fm, & 480' MD (476' TVDss) 12 1/4" pilot hole section, 2 units (C1-C2) as background gas. Last sample 930' MD, 100% Clyst. TGTlab electrifian in Talara shipping another CPU for transmissions PC.

Well Cost:

AFE	4 660 640	US\$
DAILY	61 196	US\$
CUMULATED	1 097 855	US\$



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REPORT N° 6

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 936

OPERATIONS DATE : 9-Jan-14
REPORT DATE : 10-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 12

Operations summary:

Wait on weather.

Present operations:

Wait on weather.

Forecast operations:

Wait on weather, connect lines & hoses to Perla Tender, RIH, take Gyro survey, POOH, L/D 12 1/4" BHA with tricone bit, M/U 17" BHA with tricone bit, open hole to 17".

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 6.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

So far have drilled 129' MD (127' TVDss) of mainly Clyst sequences Lobitos Mbr-Talara Fm, & 480' MD (476' TVDss) 12 1/4" pilot hole section, 2 units (C1-C2) as background gas. Last sample 930' MD, 100% Clyst. Wait on weather since 07/01/2014 at 21:00 hrs.

Well Cost:

AFE	4 660 640	US\$
DAILY	55 430	US\$
CUMULATED	1 153 285	US\$



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REPORT N° 7

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 936

OPERATIONS DATE : 10-Jan-14
REPORT DATE : 11-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 13

Operations summary:

Wait on weather.

Present operations:

Perla Tender approach to LO6 Platform, connect hoses & power lines.

Forecast operations:

RIH to bottom, take gyro survey, POOH, L/D 12 1/4" BHA, M/U 17" tricone bit, open hole to 17".

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(R)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Wait on weather since 07/01/2014 at 21:00 hrs.

Well Cost:

AFE 4 660 640 US\$
DAILY 69 630 US\$
CUMULATED 1 222 915 US\$



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REPORT N° 8

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	11-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	12-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	936	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	936	Cond: 18"	456
Depth @ 06h00 (ft):	936	DRILLING DAYS:	14

Operations summary:

Open hole with 17" directional BHA & tricone bit at 505' MD.

Present operations:

Wait on weather, Perla Tender approached to LO16 platform, Installed mud hoses & power lines, function test to Drilling rig, Ok, RIH to 460' MD, connected Top Drive & Circulated 1 bottom up, full return, Rig service, repaired mud pump, RIH circulating each joint to 935' MD, circulated, took gyro survey at 890' MD. POOH, L/D 12 1/4" BHA, M/U 17" directional BHA with tricone bit.

Forecast operations:

Open hole to 17".

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Wait on weather since 07/01/2014 at 21:00 hrs. Resumed drilling at 05:00 hrs.

Well Cost:

AFE	4 660 640	US\$
DAILY	88 980	US\$
CUMULATED	1 311 895	US\$



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REPORT N° 9

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 936

OPERATIONS DATE : 12-Jan-14
REPORT DATE : 13-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 15

Operations summary:

M/U & RIH directional BHA with 17" Tricone bit to 456' MD, open hole rotating 456' to 634' MD. ROP slow down gradually to 4 ft/hr, took gyro survey.

Present operations:

Taking gyro survey, 17" depth 671' MD. Current hole depth 936' MD.

Forecast operations:

Continue open hole to 17" up to 936' MD.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Well Cost:

AFE 4 660 640 US\$
DAILY 75 640 US\$
CUMULATED 1 387 535 US\$



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REPORT N° 10

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	13-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	14-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	936	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	936	Cond: 18"	456
Depth @ 06h00 (ft):	936	DRILLING DAYS:	16

Operations summary:

Open hole sliding & rotating with directional BHA & 17" tricone bit from 634' to 671' MD, POOH, changed out to slick BHA, took gyro survey from 669' to 456' MD every 30', POOH, changed out to directional BHA with 17" bit, oriented toolface with gyro.

Present operations:

Open hole sliding at 716' MD.

Forecast operations:

Continue open hole to @ 936' MD.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

TGTLAB electric hand arrived to location & installed new PC for online transmission. Slb directional drillers slide to follow pilot hole. ROP avg. 9 ft/hr.

Well Cost:

AFE	4 660 640	US\$
DAILY	68 676	US\$
CUMULATED	1 456 211	US\$



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REPORT N° 11

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 936
Depth @ 06h00 (ft): 965

OPERATIONS DATE : 14-Jan-14
REPORT DATE : 15-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 17

Operations summary:

Continued open hole sliding with 17" Tricone bit from 671' to 779' MD. POOH directional BHA with 17" tricone, changed out to slick BHA, RIH, took gyro survey loser to bottom, POOH, changed out to 17" directional BHA & new PDC bit, performed MWD shallow test, failed, change out to back up slim pulse, Ok.

Present operations:

Taking gyro survey. Current hole depth 965' MD (912' TVDss).

Forecast operations:

Drill ahead to 13 3/8" csg point (@ 2000' MD).

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.4
Viscosity (sec): 41
Filtrate (ml): 7.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

So far have drilled 158' MD (157' TVDss) of mainly Clyst sequences Lobitos Mbr - Talara Fm, & 509' MD (506' TVDss) 17" section section, 4 units (C1-C2) as background gas. Last sample 960' MD, 100% Clyst. TGTlab electrification on the way with supplies to configure online transmission. ROP avg. 47 ft/hr.

Well Cost:

AFE	4 660 640	US\$
DAILY	63 624	US\$
CUMULATED	1 519 835	US\$



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REPORT N° 12

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 936
Depth @ 24h00 (ft): 1540
Depth @ 06h00 (ft): 1732

OPERATIONS DATE : 15-Jan-14
REPORT DATE : 16-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 604
Cond: 18" 456
DRILLING DAYS: 18

Operations summary:

Continued opening hole sliding from 779 to 936' MD. Drilled sliding & rotating from 936' to 1540' MD.

Present operations:

Drilling rotating at 1805' MD (1592' TVDss).

Forecast operations:

Drill ahead with to section TD @ 2000' MD. Condition hole to run 13 3/8" csg.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	930 - 1140	54	100						NF	CLYST: olv blk, brn'sh blk, loc olv gy, blk/sbblky, loc sbpity, amor i/p, md frm/frm, loc md sft, micmic, miccarb, n/sl calc i/p, smooth/sl earthy surf. TG: 3 C1: 250 C2: 2 C3: 0 C4: 0 C5: 0
TALARA	1140 - 1260	98	40		10	30			NF	CLYST: olv blk, loc olv gy, occ med dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty i/p, micmic, miccarb, v sl calc, sl earthy surf. SST: md dk gy, loc m gy, 100% f, tr m, hyal, smky, mnrgn'sh gy & dk lith grns, sbang/sbrnd, w srt, arg mtx, mnrgn calc cmt, md consl/md fri, p vis por. SD: smky, hyal, mnrgn'sh gy & dk lith grns, 100% m, tr c, sbrnd, loc sbang, w srt. TG: 6 C1: 554 C2: 1 C3: 0 C4: 0 C5: 0
TALARA	1260 - 1710	71	100		TR				NF	CLYST: olv blk, loc olv gy, occ med dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, loc slty, micmic, loc miccarb, v sl calc, sl earthy surf. SST: lt gy/md gy, 100%vf/f, hyal, smky, mnrgn'sh gy & dk lith grns, sbang, w srt, arg mtx, calc cmt, md consl/md fri, p vis por. TG: 4 C1: 384 C2: 4 C3: 2 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
485.00	2.31	138.74	484.75	-434.75	14.70	-11.04	9.70
515.00	2.58	145.79	514.73	-464.73	15.97	-12.06	10.48
545.00	2.73	149.95	544.69	-494.69	17.35	-13.23	11.22
575.00	2.87	153.91	574.66	-524.66	18.78	-14.53	11.90
605.00	3.30	156.37	604.61	-554.61	20.35	-15.99	12.58
635.00	3.66	157.49	634.56	-584.56	22.11	-17.67	13.29
665.00	3.54	157.46	664.50	-614.50	23.94	-19.41	14.01
682.00	4.57	158.82	681.46	-631.46	25.11	-20.52	14.46
712.00	5.37	159.03	711.34	-661.34	27.63	-22.95	15.39
742.00	6.80	159.87	741.17	-691.17	30.74	-25.93	16.51
772.00	7.81	160.14	770.93	-720.93	34.47	-29.51	17.81
807.00	9.64	160.81	805.52	-755.52	39.68	-34.52	19.58
820.00	10.33	161.03	818.33	-768.33	41.90	-36.65	20.32
850.00	12.80	159.82	847.72	-797.72	47.85	-42.31	22.34
880.00	14.86	159.12	876.84	-826.84	54.97	-49.02	24.86
996.01	20.73	160.64	987.26	-937.26	90.25	-82.32	36.98
1092.66	26.56	162.07	1075.75	-1025.75	128.86	-119.05	49.31
1188.73	30.31	166.07	1160.23	-1110.23	174.34	-163.04	61.76
1285.86	31.51	173.30	1243.59	-1193.59	223.51	-212.05	70.63
1382.41	34.82	177.90	1324.41	-1274.41	274.99	-264.68	74.59
1475.88	39.40	183.59	1398.96	-1348.96	329.35	-321.00	73.71

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 9.6
Viscosity (sec): 51
Filtrate (ml): 7.0

1568.44	43.21	189.92	1468.51	-1418.51	387.32	-381.58	66.40
1664.41	43.28	194.30	1538.43	-1488.43	448.93	-445.84	52.61

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST	FROM SURFACE				
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks:

So far have drilled 998' MD (837' TVDss) of mainly Cyst sequences with seldom Sst-Sd stringers interbedded Lobitos Mbr - Talara Fm, & 1349' MD (1186' TVDss) 17" section section, 5 units (C1-C2) as background gas. Last sample 1710' MD, 100% Cyst. TGTlab mudlogging unit 100% ready. ROP avg. 70 ft/hr.

Well Cost:

AFE	4 660 640	US\$
DAILY	64 800	US\$
CUMULATED	1 584 635	US\$



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REPORT N° 13

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 1540
Depth @ 24h00 (ft): 2024
Depth @ 06h00 (ft): 2024

OPERATIONS DATE : 16-Jan-14
REPORT DATE : 17-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 484
Cond: 18" 456
DRILLING DAYS: 19

Operations summary:

Continued drilling sliding & rotating from 1540' to 2024' MD (17" TD section). Circulated & conditioned hole, POOH & L/D directional BHA, M/U & RIH slick BHA.

Present operations:

PO slick BHA at 1500' MD.

Forecast operations:

POOH, L/D slick BHA, RIH 13 3/8" csg.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	1710 - 1860	122	100							NF	CLYST: olv blk, olv gy, loc brn'sh blk, blk/sbbiky, loc sbtab, sblam, occ sbply, frm/md frm, loc slty, micmic, miccarb i/p, v sl calc, sl earthy surf. TG: 8 C1: 763 C2: 13 C3: 2 C4: 0 C5: 0
TALARA	1860 - 2024	93	90		TR			10		NF	CLYST: olv blk, olv gy, loc med gy, blk/sbbiky, loc sbtab, amor i/p, frm/md frm, loc slty, micmic, loc miccarb, v sl calc, sl calc. SST: md dk gy, md gy, 100% vf/f, hyal, smky, mnr gn'sh & dk lith grns, sbang, loc arg mtx, cal cmt, w srt, md consl/md fri, p vis por. DOL: olv blk, olv gy, loc md gy, blk/sbbiky, loc sbtab, amor i/p, frm/md frm, loc slty, micmic, loc miccarb, v sl calc. TG: 27 C1: 2622 C2: 33 C3: 19 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1758.41	43.63	194.95	1606.67	-1556.67	509.69	-508.39	36.29
1854.50	45.11	195.43	1675.35	-1625.35	573.54	-573.24	18.68
1951.00	47.56	196.30	1741.98	-1691.98	640.37	-640.37	-0.41
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.0
Viscosity (sec): 57
Filtrate (ml): 7.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

So far have drilled 1217' MD (985' TVDss) of mainly Clyst sequences with seldom Sst & Dol stringers interbedded Lobitos Mbr - Talara Fm, & 1568' MD (1334' TVDss) 17" section section, 34 units (C1-C3) as background gas. Last sample 2024' MD, 90% Clyst, 10% Dol. TGTlab mudlogging unit 100% ready. ROP avg. 88 ft/hr.

Well Cost:

AFE 4 660 640 US\$
DAILY 75 890 US\$
CUMULATED 1 660 525 US\$



REPORT N° 14

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2024
Depth @ 24h00 (ft): 2024
Depth @ 06h00 (ft): 2024

OPERATIONS DATE : 17-Jan-14
REPORT DATE : 18-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Cond: 18" 456
DRILLING DAYS: 20

Operations summary:

Continued RIH slick BHA with 17" Tricone bit from 652' to 1600' MD, no restriction, continued RIH to 2024' MD circulating, circulated & conditioned mud, POOH slick BHA, POOH circulating from 2024' to 860' MD, R/U ITS casing tools & fill up tool, run 13 3/8" casing to 1680' MD, restriction at 1680' MD, connected fill up tool & run casing 13 3/8" circulating from 1680' to 1800' MD.

Present operations:

Performing cement job.

Forecast operations:

Finish cement job, work on BOP's & wellhead section.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.0
Viscosity (sec): 57
Filtrate (ml): 8.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Estimated time to start drilling 12 1/4" section, Monday morning. TGTlab mudlogging unit 100% ready.

Well Cost:

AFE	4 660 640	US\$
DAILY	170 885	US\$
CUMULATED	1 831 410	US\$



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REPORT N° 15

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2024
Depth @ 24h00 (ft): 2024
Depth @ 06h00 (ft): 2024

OPERATIONS DATE : 18-Jan-14
REPORT DATE : 19-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 13 3/8" 2023
DRILLING DAYS: 21

Operations summary:

Continued running 13 3/8" casing from 1800' to 2024' MD circulating, performed cement job with halliburton. Cut & welded ring between 18" conductor & 13 3/8" csg, installed slip lock casing head, tested with 1000 psi by 5 min, Ok. N/U 13-5/8" BOP's.

Present operations:

Pressure test BOP's.

Forecast operations:

Finish BOP's test, M/U 5" stands, M/U directional BHA.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.0
Viscosity (sec): 45
Filtrate (ml): 9.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Estimated time to start drilling 12 1/4" section, tomorrow morning. TGTlab mudlogging unit 100% ready.

Well Cost:

AFE 4 660 640 US\$
DAILY 159 487 US\$
CUMULATED 1 990 897 US\$



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REPORT N° 16

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2024
Depth @ 24h00 (ft): 2024
Depth @ 06h00 (ft): 2024

OPERATIONS DATE : 19-Jan-14
REPORT DATE : 20-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 13 3/8" 2023
DRILLING DAYS: 22

Operations summary:

Continued BOP test, ok. Pepesa changed out brand new drum of drilling line, Upload 5" DP from Perla Tender to platform, measured & M/U 5" DP in stands.

Present operations:

M/U 12 1/4" directional BHA.

Forecast operations:

M/U & RIH directional BHA with 12 1/4" PDC bit, drill out cement (DOC), perform CIT, drill 10' formation, perform FIT.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.0
Viscosity (sec): 45
Filtrate (ml): 9.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44

Remarks

Estimated time to start drilling 12 1/4" section, tonight. TGTlab mudlogging unit 100% ready.

Well Cost:

AFE 4 660 640 US\$
DAILY 83 154 US\$
CUMULATED 2 074 051 US\$



REPORT N° 18

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2024
Depth @ 24h00 (ft): 2246
Depth @ 06h00 (ft): 2500

OPERATIONS DATE : 20-Jan-14
REPORT DATE : 21-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 222
Csg: 13 3/8" 2023
DRILLING DAYS: 23

Operations summary:

M/U directional BHA with new 12 1/4" PDC bit, RIH to 1977' MD (TOC), drilled out cement & csg accessories to 2004' MD, performed CIT, ok, continued DOC to 2024' MD, drilled rotating from 2024' to 2034' MD. Performed FIT, 315 psi, EMW: 13.5 ppg, Ok. Continued drilling rotating & sliding from 2024' to 2246' MD.

Present operations:

Drilling sliding at 2550' MD (2047' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA FM LOBITOS MBR	2024 - 2117	92	100				TR		NF	CLYST: olive blk, occ olive gy, blk/sbbly, occ tab & sblam, md frm/md sft, micmic, miccarb, v sl calc/non calc, sl earthy surf. DOL: dk yell'sh brn, pale yell'sh brn, sbbly, md hd/hd, mass, w dk lith incl, v sl micmic, sl earthy surf. TG: 5 C1: 433 C2: 7 C3: 3 C4: 0 C5: 0
TALARA FM TEREBRATULA MBR	2117 - 2520	123	70	10	20		TR		NF	CLYST: olv blk, loc md gy, occ olv gy, sbbly/blk, md frm/md sft, micmic, miccarb, sl calc, earthy/sl earthy surf.. SST: md gy, loc md lt gy, 100% vt/f qtz gr, hyal, smky, mnr gy'sh & dk lith grns, sbang/sbrnd, w srt, arg mtz, calc cmt, md fri, p vis por. DOL: dk yell'sh brn, pale yell'sh brn, sbbly, md hd/hd, mass, w dk lith incl, v sl micmic, sl earthy surf. SD: hyal, smky, occ gy'sh lith grns, occ wh'sh hyal, 70% vt/f, 30% m, sbang/sbrnd, w/f srt. TG: 10 C1: 976 C2: 17 C3: 14 C4: 1 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2137.46	51.08	193.11	1863.52	-1813.52	777.96	-777.12	-36.19
2232.19	53.60	189.60	1921.40	-1871.40	852.15	-850.63	-50.91
2328.90	56.70	189.22	1976.66	-1926.66	931.11	-928.91	-63.88
2422.44	60.57	189.78	2025.33	-1975.33	1010.62	-1007.67	-77.07

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.0
Viscosity (sec): 46
Filtrate (ml): 7.8

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55

Remarks:

So far have drilled 433' MD (246' TVDss) of mainly Clyst sequences interbedded with Sst-Sd thin bodies & some Dol Terebratula Mbr - Talara Fm, & 526' MD (301' TVDss) 12 1/4" section section, 9 units (C1-C3) as background gas & up to 272 units (C1-C4) as formation gas. Last sample 2520' MD, 20% Clyst, 10% Sst, 70% Sd, NF. ROP avg. 110 ft/hr.

Well Cost:

AFE 4 660 640 US\$
DAILY 96 890 US\$
CUMULATED 2 170 941 US\$



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REPORT N° 19

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2246
Depth @ 24h00 (ft): 3114
Depth @ 06h00 (ft): 3340

OPERATIONS DATE : 21-Jan-14
REPORT DATE : 22-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 868
Csg: 13 3/8" 2023
DRILLING DAYS: 24

Operations summary:

Continued drilling rotating & sliding from 2246' to 3114' MD. At 2580' MD Pepesa repaired overheating main electrical supply cable from barge to platform, performed trip to shoe while fixed problem.

Present operations:

Drilling sliding at 3365' MD.

Forecast operations:

Drill ahead, performed wiper trip to shoe every 1500' drilled.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA FM TEREBRATULA MBR	2520 - 2585	88	50		10	40		TR			CLYST: md dk gy, olive blk, loc dk gy, blk/sbblky, loc sbtab/sblam, occ sbpity, frm/md frm, micmic, miccarb, non/v sl calc, sl earthy surf. SST: md lt gy, lt gy, occ md gy, 100% v/f, hyal, smky, dk & gy'sh lith grns i/p, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, p vis por. DOL: md yell'sh brn, dk yell'sh brn, blk/sbpity, md hd, mass, irr fract i/p, sl earthy, w dk mnrl incl. SD: hyal, smky, mnrl wh'sh hyal, 60% f, 40% m, tr c, sbang/sbrnd, f/p srt. FLUO: nvos, pin point pl yell'sh nat fluo, v sl, wk, fnt, even, pl yell'sh wh cut fluo, pl yel rr under U. V. lt, nvrr at nat lt, POS. TG: 99 C1: 7966 C2: 536 C3: 305 C4: 25 C5: 2
CHACRA FM	2585 - 3330	100	100					TR		NF	CLYST: md dk gy, loc olv blk, occ olv gy, blk/sbblky, loc sbtab/sblam, md frm/frm, loc md sft, loc slty i/p, micmic, miccarb, sl calc, sl earthy surf. DOL: md yell'sh brn, dk yell'sh brn, blk/sbpity, md hd, mass, irr fract i/p, sl earthy, w dk mnrl incl. TG: 28 C1: 2396 C2: 76 C3: 49 C4: 17 C5: 10

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2516.63	63.19	188.33	2069.73	-2019.73	1093.42	-1089.70	-90.13
2706.05	64.64	184.32	2153.04	-2103.04	1263.44	-1258.74	-108.83
2799.13	64.08	183.81	2193.32	-2143.32	1347.34	-1342.45	-114.78
2897.19	64.51	183.72	2235.85	-2185.85	1435.68	-1430.61	-120.58
2993.70	64.92	183.52	2277.07	-2227.07	1522.93	-1517.70	-126.09
3087.37	64.14	184.38	2317.35	-2267.35	1607.49	-1602.06	-131.92
3184.48	63.49	184.77	2360.20	-2310.20	1694.63	-1688.93	-138.87

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.4
Viscosity (sec): 48
Filtrate (ml): 7.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

So far have drilled 780' MD (342' TVDss) of mainly Clyst sequences & seldom Dol stringers Chacra Fm & 1341' MD (645' TVDss) 12 1/4" section section, 28 units (C1-C5) as background gas. Last sample 3330' MD, 100% Clyst, NF. ROP avg. 100 ft/hr.

Well Cost:

AFE	4 660 640	US\$
DAILY	90 397	US\$
CUMULATED	2 261 338	US\$



REPORT N° 20

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3114
Depth @ 24h00 (ft): 3721
Depth @ 06h00 (ft): 3721

OPERATIONS DATE : 22-Jan-14
REPORT DATE : 23-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 607
Csg: 13 3/8" 2023
DRILLING DAYS: 25

Operations summary:

Continued drilling rotating & sliding from 3113' to 3721' MD. Circulated & conditioned hole. POOH directional BHA, L/D 12 1/4" PDC to check for plugged nozzles. Current hole depth 3721' MD (2550' TVDss).

Present operations:

RIH at 3300' MD.

Forecast operations:

RIH to bottom, resume drilling 12 1/4" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA FM	3330 - 3720	89	100							NF	CLYST: md dk gr, olv blk, occ dk gy, occ gy, blk/sbbiky, loc sbbiky/sblam, md frm/frm, slty i/p, micmic, miccarb i/p, n calc, sl earthy surf. TG: 56 C1: 4737 C2: 179 C3: 121 C4: 37 C5: 15

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3276.98	64.20	184.37	2400.98	-2350.98	1777.66	-1771.69	-145.48
3370.56	64.04	184.28	2441.82	-2391.82	1861.85	-1855.65	-151.83
3467.62	63.31	183.44	2484.87	-2434.87	1948.83	-1942.44	-157.69
3561.18	62.92	184.06	2527.18	-2477.18	2032.27	-2025.71	-163.15
3657.80	63.27	184.48	2570.90	-2520.90	2118.43	-2111.63	-169.56

Mud information:

Type: Clay seal plus
Mud Weight (ppg): 10.7
Viscosity (sec): 50
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

So far have drilled 1135' MD (501' TVDss) of mainly Clyst sequences Chacra Fm & 1696' MD (804' TVDss) 12 1/4" section section, 58 units (C1-C5) as background gas. Last sample 3720' MD, 100% Clyst, NF. ROP avg. 82 ft/hr. Estimated time to resumed rilling @ 11:00 hrs today.

Well Cost:

AFE 4 660 640 US\$
DAILY 94 548 US\$
CUMULATED 2 355 886 US\$



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REPORT N° 21

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3721
Depth @ 24h00 (ft): 4233
Depth @ 06h00 (ft): 4409

OPERATIONS DATE : 23-Jan-14
REPORT DATE : 24-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 512
Csg: 13 3/8" 2023
DRILLING DAYS: 26

Operations summary:

M/U & RIH directional BHA with 12 1/4" PDC bit (changed nozzles to 5x16), changed Slimpulse to 2023' MD. Circulated & continued RIH to 3721' MD, tight hole, reamed down to bottom, circulated & swept hole. Resumed drilling rotating & sliding from 3721' to 4233' MD.

Present operations:

Drilling rotating at 4409' MD (2864' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA FM	3720 - 4410	87	100							NF	CLYST: md dk gy, loc olv gy, dk gy, occ olv blk, blk/sbbkly, occ sbbk/sblam, mod frm/firm, slty, micmic, miccarb, n calc/v sl calc, sl earthy surf. TG: 25 C1: 2123 C2: 82 C3: 53 C4: 21 C5: 12

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3753.23	64.06	184.36	2613.23	-2563.23	2203.96	-2196.91	-176.15
3846.66	62.59	184.51	2655.17	-2605.17	2287.44	-2280.14	-182.61
3941.07	63.01	183.71	2698.33	-2648.33	2371.41	-2363.89	-188.62
4032.92	64.09	183.69	2739.24	-2689.24	2453.63	-2445.95	-193.93
4130.72	63.36	184.00	2782.53	-2732.53	2541.32	-2533.45	-199.81
4224.92	62.03	183.60	2825.74	-2775.74	2625.01	-2616.97	-205.36
4317.34	61.22	183.30	2869.67	-2819.67	2706.32	-2698.14	-210.25

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 10.7
Viscosity (sec): 57
Filtrate (ml): 8.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

So far have drilled 1824' MD (815' TVDss) of mainly Clyst sequences Chacra Fm & 2385' MD (1118' TVDss) 12 1/4" section section, 25 units (C1-C5) as background gas. Last sample 4410' MD, 100% Clyst, NF. ROP avg. 87 ft/hr. Rio Bravo Fm. top expected at @ 3180' TVDss according to prognosis.

Well Cost:

AFE	4 660 640	US\$
DAILY	93 630	US\$
CUMULATED	2 449 516	US\$


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LOBITOS FIELD
LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4233
Depth @ 24h00 (ft): 4408
Depth @ 06h00 (ft): 4625

OPERATIONS DATE : 24-Jan-14
REPORT DATE : 25-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 175
Csg: 13 3/8" 2023
DRILLING DAYS: 27

Operations summary:

Continued drilling rotating & sliding from 4233' to 4408' MD, performed wiper trip to shoe, Savia M&R mechanics continued repairing crane of perla barge. RIH to bottom, circulated prior resume drilling.

Present operations:

Drilling sliding at 4630' MD (2974' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA FM	4410 - 4620	61	100							NF	CLYST: olv gy, loc md dk gy, occ dk gy, blkly/sbbiky, loc sbtab, frm/md frm, slty, micmic, miccarb, v sl calc i/p, earthy surf. TG: 21 C1: 1757 C2: 74 C3: 49 C4: 21 C5: 11

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4411.18	60.05	183.53	2915.68	-2865.68	2788.09	-2779.77	-215.12
4504.24	60.20	184.07	2962.04	-2912.04	2868.77	-2860.29	-220.47

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 10.8
Viscosity (sec): 54
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks:

So far have drilled 2045' MD (925' TVDss) of mainly Clyst sequences Chacra Fm & 2606' MD (1228' TVDss) 12 1/4" section section, 21 units (C1-C5) as background gas. Last sample 4620' MD, 100% Clyst, NF. ROP avg. 61 ft/hr. Rio Bravo Fm. top expected at @ 4983' MD (3180' TVDss) according to prognosis.

Well Cost:

AFE	4 660 640	US\$
DAILY	76 952	US\$
CUMULATED	2 526 468	US\$


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LOBITOS FIELD
LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/M. Adrianzen
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4408
Depth @ 24h00 (ft): 5014
Depth @ 06h00 (ft): 5014

OPERATIONS DATE : 25-Jan-14
REPORT DATE : 26-Jan-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 606
Csg: 13 3/8" 2023
DRILLING DAYS: 28

Operations summary:

Continued drilling rotating & sliding from 4408' to 5014' MD (3173' TVDss). Fixed washed stand pipe mud hose.

Present operations:

PO directional BHA at 3500' MD.

Forecast operations:

POOH, L/D directional BHA, M/U & RIH slick BHA, condition hole to run 9 5/8" csg.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA FM	4620 - 5014	77	100							NF	CLYST: olv gy, loc md dk gy, occ dk gy, blk/sbbkly, loc sblab, frm/md frm, slty, micmic, miccarb, v sl calc i/p, earthy surf. TG: 43 C1: 3530 C2: 138 C3: 101 C4: 46 C5: 22

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4598.22	60.28	184.20	3008.68	-2958.68	2950.36	-2941.66	-226.36
4691.10	60.35	183.70	3054.68	-3004.68	3031.05	-3022.16	-231.91
4787.70	59.73	184.71	3102.92	-3052.92	3114.74	-3105.63	-238.05
4881.85	57.68	185.22	3151.83	-3101.83	3195.18	-3185.77	-245.01
4948.23	57.13	185.27	3187.59	-3137.59	3251.10	-3241.46	-250.12
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 10.8
Viscosity (sec): 49
Filtrate (ml): 7.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

So far have drilled 2429' MD (925' TVDss) of mainly Clyst sequences Chacra Fm & 2606' MD (1228' TVDss) 12 1/4" section section, 21 units (C1-C5) as background gas. Last sample 5014' MD, 100% Clyst. ROP avg. 77 ft/hr. 12 1/4" section TD defined by drilling department.

Well Cost:

AFE 4 660 640 US\$
DAILY US\$
CUMULATED US\$



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REPORT N° 24

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	26-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	27-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	5014	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5014	Csg: 13 3/8"	2023
Depth @ 06h00 (ft):	5014	DRILLING DAYS:	29

Operations summary:

POOH & L/D directional BHA backreaming all time, M/U & RIH slick BHA with 12 1/4" tricone bit from surface to 4600' MD.

Present operations:

PO slick BHA at 3700' MD.

Forecast operations:

POOH & L/D slick BHA, run 9 5/8" csg, perform cement job.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.0
Viscosity (sec): 46
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

12 1/4" section TD defined by drilling department. Estimated time to resume drilling @ feb 29th.

Well Cost:

AFE	4 660 640	US\$
DAILY	92 819	US\$
CUMULATED	2 703 987	US\$



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REPORT N° 25

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	27-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	28-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	5014	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5014	Csg: 13 3/8"	2023
Depth @ 06h00 (ft):	5014	DRILLING DAYS:	30

Operations summary:

Continued RIH slick BHA from 4600' to 5014' MD, POOH, retrieved wear bushing. Cia. ITS R/U equipment on rig floor, Run 9-5/8" casing to shoe. Installed fill up tool components.

Present operations:

Running 13 3/8" csg at 3900' MD.

Forecast operations:

Perform cement job, work on 9 5/8" BOP's, install casing head spool.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.0
Viscosity (sec): 50
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

12 1/4" section TD defined by drilling department. Estimated time to resume drilling @ feb 29th.

Well Cost:

AFE	4 660 640	US\$
DAILY	73 896	US\$
CUMULATED	2 777 883	US\$



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REPORT N° 28

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	29-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen	REPORT DATE :	30-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	5014	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5014	Csg: 9 5/8"	5014
Depth @ 06h00 (ft):	5014	DRILLING DAYS:	32

Operations summary:

Worked on BOP's, tested all BOP components, P/U 5" DP from perla barge to platform.

Present operations:

M/U 5" stands & rack in derrick.

Forecast operations:

M/U 8 1/2" directional BHA with new PDC bit, RIH, DOC & 9 5/8" csg accessories, perform CIT, drill some formation, perform FIT, Drill 8 1/2" section.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.0
Viscosity (sec): 42
Filtrate (ml): 5.2

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks:

Estimated time to resume drilling tonight.

Well Cost:

AFE	4 660 640	US\$
DAILY	90 326	US\$
CUMULATED	3 112 766	US\$


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LOBITOS FIELD
LO6-34D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	30-Jan-14
Mud Loggers:	R. Otoyá/M. Adrianzen/G. Cardoza	REPORT DATE :	31-Jan-14
Rig Contractor:	RIG 40	SPUD DATE:	29-Dec-13
Depth @ 00h00 (ft):	5014	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5014	Csg: 9 5/8"	5014
Depth @ 06h00 (ft):	5014	DRILLING DAYS:	33

Operations summary:

M/U 5" stands. P/U & M/U directional BHA with new 8 1/2" Smith PDC bit. Performed MWD shallow test, Ok. RIH to 3942' MD (Top of cement). Drilled out cement, observed on shakers top (black) & bottom (Red) plugs, continued drilling out cement from 3942' to 4360' MD.

Present operations:

Drilled 10' formation to 5024' MD. Perform FIT.

Forecast operations:

Drill ahead.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.0
Viscosity (sec): 42
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93

Remarks

Top of cement found at 3942' MD.

Well Cost:

AFE	4 660 640	US\$
DAILY	92 592	US\$
CUMULATED	3 205 358	US\$



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REPORT N° 30

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5014
Depth @ 24h00 (ft): 5653
Depth @ 06h00 (ft): 5797

OPERATIONS DATE : 31-Jan-14
REPORT DATE : 1-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 639
Csg: 9 5/8" 5014
DRILLING DAYS: 34

Operations summary:

Continued drilling out cement (DOC) from 4360' to 4985' MD, performed CIT, ok; continued DOC from 4985' to 5014' MD, drilled formation from 5014' to 5024' MD, recovered geology sample, confirmed 100% formation, performed FIT, ok. Continued drilling rotating & sliding from 5014' to 5653' MD.

Present operations:

Drilling rotating at 5831' MD (3661'TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	5014 - 5090	73	80	10	10						CLYST: md dk gy, olv gy, occ md gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty, micmic, miccarb, v sl calc, sl earthy surf. SLST: md gy, md dk gy, blk/sbblky, frm/md frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. SST: md gy, loc md lt gy, 100% vf/f, hyal, smky, mnr dk & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md consl, w coal veins incl, drty i/p, pv is por. TG: 3 C1: 263 C2: 10 C3: 5 C4: 2 C5: 2
RIO BRAVO	5090 - 5170	100	40	20	40	TR				5 - NF	CLYST: md dk gy, olv gy, occ md gy, blk/sbblky, loc sbtab, frm/md frm, micmic, miccarb, v sl calc, slty, earthy surf. SLST: md gy, md dk gy, blk/sbblky, frm/md frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. SST: lt gy, loc md lt gy, 100% vf/f, hyal, smky, mnr dk & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md consl/md fri, p vis por. SD: hyal, smky, mnr wh'sh hyal & gy'sh lith grns, 100% vf/f, sbang/sbrnd, w srt. FLUO: nvos, pin point, dull, yel nat fluo, crsh, wk, fnt, even, pl yel cut, mky wh rr under U. V. lt, nvrr at nat lt, vpos. TG: 6 C1: 527 C2: 20 C3: 12 C4: 3 C5: 3
RIO BRAVO	5170 - 5260	132	80	10	10					NF	CLYST: md dk gy, olv gy, occ md gy, brn'sh gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty, micmic, miccarb, v sl calc, sl earthy surf. SLST: md gy, md dk gy, blk/sbblky, frm/md frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. SST: md lt gy, loc md gy, 100% vf/f, hyal, smky, mnr wh'sh hyal, dk & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md consl/md fri, drty, p vis por. TG: 11 C1: 901 C2: 48 C3: 28 C4: 6 C5: 2

Surveys:

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.0

5122.53	55.93	184.26	3282.53	-3332.53	3397.26	-3387.14	-261.98
5219.75	55.67	184.34	3337.18	-3387.18	3477.67	-3467.33	-268.00
5313.64	54.20	183.80	3391.12	-3441.12	3554.51	-3543.98	-273.46
5403.36	53.04	184.04	3444.33	-3494.33	3626.74	-3616.04	-278.40
5498.90	53.28	183.79	3501.62	-3551.62	3703.20	-3692.32	-283.62
5592.64	52.53	183.85	3558.15	-3608.15	3777.97	-3766.93	-288.60
5688.02	51.12	184.05	3617.10	-3667.10	3852.94	-3841.73	-293.76

Viscosity (sec): 46
Filtrate (ml): 5.4

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94

Remarks

So far have drilled 741' MD (447' TVDss) of mainly Sst-SD bodies sequences interbedded with Clyst & some Slst with fluo up to 5% (nvos, pin point, pl yel nat fluo, v slow, wk, fnt, even, pl yel cut fluo, pl yel rr under U. V. It, nvrr at nat It, vpos.) of Poss. Rio Bravo Fm & 817' MD (488' TVDss) 8 1/2" section, 12 units (C1-C5) as background gas. Last sample 5820' MD, 70% Sst, 30% Sd, NF. ROP avg. 80 ft/hr. No gas readings from 5381' to 5448' MD due problems with chromatograph software.

Well Cost:

AFE	4 660 640	US\$
DAILY	85 334	US\$
CUMULATED	3 290 692	US\$



REPORT N° 31

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5653
Depth @ 24h00 (ft): 5953
Depth @ 06h00 (ft): 5953

OPERATIONS DATE : 1-Feb-14
REPORT DATE : 2-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 300
Csg: 9 5/8" 5014
DRILLING DAYS: 35

Operations summary:

Continued drilling rotating & sliding from 5653' to 5857' MD, directional BHA hanged & stalled every time while slide increasing pressure, decided to perform wiper trip to shoe without problems. Resumed drilling from 5857' to 5953' MD, same problem while sliding, increased pressure & P/U 4 times due stalling mud motor, hard to set toolface, SLB recommended to change BHA, POOH directional BHA without problems, L/D & check directional BHA & PDC bit, changed out to new PDC bit, mud motor & modified BHA.

Present operations:

Circulating on bottom prior resume drilling, current hole depth 5953' MD (3734' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5820 - 5830	44	10		70	20			NF	CLYST: dk gy, md dk gy, occ gry'sh blk, blk/sbblky, loc shtab, frm/md frm, loc slty, micmic, miccarb, n calc, sl earthy surf. SST: md lt gy, lt gy, loc md gy, 100% vff, hyal, smky, mnr gy'sh & gn'sh gy lith grns, sbrnd, w srt, arg mtz i/p, calc cmt, md fri/md consl, p vis por. SD: hyal, smky, mnr gy'sh lith grns, 70% f, 30% m, tr c, sbang/sbrnd, w/f srt. TG: 14 C1: 1204 C2: 36 C3: 20 C4: 6 C5: 4
RIO BRAVO	5830 - 5860	98	70		20	10			NF	CLYST: dk gy, md dk gy, loc md gy, occ oliv gy, blk/sbblky, loc shtab/sblam, frm/md frm, loc slty, micmic, miccarb i/p, n calc, sl earthy surf. SST: md lt gy, lt gy, loc md gy, 100% vff, hyal, smky, mnr gy'sh & gn'sh gy lith grns, sbrnd, w srt, arg mtz i/p, calc cmt, md fri/md consl, p vis por. SD: hyal, smky, mnr gy'sh lith grns, 80% f, 20% m, tr c, sbang/sbrnd, w/f srt. TG: 7 C1: 585 C2: 20 C3: 11 C4: 4 C5: 4
RIO BRAVO	5860 - 5953	123	10		20	70			TR - 15	CLYST: dk gy, md dk gy, loc md gy, occ oliv gy, blk/sbblky, loc shtab/sblam, frm/md frm, loc slty, micmic, miccarb i/p, n calc, sl earthy surf. SST: lt gy, v lt gy, loc md lt gy, 100% vff, tr m, hyal, smky, mnr dk & gn'sh gy lith grns, sbrnd, w srt, arg mtz, abd calc cmt, fri/md fri, p vis por, w shell frag incl i/p. SD: hyal, smky, wh'sh hyal i/p, 50% m, 40% f, 10% c, sbang/sbrnd, p srt. FLUO: nvos, pin point, pl yel nat fluo, crsh, wk, pl, even, yel'sh wh cut, mky wh rr under U. V. It, nvrr at nat lt, POS. TG: 9 C1: 742 C2: 35 C3: 23 C4: 5 C5: 3

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5789.02	49.88	182.32	3681.35	-3731.35	3930.86	-3919.54	-298.10
5884.88	49.43	181.24	3743.41	-3793.41	4003.84	-3992.56	-300.38

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.2
Viscosity (sec): 48
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	807	805.25	-755.25	-38.61	6.44

MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94

Remarks

So far have drilled 863' MD (520' TVDss) of mainly Sst-Sd bodies up to 15% Fluo (nvos, pin point, pl yel nat fluo, crsh, wk, pl, even, yel'sh wh cut, mky wh rr under U. V. It, nvrr at nat lt, pos) secuencias interbeded with Clyst of Rio Bravo Fm & 939' MD (561' TVDss) 8 1/2" section, 9 units (C1-C5) as background gas. Last sample 5953' MD, 10% Clyst, 20% Sst, 70% Sd, 15% Fluo. ROP avg. 122 ft/hr.

Well Cost:

AFE	4 660 640	US\$
DAILY	75 745	US\$
CUMULATED	3 366 437	US\$



REPORT N° 32

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5953
Depth @ 24h00 (ft): 6291
Depth @ 06h00 (ft): 6302

OPERATIONS DATE : 2-Feb-14
REPORT DATE : 3-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 338
Csg: 9 5/8" 5014
DRILLING DAYS: 36

Operations summary:

Continued drilling rotating & sliding from 5953' to 6291' MD.

Present operations:

RIH 5700' MD. Current hole depth 6302' MD (3980' TVDss).

Forecast operations:

RIH, control mud loss, resume drilling.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Doi %		Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	5953 - 6010	71	20		40	40					CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblk, loc sbrtab, frm/md frm, slty, micmic, miccarb, n calc/sl calc i/p., sl earthy surf. SST: lt gy, v lt gy, loc md lt gy, 100% f, tr m, hyal, smky, mnr dk & gn'sh gy lith grns, sbrnd, w srt, arg mtz, abd calc cmt, fri/md fri, p vis por. SD: hyal, smky, wh'sh hyal i/p, 60% m, 30% f, 10% c, sbang/sbrnd, p srt. TG: 4 C1: 317 C2: 15 C3: 10 C4: 5 C5: 4
RIO BRAVO - POSS RIO BRAVO SHALY	6010 - 6090	57	60		30	10					CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblk, loc sbrtab, frm/md frm, slty, micmic, miccarb, n calc/sl calc i/p., sl earthy surf. SST: md lt gy, lt gy, loc v lt gy, 100% f, tr m, hyal, smky, mnr dk & gn'sh lith grns, sbang/sbrnd, w srt, arg mtz, calc cmt, fri/md fri, p vis por. SD: smky, hyal, occ wh'sh hyal, 60% f, 40% m, sbang/sbrnd, f/p srt. TG: 7 C1: 602 C2: 24 C3: 13 C4: 5 C5: 4
POSS RIO BRAVO SHALY	6090 - 6180	74	60	10	30						CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblk, loc sbrtab/sblam, frm/md frm, slty, micmic, miccarb, non calc/sl calc i/p., sl earthy surf. SLST: md dk gy, md gy, blk/sbblk, md frm/frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. SST: md lt gy, lt gy, loc v lt gy, 100% f, tr m, hyal, smky, mnr dk & gn'sh lith grns, sbang/sbrnd, w srt, arg mtz, calc cmt, fri/md fri, p vis por. TG: 9 C1: 751 C2: 30 C3: 15 C4: 4 C5: 4
POSS RIO BRAVO SHALY	6180 - 6300	100	10		80	10					CLYST: md dk gy, dk gy, occ m gy, blk/sbblk, loc sbrtab, frm/md frm, micmic, miccarb, non calc, slty i/p, sl earthy surf. SST: lt gy, md lt gy, loc v lt gy, 100% f, tr m, hyal, smky, occ wh'sh hyal, dk & gn'sh gy lith grns, sbrnd, w srt, loc arg mtz, calc cmt, md fri/md consl, p vis por. SD: hyal, smky, occ wh'sh hyal, 50% f, 40% m, 10% c, sbang/sbrnd, p srt. FLUO: nvos, pin point/spotty, pl yel'sh nat fluo, crsh/slw, wk, pl, even, yel'sh wh cut fluor, mky wh rr under U. V. It, nvrr at nat lt. POS. TG: 11 C1: 894 C2: 41 C3: 24 C4: 6 C5: 4

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5980.45	48.92	180.91	3805.89	-3855.89	4076.05	-4064.86	-301.73
6077.30	46.72	181.11	3870.91	-3920.91	4147.70	-4136.62	-303.00
6174.80	44.23	182.14	3939.28	-3989.28	4217.14	-4206.10	-304.95

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.2
Viscosity (sec): 49
Filtrate (ml): 54.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
BRAVO SHALY	6052	3853.66	-3803.66	-4118.12	-302.65

Remarks

So far have drilled 250' MD (176' TVDss) of mainly Sst & some Sd with fluo up to 15% (nvos, pin point/spotty, pl yel'sh nat fluo, crsh/slw, wk, pl, even, yel'sh wh cut fluor, mky wh rr under U. V. It, nvrr at nat It. POS.) secuenes interbeded with Clyst-Slst of Poss. Rio Bravo Shaly Fm & 1288' MD (807'TVDss) 8 1/2" section, 10 units (C1-C5) as background gas. Last sample 6300' MD, 30% Clyst, 50% Sst, 20% Sd, Fluo 5%. ROP avg. 82 ft/hr. Mud loss detected while sliding from 6291' to 6302' MD, @ 120 bbls, pumped LCM pill & decided PO to shoe while prepare more new mud & LCM pills.

Well Cost:

AFE	4 660 640	US\$
DAILY	76 489	US\$
CUMULATED	3 442 926	US\$



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REPORT N° 33

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6291
Depth @ 24h00 (ft): 6836
Depth @ 06h00 (ft): 7161

OPERATIONS DATE : 3-Feb-14
REPORT DATE : 4-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 545
Csg: 9 5/8" 5014
DRILLING DAYS: 37

Operations summary:

Continued drilling rotating & sliding from 6291' to 6303' MD, mud loss detected, prepared & spotted LCM pill (40 lb/bbl) on bottom. PO directional BHA 4990' MD (9 5/8" csg). Performed flow check, continued partial mud loss. Prepared 2nd LCM pill & new mud in active tanks. RIH to 6303' MD. Total mud loss @ 200 bbls. Resumed drilling rotating & sliding from 6303' to 6836' MD.

Present operations:

Drilling rotating at 7216' MD (4710' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
POSS RIO BRAVO SHALY	6300 - 6470	44	30		60	10					CLYST: olv gy, md dk gy, dk gy, occ md gy, blkly/sbbkly, loc sbtab/sblam, frm/md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SST: lt gy, md lt gy, loc v lt gy, 100% vff, tr m, hyal, smky, mnw dk & gn'sh gy lith grns, sbrnd, w srt, loc arg mtz, calc cmt, md fri/md consl, p vis por. SD: hyal, smky, mnw wh'sh hyal, 60% f, 40% m, tr c, sbang/sbrnd, f/p srt. FLUO: nvos, pin point pl yel nat fluo, crsh/slw, wk, pl, even, yelsh wh cut, mky wh rr under U. V. It, nvrr at nat lt. POS. TG: 7 C1: 553 C2: 27 C3: 17 C4: 5 C5: 5
POSS RIO BRAVO SHALY	6470 - 6530	60	70		30	TR					CLYST: md dk gy, dk gy, loc md gy, occ olv gy, blkly/sbbkly, loc sbtab/sblam, frm/md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SST: lt gy, md lt gy, loc v lt gy, 100% vff, tr m, hyal, smky, mnw dk & gn'sh gy lith grns, sbrnd, w srt, loc arg mtz, calc cmt, md fri/md consl, p vis por. SD: hyal, smky, mnw wh'sh hyal, 60% f, 40% m, tr c, sbang/sbrnd, f/p srt. TG: 15 C1: 1262 C2: 54 C3: 30 C4: 7 C5: 4
POSS PALEGREDA	6530 - 6980	122	70		30						CLYST: md dk gy, loc dk gy, occ md gy, olv gy, occ sm, blkly/sbbkly, loc sbtab/sblam, frm/md frm, slty i/p, micmic, loc miccarb, n calc, sl earthy surf. SST: lt gy, md lt gy, loc v lt gy, 100% vff, hyal, smky, mnw wh'sh hyal, dk & gy'sh lith grns, sbrnd, w srt, arg mtz i/p, calc cmt, md fri/md consl, drty i/p, p vis por. FLUO: nvos, pin point, pl yel nat fluo, crsh, wk, pl, even, pl yel'sh wh cut, pl yel rr under U. V. It, nvrr at nat lt. POS. TG: 43 C1: 3747 C2: 146 C3: 72 C4: 13 C5: 4
POSS. MOGOLLON	6980 - 7180	106	40		50	10					CLYST: SST: lt gy, md lt gy, occ md gy, 100% vff, hyal, smky, mnw wh'sh hyal, dk & gy'sh lith grns, sbrnd, w srt, scs arg mtz, abd calc cmt, occ w/ shell frags incl, md fri/fri, loc md consl, p vis por. SD: hyal, smky, mnw wh'sh hyal, 70% f, 30% m, sbang/sbrnd, w/f srt. FLUO: nvos, pin point, pl yel nat fluo, crsh, wk, pl, even, pl yelsh wh cut, pl yel rr under U. V. It, nvrr at nat lt. POS. TG: 84 C1: 7433 C2: 274 C3: 130 C4: 21 C5: 4

Surveys:

Mud information:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6262.26	42.05	182.84	4003.09	-4053.09	4276.91	-4265.84	-307.54
6357.62	40.96	182.60	4074.51	-4124.51	4340.08	-4328.96	-310.54
6453.62	41.11	182.19	4146.92	-4196.92	4403.08	-4391.93	-313.18
6545.67	40.16	181.89	4216.77	-4266.77	4462.99	-4451.84	-315.31
6640.15	36.37	184.58	4290.95	-4340.95	4521.47	-4510.24	-318.56
6734.56	35.18	184.48	4367.54	-4417.54	4576.66	-4565.26	-322.92
6829.93	34.51	184.58	4445.81	-4495.81	4631.15	-4619.58	-327.22
6923.73	33.62	184.29	4523.52	-4573.52	4683.69	-4671.96	-331.28
7019.53	33.30	183.90	4603.44	-4653.44	4736.51	-4724.64	-335.06
7113.69	32.88	183.83	4682.33	-4732.33	4787.91	-4775.93	-338.52

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.2
Viscosity (sec): 52
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
BRAVO SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53

Remarks

So far have drilled 706' MD (570' TVDss) of mainly Clst sequences interbedded with Sst & some Sd with fluo up to 5% nvos, pin point, pl yel nat fluo, crsh, wk, pl, even, pl yel sh wh cut, pl yel rr under U. V. lt, nvrr at nat lt. POS.) of Poss. Palegredda Fm & 2202' MD (1537' TVDss) 8 1/2" section, 43 units (C1-C5) as background gas & up to 293 units (C1-C5) at 7082' MD as formation gas. Last sample 7180' MD, 30% Clst, 30% Sst, 40% Sd, NF. ROP avg. 100 ft/hr. Total mud loss from 6291' to 6303' MD @ 200 bbls.

Well Cost:

AFE	4 660 640	US\$
DAILY	77 359	US\$
CUMULATED	3 520 285	US\$



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REPORT N° 34

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6836
Depth @ 24h00 (ft): 7649
Depth @ 06h00 (ft): 7892

OPERATIONS DATE : 4-Feb-14
REPORT DATE : 5-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 813
Csg: 9 5/8" 5014
DRILLING DAYS: 38

Operations summary:

Continued drilling rotating & sliding from 6836' to 7367' MD, performed wiper trip to 5900' without problem. Resumed drilling rotating & sliding from 7367' to 7635' MD, hard to slide, stuck problems while sliding attempts. Continued drilling rotating from 7635' to 7649' MD.

Present operations:

Drilling rotating at 7929' MD (5333' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	7180 - 7340	122	10		50	40				5 - 40	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblky, loc sbtab/sblam, sbply i/p, frm/md frm, micmic, miccarb, non calc, slty i/p, earthy surf. SST: v lt gy, lt gy, loc md lt gy, 100% f, tr m, hyal, smky, gy'sh & dk lith grns, sbmd, w srt, loc arg mtx, calc cmt, fri/md fri, p vis por. SD: smky, hyal, mnw wh'sh hyal, occ w dk lith grns, 60% m, 30% c, 10% f, sbang/sbrnd, p srt. FLUO: nvos, pin point/spotty, pl yel'sh nat fluo, slw/fst, wk, pl, even/streaming, yel'sh wh cut, mky wh rr under U. V. lt, nvrr at nat lt, P/FOS. TG: 179 C1: 14804 C2: 836 C3: 453 C4: 79 C5: 9
MOGOLLON	7340 - 7480	97	30		60	10				NF - 20	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblky, loc sbtab/sblam, sbply i/p, frm/md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SST: md lt gy, lt gy, loc md gy, occ v lt gy, 100% v/f/f, hyal, smky, mnw gy'sh & dk lith grns, sbmd, w srt, loc arg mtx, calc cmt, md fri/md consl, drty, loc miccarb, occ shell frag incl, p vis por. SD: hyal, smky, loc gy'sh & dk lith grns, 60% f, 40% m, tr c, sbang/sbrnd, f/p srt. FLUO: nvos, pin point/spotty, pl yel'sh nat fluo, slw/fast, wk, pl, even, yel'sh wh cut, mky wh rr under U. V. lt, nvrr at nat lt, POS. TG: 61 C1: 4791 C2: 291 C3: 177 C4: 64 C5: 12
MOGOLLON	7480 - 7530	98	80		20					NF	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblky, loc sbtab/sblam, frm/md frm, occ w coal veins incl, slty i/p, micmic, miccarb, n calc. SST: md lt gy, lt gy, loc md gy, occ v lt gy, 100% v/f/f, hyal, smky, occ wh'sh hyal & dk lith grns, sbmd, w srt, loc arg mtx, calc cmt, md fri/md consl, drty i/p, p vis por. TG: 50 C1: 3931 C2: 224 C3: 131 C4: 60 C5: 13

MOGOLLON	7530 - 7580	92	40		40	20					TR - 5	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblk, loc sbtab/sblam, frm/md frm, occ w coal veins incl, slty i/p, micmic, miccarb, n calc. SST: lt gy, md lt gy, loc md gy, occ v lt gy, 100% vf/f, hyal, smky, mnr gy'sh & dk lith grns, sbrnd, w srt, loc arg mtx, calc cmt, md fri/md consl, p vis por. SD: smky, hyal, mnr wh'sh hyal, 50% f, 30% m, 20% c, sbang/sbrnd, p srt. FLUO: nvos, pinpoint/spotty, pale, yell'sh nat fluo, crsh/slow, wk, pale, even, yell'sh wh cut, mk wh rr under uv lt, nvrr at nat lt, pos. TG: 95 C1: 7566 C2: 443 C3: 260 C4: 102 C5: 24
MOGOLLON	7580 - 7760	75	70		30	TR					NF	CLYST: md dk gy, md gy, loc dk gy, blk/sbblk, loc sbtab, frm/md frm, micmic, miccarb, n calc, sl earthy surf, slty i/p, occ w coal veins incl. SST: lt gy, md lt gy, loc md gy, occ v lt gy, 100% vf/f, hyal, smky, mnr dk lith grns, sbrnd, w srt, loc arg mtx, calc cmt, md fri/md consl, drty i/p, p vis por. SD: smky, hyal, 90% f, 10% m, sbang-sbrnd, w srt. TG: 39 C1: 3154 C2: 148 C3: 80 C4: 46 C5: 9
MOGOLLON	7760 - 7780	71	10		30	60					NF - 5	CLYST: md dk gy, md gy, occ dk gy, blk/sbblk, loc sbtab/sbply, frm/md frm, slty, micmic, miccarb, n/v sl calc. SST: lt gy, md lt gy, loc md gy, occ v lt gy, 100% vf/f, hyal, smky, mnr gy'sh & dk lith grns, sbrnd, w srt, loc arg mtx, calc cmt, md fri/md consl, drty i/p, p vis por. SD: smky, hyal, mnr wh'sh hyal, 50% f, 30% m, 20% c, sbang/sbrnd, p srt. FLUO: nvos, pinpoint/spotty, pale, yell'sh nat fluo, crsh/slow, wk, pale, even, yell'sh wh cut, mk wh rr under uv lt, nvrr at nat lt, pos. TG: 64 C1: 5369 C2: 250 C3: 137 C4: 53 C5: 8
MOGOLLON	7780 - 7870	67	80		20						NF	CLYST: md dk gy, md gy, loc dk gy, blk/sbblk, loc sbtab, frm/md frm, micmic, miccarb, n calc, sl earthy surf, slty i/p, occ w coal veins incl. SST: lt gy, v lt gy, loc md lt gy, occ md gy, 100% vf/f, hyal, smky, mnr dk lith grns, sbrnd, w srt, abd calc cmt, loc w shell frag incl, md fri/md consl, occ pyr, p vis por. TG: 47 C1: 3957 C2: 182 C3: 91 C4: 40 C5: 7
MOGOLLON	7870 - 7900	64	10		30	60					25 - 5	CLYST: md dk gy, md gy, occ dk gy, blk/sbblk, loc sbtab/sbply, frm/md frm, slty, micmic, miccarb, n/v sl calc. SST: v lt gy, lt gy, loc md lt gy, 100% vf/f, tr m, hyal, smky, mnr dk lith grns, sbrnd, w srt, arg mtrix i/p, abd calc cmt, md fri/fri, loc md consl, p vis por. SD: hyal, smky, mnr wh'sh hyal, 50% m, 30% f, 20% c, tr vc, sbang/sbrnd, p srt. FLUO: nvos, pin point/spotty, pl yel'sh nat fluo, slwfst, wk, pl, even/streaming, yel'sh wh cut, mky wh rr under U. V. lt, nvrr at nat lt, POS. TG: 132 C1: 10880 C2: 541 C3: 312 C4: 126 C5: 12

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7208.32	32.31	182.47	4762.05	-4812.05	4838.88	-4826.83	-341.33
7302.32	32.00	181.82	4841.64	-4891.64	4888.88	-4876.82	-343.20
7396.78	31.37	180.60	4922.02	-4972.02	4938.44	-4926.42	-344.25
7489.36	30.62	179.37	5001.38	-5051.38	4985.99	-4974.10	-344.25
7581.77	29.92	178.31	5081.19	-5131.19	5032.39	-5020.67	-343.31
7675.68	29.48	178.23	5162.76	-5212.76	5078.69	-5067.17	-341.90
7767.91	29.11	177.42	5243.20	-5293.20	5123.57	-5112.27	-340.19

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.3
Viscosity (sec): 52
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	333.47

Remarks

So far have drilled 951' MD (764' TVDss) of mainly Sst-Sd sequences with fluo up to 25% (nvos, pin point/spotty, pl yel'sh nat fluo, slw/fst, wk, pl, even/streaming, yel'sh wh cut, mky wh rr under U. V. lt, nvrr at nat lt, POS.) interbedded with Clyst of Mogollon Fm & 2915' MD (2160' TVDss) 8 1/2" section, 57 units (C1-C5) as background gas & up to 457 units (C1-C5) at 7367' MD as formation gas. Last sample 7900' MD, 70% Sd, 20% Sst, 10% Clyst, 5% Fluo. ROP avg. 64 ft/hr. Distance center to center to plan 26'.

Well Cost:

AFE	4 660 640	US\$
DAILY	82 543	US\$
CUMULATED	3 602 828	US\$



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REPORT N° 35

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7649
Depth @ 24h00 (ft): 8024
Depth @ 06h00 (ft): 8140

OPERATIONS DATE : 5-Feb-14
REPORT DATE : 6-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 375
Csg: 9 5/8" 5014
DRILLING DAYS: 38

Operations summary:

Continued drilling rotating & sliding from 7649' to 8024' MD. Circulated & conditioned hole, trip to shoe back reaming, RIH adding torque reducers (Spiro Torque) to 7894' MD.

Present operations:

Drilling rotating at 8146' MD (5525' TVDs).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %	Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	7900 - 8000	48	20		50	30			NF - 20	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbbkly, loc sbtab, sbply i/p, frm/md frm, micmic, miccarb, n calc, slty i/p, sl earthy surf. SST: v lt gy, lt gy, loc md lt gy, 100% v/f, tr m, hyal, smky, mnrd lith grns, sbnd, w srt, arg mtz i/p, abd calc cmt, md fri/fri, loc md consl, p vis por. SD: smky, hyal, mnrd gy'sh lith grns, 50% m, 30% f, 20% c, tr v c, sbang/sbrnd, p srt. FLUO: nvos, pin point/spotty, pl yel'sh nat fluo, slw/fst, wk, pl, even/streaming, yel'sh wh cut, mky wh rr under U. V. It, nvr at nat lt, POS. TG: 30 C1: 2447 C2: 118 C3: 71 C4: 38 C5: 8
MOGOLLON	8000 - 8090	60	80		20				NF	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbbkly, loc sbtab, sbply i/p, frm/md frm, micmic, miccarb, n calc, slty i/p, sl earthy surf. SST: v lt gy, lt gy, loc md lt gy, 100% v/f, tr m, hyal, smky, mnrd lith grns, sbnd, w srt, arg mtz i/p, abd calc cmt, md fri/fri, loc md consl, p vis por. TG: 21 C1: 1685 C2: 74 C3: 47 C4: 26 C5: 8
MOGOLLON	8090 - 8110	48	20		40	40			5	CLYST: md dk gy, dk gy, loc md gy, blk/sbbkly, loc sbtab, frm/md frm, micmic, miccarb, n calc, sl earthy surf, slty i/p. SST: lt gy, v lt gy, loc md lt gy, 100% f, hyal, smky, mnrd dk & gy'sh lith grns, sbnd, w srt, arg mtz i/p, abd calc cmt, occ w/shell frag incl, md fri, loc md consl, p vis por. SD: smky, hyal, mnrd wh'sh hyal, 50% m, 30% f, 20% c, tr vc, sbang/sbrnd, occ ang, p srt. FLUO: nvos, pin point, pl yel nat fluo, crush/sl, wk, pl, even, yel'sh wh cut, mky wh rr under U. V. It, nvr at nat lt, POS. TG: 39 C1: 3314 C2: 123 C3: 72 C4: 33 C5: 10
MOGOLLON	8110 - 8140	50	80		20				NF	CLYST: md dk gy, dk gy, loc md gy, blk/sbbkly, loc sbtab/sbply, frm/md frm, micmic, miccarb, n calc, sl earthy surf, slty i/p. SST: lt gy, md lt gy, occ md gy, 100% v/f, hyal, smky, mnrd lith grns, sbnd, w srt, arg mtz, calc cmt, md fri/md consl, drty i/p, p vis por. TG: 34 C1: 2993 C2: 94 C3: 52 C4: 24 C5: 8

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7864.21	28.67	176.56	5327.51	-5377.51	5169.77	-5158.73	-337.75
7932.97	28.56	176.02	5387.87	-5437.87	5202.43	-5191.59	-335.62
7984.12	28.59	175.49	5432.79	-5482.79	5226.66	-5215.99	-333.81

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.3
Viscosity (sec): 61
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	333.47

Remarks

So far have drilled 1168' MD (956' TVDss) of mainly Sst-Sd sequences with fluo up to 20% (nvos, pin point, pl yel'sh nat fluo, csh/slw, wk, pl, even, yel'sh wh cut, mky wh rr under U. V. lt, nvrr at nat lt, POS) interbedded with Clyst of Mogollon Fm & 3132' MD (2352' TVDss) 8 1/2" section, 42 units (C1-C5) as background gas & up to 422 units (C1-C5) at 7880' MD as formation gas. Last sample 8140' MD, 70% Clyst, 30% Sst, NF. ROP avg. 61 ft/hr. Distance center to center to plan 36'.

Well Cost:

AFE	4 660 640	US\$
DAILY	88 141	US\$
CUMULATED	3 690 969	US\$



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REPORT N° 36

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8024
Depth @ 24h00 (ft): 8180
Depth @ 06h00 (ft): 8180

OPERATIONS DATE : 6-Feb-14
REPORT DATE : 7-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 156
Csg: 9 5/8" 5014
DRILLING DAYS: 39

Operations summary:

Continued RIH from 7894' to 8024' MD. Resumed drilling rotating from 8024' to 8146' MD, hard to drill. PO string backreaming from 8146' to 6500' MD, L/D torque reducers (spiro torque). RIH to bottom. Circulated & resumed drilling from 8146' to 8180' MD Total depth. Circulated & conditioned hole, repair top drive. PO backreaming from 8180' to 5530' MD.

Present operations:

L/D directional BHA. Total depth 8180' MD (5555' TVDss).

Forecast operations:

M/U slick BHA, RIH condition hole to run E-Logs compact shuttle mode.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	Dol %			Fluor %	LITHOLOGICAL DESCRIPTION
MOGOLLON	8140 - 8180	54	100							NF	CLYST: md dk gy, dk gy loc md gy, blkly/sbblky, loc sbtab/sblam, frm/md frm, slty, micmic, miccarb, n calc/v sl calc, sl earthy surf. TG: 13 C1: 1038 C2: 44 C3: 27 C4: 16 C5: 6

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
8091.46	28.25	175.02	5527.20	-5477.20	5277.20	-5266.90	-329.59
8180.00	27.97	174.63	5605.29	-5555.29	5318.44	-5308.45	-325.82

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.3
Viscosity (sec): 62
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	-333.47
TOTAL DEPTH	8180	5605.29	-5555.29	-5308.45	-325.82

Remarks

So far have drilled 1202' MD (936' TVDss) of mainly Clyst sequences interbedded with some Sst stringers of Mogollon Fm & 3166' MD (2332' TVDss) 8 1/2" section, 8 units (C1-C5) as background gas. Last sample 8180' MD, 100% Clyst. ROP avg. 58 ft/hr. WFT E-Logs personnel, tools & equipment coming to location today. Estimated time to run E-Logs late tonight.

Well Cost:

AFE 4 660 640 US\$
DAILY 77 109 US\$
CUMULATED 3 768 078 US\$



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REPORT N° 37

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8180
Depth @ 24h00 (ft): 8180
Depth @ 06h00 (ft): 8180

OPERATIONS DATE : 7-Feb-14
REPORT DATE : 8-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 5014
DRILLING DAYS: 40

Operations summary:

POOH, L/D directional BHA, M/U 8.5" tricone bit with slick bha from surface to 8180' MD (TD). Circulated & conditioned hole, PO to 5000' MD.

Present operations:

M/U E-Logs string & BHA at 200' MD.

Forecast operations:

RIH, run 1st run E-Logs.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.4
Viscosity (sec): 62
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	-333.47
TOTAL DEPTH	8180	5605.29	-5555.29	-5308.45	-325.82

Remarks

WFT E-Logs tools & equipment on location at 13:00 hrs, personnel 14:30 hrs. Well ready & safety meeting at 04:30 hrs. 1st E-Log run Gamma Ray-Resistivity-Porosity-Density (8180'-6950' MD).

Well Cost:

AFE	4 660 640	US\$
DAILY	54 120	US\$
CUMULATED	3 822 198	US\$



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REPORT N° 38

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoy/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8180
Depth @ 24h00 (ft): 8180
Depth @ 06h00 (ft): 8180

OPERATIONS DATE : 8-Feb-14
REPORT DATE : 9-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 5014
DRILLING DAYS: 41

Operations summary:

Continued POOH from 4800' MD without problems. M/U 1st Run Shuttle mode (MGS-MDL-MDN-MPD) gamma ray-resistivity-density-porosity, RIH with 5" DP from surface to 8180' MD without problems. PO to 8012' MD, circulated & sent messenger dart, confirmed deployment logging tool. PO logging string at 30 ft/min from 8155' to @ 4810' MD (Inside 9 5/8" csg shoe). Continued PO to 1600' MD.

Present operations:

M/U 2nd run Shuttle mode logging string & BHA (Sonic-Image).

Forecast operations:

Finish M/U 2nd run string, RIH, run Sonic-Image log.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.4
Viscosity (sec): 62
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	-333.47
TOTAL DEPTH	8180	5605.29	-5555.29	-5308.45	-325.82

Remarks

Well ready & safety meeting at 04:30 hrs. 1st E-Log run Gamma Ray-Resistivity-Porosity-Density (8180'-6950' MD). Started logging 1st run at 18:45 hrs. Finished 1st log at shoe at 22:30 hrs. On surface at @ 01:30 hrs today. Last WFT logging missing personnel arrived to location at 23:30 hrs.

Well Cost:

AFE	4 660 640	US\$
DAILY	47 362	US\$
CUMULATED	3 869 560	US\$



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REPORT N° 39

LOBITOS FIELD

LO6-34D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Ochoa/G. Cardoza
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8180
Depth @ 24h00 (ft): 8180
Depth @ 06h00 (ft): 8180

OPERATIONS DATE : 9-Feb-14
REPORT DATE : 10-Feb-14
SPUD DATE: 29-Dec-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 5014
DRILLING DAYS: 42

Operations summary:

Continued POOH 1st logging run from 1600' to surface, L/D GammaRay-Resistivity-Density-Porosity (MGS-MDL-MDN-MPD) shuttle compact tool. M/U 2nd logging string Image-Sonic (CMI-CXD) Shuttle compact tool, RIH to 8180' MD without problems. Proceed deployment procedure with messenger dart, confirmed launch & deployment, ok. PO logging from 8164' to 6915' MD at 15 ft/min. Continued POOH from 6915' to 6000' MD at 30 ft/min.

Present operations:

M/U slick BHA to condition hole for 5.5" csg.

Forecast operations:

RIH slick BHA, condition hole to run 5.5" csg.

Lithology summary:

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

Surveys:

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

Mud information:

Type: Clay seal plus- EZ mud
Mud Weight (ppg): 11.4
Viscosity (sec): 62
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	807	805.25	-755.25	-38.61	6.44
MBR	2117	1850.61	-1800.61	-761.67	-32.55
CHACRA	2585	2099.4	-2049.4	-1150.79	-97.93
RIO BRAVO	5090	3264.43	-3214.43	-3360.19	-259.94
SHALY	6052	3853.66	-3803.66	-4118.12	-302.65
PALEGREDA	6510	4189.59	-4139.59	-4428.26	-314.53
MOGOLLON	6978	4568.76	-4518.76	-4701.85	-333.47
TOTAL DEPTH	8180	5605.29	-5555.29	-5308.45	-325.82

Remarks

RIH Image-Sonic (CMI-CXD) log at 10:30 hrs. On Bottom at 18:00 hrs. Main log from 20:30 to 22:45 hrs. On surface at 04:00 hrs today. By the time of report WFT personnel downloading & processing Image-Sonic data.

Well Cost:

AFE	4 660 640	US\$
DAILY	48 170	US\$
CUMULATED	3 917 730	US\$