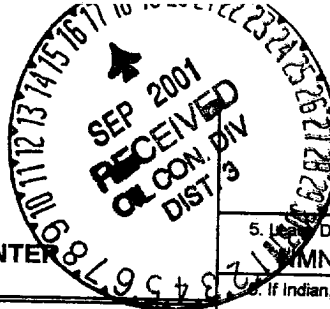


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Designation and Serial No. NMNM-99728	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Alottee or Tribe Name	
2. Name of Operator Synergy Operating, LLC (agent for Bois d' Arc Offshore, Ltd)		7. If Unit or CA, Agreement, Name and No. 28894	
3a. Address PO Box 5513 Farmington, NM 87499		8. Lease Name and Well No. Bois d' Arc Cejita Blanca 33 # 1	
3b. Phone Number (505) 325-5449		9. API Well No. 30-043-20951	
4. Location of Well (Footage, Sec, T, R., M, or Survey Description) At surface: Unit Letter M, 960' FSL, 700' FWL, Sec 33, T21N-R05W At proposed prod. Zone: Same		10. Field and Pool, or Exploratory W21N5W33M; Mesaverde	
14. Distance in miles and direction from nearest town or post office* 11 Miles West of Johnson Trading Post		11. Sec., T., R., M., or Blk. and Survey or Area M Sec 33, T-21-N, R-05-W	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. Unit line, if any) 960 Feet from South Line		12. County or Parish, Sandoval	
16. No of Acres in lease 1280 Acres		13. State New Mexico	
17. Spacing Unit dedicated to this well 160 Acres SW		20. BLM/BIA Bond No. on file NM-2559	
18. Distance from proposed* location to nearest property or lease line, ft. 700 Feet from West Line		21. Elevation (Show whether DF, KDB, RT, GL, etc.) 6850' Ground Level	
19. Proposed Depth 3160'		22. Approximate date work will start* November 1, 2001	
23. Estimated duration 60 days			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A Surface Use Plan (If the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer

Size of Hole	Grade, Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	8-5/8" K-55	24 #	150'	210 sxs, 245 ft3
7-7/8"	5-1/2" K-55	15.5#	3160'	570 sxs, 1410 ft3

SEE ATTACHED APD INFORMATION

Latitude: 36 deg, 00 min, 06 sec N
Longitude: 107 deg, 22 min, 30 sec W

25. Signature 	Name(Printed/Typed) Thomas E. Mullins	Date 8-3-2001
Title Engineering Manager		
Approved by (Signature) /s/ David R. Sitzler	Name(Printed/Typed)	Date SEP 14 2001
Title Acting Asst. Field Mgr.	Office	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

2024

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DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-043-20951	Pool Code 97131	Pool Name WC 21N 5W 33M; Mesaville
Property Code 28894	Property Name CEJITA BLANCA 33	Well Number 1
OGRID No. 163458	Operator Name BOIS d' ARC Offshore, Inc.	Elevation 6850

¹⁰ Surface Location

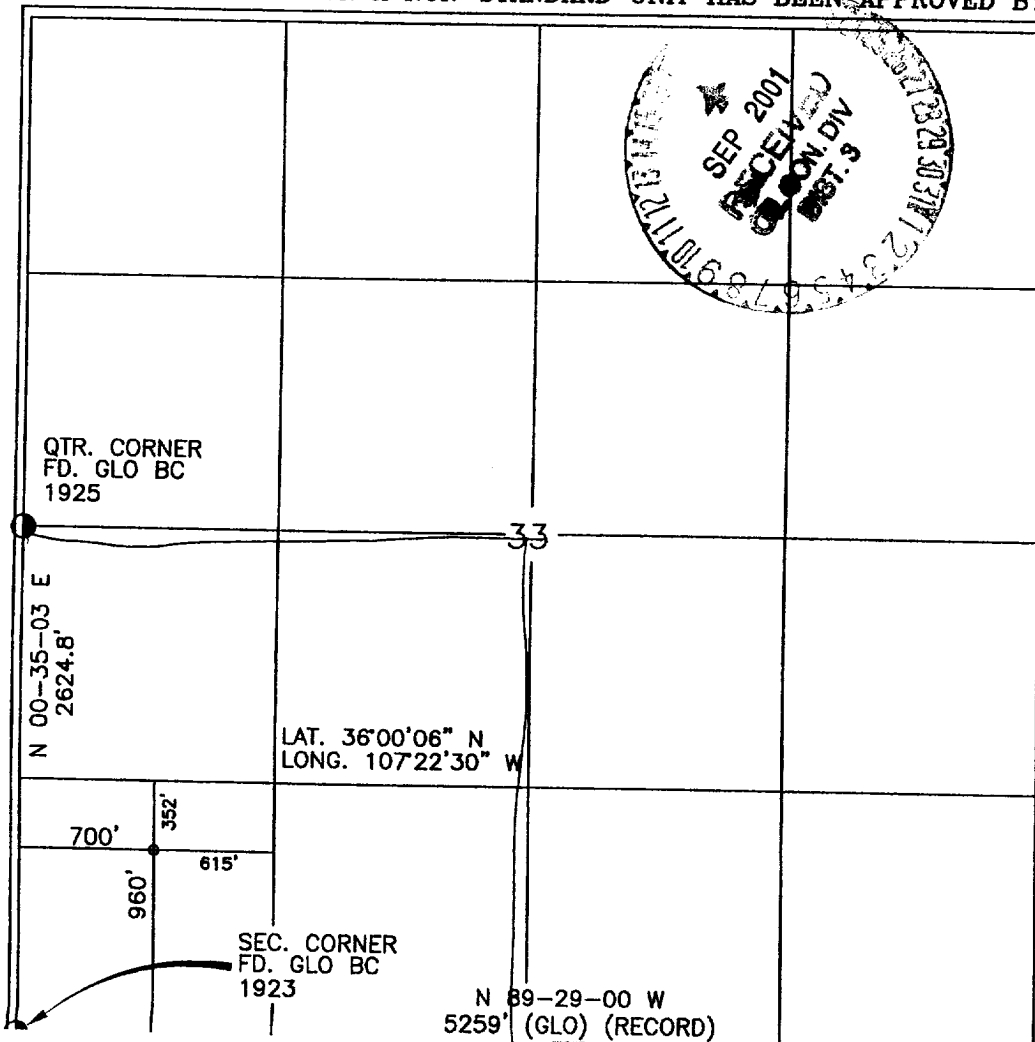
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	21-N	5-W		960	SOUTH	700	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres			Joint or Infill		Consolidation Code		Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature
THOMAS E. MULLINS
Printed Name
ENGINEERING MANAGER
Title
8-3-2001
Date

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

Date of Survey
6-18-94
Signature and Seal of Professional Surveyor
ROY A. RUSH
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
8894
Certificate Number

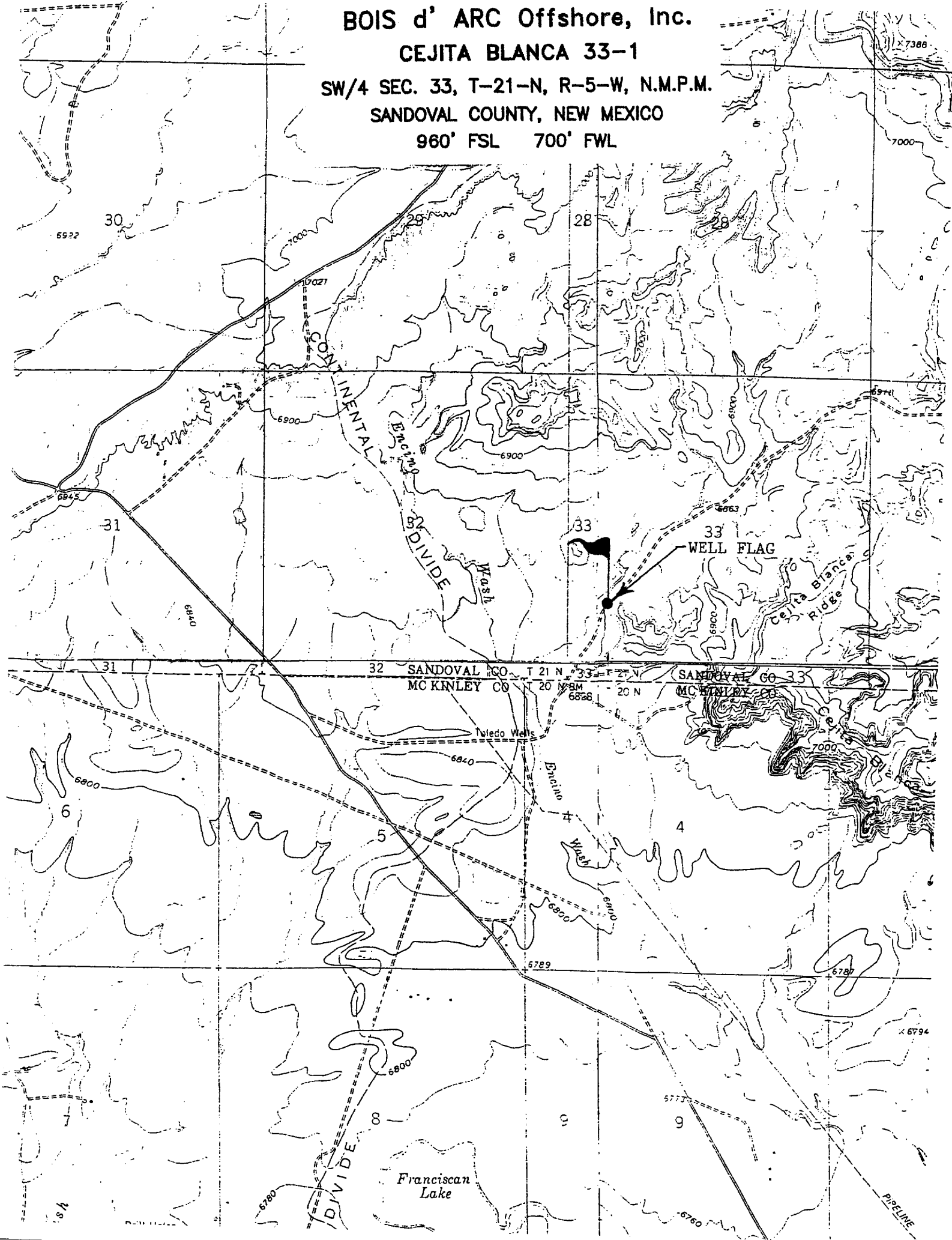
BOIS d' ARC Offshore, Inc.

CEJITA BLANCA 33-1

SW/4 SEC. 33, T-21-N, R-5-W, N.M.P.M.

SANDOVAL COUNTY, NEW MEXICO

960' FSL 700' FWL



WELL NAME: Bois d' Arc Cejita Blanca 33 # 1

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit M, 960' FSL & 700' FWL
Section 33, T21N, R05W

2. Unprepared Ground Elevation: @ 6850'

3. The geological name of the surface formation is Nacimiento

4. Type of drilling tools will be Rotary

5. Proposed drilling depth is 3160'

6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento -</u>	<u>Chacra -</u>	<u>1210'</u>
<u>Ojo Alamo -</u>	<u>La Ventana (Cliffhouse) -</u>	<u>1500'</u>
<u>Kirtland - 520'</u>	<u>Meneffe -</u>	<u>2160'</u>
<u>Fruitland Coal- 790'</u>	<u>Pt. Lookout -</u>	<u>3120'</u>
<u>Pictured Cliffs - 800'</u>	<u>T. D. -</u>	<u>3160'</u>
<u>Lewis Shale - 1040'</u>		

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Oil and Gas Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Meneffe 2160'	Pictured Cliffs 800'	Fruitland 790'
Pt. Lookout 3120'	Cliffhouse 1500'	Meneffe 2160'

8. The proposed casing program is as follows:

Surface String: 8-5/8", 24#, J/K-55 @ 150' *
Production String: 5-1/2", 15.5# J/K-55 @ 3160' (see details below)

* The surface casing will be set at a minimum of 150', but could be set deeper if required to maintain hole stability.

14.

15.6 ppg) with 3 percent CaCl in mix water and ¼# sack celloflake. Volume is based upon 200% excess. A wooden wiper plug will be displaced within 20' of the shoe. This casing string will be cemented to surface.

Production String: Lead Cement: 463 sxs Class A cement. Cement to surface - 150% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx LCM-1 + 8% bwoc Bentonite + 3% bwoc Potassium Chloride mixed at 12.2 ppg. (2.48 cf/sx yield = 1,381 cf)

Tail: 150 sxs Premium Lite High Strength FM + 0.25#/sx Cello-flake + 3% Potassium Chloride + 0.3% bwoc CD-32 + 0.7% bwoc Fl-52 mixed at 12.5 ppg. (2.02 cf/sx yield = 303 cf)

A Guide Shoe, and autofill float collar will be run 20' off of bottom.

Note: Synergy continues to work to improve the cement slurries on our wells. Any modifications to cement will be of equivalent total volume, but would have better mechanical properties than the cement we are currently using.

Centralizer Program:

Surface: Total four (4) minimum - 10' above shoe and top of 2nd, 3rd, & 4th jts. If 20' surface casing joints are used, then ten (10) centralizers will be run, one at each collar.

Production: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, & 10th jts. a cement basket will be run above the Pictured Cliffs, with turbulators above and below it.

Turbulators: Total two (2) - one at 1st jt below Pictured Cliffs and 1 jt above the turbulator.

10. A 3000# Blow-Out Preventer System will be used for this well, consisting of the following items:

- 2 Hydraulic Rams (Pipe & Blind) or Hydraulic and Annular with Blind Ram on Bottom.
- 1- Kill Line (2-inch minimum)
- 1- Kill Line Valve (2-inch minimum)
- 1 - Choke Line Valve
- 2 chokes (refer to diagram in Attachment) on Choke Manifold
- Upper kelly cock valve in open position with handle available
- Safety Valve (in open position) and subs to fit all drill strings in use (with handle available)

TL

Pressure gauged choke manifold
2 inch minimum choke line
Fill-up line above the uppermost preventer

The BOP equipment will be pressure and function tested according to Onshore Order # 2 - III.A-1 with a 30% safety factor. Please see that attached diagram.

11. Drilling Mud Prognosis:

Depth	Type	Wt./ppg.	Vis.,	Fluid Loss	pH
0'-350'	FW gel/lime spud mud	8.4 - 8.7	30-50	NC	10
350' - TD	Low solids non-dispersed	8.4 - 9.0	30-40	<20 cc's	9.5-10

Sufficient material needed to maintain mud properties, control loss circulation, and absorbent materials to contain any unforeseen pressure control situations will be maintained at the wellsite during all drilling operations. A mud logging unit w/ gas detector as well as a mud pit level indicator will be used out from under surface to TD.

12. The testing, logging, and coring programs are as follows:

D.S.T.s or cores: Rotary Full Cores are planned, depths to be determined based upon mud logger and hole conditions.

Logs: Mud logger out from under Surface to TD, Openhole Logs to include SP, Induction, Density, & Neutron. Additional logs may be run.

13. No Anticipated or abnormal pressures or temperatures should be encountered. No hydrogen sulfide is present or anticipated.

Estimated Bottomhole pressures: Pt. Lookout is - +/- 1350 psi

Surface casing and BOPE equipment will be tested to 1500 psi prior to drilling of the shoe. 3000# BOPE equipment will be utilized during production hole drilling operations.

14. The anticipated starting date is sometime in the 4th Qtr 2001 with duration of drilling operations for approximately 10 days thereafter. Completion Operations should take 10 days. Production Equipment will be installed and the well production tested based upon completion results.

