

PETRO - TECH
PERUANA S.A.



LO6 -23 GEOLOGICAL REPORT

Date: June 15, 2001

RIG	Days	Last Casing
P - 48	52	5 1/2" @ 8275'

24 hours summary: Testing well.

PO: Well on production.

Remarks: Test data

- June 14, 2001: 788 BOPD x 47 BWPD (6% water cut) x 640 psi x 3/8" choke.
- June 15, 2001: 385 BOPD x 205 BWPD (35% water cut) x 460 psi x 3/8" choke (*)

(*) On last 11 hours, the water cut drop from 40% to 25%; 384 BOPD x 144 BWPD x 460 psi x 806 GOR.

Next:

- Continue evaluating well production.
- Plan is to attempt to run a production log in order to identify and isolate the water producing sand.
- If water cut continue decreasing, the production log will be cancelled and the possibility of fracturing the Upper Basal Salina will be considered.

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	9,300
Cumulated (\$):	1'489,305

FINAL WELL REPORT

**CENTRAL FILE
GEOSCIENCES**


MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....June 15 (37) LO6-23.doc

PETRO - TECH
PERUANA S.A.



LO6 -23 GEOLOGICAL REPORT

Date: June 14, 2001

RIG	Days	Last Casing
P - 48	51	5 1/2" @ 8275'

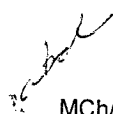
24 hours summary: Production evaluating well.

PO: Well on production.

Remarks: Test: 788 BOPD x 47 BWPD x 640 psi x 3/8 choke.

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	14,900
Cumulated (\$):	1'480,005


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MCH.....C:.....June 14 (36) LO6-23.doc

CENTRAL FILE
GEOSCIENCES



LO6 -23 GEOLOGICAL REPORT

Date: June 13, 2001

RIG
P - 48

Days
50

Last Casing
5 1/2" @ 8275'

24 hours summary: Schlumberger perforated Upper Basal Salina, 3rd stage from 7982' to 7912' w/ 69 shots, WHP= 1850 psi.

PO: Well on production.

Remarks: Production test from stages 1st and 2nd: 284 BOPD x 55 BWPD x 810 psi x 3/8 choke x 7 3/4 hours

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	15,550
Cumulated (\$):	1'465,105

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MCH.....C:.....June 13 (35) LO6-23.doc

**CENTRAL FILE
GEOSCIENCES**



LO6 -23 GEOLOGICAL REPORT

Date: June 12, 2001

RIG	Days	Last Casing
P - 48	49	5 1/2" @ 8275'

24 hours summary: Ran CBL- VDL- GR log. Tested 5 1/2" casing with 5000 psi. Schlumberger perforated the Upper Basal Salina as follows:

- 8042' - 7904' with 75 shots, WHP 1600 psi.
- 8004' - 7958' with 78 shots, WHP 1700 psi.

While POOH, broke in weak point. RIH to perforate 3rd. interval (7982' - 7912'), the CCL did not work properly, POOH to check it. Left in hole CCL and gun.

PO: Testing well

Remarks:

- While waiting for perforating gun from Talara, open the well to production at 8:30 a.m.
- At 11:00 a.m., the well is flowing 50 Barrels per hour (crude oil and diesel, diesel comes from diesel cushion), 420-400 psi WHP, 3/8" choke, 893 GOR.
- We still need to perforate some intervals. Based on production results, we will evaluate the convenience of fracturing the Upper Basal Salina sand.

Next: Continue evaluating the Upper Basal Salina.

WELL COST:

AFE (\$):	1'451, 680
Daily (\$):	34,668
Cumulated (\$):	1'449, 555

MCh/PA

PETRO - TECH
PERUANA S.A.



LO6 -23 GEOLOGICAL REPORT

Date: June 11, 2001

RIG
P - 48

Days
48

Last Casing
5 1/2" @ 8275'

24 hours summary: Over the weekend ran and cemented 5 1/2" casing at 8275'. WOC

PO: Taking Temperature survey.

Next: Run CBL- VDL log. We expect to perforate the Upper Basal Salina (7904' - 8042') this afternoon.

Mud weight: 12.4 ppg.

Viscosity: 58 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	115,391
Cumulated (\$):	1'399,754

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MCH.....C:.....June 11 (33) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: June 8, 2001

RIG
P - 48

Days
45

Last Casing
9 5/8" @ 5313'

FTD
9040'

24 hours summary: Schlumberger ran following logs:

- Resistivity- Porosity & Gamma Ray (HALS-MSFL-LDT-CNL-GR) from 8945' to 5313'
- Dipmeter- Gamma Ray from 9040' to 5313'
- Check Shot from 9040' to 500' in 20 stations.

PO: Rigging down Schlumberger unit.

Next: Well will be completed in Upper Basal Salina.

Remarks:

- Power log evaluation indicates a total of 117' MD (104' TVD) of net sand in Upper Basal Salina with 10.7% of porosity and 52.1 % of water saturation. Oil and gas shows were also observed through this interval.
- The Upper Basal Salina in this well is about 110 feet higher than LO6- 25 well.
- Only 19' of net sand has been encountered in the Lower Basal Salina in thin sandstones.
- Based on Electrical Logs the formational tops and petrophysical for Upper & Lower Basal Salina are as follows:

FORMATION	MD (Feet)	VSS (Feet)	South (Feet)	West (Feet)	GrossSect MD (VD)	Net Sand MD (VD)	Net Pay MD (VD)	Average Porosity	Average Sw	Average Vclay
Talara	At sea	bottom								
Chacra	2490	-2376	242	148						
Rio Bravo	3592	-3359	659	420						
Palegreda	5146	-4804	1147	698						
Mogollon	5869	-5490	1369	854						
San Cristobal	6340	-5892	1541	981						
Upp Bs Salina	7902	-7284	2100	1401	176 (157)	117 (104)	46 (41)	10.7	52.1	15.7
Low Bs Salina	8445	-7926'	2321	1562	595 (539)	19 (17)	15 (13)	8.5	45.0	32.8
Total Depth	9040	-8282'	2525	1710						

Mud weight: 12.4 ppg.

Viscosity: 62 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$): 1'451,680
Daily (\$): 71,831
Cumulated (\$): 1'265,424

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:.....June 8 (32) LO6-23.doc

CENTRAL FILE
GEOSCIENCES



LO6 -23 GEOLOGICAL REPORT

Date: June 7, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	9040' @ 00 hrs	95'	44	9 5/8" @ 5313'	9040'

24 hours summary: Drilling stopped at 9040' in Lower Basal Salina on June 6, 2001. Conditioning hole to run electrical logs.

PO: POOH for logs.

Remarks:

- At 7:30 hrs, Schlumberger personnel rigging up Resistivity, Porosity and Gamma Ray logs.
- Plan is to run Resistivity, Porosity, Dipmeter and Check shot.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8990'-9010'	--	10	--	90	Traces	<i>Sst:</i> Lt gy, vf, w sort, sb ang- sb rnd, sl calc, arg mtx, mod hd, p vis por. <i>Clyst:</i> Gy, sl brnsh-gy, sb blk, mod frm, sl calc, micr mic, micr carb. <i>Fluor:</i> Wh yel sl bri, v slow & v weak cut, sl mky wh cut fluor, non-visible residual ring. V poor oil show TG: 150; C1: 150
9010'-9030'	--	40	--	60	Traces	<i>Sst:</i> Wh gy, f, w sort, sb sng- sb rnd, sl calc, mod frm, arg mtx, dty sst, p vis por. <i>Fluor:</i> Wh yel sl bri, v slow & v weak cut, sl mky wh cut fluor, non-visible residual ring. V poor oil show <i>Clyst:</i> Same as above. TG: 200; C1: 200
9030'-9040'	--	10	--	90	NF	<i>Sst & Clyst:</i> Same as above. TG: 145; C1: 145

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Last survey:	Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
	7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.4 ppg. **Viscosity:** 60 sec **Filtrate:** 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	22,938
Cumulated (\$):	1'193,593

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C: June 7 (31) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: June 6, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	8945' @ 00 hrs	86'	43	9 5/8" @ 5313'	9200'

24 hours summary: Drilled from 8876' to 8878'. Trip to check wash out # 12. RIH to continue drilling.

PO: Drilling at 8985' in Lower Basal Salina.

Remarks:

Based on correlation with neighboring wells, we expected the Balcones at 9100 feet.

Next: Continue drilling trough the Lower Basal Salina.

Lithology

Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8870'-8970'	--	10	10	80	NF	Sst: Lt gy, gy, vf, w sort, sb ang- sb rnd, sl calc, arg mtx, mod hd-hd, p vis por. Slst: Gysh, blk, mic, micr carb, mod frm, sl calc. Clyst: Gy, sl brnsh-gy, blk- sb blk, mod frm- frm, non- calc, micr mic, micr carb. TG: 300; C1: 276; C2: 12
8970'-8990'	--	20	--	80	Traces	Sst: Wh gy, f, w sort, sl calc, sl fri, arg mtx, dty sst, p vis por. Fluor: Wh yel sl bri. v slow & v weak cut, sl mky wh cut fluor, non-visible residual ring. V poor oil show Clyst: Same as above. TG: 541; C1: 507; C2: 17

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Palinology:

Interval	Determination	Formation
8770'-8780'	Zone VI	Basal Salina formation
8830'-8840'	Zone VI	Basal Salina formation

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 60 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	25,722
Cumulated (\$):	1'170,655

MCh/PA



LO6 -23 GEOLOGICAL REPORT

Date: June 5, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	8859' @ 00 hrs	124'	42	9 5/8" @ 5313'	9200'

24 hours summary: Drilled from 8735' to 8876' in Lower Basal Salina. Trip to check wash out.

PO: RIH.

Remarks:

- From 8840' to 8850', 30% sand with 30% natural fluorescence and TG: 2060; C1: 1836; C2: 58; C3: 13; C4: 11; C5: 5 have been reported.
- Based on correlation with neighboring wells, we expected the Balcones at 9100 feet.

Next: Continue drilling trough the Lower Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8760'-8840'	--	--	10	90		<i>Slst:</i> Gysh, blk, mic, mic carb, mod frm, sl calc. <i>Clyst:</i> Gy, brnsh-gy, blk- sb blk, pty, mod frm, sl calc, mic mic, mic carb, rough surf, slty- cly in pt. <i>TG:</i> 409; <i>C1:</i> 837; <i>C2:</i> 11
8840'-8850'	30	20	--	50	30	<i>Sd:</i> Wh hy, f-m, w sort, sb ang, sb rnd. <i>Sst:</i> Wh gy, wh, f-m, w sort, sb ang- sb rnd, non-calc, mod fri, fr vis por. <i>Fluor:</i> Wh yel sl bri, mod fast & strong strmg cut, mky wh cut fluor, non-residual ring, Fair oil show. <i>Clyst:</i> Same as above. <i>TG:</i> 2060; <i>C1:</i> 1836; <i>C2:</i> 58; <i>C3:</i> 13; <i>C4:</i> 11; <i>C5:</i> 5
8850'-8860	10	10	--	80	10	<i>Sd, Sst & Clyst:</i> Same as above. <i>Fluor:</i> Wh yel sl bri, same as above, Fair- poor oil show. <i>TG:</i> 415; <i>C1:</i> 387; <i>C2:</i> 14
8860'-8870'	--	--	--	100		<i>Clyst:</i> Same as above. <i>TG:</i> 189; <i>C1:</i> 189

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Palinology:

Interval	Determination	Formation
8770'-8780'	Zone VI	Basal Salina formation
8830'-8840'	Zone VI	Basal Salina formation

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg. **Viscosity:** 59 sec **Filtrate:** 5.0 ml

WELL COST:

AFE (\$): 1'451,680
Daily (\$): 25,722
Cumulated (\$): 1'148,653

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Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C: June 5 (29) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: June 4, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	8570' @ 00 hrs	80'	41	9 5/8" @ 5313'	9200'

24 hours summary: Drilled from 8570' to 8735'. Trip to change bit at 8652'.

PO: Drilling at 8770' in Lower Basal Salina.

Remarks:

- Tentative top of Lower Basal Salina at 8520' MD (-7820' VSS).
- Trip gas at 8652' reported TG: 38210; C1: 34632; C2: 1102; C3: 189; C4: 168; C5: 27

Next: Continue drilling trough the Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8570'-8580'	--	30	--	70	5	Sst: Lt gysh, vf, sb ang- sb rnd, w sort, mod frm, calc, p vis por. Fluor: Yel v sl bri, slow & weak strmg cut, sl mky wh cut fluor, non-residual ring, Poor oil show. Clyst: Gy, blk, mod frm, non-calc, mic mic. TG: 1243; C1: 998; C2: 47; C3: 18; C4: 18; C5: 5
8580'-8710'	--	10	--	90	NF	Sst & Clyst: Same as above. TG: 338; C1: 316; C2: 11
8710'-8720	10	20	--	70	5	Sd: Wh hy, f, occ m w sort, sb ang, sb rnd. Sst: Wh gy, gysh, vf, w sort, calc, sl fri- mod frm, p vis por. Fluor: Yel v sl bri, slow & weak strmg cut, sl mky wh cut fluor, non-residual ring, Poor oil show. TG: 1243; C1: 998; C2: 47; C3: 18; C4: 18
8720'-8760'	--	10	--	90	NF	Sst: Same as above. Clyst: Gy, sb blk- blk, non-calc, micr mic, micr carb, mod frm- frm TG: 409; C1: 387; C2: 11

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Palinology:

Interval	Determination	Formation
8540'-8560'	Zone VI	Basal Salina formation

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/-S (ft)	E/-W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 59 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	25,722
Cumulated (\$):	1'127,785

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C: June 4 (28) LO6-23.doc

PETRO - TECH
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LO6 -23 GEOLOGICAL REPORT

Date: June 1, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	8570' @ 00 hrs	47'	38	9 5/8" @ 5313'	9200'

24 hours summary: Drilled from 8489' to 8570' in Lower Basal Salina. Trip to check drill pipe for wash out # 9 and 10. Continue POOH to change 20 joints.

PO: RIH.

Remarks:

- Tentative top of Lower Basal Salina at 8520' MD (-7820' VSS).
- Trip gas at 8570' reported TG: 103055; C1: 90605; C2: 3472; C3: 697; C4: 705; C5: 119

Next: Continue drilling trough the Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8540'-8570'	--	--	10	90		Slst: Gysh, blkly, micr mic, micr carb, non-calc, mod frm. Clyst: Gy, blkly, mod frm, non-calc, mic mic. TG: 637; C1: 581; C2: 28

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Last survey:	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
Depth (ft)						
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 56 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	19,687
Cumulated (\$):	1'061,758

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:.....June 1 (27) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 31, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	FTD
P - 48	8523' @ 00 hrs	104'	37	9 5/8" @ 5313'	9200'

24 hours summary: Drilled from 8419' to 8489'. Trip to check drill pipe for wash out # 7. Continue drilling to 8545' in Lower Basal Salina. Trip to check drill pipe for wash out # 8.

PO: RIH.

Remarks:

- Tentative top of Lower Basal Salina at 8520' MD (-7820' VSS), 5% natural fluorescence and C1 through C5 gas readings have been reported.
- Only 320 feet have been drilled in the last five days due to drill pipe wash outs (8 total) and rig mechanical problems.
- Short trip gas at 8489' reported TG: 82347; C1: 71444; C2: 3177; C3: 444; C4: 663; C5: 113

Next: Continue drilling through the Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8460'-8480'	--	40	--	60	5	Sst: Wh gy, vf, sb ang, sb rnd, w sort, sl calc, w/ mic & dk gr incl, mod frm, v p vis por. Fluor: Wh yel sl bri, slow & weak strmg cut, sl mky wh cut fluor, non-residual ring. Poor oil show. Clyst: Brnsh- gy, Gy, sb blk- blk, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 6753; C1: 6209; C2: 172; C3: 26; C4: 28; C5: 2
8480'-8520'	--	10	--	90	NF	Sst & Clyst: Same as above. TG: 1832; C1: 1603; C2: 58; C3: 15; C4: 17
8520'-8530'	20	10	--	70	5	Sd: Hy, wh, 30%f, 60%m, 10%c, occ vc, sb ang, sb rd, lse sd. Sst: Wh-lt gy, vf, w sort, fri, calc, w/dk gr incl, p vis por. Fluor: Wh yel sl bri, slow & weak strmg cut, sl mky wh cut fluor, non-residual ring. Poor oil show. Clyst: Same as above. TG: 764; C1: 581; C2: 39; C3: 15; C4: 15
8530'-8540'	--	10	--	90	5	Sst & Clyst: Same as above. TG: 506; C1: 474; C2: 16

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'
Lower Basal Salina	8520'	7870'	-7820'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 55 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	20,450
Cumulated (\$):	1'042,071

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 31 (26) LO6-23.doc

CENTRAL FILE
GEOSCIENCES



LO6 -23 GEOLOGICAL REPORT

Date: May 30, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	8419' @ 00 hrs	83'	36	9 5/8" @ 5313'	Lower Basal Salina @ 8550' MD (-7250' VSS)	9200'

24 hours summary: Drilled from 8336' to 8419'. Trip to check drill pipe for wash out.

PO: Drilling at 8451' in Basal Salina formation.

Remarks:

- Presently, drilling a sandy section near the top of Lower Basal Salina.
- From 8420' to 8460', 5 to 20% of natural fluorescence and total gas increase from 100 to 11,245 ppm with C1- C5 readings.

Next: Continue drilling trough the Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8310'-8340'	--	--	20	80		Slst: Gysh, blk, mic, mic carb, sl calc, mod frm. Clyst: Brnsh- gy, Gy, sb blk- blk, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 100; C1: 100
8340'-8420'	--	10	--	90	NF	Sst: Wh gy, vf, sb ang, sb md, w sort, sl calc, w/ mic & dk gr incl, mod frm, v p vis por. Clyst: Same as above. TG: 579; C1: 543; C2: 18
8420'-8425'	--	40	--	60	20	Sst: Wh-lt gy, vf, w sort, fri, calc, w/ mic & dk gr incl, p vis por. Fluor: Wh yel sl bri. slow & v weak strmg cut, mky wh fluor on cut, non-residual ring. Fair to poor oil show. Clyst: Same as above. TG: 1223; C1: 1093; C2: 36; C3: 5; C4: 8; C5: 2
8425'-8450'	--	20	--	80	5	Sst & Clyst: Same as above. TG: 2163; C1: 1964; C2: 69; C3: 8; C4: 9
8450'-8460'	--	40	--	60	5	Sst & Clyst: Same as above. TG: 11245; C1: 10152; C2: 324; C3: 38; C4: 44; C5: 7
Formation			MD	TVD	VSS	
Upper Basal Salina			7780'	7230'	-7180'	

Palinology:
Interval
8310'-8330'

Determination
Zone VI

Formation
Basal Salina formation

Last survey:	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
Depth (ft) 7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 55 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	20,956
Cumulated (\$):	1'021.621

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 30 (25) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 29, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	8336' @ 00 hrs	29'	35	9 5/8" @ 5313'	Lower Basal Salina @ 8550'MD (-7250' VSS)	9200'

24 hours summary: Trip to change bit.

PO: RIH with tri-conic bit.

Remarks:

- Presently, drilling the shaly section between Upper and Lower Basal Salina.

Next: Continue drilling trough the Basal Salina.

Lithology Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8310'-8330'	--	--	10	90		<i>Slsts:</i> Gysh, blkly, mic, micr carb, sl calc, mod frm. <i>Clyst:</i> Brnsh- gy, Gy, sb blkly- blkly, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 140; C1: 140

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 55 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	24,523
Cumulated (\$):	1'000,665

MCh/PA



LO6 -23 GEOLOGICAL REPORT

Date: May 28, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	8307' @ 00 hrs	78'	34	9 5/8" @ 5313'	Lower Basal Salina @ 8550' MD (-7250' VSS)	9200'

24 hours summary: Over the weekend drilled from 8068' to 8315' in Basal Salina formation. POOH to check drill pipe due to wash out (a total of four wash outs have been detected in the last two days).

PO: POOH to check drill pipe for wash out.

Remarks:

- Presently, drilling the shaly section between Upper and Lower Basal Salina.
- Based on ditch sample description a total of 160 ft. of coarse to conglomeratic-grained sands with oil and gas shows, C1 through C5, have been observed in the Upper Basal Salina formation (7910'- 8070' MD).

Next: Continue drilling through the Basal Salina.

Lithology

Interval	Sd	Sst	Slst	Clyst	Fluor	Description
8070'-8090'	10	40	--	50	5	Sd: Wh, hyl, 30% m, 40% c, 30% vc, sb ang, sb rnd, p srt. Sst: Lt gy, vf, sb ang- sb rnd, w srt, arg mtx, fri, dty, calc cmt, w/ mic & dk gr incl, vp vis por. Fluor: Wh yel sl bri, slow strm cut, weak mky wh fluor on cut, non-visible resid ring. Poor oil show Clyst: Brnsh- gy, Gy, sb blk- blk, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 140; C1: 140
8090'-8270'	--	--	10	90	NF	Slsts: Gysh, blk, mic, micr carb, sl calc, mod frm. Clyst: Same as above. TG: 131; C1: 131
8270'-8280'	10	--	--	90	5	Sd: Wh, hyl, 20% vf, 60% f, 20% m, p srt, Fluor: Wh yel sl bri, v slow & weak strm cut, pale mky wh fluor on cut, non-visible resid ring. Poor oil show Clyst: Same as above. TG: 337; C1: 295; C2: 21
8280'-8310'	--	20	--	80	5	Sst: Wh gy, 90% vf, 10% f, sb ang, sb rnd, w sort, sl calc, w/ mic & dk gr incl, mod frm, v p vis por. Clyst: Same as above. Fluor: Wh yel sl bri, mod weak mky wh fluor on cut, non-vis residual ring. Poor oil show TG: 316; C1: 316

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.3 ppg.

Viscosity: 55 sec

Filtrate: 5.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	19,766
Cumulated (\$):	976,142

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:.....May 28 (23) LO6-23.doc

CENTRAL FILE
GEOSCIENCES



LO6 -23 GEOLOGICAL REPORT

Date: May 25, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	8002' @ 00 hrs	137'	31	9 5/8" @ 5313'	Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 7865' to 8002'.

PO: Drilling at 8068' in Upper Basal Salina formation.

Remarks:

- Based on ditch sample description a total of 160 ft. of coarse to conglomeratic-grained sands with oil and gas shows, C1 through C5, have been observed in the Upper Basal Salina formation.
- The top of Basal Salina is at 7780' MD, 7230' TVD (-7180' VSS), which is about 150' higher than LO6-25 well.

Next: Continue drilling through the Upper Basal Salina.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
7865'-7910'	--	20	--	80	NF	Sst: Lt gy, vf, sb ang- sb rnd, w srt, arg mtx, fri, dty, calc cmt, w/ mic & dk gr incl, vp vis por. Clyst: Brnsh- gy. Gy, sb blk- blk, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 2173; C1: 2105; C2: 34
7910'-7980'	50	10	--	40	NF	Sd: Wh, hyl, 30% m, 40% c, 30% vc, sb ang, sb rnd, p srt. Sst & Clyst: Same as above. TG: 12126; C1: 11419; C2: 225; C3: 12; C4: 54; C5: 1
7980'-8020'	60	10	--	30	5-15	Sd: Wh, hyl, smky, 10% m, 30% c, 40% vc, 20% cgl, p srt, hky. Sst: Wh, wh gy, 90% vf, 10% f, sb ang, sb rnd, v calc, w/ mic & dk gr incl, fri- mod frm, p vis por. Fluor: Wh yel sl bri, mod fast strm cut, weak mky wh fluor on cut, non-visible resid ring. Fair oil show Clyst: Same as above. TG: 2032; C1: 1603; C2: 58; C3: 12; C4: 38; C5: 25
8020'-8070'	60	20	--	20	30-40	Sd, Sst & Clyst: Same as above. Fluor: Wh yel sl bri, mod weak mky wh fluor on cut, non-vis residual ring. Good oil show TG: 4172; C1: 3376; C2: 150; C3: 21; C4: 87; C5: 17

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/-S (ft)	E/-W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.1 ppg.

Viscosity: 54 sec

Filtrate: 5.4 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	22,558
Cumulated (\$):	908,187

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C.....May 25 (22) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 24, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	7865' @ 00 hrs	94'	30	9 5/8" @ 5313'	Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 7807' to 7865' in Basal Salina formation. Trip to change BHA and bit.

PO: RIH.

Remarks:

- The tentative top of Basal Salina is at 7780' MD, 7230" TVD (- 7180' VSS), which is about 150' higher than LO6-25 well.
- Mud weight has been increased from 11.6 to 12.0 pounds per gallon.

Next: Continue drilling trough the Upper Basal Salina.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
7800'-7850'	--	10	--	90	NF	Ss. Lt gy, vf, sb ang- sb md, w srt, arg mtx, fri, dty, calc cmt, w/ mic & dk gr incl, vp vis por. Clyst: Brmsh- gy, Gy, sb blk- blk, minor sb plty, mod frm, non-calc, v mic mic, slty in pt TG: 1510; C1: 1424; C2: 43
7850'-7865'	--	--	--	100	NF	Clyst: Same as above. TG: 663; C1: 621; C2: 21

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7796	30.3	216.0	7243	-7193	-2061	-1373

Mud weight: 12.0 ppg.

Viscosity: 53 sec

Filtrate: 5.6 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	24,557
Cumulated (\$):	856,629

MCH/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 24 (21) LO6-23.doc

CENTRAL FILE
GEOSCIENCES



LO6 -23 GEOLOGICAL REPORT

Date: May 23, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	7771' @ 00 hrs	157'	29	9 5/8" @ 5313'	Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 7636' to 7771'.

PO: Drilling rotating and sliding at 7807' in Basal Salina formation.

Remarks:

- Based on ditch sample description and gas shows a total of 20 ft. of tentative Upper Basal Salina formation have been drilled.
- Gas shows with C1 through C5 in only 10% of medium to coarse-grained sands without fluorescence have been observed. Total gas increased from 539 to 65,225 ppm.
- The tentative top of Basal Salina is at 7780' MD, 7230" TVD (- 7180' VSS), which is about 150' higher than LO6-25 well.
- Mud weight has been increased from 11.0 to 11.6 pounds per gallon.

Next: Continue drilling until the Upper Basal Salina is confirmed, then perform a trip to change BHA and bit.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
7630'-7780'	--	--	--	100		Clyst: Gy, sb blkly-blky, v micr mic, sl micr carb, non calc, mod frm & Brnsh- gy, sb blkly, micr mic, micr carb, non- calc, mod frm. TG: 539; C1: 507; C2: 16
7780'-7800'	10	--	--	90	NF	Sd: Wh, hy, 90% m, 10% c-vc, sb ang- sb rd, w srt. Clyst: Same as above. TG: 65225; C1: 6234; C2: 1308; C3: 87; C4: 71; C5: 6

Formation	MD	TVD	VSS
Upper Basal Salina	7780'	7230'	-7180'

Micropaleontology:
Interval

Determination

Formation

7570'-7750'

Palegrede/ Salina assembly very poor

San Cristobal formation

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
7670	27.2	218.8	7133	-7083	-2013	-1282

Mud weight: 11.4 ppg.

Viscosity: 53 sec

Filtrate: 5.6 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	20,170
Cumulated (\$):	861,072

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C..... May 23 (20) LO6-23.doc

LO6 -23 GEOLOGICAL REPORT

Date: May 22, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	7614' @ 00 hrs	283'	28	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 7390' to 7614'. Repairing mud pumps.

PO: Drilling rotating and sliding at 7636' in San Cristobal formation.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
7390'-7630'	--	--	--	100		Clyst: Gy, sb blkly-blky, v micr mic, sl micr carb, non calc, mod frm & Brnsh- gy, sb blkly, micr mic, micr carb, sl calc, mod frm. & Dk gy, frm, sb blkly- blkly, non-calc, micr mic, slty in pt. TG: 928; C1: 880; C2: 24

Formation	MD	TVD	VSS
San Cristobal	6240'	5853'	-5803'

Micropaleontology: Interval	Determination	Formation
7330'-7510'	Palegreda/ Salina assembly very poor	San Cristobal formation
7510'-7570'	Palegreda/ Salina assembly poor	San Cristobal formation

Last survey:	Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
	7482	26.4	220.9	6965	-6915	-1949	-1282

Mud weight: 11.0 ppg. Viscosity: 52 sec Filtrate: 5.6 ml

WELL COST:

AFE (\$):	1,451,680
Daily (\$):	22,663
Cumulated (\$):	840,902

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 22 (19) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 21, 2001

RIG	Today Depth	Progress last 24 hrs	Days	Last Casing	Objective	FTD
P - 48	7331' @ 00 hrs	121'	27	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Over weekend drilled from 6764' to 7331'. Trip to check MWD, didn't receive signal. RIH with mud motor.

PO: Drilling rotating and sliding at 7390' in San Cristobal formation.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Sists	Clyst	Fluor	Description
6760'-7390'	--	--	--	100		Clyst: Gy, sb blkly-blky, v micr mic, sl micr carb, non calc, mod frm & Brnsh- gy, sb blkly, micr mic, micr carb, sl calc, mod frm. TG: 850; C1: 800; C2: 25

Formation	MD	TVD	VSS
San Cristobal	6240'	5853'	-5803'

Micropaleontology:

Interval	Determination	Formation
6290'-6750'	Palegreda/ Salina assembly very poor	San Cristobal formation
6750'-6990'	Palegreda/ Salina assembly poor- common	San Cristobal formation
6990'-7230'	Pg/ Sn assy common + Balcones Reworked traces- very poor	San Cristobal formation
7230'-7330'	Palegreda/ Salina assembly poor	San Cristobal formation

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
6979	26.3	218.8	6516	-6466	-1779	-1132
7293	26.7	223.0	6796	-6746	-1885	-1225

Mud weight: 11.0 ppg.

Viscosity: 51 sec

Filtrate: 5.2 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	20,355
Cumulated (\$):	818,239

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 21 (18) LO6-23.doc

**CENTRAL FILE
GEOSCIENCES**



LO6 -23 GEOLOGICAL REPORT

Date: May 18, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	6764' @ 00 hrs	193'	24	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 6605' to 6764' in San Cristobal formation. Trip to change assembly.

PO: RIH.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
6600'-6760'	--	--	--	100		<i>Clyst: Gy, sb blkly-blky, v micr mic, micr carb, non calc, mod frm & Brnsh, sb blkly, micr mic, micr carb, sl calc, mod frm. TG: 262; C1: 258; C2: 2</i>

Formation	MD	TVD	VSS
San Cristobal	6240'	5853'	-5803'

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
6700	26.2	209.4	6265	-6215	-1678	-1061

Mud weight: 10.9 ppg.

Viscosity: 52 sec

Filtrate: 5.2 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	20,596
Cumulated (\$):	753,538

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 18 (17) LO6-23.doc

**CENTRAL FILE
GEOSCIENCES**



LO6 -23 GEOLOGICAL REPORT

Date: May 17, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	6571' @ 00 hrs	250'	23	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled to 6571'. Trip to change assembly. RIH with PDC bit and Mud motor.

PO: Drilling at 6605' in San Cristobal formation.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
6500'-6600'	--	--	--	100		Clyst: Gy, sb blkly-blky, v micr mic, micr carb, non calc, mod frm TG: 847; C1: 825; C2: 2; C3: 1; C4: 1; C5: 3

Formation	MD	TVD	VSS
San Cristobal	6240'	5853'	-5803'

Last survey:						
Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
6516	26.1	209.6	6100	-6050	-1608	-1020

Mud weight: 10.9 ppg. Viscosity: 52 sec Filtrate: 5.2 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	21,366
Cumulated (\$):	732,942

MCh/PA

**CENTRAL FILE
GEOSCIENCES**



LO6 -23 GEOLOGICAL REPORT

Date: May 16, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	6321' @ 00 hrs	467'	22	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: RIH testing strings each 10 stands to 5854'. Continue drilling.

PO: Drilling at 6532' in San Cristobal formation.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
5850'-5890'	--	--	--	100		Clyst: Brn- gy, sb blkly, sb plty, v micr mic, micr carb, non- calc, mod sft.
5890'-5970'	--	40	--	60	5	Sst: Wh, 60%vf, 40%f, sb ang- sb rd, fr srt, sl cln, v calc cmt, fri- mod hd, w/dk gr inc, p vis por. Fluor: Pale yel', slow & weak cut, sl mlky wh fluor crush spl, Non visible residual ring Clyst: Brn- gy, sb blkly- blkly, mod frm, micr mic, micr carb, non- calc, sl waxy.
5970'-6040'	--	80	--	20	10	Ss. Wh-gy, 70%vf, 30%f, sb ang -sb rd, fri - mod hd, w srt, sl arg mtz, calc cmt, w/lam coal, mic & dk gr inc, p vis por. Fluor: Wh dull, mod strg cut, sl mlky wh fluor on crush spl, Non Vis Res Ring Clyst: Same as above
6040'-6240'	--	40	--	60	NF	Sst: Lt Gy, vf, w srt, arg mtz, mod hd, non calc, dty, w/lam coal & dk gr inc, vp-p vis por. Clyst: Same as above
6240'-6500'	--	10	--	90	NF	Clyst: Gy, sb blkly- blkly, mod frm, non calc, v mic mic, mic carb.
Formation		MD	TVD	VSS		
San Cristobal		6240'	5853'	-5803'		

Last survey:

Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
5957	27.2	218.1	5600	-5550	-1401	-880
6516	26.1	209.6	6100	-6050	-1608	-1020

Mud weight: 10.9 ppg.

Viscosity: 50 sec

Filtrate: 5.2 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	37,941
Cumulated (\$):	711,576

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH. ...C:....May 16 (15) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 15, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	5854' @ 00 hrs	82'	21	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Changed Assy, RIH w/ Rotary Assy, drilled to 5854'. Dropped pressure, POOH to check. Changed jets in bit. RIH to 497'.

PO: Circulating to check drill collars and HW's.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
5818'-5850'	--	--	10	90	NF	<i>Slsts:</i> Gy, sb blkly to blkly, mic, micr carb, non- calc, sft. <i>Clyst:</i> Sl brnsh gy, mnr gy, sb blkly, sb plty, v micr mic, micr carb, non- calc, mod sft.

Formation : Mogollon

Palinology: Interval	Determination	Formation
5800'-5818'	Sub zone VIII a	Mogollon formation

Last survey: Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
5753	27.6	217.5	5419	-5369	-1327	-822

Mud weight: 10.4 ppg. Viscosity: 54 sec Filtrate: 5.4 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	24,702
Cumulated (\$):	673,635

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 15 (14) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 14, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	5772' @ 00 hrs	459'	20	9 5/8" @ 5313'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Over weekend drilled from 5313' to 5818' in Palegreda formation.

PO: Trip to change assembly.

Next: Continue drilling to reach the Basal Salina objective.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
5313'-5570'	--	--	20	80	NF	<i>Slsts:</i> Gy- lt gy, sb blkly, mic, micr carb, non- calc, mod frm. <i>Clyst:</i> Gy, sb blkly, sb plty- plty, micr mic, micr carb, non- calc, mod frm.
5570'-5640'	--	10	10	80	NF	<i>Sst:</i> Lt gy, vf, sb ang- sb rd, w sort, mod fri, calc cem, cly mtx, w/ dk gr & coal incl, dty sst, p vis por. <i>Slsts:</i> Same as above. <i>Clyst:</i> Gy, blkly- sb blkly, non-calc, v micr mic, rough surf, slty- clyst.
5640'-5818'	--	--	10	90		<i>Slsts & Clyst:</i> Same as above.
Formation Mogollon			MD 5570'	TVD 5253'	VSS -5203'	

Palinology: Interval	Determination	Formation
5290'-5310'	Sub zone VIII b	Palegreda formation

Surveys: Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
5346	19.2	209.6	5045	-4995	-1199	-726
5660	24.4	217.4	5336	-5286	-1295	-797
5753	27.6	217.5	5419	-5369	-1327	-822

Mud weight: 10.2 ppg.

Viscosity: 51 sec

Filtrate: 5.4 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	22,393
Cumulated (\$):	648,933

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 14 (13) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 11, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	5313' @ 00 hrs	33'	17	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Conditioning hole. Ran 9 5/8" casing to 5313'.

PO: Cementing.

Next: WOC and continue drilling to reach the Basal Salina objective.

Formation	MD	TVD	VSS
Palegreda	5200'	4906'	-4856'

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	22,293
Cumulated (\$):	458,238

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 11 (12) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 10, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	5280' @ 00 hrs	530'	16	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Trip for bit and assembly at 4998'. Continue drilling to 5313' in Palegredda formation.

PO: Conditioning hole to run 9 5/8" casing.

Next: Set and cement 9 5/8" casing.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
4990'-5200'	-	20	10	70	NF	Sst: Lt gy, vf, sb ang- sb rd, w sort, mod frm, non-calc cly mtx, p vis por. Slsts: Gysh, blk, micr mic, micr carb, sl calc, mod frm. Clyst: Gy, sb blk, micr mic, non- calc, mod frm. TG: 949; C1: 933; C2: 2; C3: 1; C4: 1; C5: 1
5200'-5313	-	10	10	80	NF	Sst & Slsts: Same as above Clyst: Lt gy, sb blk, sb pty, micr mic, micr carb, non calc, mod frm. TG: 711; C1: 711

Formation	MD	TVD	VSS
Palegredda	5200'	4906'	-4856'

Paleontology: Interval	Determination	Formation
5170'-5260'	Palegredda fauna very poor	Palegredda formation

Surveys: Depth (ft)	Incl (deg)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
5036	15.6	208.2	4748	-4698	-1121	-683
5162	16.1	208.2	4870	-4820	-1151	-700
5274	17.0	208.2	4977	-4927	-1179	-715

Mud weight: 9.8 ppg.

Viscosity: 52 sec

Filtrate: 5.6 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	29,294
Cumulated (\$):	435,945

MCH/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 10 (11) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 9, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	4750' @ 00 hrs	521'	15	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilling.

PO: Drilling at 4990' in Rio Bravo formation.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
4220'-4330'	--	50	10	40	10	Sst: Wh gy, 50%vf, 50%f, sb ang- sb rd, fr sort, mod frm, non-calc sily mtz, p vis por. Fluor: Yel sl bri, slow stream mky wh fluor on cut, lt yel residual ring. Fair- poor oil show. Slsts: Gysh, blkly, micr mic, micr carb, sl calc, mod frm. Clyst: Gy, sb blkly, micr mic, non- calc, mod frm. TG: 3395; C1: 3190; C2: 22; C3: 16; C4: 12; C5: 13
4330'-4510	--	20	30	50	NF	Sst: Wh, 90%vf, 10%f, sb ang, sb rd, w sort, mod frm, non- calc, cly mtz, dty sst, p vis por Slsts & Clyst: Same as above. TG: 693; C1: 693
4510'-4630'	10	30	20	40	5	Sd: Wh hy, 70% f, 30% m, sb ang, sb rd, fr-p sort. Sst, Slst & Clyst: Same as above TG: 4408; C1: 4136; C2: 25; C3: 22; C4: 19; C5: 16
4630'-4750'	--	50	--	50	NF	Sst: Lt gy, vf, cly mtz, dty sst, p vis por. Clyst: Gy, sb blkly, micr mic, mod frm. TG: 1048; C1: 1048
4750'-4990'	--	20	10	70	NF	Sst, Slst & Clyst: Same as above TG: 693; C1: 693

Formation	MD	TVD	VSS
Rio Bravo	3610'	3427'	-3377'

Surveys:	Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
	4426	21.2	208.6	4170	-4120	-952	-592
	4739	18.5	208.2	4464	-4414	-1046	-643
	4896	16.3	208.9	4614	-4564	-1087	-665

Mud weight: 9.8 ppg.

Viscosity: 53 sec

Filtrate: 5.6 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	26,149
Cumulated (\$):	405,651

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 9 (10) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 8, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	4229' @ 00 hrs	445'	14	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 3784' to 4229' in Rio Bravo formation. Trip for bit.

PO: RIH with new bit.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Lithology Interval	Sd	Sst	Ssts	Clyst	Fluor	Description
3760'-3850'	10	40	--	50	30	Sd: Wh hy, 50% f, 50% m, sb ang, sb rd, fr-p sort. Sst: Wh gy, 60%vf, 40%f, sb ang- sb rd, fr sort, mod frm, non-calc sily mtx, p vis por. Fluor: Yel sl bri, mod fast, strong stream mky wh fluor on cut, lt yel residual ring. Good oil show. Clyst: Gy, sb blk, micr mic, non- calc, mod frm. TG: 2164; C1: 1840; C2: 20; C3: 17; C4: 22; C5: 29
3850'-4060	--	60	--	40	NF	Sst: Wh. 80%vf, 20%f, sb ang, sb rd, w sort, fri, non- calc, fr vis por Clyst: Same as above. TG: 1071; C1: 935; C2: 12; C3: 10; C4: 8; C5: 10
4060'-4220'	--	30	--	70	NF	Sst & Clyst: Same as above TG: 260; C1: 258; C2: 1

Formation	MD	TVD	VSS
Rio Bravo	3610'	3427'	-3377'

Surveys:	Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
	3263	26.3	211.4	3113	-3063	-535	-345
	3579	25.8	211.7	3397	-3347	-654	-417
	4113	23.8	210.4	3881	-3831	-847	-532

Mud weight: 9.7 ppg.

Viscosity: 52 sec

Filtrate: 5.8 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	26,058
Cumulated (\$):	379,502

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 8 (9) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 7, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	3784' @ 00 hrs	2184'	13	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Over the weekend drilled from 1600' to 3784'.

PO: Drilling at 3914' in Rio Bravo formation.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Lithology Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
1600'-2500'	--	--	--	100		Clyst: Brnsh, sb blkly- blkly, micr mic, sl micr carb, sl calc, mod sft. TG: 2250; C1: 2250
2500'-3610	--	--	10	90		Slsts: Gysh, w/ mic incl, sl calc, sft. Clyst: Gy, sb blkly, micr mic, non- calc, mod frm. TG: 270; C1: 270
3610'-3670'	10	20	--	70	15	Sd: Wh hy, 20%v f, 70% f, 10% m, sb ang, sb rd, fr sort. Sst: Wh, 70%vf, 30%f, sb ang, sb rd, w sort, fri, non- calc, fr vis por. Fluor: Yel sl bri, mod fast, strong stream mky wh fluor on cut, lt yel residual ring. Good oil show. Clyst: Brnsh gy, sb blkly, sl micr mic, sl micr carb, non-calc, mod frm, smooth surf. TG: 3268; C1: 2755; C2: 46; C3: 44; C4: 36; C5: 29
3670'-3760'	10	50	--	40	50	Sd: Wh hy, 40% f, 50% m, 10% c, sb ang, sb rd, fr-p sort. Sst: Wh gy, 50%vf, 40%f, 10% m, sb ang- sb rd, fr sort, mod frm, non-calc slty mtz, p vis por. Fluor: Yel sl bri, mod fast, strong str am mky wh fluor on cut, lt yel residual ring. Good oil show. Clyst: Same as above. TG: 5770; C1: 5422; C2: 33; C3: 29; C4: 25; C5: 19

Formation	MD	TVD	VSS
Chacra	2500'	2434	-2384'
Rio Bravo	3610'	3427'	-3377'

Surveys:	Depth (ft)	Incl (degr)	Azimuth (deg)	TVD (ft)	VSS (ft)	N/ -S (ft)	E/ -W (ft)
	1681	5.6	211.2	1681	-1631	10	11
	1837	14.6	215.9	1834	-1784	-13	-4
	1962	18.7	209.6	1954	-1904	-43	-25
	2056	22.4	206.0	2042	-1992	-72	-39
	2182	28.2	212.9	2155	-2105	-119	-67
	3106	26.4	212.9	2972	-2922	476	-308

Mud weight: 9.5 ppg.

Viscosity: 52 sec

Filtrate: 6.0 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	27,873
Cumulated (\$):	353,444

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 7 (8) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 4, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	1600' @ 00 hrs	100'	10	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: RIH with PDC to 1600'. Slim-1 did not work properly. Trip to check it.
RIH with triconic bit. Slim-1 working properly. Trip to change bit.

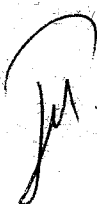
PO: RIH with PDC bit and Slim-1.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Mud weight: 9.8 ppg. **Viscosity:** 44 sec **Filtrate:** 7.6 ml

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	18,435
Cumulated (\$):	269,933

 MCH/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 4 (7) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: May 3, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	1500' @ 00 hrs	---	9	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled cement to 1470', no progress. Trip to check bit. RIH with new bit. Drilled out cement and formation to 1600' in Talara Group. Trip for mud motor.

PO: RIH with mud motor.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Lithology

Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
1500'-1600'	--	--	--	100		Clyst: Lt brnsh, sb blkly- blkly, non-calc, micr mic, micr carb, sft.

Formation	MD	TVD	VSS
Talara Group	597'	597	-547 (First sample recovered)

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	18,733
Cumulated (\$):	251,498

MCh/PA



LO6 -23 GEOLOGICAL REPORT

Date: May 2, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	1500' @ 00 hrs	903'	8	13 3/8" @ 1500'	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Over the weekend, drilled from 597' to 1500' in Talara Group. Set and cement 13 3/8" casing at 1500 feet. WOC.

PO: Welding flow line.

Next: Continue drilling to 5200' in order to set 9 5/8" casing.

Lithology

Interval	Sd	Sst	Slsts	Clyst	Fluor	Description
597'-790'	30	40	--	30	NF	<i>Sd:</i> Wh, hy, 30% f, 50% m, 20% c, sb ang, sb rd, p sort. <i>Sst:</i> Gysh, wh gnih, 30% f, 50% f, 20% m, p sort, sb ang- sb rd, fri, arg mat, calc cem, w/ gn min & carb mat incl, p vis por. <i>Clyst:</i> Brnsh, sb blk, micr mic, micr carb, sl calc, mod sft.
790'-850'	--	40	--	60	NF	<i>Sst:</i> Wh gy, vf-f, sb ang- sb rd, w sort, fri, arg mtx, calc cem, p vis por. <i>Clyst:</i> Same as above.
850'-1500'	--	--	--	100		<i>Clyst:</i> Lt brnsh, sb blk- blk, non-calc, micr mic, micr carb, sft.
Formation						
Talara Group		MD	TVD	VSS		
		597'	597	-547 (First sample recovered)		

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	34,042
Cumulated (\$):	232,765

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....May 2 (5) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: April 26, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	597' @ 00 hrs	17'	2	-----	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Preparing to run 18" conductor.

PO: Running 18" conductor

Next: Set and cement 18" conductor at 597'.

WELL COST:

AFE (\$):	N/ A
Daily (\$):	18,158
Cumulated (\$):	58,192

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C.....Apr 26 (3) LO6-23.doc

PETRO - TECH
PERUANA S.A.



LO6 -23 GEOLOGICAL REPORT

Date: April 27, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	597' @ 00 hrs	--	4	-----	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Ran 18" conductor to 597 feet.

PO: Cementing 18" conductor

Next: WOC and continue drilling to 5200' in order to set 9 5/8" casing.

WELL COST:

AFE (\$):	1'451,680
Daily (\$):	18,621
Cumulated (\$):	76,813

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....Apr 27 (4) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: April 25, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	360' @ 00 hrs	220'	1	-----	⁷⁸⁵⁰ Upper Basal Salina @ 8900' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Drilled from 414' to 445' with high torque. Trip for Magnet, recovered pieces of junk. Trip for bit. Drilled to 597' with sea water, no samples returns.

PO: Reaming.

Next: Set and cement 18" conductor at 580'.

WELL COST:

AFE (\$):	N/ A
Daily (\$):	18,158
Cumulated (\$):	39,561

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....Apr 25(2) LO6-23.doc



LO6 -23 GEOLOGICAL REPORT

Date: April 24, 2001

RIG	Today Depth	Progress	Days	Last Casing	Objective	FTD
P - 48	360' @ 00 hrs	75'		-----	Upper Basal Salina @ 7850' MD (-7280' VSS) Lower Basal Salina @ 8250' MD (-7650' VSS)	8700'

24 hours summary: Skidded rig over conductor N° 23. Ran 18" conductor to 395'. Drill spud on April 24, 2001.

PO: Drilling at 414' with sea water, no samples returns.

Next: Set and cement 18" conductor at 565'.

LO6- 23

Direction: S 34° W
Max. vertical angle: 25 degrees
Main Objective: Basal Salina (Upper and Lower sections)

Geological Summary:

- This well has been recommended to continue with the development of the Basal Salina in a faulted block of approximately 300 acres where is located the well LO6- 25, at 800 meters towards NE.
- Estimated reserves for **LO6-23** are 300 MBO, and IPR is 300 BOPD.
- The Net pay estimated for Basal Salina is 350' (150' & 200' in the Upper and Lower sections respectively). The sand quality is expected to be similar to that encountered in LO6- 25 well.
- Expected formation tops are as follows:

	MD	TVD	VSS
Talara	From Sea level		
Chacra	2300'	2250'	-2200'
Rio Bravo	3900'	3750'	-3700'
Palegreda	5100'	4800'	-4750'
Mogollon	5800'	5450'	-5400'
San Cristobal	6350'	5950'	-5900'
Upper Basal Salina	7850'	7330'	-7280'
Lower Basal Salina	8250'	7700'	-7650'
Balcones	8500'	7900'	-7850'
Total Depth	8700'	8100'	-8050'

WELL COST:

AFE (\$): N/ A
Daily (\$): 21,403
Cumulated (\$): 21,403

MCh/PA

Cc/ WMK, FAT, LCh, BB, RS, AV, File.

MCH.....C:....Apr 24(1) LO6-23.doc