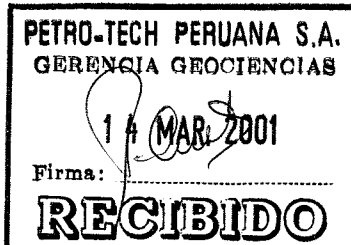


PETRO-TECH
PERUANA S.A.



PTP-DRLG-055-01

March 09, 2001

TO : Operations Manager

FROM : Drilling Manager

CC : P. Alarcón, M. Chávez, J. Suits, J. Meyers, E. Vega, J. Nakao, Drlg. Foreman, Pepesa, Anadrill.

SUBJECT : DRILLING PROGRAM FOR WELL
Z-2B-24-079-D-LO6 (LO6-25)

Attached is the Drilling Program for well LO6-25 to be drilled by PEPESA Rig 48 as part of the 2001 Drilling Project in Lobitos area.

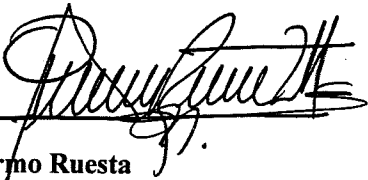
The purpose of this drilling project is to develop and confirm production in the Basal Salina reservoir to the southwest. This will be a new well conventionally drilled to a projected TD of 9,700 feet.

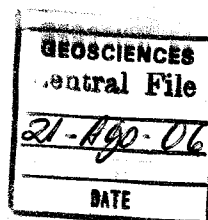
The geological top of the pay zone is expected at 8,900 ft MD (6,950' TVD) in direction S 42° W. The drilling design consider make up KOP at 600 ft. using a steerable motor and MWD to reach a maximum angle of 54° (BUR 5.5°/100 ft.) at +/- 1,530 feet. After the final direction and angle are attained the motor will be laid down and stabilized rotary assemblies used until 3,700 ft. Then a Light Dropping Assembly will be picked up to continue drilling dropping angle (DOR 1.5°/100 feet) until to reach a final angle of 25° (6,000 ft) and maintain it to TD. High values of torque and drag will be experienced on the bottom hole assembly by geometry of the hole

9 5/8" intermediate casing is programmed to set at 6,000 feet. The risk existent is on Rio Bravo formation (4415' - 5945') by spacing respect to closest well L06-8 by possible reservoir depletion. In order to avoid potential problems either with lost circulation or stuck pipe, lower weight and sealing material will be used in drilling fluid.

While drilling Basal Salina formation, mud weight will be increased as dictated by well bore conditions. Mud logging unit will be used to monitor gas and control mud weights. Sufficient weight material must be stocked at the Rig to raise the mud weight by two pounds if it's necessary.

The estimated time to drill this well is 32 days plus 5 days for completion. The expenditure estimated to develop this project will be \$ 1' 543,580 and charged to AFE N° 2210306.


Guillermo Ruesta
Drilling Manager (i)



Drilling Prognosis
LO6-25

CENTRAL FILE
Geosciences

GENERAL INFORMATION

Area : Lobitos
Official Number : Z-2B-24-079-D-LO6
Well Type : Development

Well : LO6-25
AFE : 2210306

GEOLOGICAL RECOMMENDATION

<u>FORMATION</u>	<u>MEASURE DEPTH</u> (MD)	<u>VERTICAL</u> <u>DEPTH</u> (VD)	<u>OBSERVATIONS</u>
TALARA	AT SURFACE		
CHACRA.	2990	2250	
RIO BRAVO	4415	3150	SECONDARY OBJECTIVE
PALEGREDA	5945	4450	
MOGOLLON	6500	4950	SECONDARY OBJECTIVE
SAN CRISTOBAL	7490	5850	
BASAL SALINA	8705	6950	MAIN OBJECTIVE
BALCONES	9475	7650	
T.D.	9700	7850	

COORDINATES

SURFACE N: 9°508,648.86 mts. E: 459°050.20 mts.
OBJECTIVE N: 9°507,590.00 mts. E: 458,100.00 mts.

DIRECTIONAL

Kick off point : ± 600 ft.
Rate of Build up / Drop off : 5.5° / 100 ft. – 1.5° / 100 ft
Maximum Angle : 54°
Final Angle : 25°
Direction : S 42° W
Drilled Depth to Target : 8,705 ft.
Vertical Depth to Target : 6,950 ft.
Horizontal Distance to Target : 4,670 ft.
Drilled Depth Programmed : 9,700 ft.
Estimated Drilling Days : 32
Completion Days : 5

DRILLING RIG

Contractor : PEPESA
Rig : 48
Drawworks Type : OIME-750
Traveling Blocks Type : IDECO - 265 TN
Pump N° 1 : IDECO - T - 1000 (10" x 7")
Pump N° 2 : IDECO - T - 1000 (10" x 7")

ELEVATIONS

KB : 50 ft.
Water Depth : 335 ft.

Drilling Prognosis
LO6-25

GENERAL DRILLING PROGRAM

Move PEPESA # 48 rig over conductor "loca" # 25 at the southwest of the platform.

18" (CONDUCTOR):

1. Set conductor on bottom and secure to platform, RIH with modified 17" bit w/3 Jets of (16/ 32"), drill 190 feet with seawater pumping high viscosity sweeps. POOH.
2. RIH w/assembly to open hole to bottom. POOH. Add on conductor and run to bottom.
3. Secure conductor to the floor of the first level and weld adapter flange.
4. Install 21^{1/4}" Annular preventor control, lines, flow line and flow diverter. RIH with open ended string and cement conductor **according to attached program.**

17" PHASE

1. RIH with slick assembly and a tooth bit to drill cement and 20 feet formation. Circulate and POOH.
2. P/U Power Pak motor and Build assembly with a tooth bit and RIH to start KOP. Build angle to 54° in the direction of S 42° W holding dogleg severity to no more than 5.5°/100 ft. The angle should be established by +/- 1530'. Continue drilling to 2,500 feet. Circulate and make short trip in order to condition hole. POOH.

Note: Short trips should be made each 500 feet. Jars will be run in HWDP. Make sure the set on location in the correct size and has the proper connection and that a backup is available.

3. RIH and cement 13 3/8", K-55, 54.5 #/ ft, STC casing at 2,500 feet **according to attached program.**
4. Cut off casing, install 18" x 13 3/8" ring and wellhead 13 3/8" x 13 5/8"-2M and test same to 1200 psi. N/U and test BOP's (Blind rams with 1,000 psi).

12^{1/4}" PHASE

1. RIH w/ slick assembly and a tooth bit (RR). Test BOP's (Annular w/ 800 psi, Pipe Rams and Kill Manifold w/ 1,000 psi). To drill floating equipment, cement and 10 feet formation. Circulate and POOH.
2. RIH w/ Stabilized Assembly, MWD and PDC bit. Continue drilling maintaining direction and angle up to 3,650 feet. **Pump viscosity sweeps to clean up hole if it's necessary.** Circulate and POOH.
3. RIH w/ Light Dropping Assembly and PDC bit. Continue drilling to drop angle 1.5°/100 feet up to 6,000 feet. Circulate and condition hole in order to run intermediate casing. POOH. **Take care to maintain low mud weight and using**

sealing material while drilling Rio Bravo formation due to possible reservoir depletion.

4. RIH and cement 9^{5/8}", N-80, 43.5 # / ft, LTC casing at 6,000 feet **according to attached program.**
5. Set 13 5/8" x 9 5/8" hanger and cut off casing. N/U casing spool 13 5/8" x 11" - 2000 x 3000. N/U and test BOP's. (Blind Rams w/ 1,200 psi).

Notes:

- * **To keep always the drilling string in movement.**
- * **Drill no more than 500 feet or 12 hours between short trips.**
- * **Jars will be run in the HWDP. Make sure that the jars on location have to correct connections and that a backup is available.**
- * **All components of the BHA should be correctly calipered and reported on a BHA form in IADC report.**

8^{1/2}" PHASE

1. RIH with slick assembly and tooth bit. Test BOP's (Annular w/ 800 psi, Pipe Rams and kill manifold with 1200 psi). Drill floating equipment, cement and 10 feet formation. Circulate and POOH.
2. P/U Holding Assembly and PDC bit. Continue drilling maintaining angle and direction to TD. When the conditions exist that the target cannot be missed, POOH and lay down MWD. Circulate and make short trip in order to condition hole to run electric logs. POOH. **Pump continuous low viscosity pills following by weighted pills to clean up the hole.**

Notes:

- * **If high torque values are encountered a motor will be run in this section.**
- * **To keep always the drilling string in movement.**
- * **Drill no more than 500 feet or 12 hours between short trips.**

3. Run electrical logs according to program.
4. Make conditioning trip to run production casing. Circulate and POOH laying down drill pipe.
5. Run 5^{1/2}" N-80, 17#/ft casing, cement **according to program.**
6. Install 11" x 7^{1/16}" - 3000 x 5000 psi tubing head.

Proposed Well Profile

Report Date: March 9, 2001	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Petro-Tech Peruana S.A.	Vertical Section Azimuth: 221.930°
Field: Lobitos	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Platform LO6 (WGS84) / Slot #25	TVD Reference Datum: KB
Well: Well LO6-25	TVD Reference Elevation: 50.0 ft relative to MSL
Borehole: Borehole LO6-25	Sea Bed / Ground Level Elevation: 0.000 ft relative to MSL
UWI / API#:	Magnetic Declination: 1.539°
Survey Name / Date: LO6-25 rev#2 / March 9, 2001	Total Field Strength: 28884.964 nT
Tort / AHD / DDI / ERD ratio: 83.000° / 5089.09 ft / 5.718 / 0.648	Magnetic Dip: 14.824°
Grid Coordinate System: UTM Zone 17S - WGS84, Meters	Declination Date: March 05, 2001
Location Lat / Long: S 4 26 42.813, W 81 22 8.781	Magnetic Declination Model: BGM 2000
Location Grid N/E Y/X: N 9508648.860 m, E 459050.200 m	North Reference: True North
Grid Convergence Angle: +0.02860833°	Total Corr Mag North -> True North: +1.539°
Grid Scale Factor: 0.99962076	Local Coordinates Referenced To: Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N-S (ft)	E-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Tie-In	0.00	0.00	221.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-138.1MTF
KOP	550.00	0.00	221.93	550.00	0.00	0.00	0.00	0.00	0.00	0.00	-138.1MTF
	600.00	2.75	221.93	599.98	1.20	-0.89	-0.80	1.20	221.93	5.50	-138.1MTF
	700.00	8.25	221.93	699.48	10.78	-8.02	-7.20	10.78	221.93	5.50	0.0
	800.00	13.75	221.93	797.61	29.85	-22.21	-19.95	29.85	221.93	5.50	0.0
	900.00	19.25	221.93	893.45	58.24	-43.33	-38.92	58.24	221.93	5.50	0.0
	1000.00	24.75	221.93	986.14	95.69	-71.19	-63.95	95.69	221.93	5.50	0.0
	1100.00	30.25	221.93	1074.80	141.85	-105.53	-94.79	141.85	221.93	5.50	0.0
	1200.00	35.75	221.93	1158.64	196.29	-146.03	-131.17	196.29	221.93	5.50	0.0
	1300.00	41.25	221.93	1236.87	258.52	-192.32	-172.76	258.52	221.93	5.50	0.0
	1400.00	46.75	221.93	1308.77	327.96	-243.98	-219.16	327.96	221.93	5.50	0.0
	1500.00	52.25	221.93	1373.69	403.97	-300.52	-269.96	403.97	221.93	5.50	0.0
Start Tangent Section	1531.82	54.00	221.93	1392.79	429.42	-319.46	-286.96	429.42	221.93	5.50	0.0
Csg. 13 3/8"	2500.00	54.00	221.93	1961.87	1212.70	-902.16	-810.39	1212.70	221.93	0.00	0.0
Chacra	2990.20	54.00	221.93	2250.00	1609.27	-1197.19	-1075.41	1609.27	221.93	0.00	0.0
KOP #2	3625.91	54.00	221.93	2623.66	2123.58	-1579.79	-1419.10	2123.58	221.93	0.00	180.0
	3700.00	52.89	221.93	2667.79	2183.09	-1624.07	-1458.87	2183.09	221.93	1.50	180.0
	3800.00	51.39	221.93	2729.16	2262.04	-1682.80	-1511.63	2262.04	221.93	1.50	180.0
	3900.00	49.89	221.93	2792.58	2339.35	-1740.31	-1563.29	2339.35	221.93	1.50	180.0
	4000.00	48.39	221.93	2858.00	2414.98	-1796.57	-1613.83	2414.98	221.93	1.50	180.0
	4100.00	46.89	221.93	2925.38	2488.87	-1851.54	-1663.21	2488.87	221.93	1.50	180.0
	4200.00	45.39	221.93	2994.67	2560.97	-1905.18	-1711.39	2560.97	221.93	1.50	180.0
	4300.00	43.89	221.93	3065.83	2631.23	-1957.45	-1758.34	2631.23	221.93	1.50	180.0
	4400.00	42.39	221.93	3138.79	2699.60	-2008.32	-1804.03	2699.60	221.93	1.50	180.0
Rio Bravo	4415.15	42.16	221.93	3150.00	2709.79	-2015.89	-1810.84	2709.79	221.93	1.50	180.0
	4500.00	40.89	221.93	3213.53	2766.05	-2057.74	-1848.43	2766.05	221.93	1.50	180.0
	4600.00	39.39	221.93	3289.97	2830.51	-2105.70	-1891.51	2830.51	221.93	1.50	180.0
	4700.00	37.89	221.93	3368.08	2892.95	-2152.15	-1933.24	2892.95	221.93	1.50	180.0
	4800.00	36.39	221.93	3447.80	2953.32	-2197.06	-1973.58	2953.32	221.93	1.50	180.0
	4900.00	34.89	221.93	3529.06	3011.59	-2240.41	-2012.52	3011.59	221.93	1.50	180.0
	5000.00	33.39	221.93	3611.83	3067.70	-2282.15	-2050.02	3067.70	221.93	1.50	180.0
	5100.00	31.89	221.93	3696.04	3121.64	-2322.28	-2086.06	3121.64	221.93	1.50	180.0
	5200.00	30.39	221.93	3781.63	3173.35	-2360.74	-2120.61	3173.35	221.93	1.50	180.0
	5300.00	28.89	221.93	3868.54	3222.80	-2397.53	-2153.66	3222.80	221.93	1.50	180.0
	5400.00	27.39	221.93	3956.72	3269.96	-2432.62	-2185.18	3269.96	221.93	1.50	180.0

	5500.00	5.89	221.93	4046.10	3314.79	-2465.97	-2215.17	3314.79	221.93	1.50	180.0
Start Tangent Section	5559.25	25.00	221.93	4099.60	3340.25	-2484.91	-2232.15	3340.25	221.93	1.50	0.0
Palegreda	5945.87	25.00	221.93	4450.00	3503.64	-2606.46	-2341.34	3503.64	221.93	0.00	0.0
Csg. 9 5/8"	6000.00	25.00	221.93	4499.06	3526.52	-2623.48	-2356.62	3526.52	221.93	0.00	0.0
Mogollon	6497.56	25.00	221.93	4950.00	3736.79	-2779.91	-2497.14	3736.79	221.93	0.00	0.0
San Cristobal	7490.60	25.00	221.93	5850.00	4156.47	-3092.12	-2777.60	4156.47	221.93	0.00	0.0
Sal Salina LO6-25	8704.32	25.00	221.93	6950.00	4669.41	-3473.71	-3120.37	4669.41	221.93	0.00	0.0
Alcones	9476.68	25.00	221.93	7650.00	4995.82	-3716.54	-3338.50	4995.82	221.93	0.00	0.0
T.D.	9697.36	25.00	221.93	7850.00	5089.09	-3785.92	-3400.82	5089.09	221.93	0.00	0.0

Survey Error Model: Wolff & deWardt 1.0000 sigma

Surveying Programme:

MD From (ft)

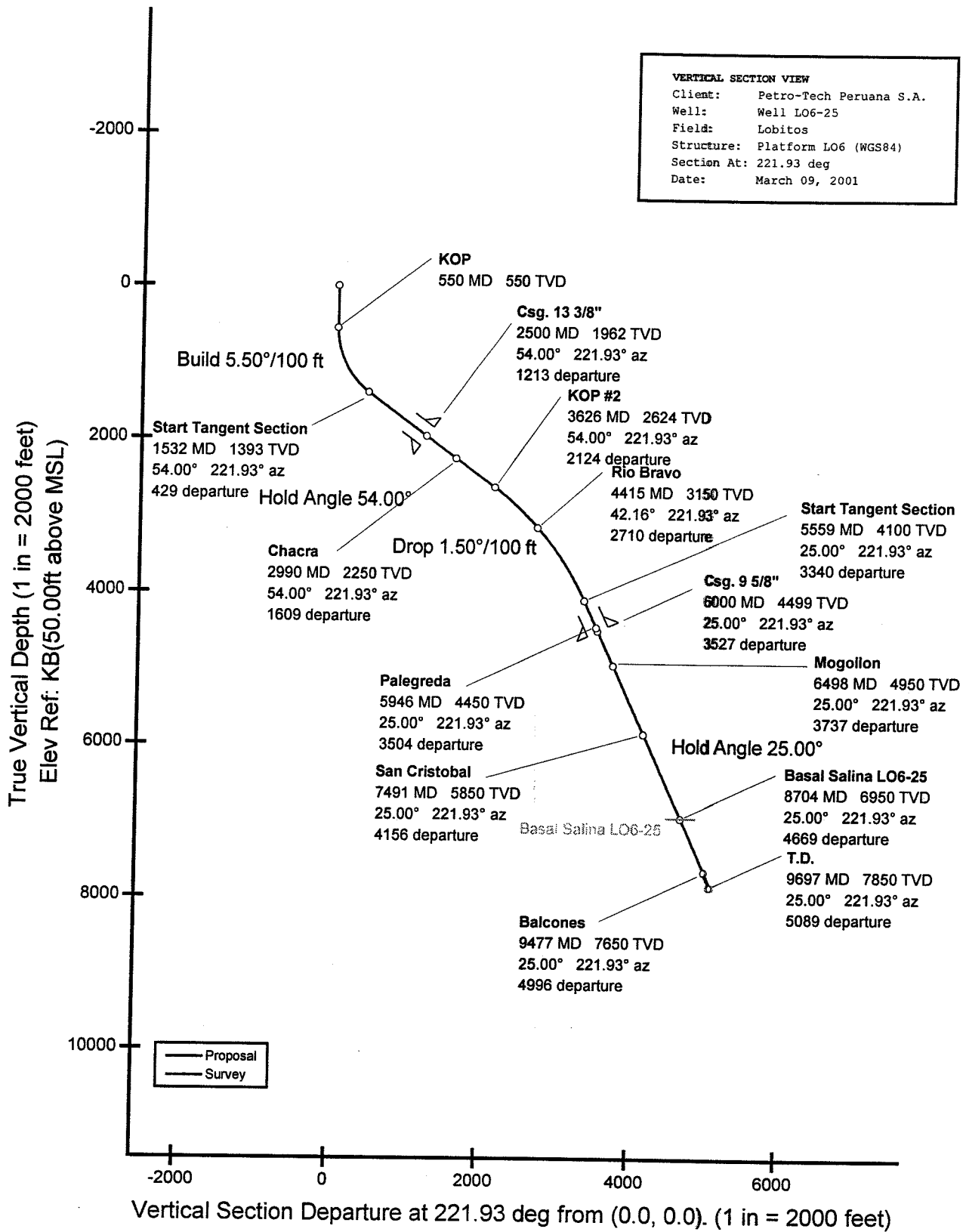
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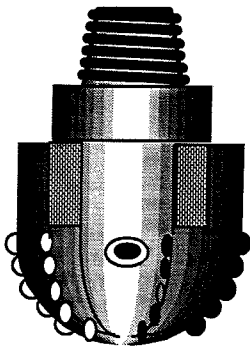
MD To (ft) EOU Freq Survey Tool Type

9697.36 Act-Stns Anadrill MWD

VERTICAL SECTION VIEW

Client: Petro-Tech Peruana S.A.
Well: Well LO6-25
Field: Lobitos
Structure: Platform LO6 (WGS84)
Section At: 221.93 deg
Date: March 09, 2001





LO6 - 25 BIT PROGRAM

DEPTH	SIZE	TYPE	IADC CODE	W.O.B.	RPM
385-565	17	GTX-1 (RR)	1-1-4	8/12	120
565-2500	17	GTX-C1	1-1-4	10-20	M/60
2500-6000	12 1/4	M91SV(RR)	PDC	15-20	110-120
6000-6850	8 1/2	DB-536	PDC	15/20	120
6850-7500	8 1/2	GT-18	4-1-7	25-30	100-90
7500-8700	8 1/2	DB-536	PDC	25-30	110
8700-9700	8 1/2	HP51	5-1-7	30-35	90

HYDRAULIC PROGRAM

	PIPE		TOOL JOINT		WEIGHT
	O.D	I.D	O.D	I.D	lbs/ft
DRILL STEM					
Drill pipe "G-105"	5.00	4.28	6.25	3.25	19.50
Drill pipe "G"	4.50	2.75	6.25	2.75	18.88
Heavy weight	5.00	3.00	6.50	2.875	53.00
Drill collar (two size)	8.00	3.00	6.25	2.813	150 / 92

INTERVAL		NOZZLES						Flow	Pressure (psi)		Velocity (ft/min)			HSI	J. Vel	Impt	ECD	
From	To	J-1	J-2	J-3	J-4	J-5	J-6	gpm	Bit	System	D.p	D.c	Crit.		ft/seg	Force	ppg	BHA
515	1600	20	20	20				801	560	2300	74	87	280	1.2	279	979	8.9	1
1600	2500	20	20	18				703	508	1940	65	77	286	0.9	262	832	9.2	2
2500	6000	20	20	16	16	14	14	703	197	2230	131	187	301	0.7	161	524	9.4	3
6000	6850	18	18	18	16	16	16	580	160	2250	301	428	463	1.0	139	406	10.5	3
6850	7500	20	20	20				510	265	2030	264	376	404	1.4	178	464	10.6	3
7500	8700	16	16	16	16	16	16	532	195	2250	276	393	427	1.1	151	418	10.9	3
8700	9700	20	20	20				440	218	1910	228	325	399	1.0	153	382	11.7	4

MUD PROGRAM

SURFACE HOLE

INTERVAL

515 - 2500

MUD TYPE

Bentonite Polymer

Cement 18" conductor. Prior to drilling, prehydrate bentonite with fresh water. Prepare the drilling fluid, mix sea water, Caustic Soda and small amounts of polymer. While drilling keep the fluid with low solids content, in order to increased the rate of penetration and clean the hole. Pump frequent sweeps as necessary to unload hole of cuttings.

PROPERTIES

Weight : 8.8 - 9.2 lbs/gl
Visc : 55 - 70 Sec/qt
PV / YP : 0.6 (Max Yp of 26)
Filt. API : 8
PH / K+ : 9.5 / 2000 mg/Lt

INTERMEDIATE HOLE

INTERVAL

2500 - 6000

MUD TYPE

FLO DRILL

After cleaning the tanks make the mud conversion according to the recommended rheological properties adjusting the levels of Calcium and Potassium Ions. Take care to maintain low mud weight and using sealing material (Mix II and Calcium Carbonate) while drilling this formation due to possible reservoir depletion. Pump frequent sweeps as necessary to unload hole of cuttings.

PROPERTIES

Interval (feet)	Weight Lbs/gl	Visc. Sec/qt	VP Cps	YP Lb/100ft ²	Sol %	Filt. cc/30'
2500 - 4500	9.2-9.4	55	22 - 26	28 - 32	7	<6
4500 - 6000	9.4	56 - 55	22 - 26	32 - 35	8	<5
PH	PM cc	PF cc	CALCIUM ppm		POTASIAM ppm	
9.5	0.8 - 1.2	0.2 - 0.50	180		14,000	

PRODUCTION HOLE

INTERVAL

6000 - 9700

MUD TYPE

FLO DRLL

Maintain mud of last phase according to the recommended rheological properties, YP and PV, will be kept at levels that will prevent excessive shaker losses and assure good hole cleaning properties.

PROPERTIES

Interval (feet)	Weight Lbs/gl	Visc. Sec/qt	Vp Cps	Yp Lb/100ft ²	Sol %	Filt. cc/30'
6000 - 6850	9.6 - 10.2	55	22 - 26	28 - 32	8	8
7800 - 8900	10.2 - 10.6	56 - 55	24 - 28	32 - 35	10	<6
8900 - 9700	10.6 - 11.5	56	24 - 28	35	12	5

PH	PM cc	PF cc	CALCIUM ppm	POTASIUM ppm
9.5	0.8 - 1.2	0.2 - 0.50	180	14,000

Drilling Prognosis
LO6-25

CEMENT PROGRAM

18" O.D. CONDUCTOR (Hole Average: 24")

1. Reach the maximum penetration of 190 feet. POOH string.
2. Install 21 1/4" control.
3. RIH opened end drill string to the bottom and circulate for 25 minutes.
4. Pump 250 sx of neat cement + 20 sx gilsonite+ 2% Cl_2Ca ($\rho = 15.6 \text{ \#/ gal}$)
5. POOH the pipe slowly to 100 feet, circulate.
6. Close BOP and displace with 20 bbls of mud (4 bpm). Leave pressurized.
7. After 5 hours open valve and preventor. POOH.

13 3/8" O.D. CASING AT 2,500 feet (Hole average 19 3/4")

1. Maximum speed to run casing: 40 sec/ tube.
2. Install the guide shoe followed by two (02) joints, and Super Seal II float collar.
Note: Use thread locking compound.
3. Install 12 centralizers. 10 between the first 15 joints starting from the float collar. Install the rest (2) at 700 and 350 feet.
4. Circulate $1^{1/2}$ casing volumes prior to pumping cement, condition mud during circulation to desired rheology. ($Y_p \pm 20 \text{ lbs/ } 100 \text{ ft}^2$) Mix spacers and or mud flush at this time.
5. Test cement lines and head with pressure of 2500 psi.
6. Release bottom wiper plug (red) and reload the cement with the top plug (black) and pump the following slurries:

Slurries	Density (lb/ gl)	Rend. (ft3/ sx)	Water (gls/ sx)
Sea Water (10 bbls)	8.3	---	---
1st. Slurry			
900 sx cmt (6% Gel) + 0.5 gl/10 bls FP-6L	13.5	1.75	9.25
2 nd . Slurry			
950 Net sx + 0.5 gls/ 10 bls FP-GL + 1% CaCl_2	15.6	1.20	5.2

Release top plug (black) and displace with 374 bbls of drilling mud. Pump pressure approximately 550 psi. Reciprocate casing during the first 200 Bbl of displacement, then sit the casing on bottom. Be careful to space out where there is no danger of a casing a casing collar in the well

Cement returns to surface are expected.

Drilling Prognosis
LO6-25

9^{5/8}" O.D. CASING AT 6000 feet (Hole Average: 13")

7. Maximum speed to run casing: 40 sec/ tube.
8. Install the guide shoe followed by two (02) joints, and float collar.
Note: Use thread locking compound.
9. Install 25 centralizers, 20 between the first 30 joints starting from the float collar.
Install the remaining between the interval: 3000 to 2000 ft one every other joint.
10. Circulate 1^{1/2} casing volumes prior to pumping cement, condition mud during circulation to desired rheology. ($Y_p \pm 18 \text{ lbs/ } 100 \text{ ft}^2$). Mix spacers and or mud flush at this time.
11. Test cement lines and head with pressure of 2500 psi.
12. Release bottom wiper plug (red) and reload the cement with the top plug (black) and pump the following slurries:

Slurries	Density (lb/ gl)	Rend. (ft ³ / sx)	Water (gls/ sx)
Sea Water (10 bbls)	8.5	---	---
1st. Slurry			
950 sx (6% Gel) + 0.5 gl/10 bls FP-6L	13.5	1.76	9.74
2nd. Slurry			
600 Net sx + 0.2% CD-32 +0.6% FL-62+ 0.5 gls/ Mgls- FP-6L	15.6	1.20	5.20

Release top plug (black) and displace with 443 bbls of drilling mud. Pump pressure approximately 1100 psi. Sit the casing a foot off bottom. Be careful to space out where there in no danger of a casing a casing collar in the well

Cement returns to surface are expected.

5^{1/2}" O.D. CASING AT 9700 feet (Hole Average: 9 3/4")

1. POOH. laying down string. Fill the hole with mud to keep hydrostatic pressure.
2. Maximum speed for casing run in hole: 40 sec/ft.
3. Install the equipment float Super Seal II . Apply thread lock compound.
4. Place centralizers (total: 30), the first 25 in each tube starting from the first couple and the remaining between: 5900'- 6300' (5).
5. Run two flag joint (± 25 feet) on the # 31 and 134 position of the casing string.
6. Reciprocate during the circulating. Condition mud rheology - $Y_p \pm 15 \text{ Lbs/ } 100 \text{ ft}^2$.
7. Make-up cementing head, lines and test with 2500 psi. Release bottom wiper plug (red) and reload the cement with the top plug (black) and pump the following slurries:

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Slurries	Density (lb/ gl)	Rend. (ft ³ / sx)	Water (gls/ sx)
20 Bls Mud Clean	8.9	---	---
40 bls Mud Sweep	12.5		
1st. Slurry			
600 sx cmt. (4% Gel) + 0.2% CD-32 +0.6% FL-62+ 0.5 gls/ Mgls- FP-6L	14.1	1.55	7.80
2nd. Slurry			
450 Net sx+ 0.35% CD-32 + 0.7 % BA-56 + 0.5% FP-6L	15.6	1.20	5.33

Release top plug (black) and displace with 224 Bbls diesel. Bump plug with 2400 psi. Hold for 5 minutes and then bleed pressure off to see if floats hold.

Run temperature survey after 08 hours of WOC.

ELECTRIC LOGS PROGRAM

1) OPEN HOLE LOGS:

- DLL - MSFL - GR
- FDC - CNL - GR
- CHECK SHOT SURVEY

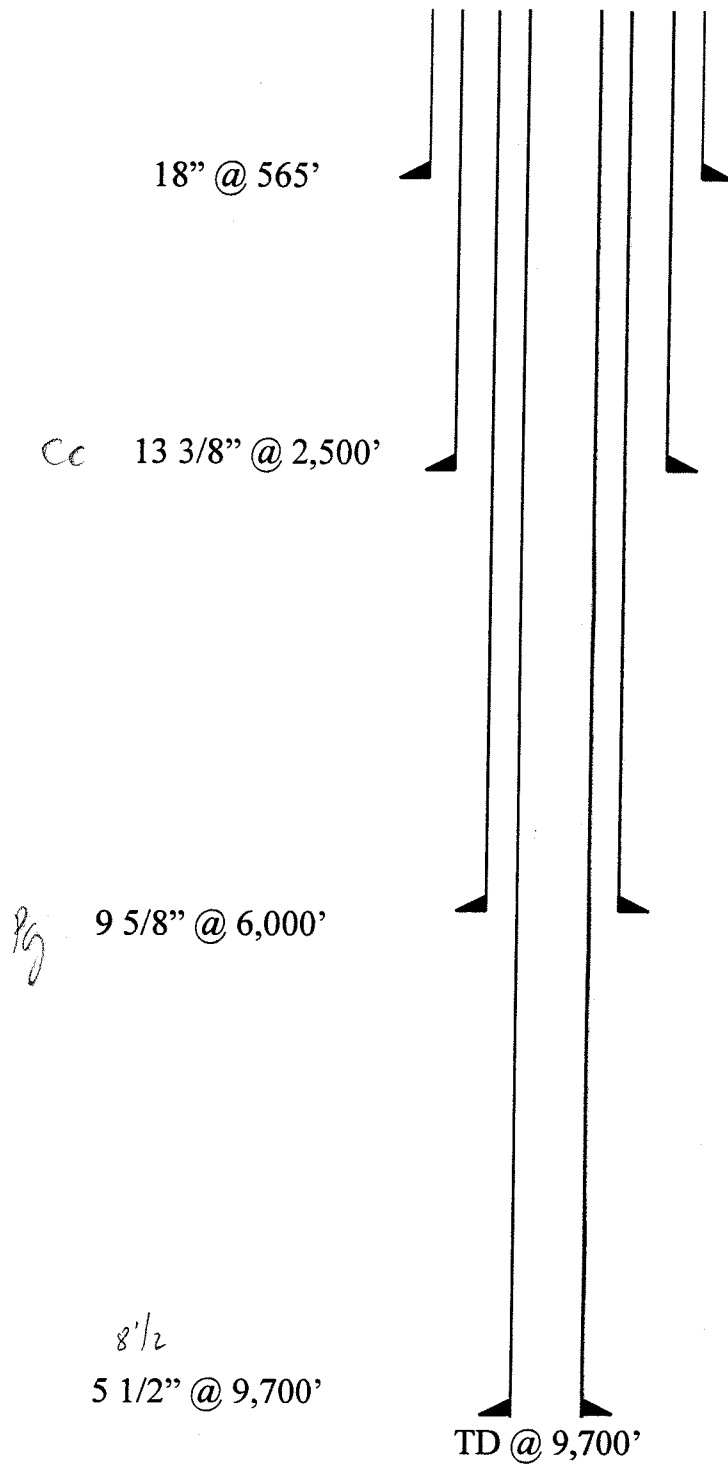
2) CASED HOLE LOGS:

- GR - CCL

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CASING DESIGN AND SETTING DEPTHS



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Drilling Curve

