UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. **Type of Work**
DRILL

1b. **Type of Well**
GAS

2. **Operator**
BURLINGTON RESOURCES Oil & Gas Company

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499

(505) 326-9700

4. **Location of Well**
1910' FNL, 1755' FWL

Latitude 36° 31.2, Longitude 107° 19.8

5. **Lease Number**
Jic Contract 150
Unit Reporting Number

6. **If Indian, All. or Tribe**
Jicarilla Apache

7. **Unit Agreement Name**

8. **Farm or Lease Name**
Jicarilla 150

9. **Well Number**
6C

10. **Field, Pool, Wildcat**
Blanco Mesaverde

11. **Sec., Twn, Rge, Mer. (NMPM)**
Sec. 2, T-26-N, R-5-W

API # 30-039- 26703

12. **County** Rio Arriba

13. **State** NM

14. **Distance in Miles from Nearest Town**
80 miles from Bloomfield

15. **Distance from Proposed Location to Nearest Property or Lease Line**
1755'

16. **Acres in Lease**

17. **Acres Assigned to Well**
319.81 W/2

18. **Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease**
1200'

19. **Proposed Depth**
5911'

20. **Rotary or Cable Tools**
Rotary

21. **Elevations (DF, FT, GR, Etc.)**
6645' GR

22. **Approx. Date Work will Start**

23. **Proposed Casing and Cementing Program**
See Operations Plan attached

24. **Authorized by:** Peggy Cole
Regulatory/Compliance Supervisor

12-18-00
Date

RECEIVED
MAR 2001
OIL CON. DIV.
DIST. 3

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY Sid Anderson **TITLE** Asst. Field Mgr. **DATE** 3-06-01

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039- 26703	72319	Blanco Mesaverde

[4] Property Code	[5] Property Name	[6] Well Number
16344	JICARILLA 150	6C

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS, INC.	6645'–

[10] Surface Location

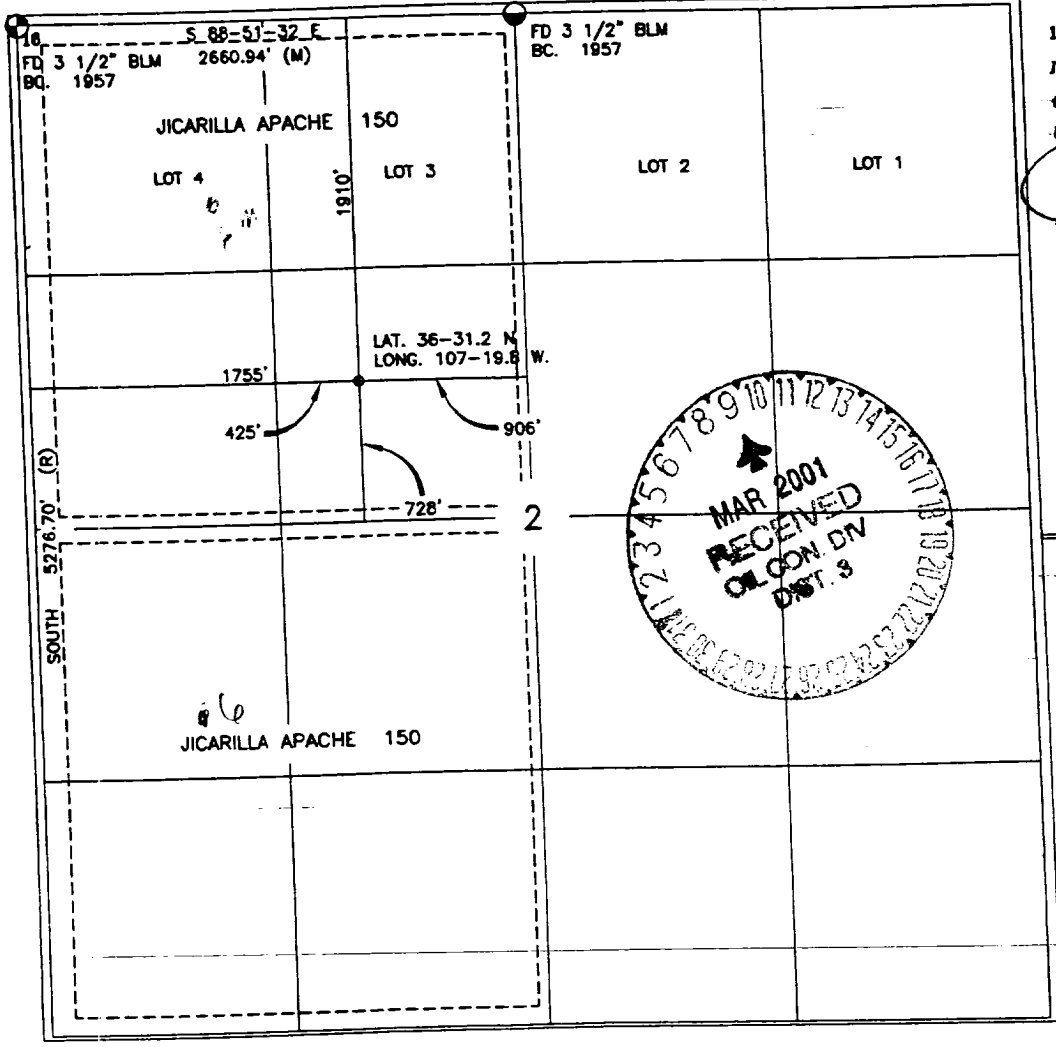
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	2	26-N	5-W		1910	NORTH	1755	WEST	RIO ARRIBA

[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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
W/319.81			

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



[17] OPERATOR CERTIFICATION

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

Signature: Peggy Cole

Peggy Cole
Printed Name

Regulatory Supervisor
Title

12-18-00
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.

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL SURVEYOR

11
Date of Survey

Signature and Seal of Professional Surveyor

8894
Certificate Number

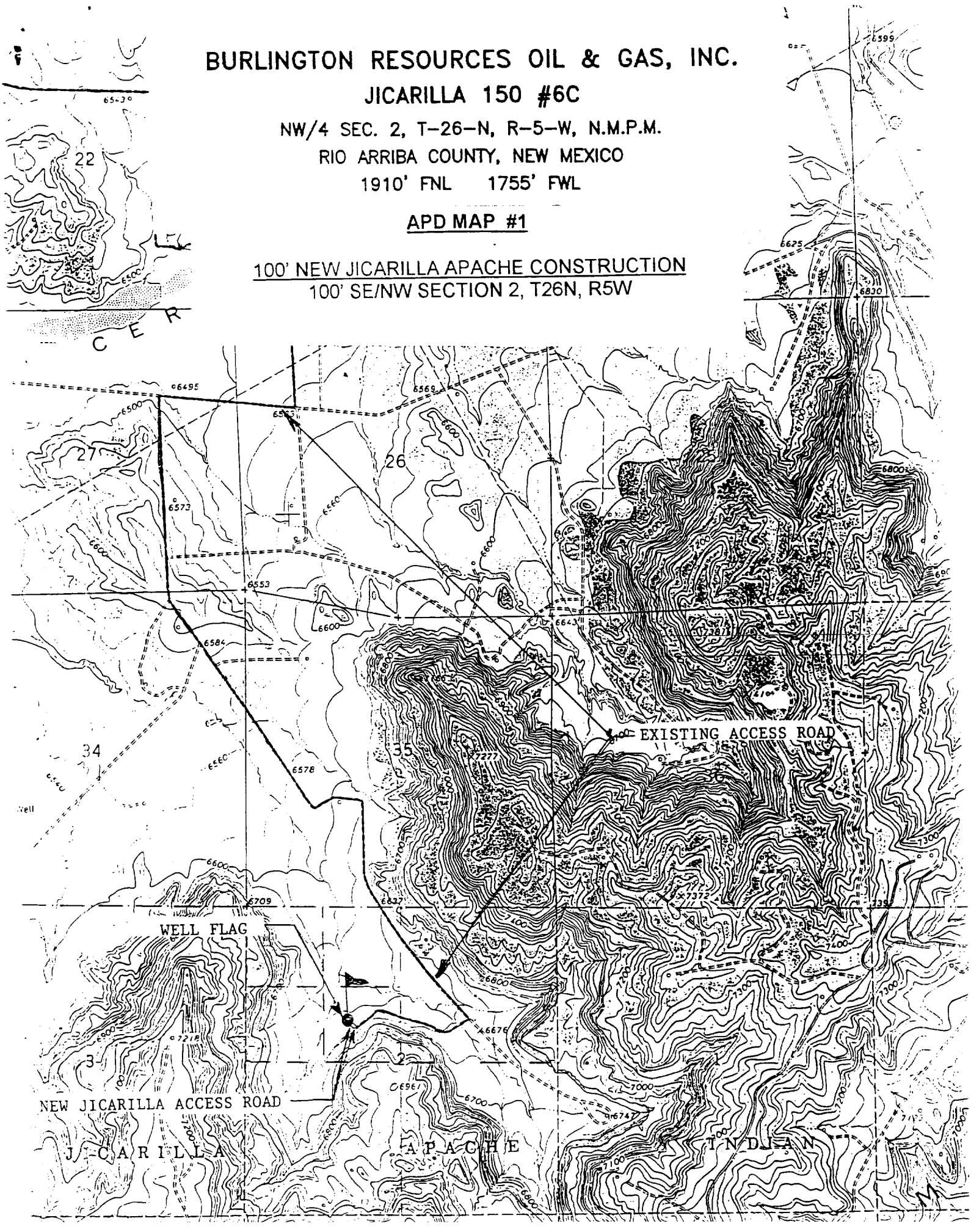
BURLINGTON RESOURCES OIL & GAS, INC.

JICARILLA 150 #6C

NW/4 SEC. 2, T-26-N, R-5-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO
1910' FNL 1755' FWL

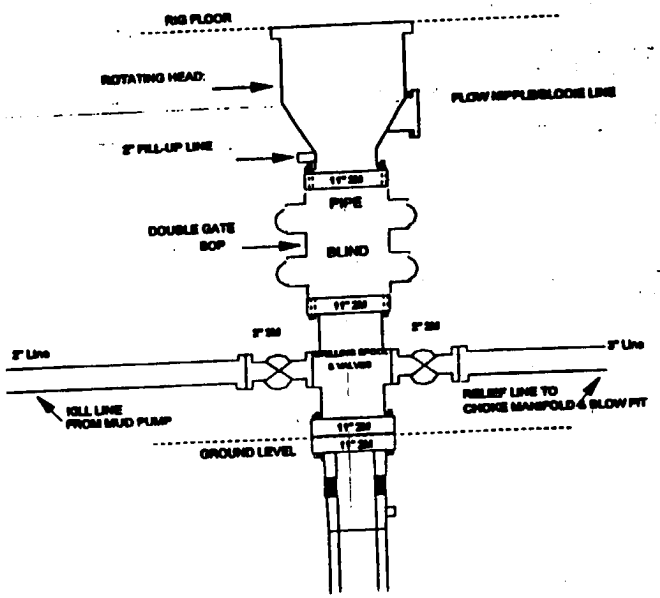
APD MAP #1

100' NEW JICARILLA APACHE CONSTRUCTION
100' SE/NW SECTION 2, T26N, R5W



Burlington Resources

Drilling Rig
2000 psi System

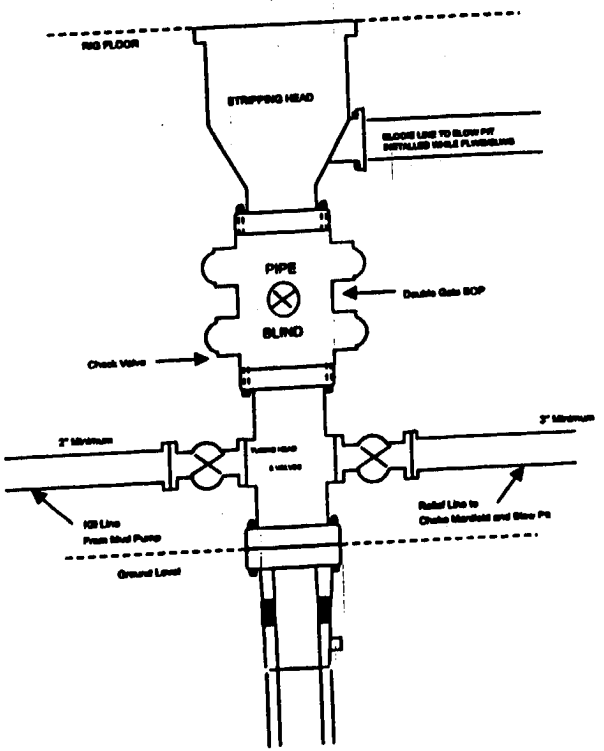


BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A rotating head on top of equipped with blind rams and pipe rams. All BOP equipment is 2,000 psi working pressure ram preventers.

Figure #1

BURLINGTON RESOURCES

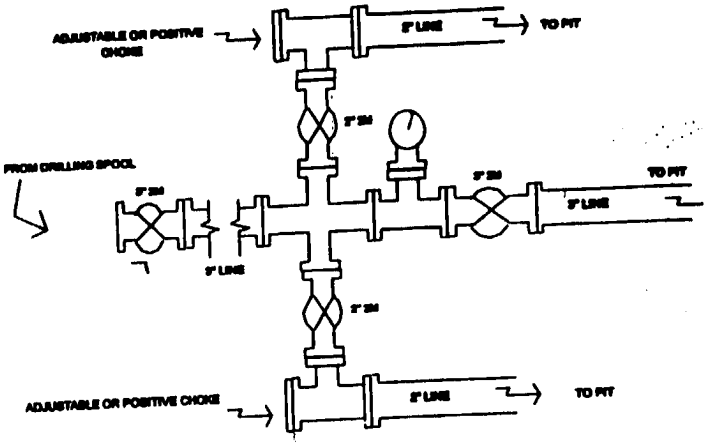
Completion/Workover Rig
BOP Configuration
2,000 psi System



Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All equipment is 2000 psi working pressure or greater.

Figure #2

Drilling Rig
Choke Manifold Configuration
2000 psi System



Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

10-5-00

OPERATIONS PLAN

Well Name: Jicarilla 150 #6C
Location: 1910'FNL, 1755'FWL, Section 2, T-26-N, R-5-W
Rio Arriba County, New Mexico
Latitude 36° 31.2, Longitude 107° 19.8
Formation: Blanco Mesa Verde
Elevation: 6645'GL

Formation Tops:	***Top***	***Bottom***	***Contents***
Surface	San Jose	2735'	H,0 Nacimiento @ 1550' - needs to be isolated (cement to surface) @ at ABV
Ojo Alamo	2735'	2957'	aquifer
Kirtland	2957'	3022'	
Fruitland	3022'	3320'	gas
Pictured Cliffs	3320'	3452'	gas
Lewis	3452'	3809'	gas
Intermediate TD	**3702'**		
Huerfanito Bentonite	3809'	4287'	gas
Chacra	4287'	4977'	gas
Massive Cliff House	4977'	5111'	gas
Menefee	5111'	5511'	gas
Point Lookout	5511'		gas
Total Depth	**5911'**		

Logging Program:
Mud Logs/Coring/DST -
Mud logs - none
Coring - none
DST - none
Cased hole - Gamma Ray, Cement bond - surface to TD

Mud Program:

Interval- MD	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3702'	LSND	8.4-9.0	30-60	no control
3702- 5911'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

Casing Program (as listed, the equivalent, or better):

Hole Size	Measured Depth	Csg Size	Weight	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3702'	7"	20.0#	J-55
6 1/4"	3602' - 5911'	4 1/2"	10.5#	J-55

Tubing Program: 0' -5911' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:
Surface to Intermediate TD -
11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -
11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -
2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -
7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -
9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -
- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:
9 5/8" surface casing - cement with 159 sx Class "H" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -
Lead w/387 sx 50/50 Class "G"/Trinity Light w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx, 0.1% antifoam and 0.25# flocele/sx (1114 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2922'. First stage: cement with 183 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Flocele, 0.1% antifoam. Second stage: 341 sx Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 1/2 pps Flocele, 10 pps Gilsonite (1114 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2957'. Two turbolating centralizers at the base of the Ojo Alamo at 2957'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -
Cement to circulate liner top. Pump 232 sx 50/50 Class "G" Poz w/1/4# flocele/sx, 4.5% gel, 0.1% retardant, 5# gilsonite/sx, 0.25% fluid loss additive (332 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.