



SAVIA
PERÚ

REPORT N° 1

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 455
Depth @ 24h00 (ft): 569
Depth @ 06h00 (ft): 646

OPERATIONS DATE : 10-Oct-13
REPORT DATE : 11-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 114
Conductor: 18" 450
DRILLING DAYS: 3

Operations summary:

M/U & RIH slick BHA with 17" tricone bit to 380' MD (TOC), drilled out cement from 380' to 455' MD, drilled rotating with slick BHA from 455' to 465' MD, checked 100% formation geology sample, POOH, L/D slick BHA, run #1 magnet, no junk. M/U & RIH 17" triconic bit & directional BHA with SLB, displaced sea water to drilling mud. Drilled rotating & sliding from 465' to 569' MD.

Present operations:

Running gyro survey at 660' MD.

Forecast operations:

Drill ahead, PO install MWD tool, RIH, resume drilling.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA SST	455 - 630	45	40		30	30				NF	CLYST: olive gy, olive blk, blk/sbbkly, occ irr, md frm/frm, sft, micmic, miccarb, sl calc, md earthy surf. SST: md dk gy, loc md gn'sh gy, 100% f, hyal, smky, mnr gy'sh & dk lith grns, sbang/sbrnd, w srt, calc mtx, scs arg cmt, md cons/md fri, loc tight, p vis por. SD: wh, smky, hyal i/p, 100% vf/f, tr m, sbang/sbrnd, w srt. TG: 1 C1: 85 C2: 1 C3: 0 C4: 0 C5: 0

Surveys:

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

Mud information:

Type: WBAC
Mud Weight (ppg): 8.7
Viscosity (sec): 40
Filtrate (ml): 8.0

Provisional Formation Tops:

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

Remarks

Mudlogging unit 100% ready. Wellsite geologist on location at 20:20 hrs on Oct 10th, 2013.

Well Cost:

AFE 3 785 040 US\$
DAILY 94 430 US\$
CUMULATED 3 698 370 US\$



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REPORT N° 2

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 569
Depth @ 24h00 (ft): 672
Depth @ 06h00 (ft): 698

OPERATIONS DATE : 11-Oct-13
REPORT DATE : 12-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 103
Conductor: 18" 450
DRILLING DAYS: 4

Operations summary:

Resumed drilling rotating & sliding from 569' to 672' MD. Collision risk at 606' MD confirmed by cement on samples LO6-32D Ct-Ct with LO6-18D = 1.6' ft, POOH & L/D directional BHA, M/U & RIH slick BHA to 670' MD. SLB took gyro surveys every 15' ft from bottom 670-570' MD, every 30' ft from 550-450' MD & every 50' ft from 450' ft to surface. POOH slick BHA, wait on SLB directional plan orders. M/U & RIH 17" bit & directional BHA.

Present operations:

Drilling sliding at 720' MD (669' TVDss).

Forecast operations:

Drill ahead, checking with gyro surveys.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA SST	630 - 690	45	20		40	40				NF	CLYST: olive gy, olive blk, blk/sbbkly, occ irr, md frm/frm, sft, micmic, miccarb, sl calc, md earthy surf. SST: md dk gy, loc md gn'sh gy, 100% f, hyal, smky, mnr gy'sh & dk lith grns, sbang/sbrnd, w srt, calc mtx, scs arg cmt, md cons/md fri, loc tight, p vis por. SD: wh, smky, hyal i/p, 100% vf/f, tr m, sbang/sbrnd, w srt. TG: 1 C1: 47 C2: 1 C3: 0 C4: 0 C5: 0

Surveys:

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

Mud information:

Type: WBAC
Mud Weight (ppg): 9.1
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

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

Remarks

So far have drilled 265' MD of mainly Sst-Sd sequences NF interbedded with Clyst of Talara Sst. mbr, 1 unit (C1-C3) background gas. Last sample 690' MD 30% Clyst, 30% Sst, 40% Sd, NF. Few cement on samples, recover check samples every feet due collision risk to check for cement.

Well Cost:

AFE 3 785 040 US\$
DAILY 77 856 US\$
CUMULATED 446 860 US\$

TALARA	FROM SURFACE			
LOBITOS	810	758	-708	

Remarks

So far have drilled 68' MD of mainly Clyst sequences of Lobitos mbr, 1 unit (C1-C3) background gas. 2 Gas kicks at 876' MD. Last sample 870' MD 100% Clyst. Traces cement on last check samples, recover check samples every feet due collision risk.

Well Cost:

AFE	3 785 040	US\$
DAILY	50 982	US\$
CUMULATED	497 842	US\$



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REPORT N° 3

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 672
Depth @ 24h00 (ft): 790
Depth @ 06h00 (ft): 878

OPERATIONS DATE : 12-Oct-13
REPORT DATE : 13-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 118
Conductor: 18" 450
DRILLING DAYS: 5

Operations summary:

Continued to M/U directional BHA to 672' MD, gyro orientate tool face, drilled sliding from 672 to 731' MD, observed 10% of cement in geology sample. POOH directional BHA to surface, RIH slick BHA to 731' MD, took multishot gyro survey, POOH slick BHA, RIH directional BHA, drilled sliding from 731' to 790' MD, POOH directional BHA, RIH slick BHA, took multishot gyro surveys from 772' to 713' MD. POOH slick BHA. RIH directional BHA with 17" tricone bit from surface to 120' MD.

Present operations:

Controlling 2nd gas kick at 876' MD.

Forecast operations:

Control gas kick, POOH, RIH slick BHA & run gyro survey, POOH slick BHA, RIH directional BHA, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA SST	690 - 810	29	40		30	30				NF	CLYST: olive gy, olive blk, loc md dk gy, blkly/sbbly, occ sstab, md frm/frm, loc md sft, micmic, miccarb, sl calc, sl earthy surf. SST: md dk gy, loc md gy, 100% f, hyal, smky, mnr gy'sh & dk lith grns, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md cons/md fri, loc tight, p vis por. SD: wh, smky, hyal i/p, mnr gy'sh lith grns, 70% vf/f, 30% m, sbang/sbrnd, f srt. TG: 1 C1: 24 C2: 0 C3: 0 C4: 0 C5: 0
LOBITOS	810 - 870	27	100							NF	CLYST: olive blk, occ olive gy, blkly/sbbly, occ sstab, md frm/frm, occ md sft, micmic, miccarb, v sl calc, sl earthy surf. TG: 1 C1: 54 C2: 1 C3: 1 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
100.00	1.01	50.85	99.99	-49.99	0.88	0.56	0.68
200.00	0.49	301.90	199.99	-149.99	1.67	1.34	1.00
300.00	0.09	74.42	299.99	-249.99	1.74	1.59	0.72
400.00	0.23	84.05	399.99	-349.99	1.91	1.63	0.99
462.00	0.55	320.61	461.99	-411.99	2.09	1.87	0.93
492.00	2.19	14.14	491.98	-441.98	2.72	2.54	0.98
522.00	3.91	5.14	521.93	-471.93	4.29	4.11	1.21
552.00	4.18	2.16	551.86	-501.86	6.37	6.22	1.34
582.00	3.76	353.00	581.79	-531.79	8.39	8.29	1.26
612.00	2.78	337.81	611.74	-561.74	9.98	9.94	0.87
642.00	2.60	321.95	641.71	-591.71	11.15	11.15	0.17
672.00	2.84	307.89	671.67	-621.67	12.17	12.14	-0.83
702.00	3.08	291.38	701.63	-651.63	13.08	12.89	-2.17
732.00	3.61	275.09	731.58	-681.58	13.82	13.27	-3.86
762.00	4.09	262.03	761.52	-711.52	14.45	13.21	-5.86
792.00	4.93	245.66	791.42	-741.42	14.92	12.53	-8.10
807.00	5.25	239.59	806.37	-756.37	15.10	11.92	-9.28
822.00	5.72	234.25	821.30	-771.30	15.28	11.13	-10.47
837.00	6.23	230.98	836.21	-786.21	15.52	10.18	-11.71
852.00	6.86	230.25	851.12	-801.12	15.89	9.10	-13.03
867.00	7.04	228.76	866.01	-816.01	16.45	7.92	-14.41
0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00

Mud information:

Type: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

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

553 622

US\$



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REPORT N° 4

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 790
Depth @ 24h00 (ft): 878
Depth @ 06h00 (ft): 878

OPERATIONS DATE : 13-Oct-13
REPORT DATE : 14-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 88
Conductor: 18" 450
DRILLING DAYS: 6

Operations summary:

RIH directional BHA to 790' MD, drilled sliding & rotating from 790' to 878' MD, observed total loss circulation, performed flow check, no annular fluid level. Gas kick, controlled, 2nd gas Kick, controlled, partial loss circulation, controlled with LCM pills. POOH & L/D directional BHA. M/U & RIH slick BHA from surface to 873' MD. North service took gyro survey from 855' to 639' MD. Waited on Cia. GYRO DATA equipment LCM mud products from Talara.

Present operations:

M/U 5" Cement DP to perform cement plug.

Forecast operations:

Perform cement plug.

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)
100.00	1.01	50.85	99.99	-49.99	0.88	0.56	0.68
200.00	0.49	301.90	199.99	-149.99	1.67	1.34	1.00
300.00	0.09	74.42	299.99	-249.99	1.74	1.59	0.72
400.00	0.23	84.05	399.99	-349.99	1.91	1.63	0.99
462.00	0.55	320.61	461.99	-411.99	2.09	1.87	0.93
492.00	2.19	14.14	491.98	-441.98	2.72	2.54	0.98
522.00	3.91	5.14	521.93	-471.93	4.29	4.11	1.21
552.00	4.18	2.16	551.86	-501.86	6.37	6.22	1.34
582.00	3.76	353.00	581.79	-531.79	8.39	8.29	1.26
612.00	2.78	337.81	611.74	-561.74	9.98	9.94	0.87
642.00	2.60	321.95	641.71	-591.71	11.15	11.15	0.17
672.00	2.84	307.89	671.67	-621.67	12.17	12.14	-0.83
702.00	3.08	291.38	701.63	-651.63	13.08	12.89	-2.17
732.00	3.61	275.09	731.58	-681.58	13.82	13.27	-3.86
762.00	4.09	262.03	761.52	-711.52	14.45	13.21	-5.86
792.00	4.93	245.66	791.42	-741.42	14.92	12.53	-8.10
807.00	5.25	239.59	806.37	-756.37	15.10	11.92	-9.28
822.00	5.72	234.25	821.30	-771.30	15.28	11.13	-10.47
837.00	6.23	230.98	836.21	-786.21	15.52	10.18	-11.71
852.00	6.86	230.25	851.12	-801.12	15.89	9.10	-13.03
867.00	7.04	228.76	866.01	-816.01	16.45	7.92	-14.41

Mud information:

Type: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA			FROM SURFACE		
LOBITOS	810	758	-708	11.77	-13.86

Remarks

2 Gas kicks at 878' MD & mud loss controlled with LCM & heavy pills. Last sample 878' MD 100% Clyst. Recovered check samples every feet due collision risk. Cia. Gyro data surveys replaced Cia. North services surveys.

Well Cost:

AFE 3 785 040 US\$
DAILY 55 780 US\$



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REPORT N° 5

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 876
Depth @ 24h00 (ft): 876
Depth @ 06h00 (ft): 876

OPERATIONS DATE : 14-Oct-13
REPORT DATE : 15-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Conductor: 18" 450
DRILLING DAYS: 6

Operations summary:

R/U & Run Cia. Gyro Data survey from 867' MD to surface. POOH slick BHA. P/U 5" cement DP from Perla barge to platform for plug cement job. M/U & RIH 5" cement DP to 876' MD. Wait on Cement boat, R/U Baker Hughes cement lines & equipment. Performed cement plug job. POOH 5" cement DP to 450' MD. R/D Baker Hughes cement lines & equipment, wait on cement.

Present operations:

Wait on cement.

Forecast operations:

Wait on cement. RIH slick BHA to confirm tag cement. Drill out cement & 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: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA					
LOBITOS	810	758	-708	11.77	-13.86

Remarks:

Cement plug set from 876' MD to @ 726' MD theoretical.

Well Cost:

AFE	3 785 040	US\$
DAILY	49 838	US\$
CUMULATED	603 460	US\$



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REPORT N° 6

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 876
Depth @ 24h00 (ft): 730
Depth @ 06h00 (ft): 730

OPERATIONS DATE : 15-Oct-13
REPORT DATE : 16-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): -146
Conductor: 18" 450
DRILLING DAYS: 7

Operations summary:

Wait on cement. RIH slick BHA & confirmed TOC at 691' MD. Worked on LO6-22 to take multishot survey. POOH, L/D slick BHA. RIH slick BHA to 691' MD, DOC from 691' to 730' MD, confirmed hard cement. POOH, L/D slick BHA.

Present operations:

Performing By Pass sliding at 734' MD (683' TVDss).

Forecast operations:

Continue by pass checking formation samples to 762' MD, 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: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA	FROM SURFACE				
LOBITOS	810	758	-708	11.77	-13.86

Remarks

Checked samples every feet to confirm formation cuttings increase. Cement plug set from 876' MD to 691' MD. Performed By Pass from 730' MD.

Well Cost:

AFE 3 785 040 US\$
DAILY 55 874 US\$
CUMULATED 665 430 US\$



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REPORT N° 7

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 730
Depth @ 24h00 (ft): 748
Depth @ 06h00 (ft): 748

OPERATIONS DATE : 16-Oct-13
REPORT DATE : 17-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 18
Conductor: 18" 450
DRILLING DAYS: 8

Operations summary:

M/U & RIH 17" directional BHA, drill out cement from 730' to 732' MD, took gyro survey to orient Toolface, performed time drilling from 732' to 748' MD, samples decrease & increase cement %. Attempted to use gravity toolface, negative, Gyro data took survey to confirm toolface according advice of SLB, stopped time drilling. POOH & L/D 17" directional BHA, waited on directional tools 12 1/4".

Present operations:

Performing by pass at 750' MD.

Forecast operations:

Drill ahead to 790' MD, possible take gyro survey. 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: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

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

Remarks

Last checked sample 750' MD 90% formation (SST-SD), 10% cement. Checked samples being taken every feet due by pass.
Performed By Pass from 730' MD. Due samples showed more cement during time drilling decided to change out 17" directional BHA by 12 1/4" directional BHA for more effective sliding.

Well Cost:

AFE	3 785 040	US\$
DAILY	43 975	US\$
CUMULATED	709 405	US\$



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REPORT N° 8

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	17-Oct-13
Mud Loggers:	G. Cardoza/H. Monasterio	REPORT DATE :	18-Oct-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	748	PROGRESS 00h00-24h00 (ft):	40
Depth @ 24h00 (ft):	788	Conductor:	18" 450
Depth @ 06h00 (ft):	788	DRILLING DAYS:	9

Operations summary:

M/U & RIH 12 1/4" directional BHA with Tricone bit, continued Time drilling from 748' to 788' MD. Cutting samples confirmed 100% foramtion from 752' MD. POOH & L/D 12 1/4" directional BHA, M/U & RIH 17" slick BHA to 748' MD. Enlarge hole with 17" BHA from 748' to 765' MD.

Present operations:

RIH 12 1/4" directional BHA & tricone bit to 300' MD.

Forecast operations:

RIH, Drill ahead to @ 840' MD with MWD, confirmed gravity tool face, POOH.

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: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 41
Filtrate (ml): 8.0

Provisional Formation Tops:

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

Remarks

Last sample 780' MD 100% formation, 40% Clyst, 40% Sst, 20% SD, NF. Last check sample 788' MD 100% formation, continue taking samples every feet.

Well Cost:

AFE	3 785 040	US\$
DAILY	46 296	US\$
CUMULATED	755 701	US\$



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REPORT N° 9

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	18-Oct-13
Mud Loggers:	G. Cardoza/H. Monasterio	REPORT DATE :	19-Oct-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	788	PROGRESS 00h00-24h00 (ft):	32
Depth @ 24h00 (ft):	820	Conductor:	18" 450
Depth @ 06h00 (ft):	820	DRILLING DAYS:	10

Operations summary:

Continued enlarge hole with 17" BHA from 765' to 773' MD, observed vibration on string and low rop. Decided POOH & L/D 17" slick BHA. M/U & RIH 12 1/4" directional BHA to 788' MD. Drilled sliding from 788' to 820' MD. Circulated, POOH & L/D directional BHA. M/U & RIH 12 1/4" slick BHA, took gyro survey on bottom. POOH & L/D 12 1/4" slick BHA. M/U & RIH 17" slick BHA. Circulated & condition hole to run 13 3/8" csg. POOH & L/D 17" slick BHA. Conditioned rig floor to run 13 3/8" csg. Installed & welded shoe & float collar. RUN 13 3/8" csg to 250' MD.

Present operations:

Performing cement job with cia. Halliburton.

Forecast operations:

Cement 13 5/8" csg, N/D diverter, install slip lock well head. N/U & Test 13 3/8" BOP.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	780 - 820	41	70		20	10				NF	CLYST: olive gy, olive bick, loc md dk gy, blkyl/sbblky, occ sstab, mod frm/frm, loc md sft, micmic, miccarb, sli calc, earthy surf. SST: md dk gy, loc md gy, 100% vff, hyal, smky, w dk & gn'sh gy lith grns, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, mod consl/mod fri, loc tight, p vis por. SD: hyal, smky, gy'sh lith grns i/p, 80% f, 20% m, sbang/sbrnd, w srt. TG: 1 C1: 53 C2: 1 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
732.00	3.53	298.70	731.58	-681.58		13.63	-3.73
748.00	3.70	294.67	747.55	-697.55		14.08	-4.63
762.00	3.98	294.51	761.52	-711.52		14.47	-5.48
809.00	4.97	271.15	808.38	-758.38		15.19	-9.00

Mud information:

Type: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 8.0

Provisional Formation Tops:

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

Remarks

Last sample 820' MD, 100% formation, 80% Clyst, 10% Sst, 10% SD, NF. Drilling department decided to run 13 3/8" csg to 773' MD, not to enlarge 12 1/4" hole from 773' to 820' MD.

Well Cost:

AFE	3 785 040	US\$
DAILY	82 478	US\$
CUMULATED	838 179	US\$



REPORT N° 10

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	20-Oct-13
Mud Loggers:	G. Cardoza/H. Monasterio	REPORT DATE :	21-Oct-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	820	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	820	Csg: 13 3/8"	773
Depth @ 06h00 (ft):	820	DRILLING DAYS:	12

Operations summary:

Worked on 13 5/8" BOP's. P/T BOP's. M/U 5" DP stands & rack on derrick. M/U & RIH 12 1/4" tricone bit with slick BHA from bottom to TOC at 714' MD. Drilled out soft cement & 13 3/8" csg accessories from 714' to 731' MD.

Present operations:

RIH 8 1/2" slick BHA to 675' MD.

Forecast operations:

Drill float collar & casing shoe with 8 1/2" tooth tricone bit to 820' MD. M/U 12 1/4" tricone bit & clean to 820' 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: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 41
Filtrate (ml):

Provisional Formation Tops:

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

Remarks

12 1/4" section will start today night or tomorrow early morning.

Well Cost:

AFE	3 785 040	US\$
DAILY	48 070	US\$
CUMULATED	1 044 851	US\$


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LOBITOS FIELD
LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/H. Monasterio
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 820
Depth @ 24h00 (ft): 830
Depth @ 06h00 (ft): 865

OPERATIONS DATE : 21-Oct-13
REPORT DATE : 22-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 10
Csg: 13 3/8" 773
DRILLING DAYS: 13

Operations summary:

Attempted to continue drilling without advance. POOH 12 1/4" tooth tricone bit & slick BHA. M/U & RIH 8 1/2" tooth tricone bit to 731' MD. DOC. Continued drilling out from 774' to 793' MD. POOH 8 1/2" tooth tricone bit to surface. M/U & RIH 12 1/4" tricone bit with directional BHA & RIH to 731' MD. DOC & enlarge inside csg from 8 1/2" to 12 1/4", enlarge hole to 12 1/4" ream to 820' MD. POOH & L/D 12 1/4" directional BHA. M/U & RIH 8 1/2" tricone bit with directional BHA & RIH to 820' MD. Drilled sliding from 820' to 830' MD.

Present operations:

RIH 8 1/2" directional BHA to 800' MD.

Forecast operations:

RIH 8 1/2" tooth bit with directional BHA, drilling sliding from 865' to @ 960' MD, take gyro surveys until finish of magnetic interference, enlarge hole to 12 1/4".

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
TALARA	820 - 865	73	100							NF	CLYST: olive blk, occ olive gy, blk/sbblk, md frm/frm, occ md sft, micmic, miccarb, v sl calc. TG: 1 C1: 43 C2: 0 C3: 0 C4: 0 C5: 0

Surveys:

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

Mud information:

Type: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 7.0

Provisional Formation Tops:

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

Remarks

So far have drilled 45' MD of mainly Clyst sequences of Talara Fm (Lobitos Mbr) with 1 unit (C1-C5) background gas. Will continue drilling with 8 1/2" directional BHA until finish magnetic interference & collision risk, then enlarge hole to 12 1/4".

Well Cost:

AFE 3 785 040 US\$
DAILY 65 322 US\$
CUMULATED 1 104 077 US\$



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REPORT N° 12

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	22-Oct-13
Mud Loggers:	G. Cardoza/H. Monasterio	REPORT DATE :	23-Oct-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	830	PROGRESS 00h00-24h00 (ft):	130
Depth @ 24h00 (ft):	960	Csg: 13 3/8"	773
Depth @ 06h00 (ft):	1269	DRILLING DAYS:	14

Operations summary:

Continued drilling sliding mode with 8 1/2" tricone bit from 830' to 865' MD. POOH directional BHA, RIH slick BHA took gyro survey. POOH slick BHA. M/U & RIH 8 1/2" tooth bit with directional BHA to 865' MD. Drilled 8 1/2" hole sliding & rotating from 865' to 955' MD, took gyro survey with directional BHA. Performed wiper trip to 820' MD, RIH to bottom & POOH 8 1/2" directional BHA. RIH 12 1/4" tricone bit with directional BHA to 300' MD. Cut & slipped 120' drilling line. Continued RIH 820' MD. Enlarge hole (8 1/2" to 12 1/4"), drilled sliding & rotating enlarging hole from 820' to 955' MD.

Present operations:

Drilling rotating at 1365' MD (1347' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %			Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS Mbr	865 - 1230	85	90		10	TR					NF	CLYST: olive blk, olive gy, occ md dk gy, blk/sbbly, loc sctab, frm/md frm, loc slty, micmic, miccarb, sl calc, sl earthy surf. SST: md dk gy, loc md gy, 100% vif, hyal, smky, mnr wh'sh hyal, w dk & gn'sh gy lithcs incl, sbang/sbrnd, w srt, arg mtz, calc cmt, md consl/md fri, occ ti, p vis por. SD: wh, smky, hyal, 100% f, sbang/sbrnd, w srt. TG: 2 C1: 150 C2: 1 C3: 0 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
882.00	5.60	232.00	881.25	-831.25		12.04	-12.40
956.00	8.89	235.70	954.65	-904.65		6.60	-19.97
1056.00	12.71	229.59	1052.87	-1002.87		-4.89	-34.74

Mud information:

Type: WBAC
Mud Weight (ppg): 9.2
Viscosity (sec): 42
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86

Remarks

So far have drilled 555' MD (588' TVDss) of mainly Clyst secuencias with seldom Sst-Sd stringers interbedded in Lobitos mbr (Talara Fm) & 592' MD (624'TVDss) 12 1/4" section, 2 units (C1-C2) as background gas.

Well Cost:

AFE	3 785 040	US\$
DAILY	51 261	US\$
CUMULATED	1 155 338	US\$



REPORT N° 13

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 960
Depth @ 24h00 (ft): 1838
Depth @ 06h00 (ft): 1838

OPERATIONS DATE : 23-Oct-13
REPORT DATE : 24-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 878
Csg: 13 3/8" 773
DRILLING DAYS: 15

Operations summary:

Drilled rotating & sliding from 960' to 1838' MD. While drilling showed gas cut MW to 9.3ppg. Circulated & increased to 9.8 ppg in & out. Took last gyro on bottom. POOH & L/D directional BHA & tricone bit.

Present operations:

PEPESA mechanics replace motor # 2 of rig drawworks.

Forecast operations:

Finish replacing motor #2 of rig drawworks. Continued RIH 12 1/4" BHA, Resume drilling 12 1/4" section.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	Dol %	Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS Mbr	1230 - 1650	158	100	TR	TR			NF	CLYST: olive blk, loc olive gy, occ md dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty i/p, micmic, loc miccarb, v sl calc, sl earthy surf. SST: md gy, loc med dk gy, lt olive gy, 100% vff, hyal, smky, mnr dk & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md consl/md fri, loc ti, p vis por. SD: .hyal, smky, 80% f, 20% m, tr c, sbang/sbrnd, w srt. TG: 2 C1: 231 C2: 5 C3: 1 C4: 0 C5: 0
LOBITOS Mbr	1650 - 1800	104	70	20	10			NF	CLYST: olive blk, loc olive gy, occ md dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty i/p, micmic, loc miccarb, v sl calc, sl earthy surf. SST: md gy, loc med dk gy, lt olive gy, 100% vff, hyal, smky, mnr dk & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, loc ti, p vis por. SD: .hyal, smky, 50% f, 40% m, 10% c, sbang/sbrnd, w srt. TG: 280 C1: 22616 C2: 1567 C3: 693 C4: 180 C5: 12
LOBITOS Mbr	1800 - 1838	79	100					NF	CLYST: olive blk, loc olive gy, occ med dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, loc slty, micmic, loc miccarb, v sl calc, smooth/sl earthy surf. TG: 37 C1: 3276 C2: 111 C3: 55 C4: 21 C5: 4

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1156.00	17.03	227.02	1149.49	-1099.49	58.16	-22.02	-53.84
1256.00	21.64	225.82	1243.83	-1193.83	89.80	-44.86	-77.79
1356.00	26.17	228.64	1335.23	-1285.23	129.62	-72.30	-107.58
1456.00	31.02	230.00	1423.01	-1373.01	177.22	-103.45	-143.89
1556.00	35.77	230.34	1506.47	-1456.47	232.14	-138.69	-186.15
1656.00	38.65	228.69	1586.11	-1536.11	292.49	-177.97	-232.12
1756.00	41.98	225.98	1662.35	-1612.35	356.95	-221.84	-279.64

Mud information:

Type: WBAC
Mud Weight (ppg): 9.8
Viscosity (sec): 49
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86

Remarks

So far have drilled 1028' MD (908' TVDss) of mainly Clyst secuencias with few Sst-Sd layers interbedded in Lobitos mbr (Talara Fm) & 1065' MD (944' TVDss) 12 1/4" section, 191 units (C1-C5) as background gas & up to 2436 units (C1-C5) as formation gas when Sst-Sd body showed up at 1680' MD. Resumed drilling @ 15:00 hrs.

Well Cost:

AFE 3 785 040 US\$
DAILY 82 152 US\$
CUMULATED 1 237 490 US\$



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REPORT N° 14

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 1838
Depth @ 24h00 (ft): 1838
Depth @ 06h00 (ft): 2096

OPERATIONS DATE : 24-Oct-13
REPORT DATE : 25-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 13 3/8" 773
DRILLING DAYS: 16

Operations summary:

M/U & RIH directional BHA & 12 1/4" PDC to shoe. Continued RIH with 5" DP to 1100' MD. POOH to shoe. Waited at shoe while PEPESA mechanics changed out motor # 2 of drawwork. Tested motor.

Present operations:

Drilling rotating at 2160' MD (1901' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS Mbr	1838 - 2100	176	100							NF	CLYST: md dk gy, loc olive blk, occ olive gy & dk gy, blk/sbblk, loc sblab/sblam, frm/md frm, micmic, miccarb, v sl calc, sl earthy surf. TG: 5 C1: 511 C2: 13 C3: 1 C4: 0 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
1836.38	45.00	225.11	1720.66	-1670.66	411.99	-260.58	-319.12
1931.41	49.60	218.35	1785.13	-1735.13	480.98	-312.73	-365.42
2024.87	52.49	217.55	1843.89	-1793.89	552.38	-370.04	-410.11

Mud information:

Type: WBAC
Mud Weight (ppg): 9.8
Viscosity (sec): 48
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86

Remarks

So far have drilled 1350' MD (1142' TVDss) of mainly Clyst sequences in Lobitos mbr (Talara Fm) & 1387' MD (1178' TVDss) 12 1/4" section, 5 units (C1-C5) as background gas. Resumed drilling @ 02:00 hrs today.

Well Cost:

AFE 3 785 040 US\$
DAILY 50 085 US\$
CUMULATED 1 287 575 US\$

2877.53	69.45	220.53	2203.46	-2153.46	1315.82	-976.66	-881.76
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Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 91' MD (32' TVDss) of mainly Cyst sequences in Chacra Fm. below Sst-Sd bodies sequences interbedded with Cyst up to 10% Fluo in Terebratula mbr (Talara Fm), & 2173' MD (1454' TVDss) 12 1/4" section, 56 units (C1-C5) as background gas & up to 712 units (C1-C5) at 2627' MD as formation gas. Last sample 2940' MD 100%. LWD-GR shows gaps due high ROP. Drilling will resume at @ 14:00 hrs.

Well Cost:

AFE	3 785 040	US\$
DAILY	74 799	US\$
CUMULATED	1 362 374	US\$



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REPORT N° 15

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 1838
Depth @ 24h00 (ft): 2858
Depth @ 06h00 (ft): 2946

OPERATIONS DATE : 25-Oct-13
REPORT DATE : 26-Oct-13
SPUD DATE : 7-Oct-13
PROGRESS 00h00-24h00 (ft): 1020
Csg: 13 3/8" 773
DRILLING DAYS: 17

Operations summary:

Drilled rotating & sliding from 1838' to 2858' MD.

Present operations:

Wiper trip PO at 1600' MD. Current hole depth 2946' MD (2177' TVDss).

Forecast operations:

RIH, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
LOBITOS Mbr	2100 - 2300	134	100					TR		NF	CLYST: md dk gy, loc olive blk, occ olive gy, dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, micmic, miccarb, v sl calc, sl earthy surf. TG: 12 C1: 1159 C2: 31 C3: 7 C4: 1 C5: 0
TEREBRATULA Mbr	2300 - 2460	141	50		20	30				NF	CLYST: md dk gy, loc olive blk, dk gy, occ olive gy, blk/sbblky, loc sbtab/sblam, occ sbply, frm/md frm, loc slty, micmic, miccarb, sl calc, sl earthy surf. SST: md lt gy, loc lt gy, 100% vff, tr m, hyal, smky, gy'sh & gn'sh gy lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, w glau & coal incl i/p, p vis por. SD: wh, smky, wh'sh hyal & hyal i/p, 30% vc/cgl, 30% c, 20% m, 20% f, sbang/sbrnd, vp srt. TG: 129 C1: 11838 C2: 285 C3: 89 C4: 27 C5: 2
TEREBRATULA Mbr	2460 - 2580	118	100							NF	CLYST: md dk gy, loc olive blk, dk gy, occ olive gy, blk/sbblky, loc sbtab/sblam, occ sbply, frm/md frm, loc slty, micmic, miccarb, v sl calc, sl earthy/smooth surf. TG: 27 C1: 2428 C2: 63 C3: 24 C4: 9 C5: 1
TEREBRATULA Mbr	2580 - 2820	105	70		20	10				NF - 10	CLYST: md dk gy, olive blk, loc dk gy, blk/sbblky, loc sbtab/sblam, occ sbply, frm/md frm, loc slty, micmic, miccarb, non calc, sl earthy surf. SST: md lt gy, lt gy, occ md gy, 100% vff, hyal, smky, mnr gy'sh & dk lith grns, sbang/sbrnd, w srt, arg mtx, calc cmt, md fri/md consl, p vis por. SD: wh, hyal, wh'sh hyal & mlky wh i/p, 70% vff, 30% m, tr c, sbang/sbrnd, occ ang, w srt. FLUO: nvos, pin point, pl yel'sh nat fluo, slw, wk, fnt, even, yel'sh wh cut fluo, mky wh rr under U. V. lt, nrr at nat lt. POS. TG: 124 C1: 9727 C2: 411 C3: 248 C4: 100 C5: 10
TEREBRATULA - CHACRA	2820 - 2946	89	100							NF	CLYST: md dk gy, dk gy, occ olive blk, blk/sbblky, loc sbtab, occ sblam, frm, loc md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. TG: 32 C1: 2692 C2: 77 C3: 38 C4: 17 C5: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2119.98	55.54	218.14	1899.76	-1849.76	628.28	-430.80	-457.32
2215.43	59.23	218.34	1951.20	-1901.20	707.89	-493.94	-507.08
2310.47	63.48	218.25	1996.75	-1946.75	790.65	-559.38	-558.76
2406.62	66.90	218.67	2037.09	-1987.09	877.40	-627.71	-613.03
2498.33	69.32	217.65	2071.28	-2021.28	962.04	-694.62	-665.60
2591.96	70.12	216.71	2103.73	-2053.73	1049.33	-764.60	-718.68
2685.32	69.98	216.45	2135.59	-2085.59	1136.55	-835.07	-770.97
2780.46	68.94	217.57	2168.97	-2118.97	1225.23	-906.21	-824.60

Mud information:

Type: WBAC
Mud Weight (ppg): 10.2
Viscosity (sec): 49
Filtrate (ml): 7.0



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REPORT N° 16

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 2858
Depth @ 24h00 (ft): 3296
Depth @ 06h00 (ft): 3606

OPERATIONS DATE : 26-Oct-13
REPORT DATE : 27-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 438
Csg: 13 3/8" 773
DRILLING DAYS: 18

Operations summary:

Continued drilling rotating & sliding from 2858' to 2946' MD. Performed wiper trip to shoe back reaming & washed down (tight hole). Resumed drilling rotating & sliding from 2946' to 3290' MD.

Present operations:

Drilling rotating at 3700' MD (2444' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	2946 - 3600	105	100	TR						NF	CLYST: md dk gy, occ olive blk, dk gy, blk/sbblky, loc sbtab/sblam, frm/md frm, slty i/p, loc micmic, miccarb, n calc/v sl calc, earthy/sl earthy surf. SLST: md gy, md dk gy, blk/sbblky, occ sbtab, md frm/frm, micmic, miccarb, grad to vf sst i/p, sl calc, earthy. TG: 8 C1: 668 C2: 23 C3: 9 C4: 4 C5: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
2972.71	70.13	220.65	2236.34	-2186.34	1405.11	-1044.49	-939.88
3066.53	70.06	220.11	2268.28	-2218.28	1493.29	-1111.69	-997.03
3160.49	68.06	219.34	2301.86	-2251.86	1580.98	-1179.18	-1053.11
3253.17	68.59	219.44	2336.09	-2286.09	1667.04	-1245.74	-1107.77
3348.69	69.72	219.25	2370.08	-2320.08	1756.24	-1314.77	-1164.36
3443.95	68.77	219.65	2403.83	-2353.83	1845.26	-1383.56	-1220.96
3537.76	69.38	219.82	2437.34	-2387.34	1932.84	-1450.94	-1276.97

Mud information:

Type: WBAC
Mud Weight (ppg): 10.3
Viscosity (sec): 49
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 845' MD (300' TVDss) of mainly Clyst sequences in Chacra Fm. & 2927' MD (1721' TVDss) 12 1/4" section, 7 units (C1-C5) as background gas. Last sample 3600' MD 100%. LWD-GR shows gaps due high ROP.

Well Cost:

AFE 3 785 040 US\$
DAILY 67 196 US\$
CUMULATED 1 429 570 US\$



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REPORT N° 17

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 3296
Depth @ 24h00 (ft): 4026
Depth @ 06h00 (ft): 4026

OPERATIONS DATE : 27-Oct-13
REPORT DATE : 28-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 730
Csg: 13 3/8" 773
DRILLING DAYS: 18

Operations summary:

Continued drilling rotating & sliding from 3296' to 4026' MD. Circulated & condition hole prior wiper trip. PO to 2400' MD back reaming, drilling department confirmed to run 9 5/8" csg.

Present operations:

L/D directional BHA.

Forecast operations:

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

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %			Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	3600 - 4026	82	100								NF	CLYST: md dk gy, loc dk gy, occ olive blk, blk/sbblk, loc sbtab/sblam, mod frm/frm, non calc, loc md sft, slty i/p, occ w/coal incl, micmic, miccarb, sl earthy/smooth surf. TG: 7 C1: 588 C2: 24 C3: 10 C4: 4 C5: 2

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
3632.55	70.24	219.90	2470.05	-2420.05	2021.78	-1519.23	-1333.99
3727.45	70.60	219.74	2501.86	-2451.86	2111.16	-1587.91	-1391.25
3820.89	71.01	219.67	2532.58	-2482.58	2199.38	-1655.80	-1447.62
3916.24	70.69	219.79	2563.86	-2513.86	2289.42	-1725.07	-1505.19
3956.33	70.42	219.92	2577.20	-2527.20	2327.22	-1754.09	-1529.42
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Mud information:

Type: WBAC
Mud Weight (ppg): 10.6
Viscosity (sec): 55
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 1171' MD (405' TVDss) of mainly Clyst sequences in Chacra Fm, & 3253' MD (1827' TVDss) 12 1/4" section, 5 units (C1-C5) as background gas. Last sample 4026' MD 100%. LWD-GR shows gaps due high ROP. Due wiper trip performance drilling department decided to set 9 5/8" csg at 4026' MD.

Well Cost:

AFE	3 785 040	US\$
DAILY	77 439	US\$
CUMULATED	1 507 009	US\$


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LOBITOS FIELD
LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 4026
Depth @ 06h00 (ft): 4026

OPERATIONS DATE : 28-Oct-13
REPORT DATE : 29-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 13 3/8" 773
DRILLING DAYS: 19

Operations summary:

POOH directional BHA from 2400' to surface backreaming. TIH 12 1/4" conventional BHA. Washed down several spots to bottom, performed wiper trip to shoe.

Present operations:

PO slick BHA at 3400' MD.

Forecast operations:

POOH, L/D slick BHA, Run 9 5/8" 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: WBAC
Mud Weight (ppg): 10.8
Viscosity (sec): 55
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Possibly start drilling 8 1/2" section on Friday.

Well Cost:

AFE 3 785 040 US\$
DAILY 75 445 US\$
CUMULATED 1 582 454 US\$



REPORT N° 19

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 4026
Depth @ 06h00 (ft): 4026

OPERATIONS DATE : 29-Oct-13
REPORT DATE : 30-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 20

Operations summary:

Continued TIH slick BHA from 1650' to bottom, washed down. Circulated & conditioned hole. POOH string from 4026' to surface backreaming. Run 9 5/8" intermediate csg to 3390' MD.

Present operations:

Performing cement job.

Forecast operations:

WOC. Install drilling spool & BOP stack. Test 13 5/8" BOP.

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: WBAC
Mud Weight (ppg): 10.8
Viscosity (sec): 55
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Possibly start drilling 8 1/2" section on Friday.

Well Cost:

AFE 3 785 040 US\$
DAILY 54 909 US\$
CUMULATED 1 637 363 US\$



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REPORT N° 20

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 4026
Depth @ 06h00 (ft): 4026

OPERATIONS DATE : 30-Oct-13
REPORT DATE : 31-Oct-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 21

Operations summary:

Continued running 9 5/8" casing from 3390' to 4026' MD. Circulated, R/U cement lines. Performed cement job. L/D cement lines. WOC. Installed casing spool. N/U & tested 13 5/8" BOP stack.

Present operations:

M/U 8 1/2" directional BHA.

Forecast operations:

Drill out cement & 9 5/8" csg accessories, 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: WBAC
Mud Weight (ppg): 10.8
Viscosity (sec): 55
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

• Drill 8 1/2" section with SLB power drive tool.

Well Cost:

AFE	3 785 040	US\$
DAILY	243 777	US\$
CUMULATED	1 881 140	US\$



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REPORT N° 21

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 4026
Depth @ 06h00 (ft): 4215

OPERATIONS DATE : 31-Oct-13
REPORT DATE : 1-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 22

Operations summary:

Performed BOP test, ok. Pepesa P/U 5" DP from barge to platform. M/U & RIH 8 1/2" PDC bit & directional BHA to 3941' MD (top of cement). Drilled out cement, plugs and floating equipment from 3941' to 4026' MD. Performed CIT, ok.

Present operations:

Drilling with power drive at 4282' MD (2637' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4026 - 4260	77	100		TR			TR		NF	CLYST: md dk gy, md gy, occ olive gy, blk/sbbly, loc sbtab, occ sblam, md frm/frm, loc md sft, silty, micmic, miccarb, n calc, sl earthy surf. DOL: dk yel'sh brn, loc olive gy, mass, blk/sbbly, hd/md hd, irr frac. SST: lt gy, md lt gy, occ v lt gy, 100% vlf, hyal, smky, mnr dk lith grns, sbang/sbrnd, w srt, scarce arg mtx, calc cmt, md fri/md consl, p vis por. TG: 3 C1: 221 C2: 10 C3: 4 C4: 2 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4142.78	70.25	219.57	2639.95	-2589.95	2502.75	-1889.09	-1641.68

Mud information:

Type: WBAC
Mud Weight (ppg): 10.8
Viscosity (sec): 48
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks:

So far have drilled 1427' MD (492' TVDss) of mainly Clyst sequences in Chacra Fm, & 256' MD (87' TVDss) 8 1/2" section, 7 units (C1-C5) as background gas. Last sample 4260' MD 100% Clyst. Start drilling 8 1/2" section at 00:00 hrs today.

Well Cost:

AFE 3 785 040 US\$
DAILY 100 561 US\$
CUMULATED 1 981 701 US\$



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REPORT N° 22

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 4026
Depth @ 24h00 (ft): 5030
Depth @ 06h00 (ft): 5160

OPERATIONS DATE : 1-Nov-13
REPORT DATE : 2-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 1004
Csg: 9 5/8" 4026
DRILLING DAYS: 23

Operations summary:

Drilled formation from 4026' to 4037' MD, circulated & confirmed with geological sample. Displaced contaminated mud by new mud. Performed FIT, 430 psi (EMW: 14 ppg), OK. Continued drilling with power drive from 4037' to 5030' MD.

Present operations:

Drilling rotating at 5200' MD (2559' TVDss).

Forecast operations:

Perform wiper trip, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	4260 - 5130	74	100	TR						NF	CLYST: md dk gy, loc md gy, occ dk gy, olive gy, blk/sbbkly, loc sbbkly, frm/md frm, loc slty, micmic, miccarb, n calc, sl earthy surf. SLST: md gy, loc md dk gy, blk/sbbkly, md frm/frm, micmic, miccarb, grad to vf sst i/p, sl calc/calc, earthy surf. TG: 5 C1: 453 C2: 21 C3: 9 C4: 4 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
4228.83	69.85	219.98	2669.31	-2619.31	2583.62	-1951.25	-1693.42
4325.40	69.72	220.23	2702.68	-2652.68	2674.23	-2020.57	-1751.80
4422.07	69.41	220.15	2736.43	-2686.43	2764.81	-2089.77	-1810.26
4518.72	69.38	220.07	2770.44	-2720.44	2855.27	-2158.96	-1868.54
4613.54	69.27	220.20	2803.92	-2753.92	2943.97	-2226.78	-1925.73
4707.73	69.31	220.16	2837.23	-2787.23	3032.07	-2294.09	-1982.57
4800.33	69.35	220.25	2869.91	-2819.91	3118.71	-2360.26	-2038.50
4895.59	69.45	220.34	2903.43	-2853.43	3207.87	-2428.28	-2096.17
4988.49	69.42	220.34	2936.06	-2886.06	3294.85	-2494.57	-2152.47
5083.66	69.38	220.14	2969.55	-2919.55	3383.93	-2562.58	-2210.02
5178.35	69.45	219.98	3002.84	-2952.84	3472.57	-2630.42	-2267.07

Mud information:

Type: WBAC
Mud Weight (ppg): 10.8
Viscosity (sec): 50
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 2345' MD (814' TVDss) of mainly Clyst sequences in Chacra Fm, & 1174' MD (409' TVDss) 8 1/2" section, 5 units (C1-C5) as background gas. Last sample 5130' MD 100% Clyst. ROP avg. 74 ft/hr. Rio Bravo Fm. Top expected at 3450' TVDss. Wiper trip to shoe (4026' MD) @ 08:00 hrs today.

Well Cost:

AFE 3 785 040 US\$
DAILY 59 568 US\$
CUMULATED 2 041 269 US\$



REPORT N° 23

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5030
Depth @ 24h00 (ft): 5366
Depth @ 06h00 (ft): 5650

OPERATIONS DATE : 2-Nov-13
REPORT DATE : 3-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 336
Csg: 9 5/8" 4026
DRILLING DAYS: 24

Operations summary:

Continued drilling with power drive from 5030' to 5324' MD. Performed wiper trip to shoe backreaming. Cut & slipped drilling line. RIH washing down to bottom. Resumed drilling from 5324' to 5366' MD.

Present operations:

Drilling with power drive at 5664' MD (3120' TVDss).

Forecast operations:

Drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sst %	Sd %	Lmst %	Dol %	Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	5130 - 5550	66	100					NF	CLYST: md dk gy, loc dk gy, occ md gy, blk/sbblky, loc sblab, frm/md frm, occ md sft, silty, occ w/coal incl, micmic, miccarb, sl calc/n calc, sl earthy surf. TG: 7 C1: 649 C2: 21 C3: 6 C4: 2 C5: 0
CHACRA	5550 - 5590	72	80	10	10	TR		NF	CLYST: olive gy, loc md dk gy, occ olive blk, blk/sbblky, loc sblab, occ sblam, frm/mod frm, loc silty, micmic, miccarb, sl calc, sl earthy surf. SLST: md dk gy, md gy, blk/subblky, md frm/frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. SST: md gy, md dk gy, loc olive gy, 100% vf/f, hyal, smky, mnr dk & gy'sh lith grns, sbang/sbrnd, w srt, arg mtz, scs calc cmt, md consl/md fri, loc consl, drty, abd glauc incl, p vis por. SD: wh'sh hyal, hyal, mnr smky, 100% vf/f, sbang/sbrnd, w srt. TG: 33 C1: 3091 C2: 68 C3: 12 C4: 1 C5: 0
CHACRA	5590 - 5640	88	100					NF	CLYST: dk gy, md dk gy, occ md gy, blk/sbblky, loc sblab/sblam, frm/md frm, silty, occ w glau incl, micmic, miccarb, sl calc, sl earthy surf. TG: 21 C1: 1958 C2: 49 C3: 11 C4: 2 C5: 0

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5272.32	69.75	220.15	3035.60	-2985.60	3560.64	-2697.83	-2323.76
5366.61	69.97	220.42	3068.06	-3018.06	3649.16	-2765.36	-2381.00
5461.68	69.94	220.10	3100.65	-3050.65	3738.47	-2833.51	-2438.72
5555.54	69.86	220.05	3132.90	-3082.90	3826.60	-2900.96	-2495.46
5649.28	70.07	220.06	3165.02	-3115.02	3914.67	-2968.37	-2552.14

Mud information:

Type: WBAC
Mud Weight (ppg): 10.9
Viscosity (sec): 51
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 2809' MD (975' TVDss) of mainly Clyst secuencias & seldom Sst-Sd stringers in Chacra Fm, & 1638' MD (570' TVDss) 8 1/2" section, 10 units (C1-C5) as background gas. Last sample 5640' MD 100% Clyst. ROP avg. 65 ft/hr. Rio Bravo Fm. Top expected at 3450' TVDss. Resumed drilling at 23:00 hrs.

Well Cost:

AFE 3 785 040 US\$
DAILY 62 127 US\$
CUMULATED 2 103 396 US\$



REPORT N° 24

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5366
Depth @ 24h00 (ft): 5983
Depth @ 06h00 (ft): 5983

OPERATIONS DATE : 3-Nov-13
REPORT DATE : 4-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 617
Csg: 9 5/8" 4026
DRILLING DAYS: 25

Operations summary:

Continued drilling with power drive from 5366' to 5983' MD. Due rough seas decided to PO string to shoe, disconnected electric lines & hoses & separate barge.

Present operations:

Wait on calm seas at shoe. Current hole depth 5983' MD (3229' TVDss).

Forecast operations:

Wait on calm seas. Approach Perla barge to platform. Connect lines & hoses. RIH, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Slst %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	5640 - 5980	57	100	TR						NF	CLYST: dk gy, md dk gy, occ md gy, blyk/sbblky, loc sbtab, mod frm/frm, slty, micmic, miccarb, sl calc/n calc, sl earthy surf. SLST: md gy, md dk gy, blyk/sbblky, md frm/frm, micmic, miccarb, grad to vf sst, sl calc, earthy surf. TG: 22 C1: 2013 C2: 52 C3: 17 C4: 8 C5: 1

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5743.61	69.96	221.01	3197.26	-3147.26	4003.31	-3035.74	-2609.75
5835.95	69.99	221.05	3228.88	-3178.88	4090.07	-3101.19	-2666.70

Mud information:

Type: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 53
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

So far have drilled 3128' MD (1084' TVDss) of mainly Clyst sequences & seldom Slst stringers in Chacra Fm, & 1957' MD (679' TVDss) 8 1/2" section, 22 units (C1-C5) as background gas & up to 141 units (C1-C5) as swab gas at 5972' MD. Last sample 5980' MD 100% Clyst. ROP avg. 57 ft/hr. Rio Bravo Fm. Top expected at 3450' TVDss.

Well Cost:

AFE 3 785 040 US\$
DAILY 79 380 US\$
CUMULATED 2 182 776 US\$



SAVIA
PERÚ

REPORT N° 25

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5983
Depth @ 24h00 (ft): 5983
Depth @ 06h00 (ft): 5983

OPERATIONS DATE : 4-Nov-13
REPORT DATE : 5-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 26

Operations summary:

Continued waiting on calm seas.

Present operations:

Wait on calm seas.

Forecast operations:

Wait on calm seas. Approach Perla barge to platform. Connect lines & hoses. RIH same directional BHA, drill ahead.

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: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Rio Bravo Fm. Top expected at 3450' TVDss. Wait on calm seas since 03/11 at 20:00 hrs.

Well Cost:

AFE 3 785 040 US\$
DAILY 43 548 US\$
CUMULATED 2 226 324 US\$



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REPORT N° 26

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: G. Cardoza/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5983
Depth @ 24h00 (ft): 5983
Depth @ 06h00 (ft): 5983

OPERATIONS DATE : 5-Nov-13
REPORT DATE : 6-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 26

Operations summary:

Continued waiting on calm seas.

Present operations:

Wait on calm seas.

Forecast operations:

Wait on calm seas. Approach Perla barge to platform. Connect lines & hoses. RIH same directional BHA, 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: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Rio Bravo Fm. Top expected at 3450' TVDss. Wait on calm seas since 03/11 at 20:00 hrs.

Well Cost:

AFE 3 785 040 US\$
DAILY 43 123 US\$
CUMULATED 2 269 447 US\$



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REPORT N° 27

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: R. Otoyá/E. Santisteban
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5983
Depth @ 24h00 (ft): 5983
Depth @ 06h00 (ft): 5983

OPERATIONS DATE : 6-Nov-13
REPORT DATE : 7-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 29

Operations summary:

Continued waiting on calm seas. Approached perla barge to platform, connected lines & hoses, Circulated & RIH to 4500' MD, due rough seas continued approaching barge to platform, decided to PO to shoe, disconnected lines & hoses, separated barge. Waited on calm seas.

Present operations:

Wait on calm seas.

Forecast operations:

Wait on calm seas. Approach Perla barge to platform. Connect lines & hoses. RIH same directional BHA, 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: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Rio Bravo Fm. Top expected at 3450' TVDss. Wait on calm seas since 03/11 at 20:00 hrs.

Well Cost:

AFE	3 785 040	US\$
DAILY	44 042	US\$
CUMULATED	2 364 334	US\$



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REPORT N° 28

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	7-Nov-13
Mud Loggers:	R. Otoyá/L. Agurto	REPORT DATE :	8-Nov-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	5983	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5983	Csg: 9 5/8"	4026
Depth @ 06h00 (ft):	5983	DRILLING DAYS:	30

Operations summary:

Waited on calm seas, broke anchor line, changed out anchor line.

Present operations:

Finish repairing anchor line.

Forecast operations:

Approach Perla barge to platform. Connect lines & hoses. RIH same directional BHA, 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: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Rio Bravo Fm. Top expected at 3450' TVDss. Wait on calm seas since 03/11 at 20:00 hrs.

Well Cost:

AFE	3 785 040	US\$
DAILY	45 768	US\$
CUMULATED	2 366 060	US\$



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REPORT N° 29

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	8-Nov-13
Mud Loggers:	L. Agurto/R. Otoyá	REPORT DATE :	9-Nov-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	5983	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	5983	Csg: 9 5/8"	4026
Depth @ 06h00 (ft):	5983	DRILLING DAYS:	31

Operations summary:

Waited on calm seas. Set anchor, with tug boat Tere. Perla barge (Cia. Tramarsa) with winch, not 100% operative. Continued waiting on calm seas.

Present operations:

Perla barge approaching to platform.

Forecast operations:

Connect lines & hoses. RIH same directional BHA, drill ahead.

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: WBAC
Mud Weight (ppg): 11.0
Viscosity (sec): 56
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Rio Bravo Fm. Top expected at 3450' TVDss. Wait on calm seas since 03/11 at 20:00 hrs.

Well Cost:

AFE	3 785 040	US\$
DAILY	43 562	US\$
CUMULATED	2 407 896	US\$



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PERÚ

REPORT N° 30

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5983
Depth @ 24h00 (ft): 5983
Depth @ 06h00 (ft): 5984

OPERATIONS DATE : 9-Nov-13
REPORT DATE : 10-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 32

Operations summary:

Waited on calm seas. Cia. Tramarsa approached barge to Platform. Cia. Pepesa connected hoses & lines. Circulateed & RIH washing down from 4023' to 5380' MD.

Present operations:

Drilling with power dirve at 6025' MD.

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: WBAC
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			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57

Remarks

Resumed drilling at 06:00 hrs. Rio Bravo Fm. Top expected at 3450' TVDss. MWD-GR battery life 2 days, GR readings only real time mode due full memory.

Well Cost:

AFE 3 785 040 US\$
DAILY 47 891 US\$
CUMULATED 2 455 787 US\$

POSS. RIO BRAVO	6380 - 6480	55	90	TR	10	TR				NF	CLYST: md dk gy, loc md gy, occ dk gy, blkly/sbbkly, loc sbtat, amorph i/p, md frm, occ w coal veins incl, slty i/p, micmic, miccarb, non/v sl calc, sl earthy surf. SLST: md dk gy, loc md gy, blkly/sbbkly, md frm, grad to vf sst, micmic, miccarb, sl calc, earthy surf. SST: lt gy, md lt gy, loc md gy, 100% vf, tr f, hyal, smky, dk mnrl incl i/p, sbrnd, w srt, loc arg mtx, loc calc cmt, md fri/md consl, drty i/p, p vis por. SD: wh, smky, hyal, 100% f, tr m, sbang/sbrnd, w srt. TG: 25 C1: 2071 C2: 60 C3: 41 C4: 22 C5: 3
POSS. RIO BRAVO	6480 - 6540	33	20		30	50				TR	CLYST: md dk gy, loc md gy, occ dk gy, blkly/sbtat, loc sblam, md frm, loc md sft, occ w coal veins incl, slty i/p, micmic, miccarb, v sl calc, sl earthy surf. SST: lt gy, md lt gy, loc md gy, 100% vf, tr f, hyal, smky, gn'sh gy & dk mnrl incl i/p, sbrnd, w srt, occ arg mtx, calc cmt, md fri/md consl, w shell frag incl, p vis por. SD: wh, smky, hyal, 60% f, 40% m, tr c, sbang/sbrnd, w srt. FLUO: nvos, pin point, dull, yell'sh nat fluor, crsh, wk, fnt, even, pal yell'sh cut, pal yel rr under U. V. lt, nvrr at nat lt. VPOS TG: 37 C1: 2914 C2: 163 C3: 61 C4: 38 C5: 6
POSS. RIO BRAVO	6540 - 6600	44	90		10					NF	CLYST: md dk gy, occ dk gy, blkly/sbbkly, loc sbtat/sbplty, md frm/frm, micmic, miccarb, v sl calc, sl earthy surf. SLST: md dk gy, loc md gy, blkly/sbbkly, md frm, grad to vf sst, micmic, miccarb, sl calc, earthy surf. TG: 69 C1: 4938 C2: 522 C3: 114 C4: 91 C5: 18

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
5931.39	70.04	220.72	3261.49	-3211.49	4179.76	-3170.56	-2723.59
6025.92	69.95	222.19	3293.83	-3243.83	4268.58	-3237.13	-2782.40
6118.50	70.11	223.03	3325.45	-3275.45	4355.54	-3301.17	-2841.31
6214.63	69.78	223.42	3358.42	-3308.42	4445.76	-3366.97	-2903.15
6309.92	69.57	223.78	3391.51	-3341.51	4535.01	-3431.68	-2964.77
6404.71	69.67	224.26	3424.53	-3374.53	4623.73	-3495.57	-3026.52
6489.69	69.64	224.77	3454.07	-3404.07	4703.25	-3552.39	-3082.38

Type: WBAC

Provisional Formation Tops:

Remarks

Well Cost:



REPORT N° 31

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 5983
Depth @ 24h00 (ft): 6463
Depth @ 06h00 (ft): 6595

OPERATIONS DATE : 10-Nov-13
REPORT DATE : 11-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 480
Csg: 9 5/8" 4026
DRILLING DAYS: 33

Operations summary:

RIH washing down from 5380' to 5983' MD, circulated hole to shakers clean. Resumed drilling with power drive from 5984' to 6463' MD.

Present operations:

Drilling with power drive at 6645' MD (3458' TVDss).

Forecast operations:

Drill ahead until MWD battery life ends.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
CHACRA	5983 - 6050	35	100							NF	CLYST: md dk gy, loc dk gy, blkly/subblky, loc shtab, md frm/frm, slty i/p, micmic, miccarb, loc v sl calc, sl earthy surf. TG: 16 C1: 1188 C2: 130 C3: 25 C4: 16 C5: 6
CHACRA	6050 - 6080	51	70		30					NF	CLYST: md dk gy, loc dk gy, blkly/subblky, loc shtab, md frm/frm, slty i/p, micmic, miccarb, loc v sl calc, sl earthy/smooth surf. SST: md gy, md lt gy 100% vf, tr f, hyal, smky, dk & gy'sh lith grns, sbang/sbrnd, w srt, loc arg mtx, calc cmt, md consl, loc pyr incl, p vis por. TG: 17 C1: 1232 C2: 141 C3: 28 C4: 20 C5: 6
CHACRA	6080 - 6150	49	80	10	10					NF	CLYST: md dk gy, loc dk gy, md lt gy, blkly/shtab, md frm/frm, slty i/p, micmic, miccarb, loc v sl calc, sl earthy surf. SLST: md dk gy, md gy, blkly/subblky, md frm, loc pyritized, grad to v f sst, micmic, miccarb, sl calc, sl earthy surf. SST: md gy, md lt gy 100% vf, hyal, smky, dk & gy'sh lith grns, sbang/sbrnd, w srt, loc arg mtx, calc cmt, consl, loc pyr diss on surf, p vis por. TG: 31 C1: 2359 C2: 233 C3: 44 C4: 26 C5: 8
POSS. RIO BRAVO	6150 - 6210	53	20		60	20				NF - TR	CLYST: md dk gy, loc dk gy, blkly/sbblky, loc shtab, md frm/frm, slty i/p, micmic, miccarb, loc v sl calc, sl earthy surf. SST: md lt gy, loc lt gy, 100% vf/f, hyal, smky, mnr wh'sh lt gy, dk & gn'sh gy lith grns i/p, sbang/sbrnd, w srt, calc cmt, md fri/consl, loc pyr incl, p/f vis por. SD: wh, smky, wh'sh hyal i/p, 60% f, 40% m, tr c, sbang/sbrnd, p/f srt. FLUO: nvos, pin point, dull, yel'sh nat fluo, crsh, wk, fnt, even, pal yell'sh cut, pal yel rr under U. V. lt, nvrr at nat lt. VPOS. TG: 52 C1: 3769 C2: 411 C3: 93 C4: 53 C5: 15
POSS. RIO BRAVO	6210 - 6320	47	70	30						NF	CLYST: md dk gy, occ dk gy, blkly/sbblky, loc shtab, md frm, slty i/p, micmic, miccarb, v sl calc, sl earthy surf. SLST: md gy, md dk gy, blkly/sbblky, md frm, grad to vf sst, micmic, miccarb, sl calc, earthy surf. TG: 26 C1: 1839 C2: 233 C3: 44 C4: 26 C5: 7
POSS. RIO BRAVO	6320 - 6380	45	10	TR	60	20				NF	CLYST: md dk gy, occ dk gy, blkly/sblam, loc sbply, md frm, slty i/p, micmic, miccarb, v sl calc, sl earthy surf. SLST: md dk gy, loc md gy, blkly/sbblky, loc shtab, md frm, sl calc, md frm, grad to vf sst, micmic, miccarb, earthy surf. SST: lt gy, md lt gy, loc md gy, 100% vf/f, hyal, smky, mnr gy'sh & dk lith grns, sbrnd, w srt, loc arg mtx, calc cmt, md consl, p vis por. SD: wh, hyal, mnr wh'sh hyal, 80% f, 20% m, sbang/sbrnd, w srt. TG: 22 C1: 1775 C2: 94 C3: 28 C4: 19 C5: 4

RIO BRAVO	6900 - 7023	80	10		50	40							25 - 60	CLYST: md dk gy, loc dk gy, bkly/sbtap, loc sbplyt, md frm, micmic, miccarb, non calc, slty i/p, sl earthy/smooth surf. SST: lt gy, loc v lt gy, 100% f, tr m, hyal, smky, mnrr dk lith grns, sbrnd, w srt, scs calc cmt, md consl, loc w coal veins incl, fr vis por. SD: hyal, smky, mnrr wh'sh hyal, 70% f, 30% m, tr c, sbrnd/sbang, w srt. FLUO: nvos, spotty/mott, pal, yell'sh nat fluo, slw, wk, pal/br, even, yell'sh wh cut, pal, yell'sh rr under U.V. It, nvrr at nat lt, F/GOS. TG: 235 C1: 17042 C2: 1787 C3: 403 C4: 257 C5: 51
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Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
6585.19	69.41	224.61	3487.40	-3437.40	4792.90	-3617.70	-3143.90
6677.97	68.29	223.49	3520.49	-3470.49	4879.51	-3682.72	-3201.13
6773.83	66.66	224.19	3557.21	-3507.21	4967.95	-3746.59	-3262.45
6866.09	65.57	224.32	3594.57	-3544.57	5052.17	-3807.01	-3321.32
6958.48	65.39	223.21	3633.08	-3583.08	5136.19	-3869.00	-3378.05

Type:	WBAC
Mud Weight (ppg):	11.2
Viscosity (sec):	58
Filtrate (ml):	7.0

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

So far have drilled 869' MD (322' TVDs) within mainly Sst-Sd bodies interbedded with Clyst stringers with Fluo up to 60% (nvos, spotty/mott, pal/br, yell'sh nat fluo, slw, wk, pal/br, even, yell'sh wh cut fluo, pal yell'sh rr under U.V. It, nvrr at nat It, F/GOS) of Rio Bravo Fm, 111 units (C1-C5) avg. as background gas & up to 728 units (C1-C5) as swab gas at 6943' MD; & 2997' MD (1060' TVDs) 8 1/2" section. ROP avg. 67 ft/hr. No GR available due not enough battery, no memory to record GR. Last sample 7023' MD, 10% Clyst, 30% SST, 60% SD, 25% FLUO. Estimated time to resume drilling @ 00:00 hrs tomorrow.

AFE	3 785 040	US\$
DAILY	63 839	US\$
CUMULATED	2 584 504	US\$



REPORT N° 32

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 6463
Depth @ 24h00 (ft): 7023
Depth @ 06h00 (ft): 7023

OPERATIONS DATE : 11-Nov-13
REPORT DATE : 12-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 560
Csg: 9 5/8" 4026
DRILLING DAYS: 34

Operations summary:

Continued drilling with power drive from 6463' to 7023' MD. Circulated & conditioned hole prior POOH to change MWD, JAR, PDM. PO to 6163' backreaming, worked string to pass at 5482' MD.

Present operations:

PO at 400' MD. Current hole depth 7023' MD (3610' TVDss).

Forecast operations:

POOH, change out MWD-PDM-JAR, RIH, drill ahead.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	6600 - 6630	53	100							NF	CLYST: md dk gy, occ dk gy, blk/sbbly, loc sstab/sbpity, md frm/frm, loc md sft, micmic, miccarb, v sl calc, slty i/p, sl earthy/smooth surf. TG: 67 C1: 4870 C2: 489 C3: 104 C4: 84 C5: 17
RIO BRAVO	6630 - 6680	76	60		30	10				NF	CLYST: md dk gy, loc dk gy, blk/sbbly, loc sstab, md frm, micmic, miccarb, loc v sl calc, loc slty, sl earthy surf. SST: md lt gy, loc lt gy, 100% vf/f, hyal, smky, wh'sh hyal, gn'sh gy & dl lith grns i/p, sbrnd, w srt, calc cmt, sl arg mtz, md consl/fri, p vis por. SD: smky, hyal, wh'sh hyal i/p, 50% f, 50% m, tr c, sbang/sbrnd, p srt. TG: 95 C1: 6782 C2: 725 C3: 158 C4: 120 C5: 23
RIO BRAVO	6680 - 6760	63	30		40	20				TR - 20	CLYST: md dk gy, loc dk gy, blk/sbbly, loc sstab/sbpity, md frm, micmic, miccarb, loc v sl calc, loc slty, sl earthy surf. SST: md lt gy, md gy, 100% vf/f, hyal, smky, mnr wh'sh hyal, gn'sh gy & dk lith grns, sbrnd, w srt, sl arg mtz, scarce calc cmt, md fri, occ w pyr incl, p/f vis por. SD: hyal, smky, wh'sh hyal, 70% f, 30% m, sbang/sbrnd, w/f srt. FLUO: nvos, pinpoint/spotty, pal, yell'sh nat fluo, slw, wk, pal, even, yell'sh wh cut, pal, yell'sh rr under U. V. lt, nvrr at nat lt. POS. TG: 61 C1: 4472 C2: 443 C3: 100 C4: 73 C5: 15
RIO BRAVO	6760 - 6900	59	20	10	40	30				TR - 40	CLYST: md dk gy, loc dk gy, occ olv blk, blk/sbbly, loc sstab, md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SLST: md dk gy, md gy, blk/sbbly, md frm, grad to vf sst, micmic, miccarb, sl calc, earthy surf. SST: lt gy, md lt gy, 100% f, tr m, hyal, smky, mnr dk & gn'sh gy lith grns, sbrnd, w srt, sl arg mtz, scs calc cmt, mod fri, occ w pyr incl, p/f vis por. SD: wh, smky, hyal, occ dk lith grns, 60% f, 40% m, tr c, loc ang, sbrnd, mnr sbang, p srt. FLUO: nvos, pinpoint/patchy, pal yell'sh nat fluo, slw, wk, pal, even, yell'sh wh cut, pal, yell'sh rr under U. V. lt, nvrr at nat lt. P/FOS. TG: 46 C1: 3035 C2: 354 C3: 86 C4: 81 C5: 18



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REPORT N° 33

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	12-Nov-13
Mud Loggers:	L. Agurto/R. Otoyá	REPORT DATE :	13-Nov-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	7023	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	7023	Csg: 9 5/8"	4026
Depth @ 06h00 (ft):	7023	DRILLING DAYS:	35

Operations summary:

Continued POOH backreaming from 6163' to surface, L/D directional BHA. M/U same 8 1/2" PDC bit, conventional BHA & MWD. Repaired main electrical line of top drive. Replaced & set up system.

Present operations:

RIH washing down at 4800' MD.

Forecast operations:

RIH washing down to bottom. Drill ahead.

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: WBAC
Mud Weight (ppg): 11.2
Viscosity (sec): 60
Filtrate (ml): 7.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

Last sample 7023' MD, 10% Clyst, 30% SST, 60% SD, 25% FLUO. Estimated time to resume drilling @ at 10:00 hrs today. RIH washing down while repass GR.

Well Cost:

AFE	3 785 040	US\$
DAILY	55 871	US\$
CUMULATED	2 640 375	US\$



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REPORT N° 34

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7023
Depth @ 24h00 (ft): 7023
Depth @ 06h00 (ft): 7023

OPERATIONS DATE : 13-Nov-13
REPORT DATE : 14-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 36

Operations summary:

Finished repair top drive. Continued RIH conventional BHA & MWD from 165' to 5790' MD washing down (tight hole).

Present operations:

RIH washing down to 6500' MD. Current hole depth 7023' MD (3610' TVDss).

Forecast operations:

RIH washing down to bottom, resume drilling 8 1/2" section to TD.

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: WBAC
Mud Weight (ppg): 11.4
Viscosity (sec): 58
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST					
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

Last sample 7023' MD, 10% Clyst, 30% SST, 60% SD, 25% FLUO. RIH washing down while repass GR.

Well Cost:

AFE 3 785 040 US\$
DAILY 55 177 US\$
CUMULATED 2 639 681 US\$

7245.18	65.75	224.19	3752.22	-3702.22	5396.55	-4055.41	-3560.40
7337.06	65.83	223.81	3789.90	-3739.90	5480.26	-4115.69	-3618.61
7432.89	66.21	223.64	3828.85	-3778.85	5567.74	-4178.97	-3679.13
7528.26	66.43	223.32	3867.15	-3817.15	5655.02	-4242.34	-3739.23
7622.45	66.85	222.95	3904.50	-3854.50	5741.45	-4305.44	-3798.35

Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST	FROM SURFACE				
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

So far have drilled 1614' MD (623' TVDss) within mainly Clyst sequences interbedded with Sst-Sd bodies with Fluo up to 15%, up to 7470' MD of Rio Bravo Fm, 31 units (C1-C5) avg. as background gas, up to 125 units (C1-C5) as conection gas at 7291' MD; & 3079' MD (1094' TVDss) 8 1/2" section. ROP avg. 70 ft/hr. Last sample 7730' MD, 90% Clyst, 10% Slst.

Well Cost:

AFE	3 785 040	US\$
DAILY	54 685	US\$
CUMULATED	2 750 217	US\$



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REPORT N° 35

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7023
Depth @ 24h00 (ft): 7378
Depth @ 06h00 (ft): 7707

OPERATIONS DATE : 14-Nov-13
REPORT DATE : 15-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 355
Csg: 9 5/8" 4026
DRILLING DAYS: 37

Operations summary:

Continued RIH washing down from 5790' to 7023' MD, circulated. Resumed drilling with conventional BHA & MWD from 7023' to 7378' MD.

Present operations:

Drilling with slick BHA & MWD at 7768' MD (3911' TVDss).

Forecast operations:

Drill ahead to TD.

Lithology summary:

Formation name	Interval (ft)	ROP f/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	7023 - 7070	57	60	TR	30	10				20 - TR	CLYST: md dk gy, loc dk gy, blk/sbbly, md frm, slty i/p, micmic, miccarb, n calc, sl earthy/earthy surf. SLST: md gy, md dk gy, blk/sbbly, md frm, grad to vf sst, micmic, miccarb, v sl calc, earthy surf. SST: md gy, md lt gy, 100% vf/f, hyal, smky, mnr dk & gy'sh lith grns, sbrnd, w srt, scrs arg mtx, calc cmt, consl, p vis. SD: hyal, smky, wh'sh hyal, 60% f, 40% m, tr c, sbrnd/sbang, p srt. FLUO: nvos, spotty/pin point, pal, yell'sh nat fluo, slw, wk, pal, even, yell'sh wh cut, pal, yell'sh rr under U. V. lt, nvrr at nat lt. POS. TG: 59 C1: 4531 C2: 396 C3: 81 C4: 40 C5: 18
RIO BRAVO	7070 - 7300	61	60	20	20					NF	CLYST: md dk gy, loc dk gy, occ olv blk, blk/sbbly, loc sbrnd, occ sblam, mod frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SLST: md gy, md dk gy, blk/sbbly, md frm, micmic, miccarb, v sl calc, grad to v f sst, earthy surf. SST: md lt gy, md gy, loc lt gy, 100% vf/f, hyal, smky, loc w dk lith incl, sbrnd, w srt, loc arg mtx, calc cmt, md consl, p vis por. TG: 31 C1: 2329 C2: 203 C3: 38 C4: 23 C5: 11
RIO BRAVO	7300 - 7470	66	50		30	20				NF - 15	CLYST: md dk gy, loc dk gy, blk/sbbly, loc sbrnd, md frm, micmic, loc miccarb, non calc, occ slty, sleathy/smooth surf. SST: lt gy, v lt gy, loc md lt gy, 100% vf/f, hyal, smky, mnr wh'sh hyal, dk & gn'sh gy lith grns, sbrnd, w srt, scrs arg mtx, calc cmt, md consl, p vis por. SD: wh, smky, hyal, 70% f, 30% m, sbang/sbrnd, w srt. FLUO: nvos, spotty, pal, yell'sh nat fluo, slw, wk, pal, even, yell'sh wh cut, pal, yell'sh, rr under U. V. lt, nvrr at nat lt. POS. TG: 26 C1: 2113 C2: 195 C3: 26 C4: 8 C5: 3
RIO BRAVO	7470 - 7730	82	90	TR	10					NF	CLYST: md dk gy, loc dk gy, blk/sbbly, loc sbrnd, sblam i/p, mod frm/frm, micmic, miccarb, non calc, slty i/p, sl earthy/smooth surf. SLST: md gy, md dk gy, blk/sbbly, md frm, micmic, miccarb, v slc alc, grad to vf sst, earthy surf. SST: md lt gy, lt gy, loc md gy, 100% vf/f, hyal, smky, mnr dk lith grns, sbrnd, w srt, arg mtx, loc calc cmt, md consl, p vis por. TG: 31 C1: 2651 C2: 142 C3: 22 C4: 7 C5: 3

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7052.98	65.32	224.82	3672.49	-3622.49	5221.97	-3930.77	-3437.73
7145.96	65.44	224.59	3711.23	-3661.23	5306.33	-3990.84	-3497.19

Mud information:

Type: WBAC
Mud Weight (ppg): 11.4
Viscosity (sec): 57

Surveys:

Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	TVDSS (ft)	HD (ft)	NS (ft)	EW (ft)
7719.21	67.42	222.52	3942.09	-3892.09	5830.59	-4370.93	-3858.85
7811.67	67.93	222.84	3977.22	-3927.22	5916.10	-4433.80	-3916.83
7909.15	68.49	222.09	4013.40	-3963.40	6006.60	-4500.58	-3977.94
8003.78	69.05	222.34	4047.67	-3997.67	6094.80	-4565.90	-4037.21
8098.05	69.22	222.85	4081.24	-4031.24	6182.87	-4630.75	-4096.83
8173.73	69.62	222.63	4107.85	-4057.85	6253.70	-4682.79	-4144.91
8209.00	69.79	222.50	4120.08	-4070.08	6286.78	-4707.15	-4167.29

Mud information:

Type: WBAC
Mud Weight (ppg): 11.5
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

So far have drilled 2055' MD (782' TVDss) within mainly Sst-SD bodies sequences interbedded with Clyst-Slst with Fluo up to 50% (nvos, patchy/mott, pal, yell'sh nat fluo, slw, wk, br, even, yell'sh wh cut, pal, yell'sh rr under U. V. lt, nvrr at nat lt. F/GOS) of Rio Bravo Fm, 62 units (C1-C5) avg. as background gas & up to 784 units (C1-C5) as formation gas at 8001' MD; & 4183' MD (1520' TVDss) 8 1/2" section. ROP avg. 57 ft/hr. Last sample 8209' MD, 90% Clyst, 10% Sst, NF. TD 8209' MD (4070' TVDss) reached at 22:00 hrs. WFT E-Logs tools & equipment coordinated for today.

Well Cost:

AFE	3 785 040	US\$
DAILY	56 325	US\$
CUMULATED	2 806 542	US\$



REPORT N° 36

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoy
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 7378
Depth @ 24h00 (ft): 8209
Depth @ 06h00 (ft): 8209

OPERATIONS DATE : 15-Nov-13
REPORT DATE : 16-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 831
Csg: 9 5/8" 4026
DRILLING DAYS: 38

Operations summary:

Drilled with conventional BHA from 7378' to 8209' MD Total Depth. Circulated 01 bottoms up to get geology sample. Pumped disperse & vis pill, conditioned MW to 11.6 ppg.

Present operations:

PO backreaming at 5000' MD.

Forecast operations:

POOH, L/D MWD tools, RIH slick BHA, condition hole to run E-Logs with WFT compact shuttle.

Lithology summary:

Formation name	Interval (ft)	ROP ft/hr	Clyst %	Sist %	Sst %	Sd %	Lmst %	Dol %		Fluor %	LITHOLOGICAL DESCRIPTION
RIO BRAVO	7730 - 7810	71	90	10						NF	CLYST: md dk gy, loc dk gy, blk/sbbkly, loc sbtab, occ sbply, md frm, slty i/p, micmic, miccarb, n calc, sl earthy surf. SLST: md dk gy, loc md gy, blk, mnr amorph, md frm, micmic, miccarb, v sl calc, loc grad to vf sst. TG: 43 C1: 3587 C2: 249 C3: 34 C4: 10 C5: 12
RIO BRAVO	7810 - 7860	56	60	TR	40	TR				TR - 25	CLYST: md dk gy, loc dk gy, blk/sbbkly, loc sbtab, md frm, micmic, miccarb, non calc, slty i/p, sl earthy/earthy surf. SLST: md dk gy, loc md gy, blk, amorph i/p, md frm, micmic, miccarb, v sl calc, loc grad to vf sst, earthy surf. SST: lt gy, loc v lt gy, 100% vf/f, hyal, smky, mnr dk lith grns, sbrnd, w srt, scrs arg mtx, calc cmt, md consl, occ pyr, p/f vis por. SD: wh'sh hyal, hyal, smky, 80% f, 20% m, sbrnd, mnr sbang, w srt. FLUO: nvos, pin pnt/spotty, dull/pal yell'sh nat fluo, slw, wk, fnt/br, even, yell'sh wh cut, pal, yell'sh rr under U. V. It, nvrr at nat lt, pos. TG: 70 C1: 5586 C2: 451 C3: 98 C4: 31 C5: 18
RIO BRAVO	7860 - 7930	59	80	20	TR					NF	CLYST: md dk gy, loc dk gy, blk/sbbkly, loc sbply, md frm, slty i/p, micmic, miccarb, n calc, sl earthy/earthy. SLST: md dk gy, loc md gy, blk, amorph i/p, md frm, micmic, miccarb, v sl calc, loc grad to vf sst, earthy surf. SST: md lt gy, loc lt gy, 100% vf, hyal, smky, mnr dk lith grns, sbrnd, w srt, calc cmt, md consl, p vis por. TG: 47 C1: 3567 C2: 302 C3: 73 C4: 31 C5: 20
RIO BRAVO	7930 - 8050	49	10		60	30				5 - 50	CLYST: md dk gy, loc dk gy, occ brn'sh gy, blk/sbtab, md frm, micmic, miccarb, occ v sl calc, slty i/p, sl earthy surf. SST: lt gy, v lt gy, 100% vf/f, hyal, smky, mnr dk & gy'sh lith grns, sbrnd, w srt, calc cmt, md fri, loc consl, occ pyr incl, loc w coal incl, p/f vis por. SD: wh, smky, hyal, 80% f, 20% m, sbrnd, mnr sbang, w srt. FLUO: nvos, patchy/mottled, pal, yell'sh nat fluo, slw, wk, br, even, yell'sh wh cut, pal yel rr under U. V. It, nvrr at nat lt, f/gos. TG: 106 C1: 8091 C2: 710 C3: 182 C4: 71 C5: 34
RIO BRAVO	8050 - 8209	54	80		20					NF	CLYST: md dk gy, loc dk gy, blk/sbbkly, loc sbtab, md frm, occ w coal veins incl, micmic, miccarb, n/v sl calc, slty i/p, sl earthy surf. SST: md lt gy, mnr lt gy, loc md gy, occ v lt gy, 100% f, hyal, smky, mnr wh'sh hyal, w dk lith grns i/p, sbrnd, w srt, loc arg mtrx, calc cmt, md consl, loc w coal incl, p vis por TG: 43 C1: 3016 C2: 258 C3: 78 C4: 51 C5: 38



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REPORT N° 37

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists:	A. Ortega	OPERATIONS DATE :	16-Nov-13
Mud Loggers:	L. Agurto/R. Otoyá	REPORT DATE :	17-Nov-13
Rig Contractor:	RIG 40	SPUD DATE:	7-Oct-13
Depth @ 00h00 (ft):	8209	PROGRESS 00h00-24h00 (ft):	0
Depth @ 24h00 (ft):	8209	Csg:	9 5/8" 4026
Depth @ 06h00 (ft):	8209	DRILLING DAYS:	39

Operations summary:

Circulated to shakers clean, increased MW to 11.6 ppg. PO to 4023' MD backreaming. Circulated at shoe. RIH washing down to 7853' MD.

Present operations:

PO backreaming at 6000' MD.

Forecast operations:

POOH, L/D slick BHA & MWD tools, run E-Logs with WFT compact shuttle.

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: WBAC
Mud Weight (ppg): 11.6
Viscosity (sec): 59
Filtrate (ml): 5.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

WFT E-Logs tools & equipment on location. WFT wireline logging personnel on the way to LO6.

Well Cost:

AFE	3 785 040	US\$
DAILY	55 619	US\$
CUMULATED	2 862 161	US\$



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REPORT N° 38

LOBITOS FIELD

LO6-32D GEOLOGICAL DAILY REPORT

Geologists: A. Ortega
Mud Loggers: L. Agurto/R. Otoyá
Rig Contractor: RIG 40
Depth @ 00h00 (ft): 8209
Depth @ 24h00 (ft): 8209
Depth @ 06h00 (ft): 8209

OPERATIONS DATE : 17-Nov-13
REPORT DATE : 18-Nov-13
SPUD DATE: 7-Oct-13
PROGRESS 00h00-24h00 (ft): 0
Csg: 9 5/8" 4026
DRILLING DAYS: 40

Operations summary:

RIH washing down from 7853' to 8209' MD. Circulated & conditioned hole. POOH backreaming to 4026' (csg shoe). Circulated, cut & slipped drilling line. Continued POOH fr/ 4023' to surface. M/U & RIH WFT compact shuttle tool with drill pipe to 2560' MD.

Present operations:

PO at 2000' MD.

Forecast operations:

L/D WTF C.W.S string, RIH slick BHA to calibrate hole with 8.5 " tricone bit.

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: WBAC
Mud Weight (ppg): 11.6
Viscosity (sec): 59
Filtrate (ml): 6.0

Provisional Formation Tops:

Formation	MD(ft)	TVD(ft)	TVDss(ft)	North(ft)	East(ft)
TALARA SST			FROM SURFACE		
LOBITOS	810	809	-759	-11.77	-13.86
TEREBRATULA	2300	1991.93	-1941.93	-558.2	-546.65
CHACRA	2855	2195.25	-2145.25	-973.78	-852.57
RIO BRAVO	6154	3337.54	-3287.54	-3325.48	-2864.18

Remarks

Total depth 8209' MD (4070' TVDss). RIH WFT E-Logs string at 22:00 hrs yesterday. At shoe at 01:30 hrs today. RIH to 5074' MD, E-Log string could not pass, decided to POOH at 04:30 hrs today.

Well Cost:

AFE	3 785 040	US\$
DAILY	41 092	US\$
CUMULATED	2 903 253	US\$