

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.

NMNM-0013642

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

Gardner

8. Lease Name and Well No.

8A

9. API Well No.

30-045-33054

10. Field and Pool, or Exploratory

Blanco Mesaverde

11. Sec., T., R., M., or Blk. and Survey or Area

Section 31, 32N, 8W

12. County or Parish

San Juan

13. State

NM

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

☒ Single Zone

☐ Multiple Zone

2. Name of Operator

Peoples Energy Production - TX, L.P.

3a. Address

909 Fannin, Suite 1300

3b. Phone No. (include area code)

(713) 890-3651

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface 1040' FNL & 1310' FWL

At proposed prod. zone 1905' FNL & 700' FWL

14. Distance in miles and direction from nearest town or post office*

approximately 18 miles northeast of Aztec, New Mexico

15. Distance from proposed*

location to nearest

property or lease line, ft.

(Also to nearest drig. unit line, if any)

1040'

16. No. of Acres in lease

2,264.04

17. Spacing Unit dedicated to this well

271.25 N/2

18. Distance from proposed location*

to nearest well, drilling, completed,

applied for, on this lease, ft.

55'

19. Proposed Depth

6,200'

20. BLM/BIA Bond No. on file

NMB000147

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

6,660' GR

22. Approximate date work will start*

May 1, 2005

23. Estimated duration

1 month

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.

25. Signature

[Signature]

Name (Printed/Typed)

Brad Walls, Resource Production

Date

4/28/05

Title

Agent, Peoples Energy Production

Approved by (Signature)

[Signature]

Name (Printed/Typed)

Date

5-23-05

Title

AFM

Office

FFO

Application approval does not warrant or certify that 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)

Peoples Energy Production Company, LLC, proposes to drill a well to develop the Blanco Mesaverde formation at the above described location in accordance with the attached drilling and surface use plans.

The surface is under jurisdiction of the Bureau of Land Management, Farmington Field Office.

This location has been culturally cleared by FFO/BLM archaeologists.

This location is proposed to be constructed on a location containing the existing Gardner #2A and Gardner C#2A wells.

This APD is also serving as an application to obtain a pipeline right-of-way. A 46.99-foot pipeline tie would be required for this location.

HOLD C104 FOR Directional Survey

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOC

070 FARMINGTON NM

RECEIVED

2005 MAY 2 PM 2 02

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

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 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 30-045-33054		Pool Code 72319		Pool Name BLANCO - MESA VERDE (PRORATED GAS)	
Property Code 033362		Property Name GARDNER			Well Number 8A
GRID No. 225701		Operator Name PEOPLES ENERGY PRODUCTION - TX, L.P.			Elevation 6660

¹⁰ Surface Location

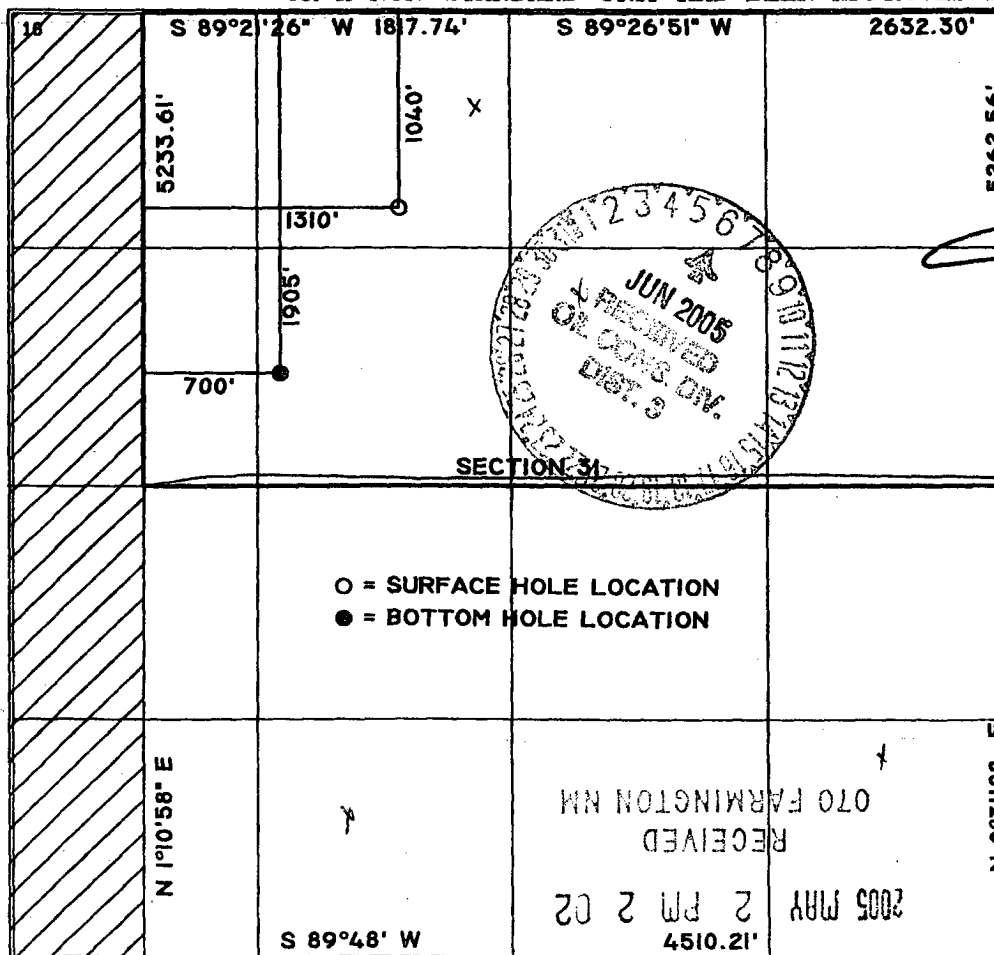
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	31	32 N	8 W		1040	NORTH	1310	WEST	SAN JUAN

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
F	31	32 N	8 W		700	WEST	1905	NORTH	SAN JUAN

Dedicated Acres 3.00/00	Joint or Infill INFILL	Consolidation Code	Order No.
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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

		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <u><i>Dianne Sumrell</i></u> Printed Name: <u>DIANNE SUMRELL</u> Title: <u>PROD & REG COORD</u> Date: <u>5/24/05</u></p>	
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey: <u>3/10/05</u> Signature and Seal of Professional Surveyor: <u><i>Robert L. Pounder</i></u> Certificate Number: <u>6846</u></p>		<p>RECEIVED MAY 2 2 02 PM 2005 4510.21'</p> <p>070 FARMINGTON NM</p>	

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease FEDERAL <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Peoples Energy Production Company		6. State Oil & Gas Lease No. Federal NMNM-0013642
3. Address of Operator 909 Fannin, Suite 1300 Houston, TX 77010		7. Lease Name or Unit Agreement Name Gardner
4. Well Location Unit Letter C: 1040 feet from the north line and 1310 feet from the west line Section 31 Township 32N Range 8W NMPM County San Juan		8. Well Number 8A
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,660' GR		9. OGRID Number 225711
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		
Pit type <u>reserve</u> Depth to Groundwater <u>>100'</u> Distance from nearest fresh water well <u>>1,000'</u> Distance from nearest surface water <u>>1,000'</u>		
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Reserve pit to be constructed in accordance with NMOCD Interim Pit and Below-grade Tank Guidelines

Existing pits are to be used on this location, approximately 50 feet north of the well head

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

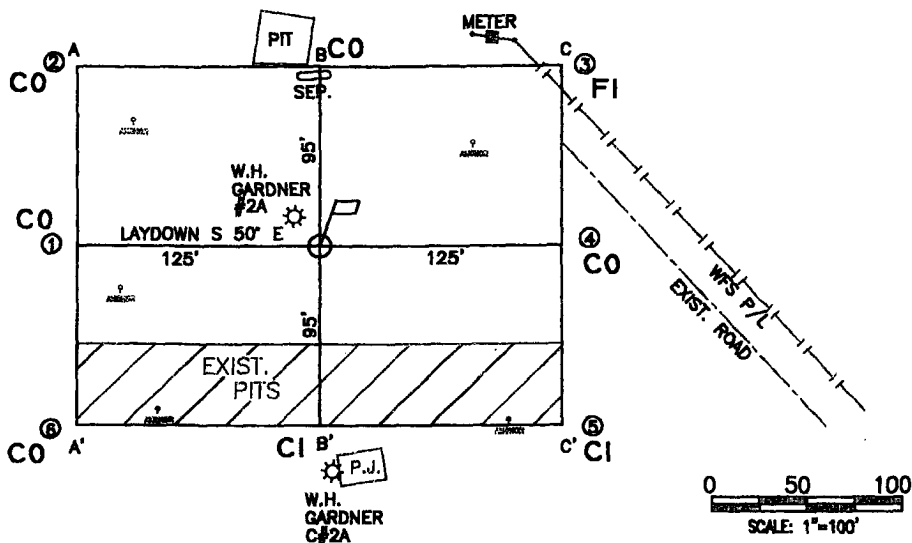
SIGNATURE Brad Walls TITLE Agent DATE 4-28-2005

Type or print name Brad Walls E-mail address: bwwalls@resourceproduction.com Telephone No. (505) 325-7927

For State Use Only

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 38 DATE MAY 27 2005
Conditions of Approval (if any):

Plat #1 Location Layout



ELEVATION A-A'

6670				
6660				
6650				
6640				
6630				

B-B'

6670				
6660				
6650				
6640				
6630				

C-C'

6670				
6660				
6650				
6640				
6630				

LEASE: GARDNER #8A

FOOTAGE: 1040' FNL, 1310' FWL

SEC. 31 TWN. 32 N RNG. 8 W N.M.P.M.

LATITUDE: 36°56'43.3" LONGITUDE: 107°43'04.8"

ELEVATION: 6660

PEOPLES ENERGY PRODUCTION
HOUSTON, TEXAS

SURVEYED: 3/10/05

REV. DATE:

APP. BY R.P.

DRAWN BY: T.G.

DATE DRAWN: 3/11/05

FILE NAME: 5252C03

UNITED
FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, NM 87489
OFFICE: (505) 334-0408

Gardner #8A ==> EXPEDITED Right-of-Way!
Sec 31-T32N-R8W, 1040' FNL & 1310' FWL
San Juan Co., New Mexico Lease NM-013 642

Drilling Program:

1. Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface	
Kirtland Shale	2,046	feet
Fruitland Coal	3,146	feet
Picture Cliff	3,506	feet
Lewis Shale	3,893	feet
Huerfanito Bentonite	4,331	feet
Cliff House	5,186	feet
Menefee	5,591	feet
Point Lookout	5,866	feet
Mancos Shale	6,116	feet
TD	6,200	feet

2. Estimated depths at which oil, gas, water and mineral bearing formation will be found:

Fresh Water	0 feet to 200 feet
Salt Water	201 feet to 3,100 feet
Oil and Gas	3,101 feet to 6,500 feet

3. Pressure Control Equipment:

- a. 10-inch 900 series or 3,000 PSI test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at **Exhibit F** for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 70% of yield of casing or 3,000 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at Exhibit F. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 3,000 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed.
Casing testing procedure - Surface casing will be tested at 750 psi with 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 3,000 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.

Gardner #8A ==> EXPEDITED Right-of-Way!
Sec 31-T32N-R8W, 1040' FNL & 1310' FWL
San Juan Co., New Mexico Lease NM-013 642

- e. BOP testing procedures and frequency:
 - 1. Hydrill (3,000 WP) will be tested to 70% of yield of casing or 3,000 psi maximum.
 - 2. Double ram BOPs will be tested to 70% of yield of casing or 3,000 psi Maximum.
 - 3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will usually be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head,
- g. The drilling spool will be a series 900 3,000 psi WP with a 2-inch kill line and a 2-inch outlet.

4. Proposed Casing Program:

Surface Casing	9 5/8 inch	36.0#	J-55	STC	New
Intermediate	7 inch	23.0#	J-55	STC	New
Production Casing	4 1/2 inch	10.5#	J-55	STC	New

Proposed setting depth, amount and type of cement including additives:

9-5/8 inch Surface Casing - Surface to 200 feet - Cement with 120 sx Class G + 2% S001 + 0.25 pps D29 (15.8 lb/gal; 1.18 cf/sk; 5.22 gal/sk) Volume: 150 scf. 100% Excess.

7 inch Intermediate Casing - Surface to 3695' MD feet Lead cement of 320 sx Class G + 3% D79 + 0.25 pps D29 + 0.2% D46 (11.7# lb/gal; 2.61 cf/sk; 15.75 gal/sk), Tail cement of 100 sx 50/50 Poz Class G + 2% D20 + 0.25 pps D29 + 5 pps D24 + 0.15% D65 + 2% S1 + 0.2% D46 (13.5# lb/gal; 1.28 cf/sk; 5.23 gal/sk).

4-1/2 inch Production Casing - Surface to 6618' MD. Lead with 240 sx 35/65 Poz Class G + 0.25 pps D29 + 5 pps D24 + 0.5% D112 + 0.15% D65 + 6% D20 + 0.1% D46 (12.7# lb/gal; 1.71 cf/sk; 8.36 gal/sk). Tail with 335 sx 50/50 Poz Class G + 2.5% D20 + 0.25 pps D29 + 5 pps D24 + 0.1% D65 + 0.3% D167 + 0.1% D800 + 0.1% D46 (13.5# lb/gal; 1.27 cf/sk; 5.23 gal/sk).

5. Directional Program:

See Attached Directional Profile

6. Mud Program:

- 0 feet - 200 feet - Spud mud and water treated with gel lime.
- 200 feet - 3695 feet - Lime mud, water and polymer.
- 3695 feet - 6,500 TVD feet - air, produced or fresh water, soap and polymer

7. Testing, Logging and Coring Program:

No drill stem tests or cores will be taken.

- Logging:
- Intermediate Casing - CBL Log will only be ran if cement doesn't circulate to surface.
 - Production Casing - First Run - Gamma Ray - Casing Collar Locator - Cement Bond Log.
 - Second Run - Gamma Ray - Gas Spectrum Log; or Gamma Ray-DEL, Density Neutron Porosity Caliper

Gardner #8A ==> EXPEDITED Right-of-Way!
Sec 31-T32N-R8W, 1040' FNL & 1310' FWL
San Juan Co., New Mexico Lease NM-013 642

8. Expected Pressures -

Fruitland Fm.- 600 - 700 psia
Pictured Cliffs Fm.- 800 - 1000 psia
Mesaverde Fm.- 800 - 1000 psia
Bottom Hole 800 - 1000 psia

No abnormal pressures, temperature or poisonous gases anticipated.

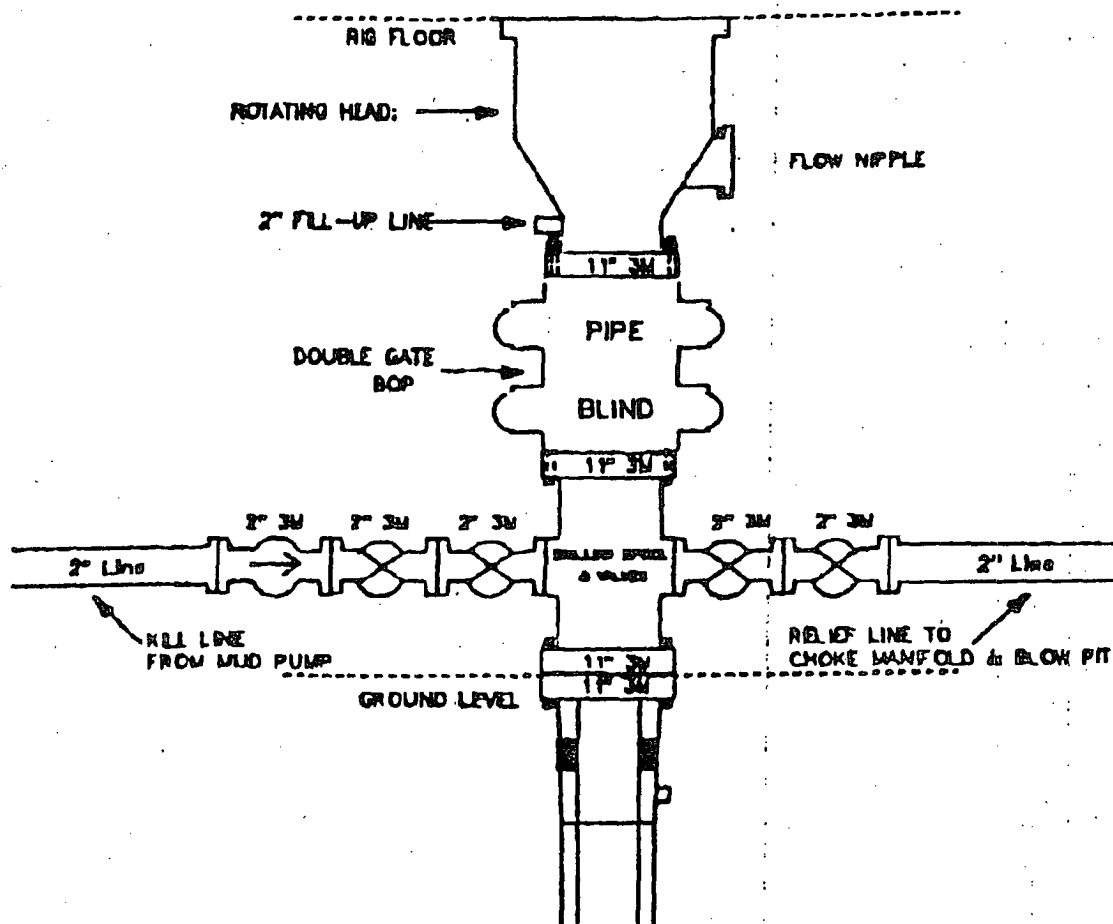
9. Drilling Tools: 20 4-3/4 inch Drill Collars with 3-1/2 inch IF Connections 3-1/2 inch Drill Pipe with 3-1/2 IF Connections

Anticipated Spud Date: May 15, 2005

Anticipated Completion Date: June 1, 2005

Key **FOUR CORNERS**
P. O. BOX 1067
8681 U.S. HWY. 94
FARMINGTON, NEW MEXICO 87408
•
TELEPHONE: (808) 326-3371
FAX: (808) 326-3370

Drilling Rig 3000 psi System



11" Bore (10" Nominal), 3000psi working pressure minimum double gate BOP to be equipped with blind and pipe rams. A rotating head on the top of the rams. All BOP equipment is 3000psi working pressure.

Note: A floor safety valve and upper kelly cock with handle will be available.

Exhibit "F-1"