

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

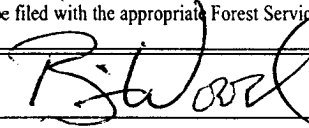
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>NMNM-003153</b>
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, Allottee or Tribe Name <b>N/A</b>
2. Name of Operator <b>XTO ENERGY INC</b>		7. If Unit or CA Agreement, Name and No. <b>N/A</b>
3a. Address <b>2700 FARMINGTON AVE., BLDG. K-1 FARMINGTON, NM 87401</b>		8. Lease Name and Well No. <b>O H RANDEL 13 S</b>
3b. Phone No. (include area code) <b>(505) 324-1090</b>		9. API Well No. <b>30-045- 32910</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>1510 FNL &amp; 1620 FWL</b> At proposed prod. zone <b>SAME</b>		10. Field and Pool, or Exploratory <b>BASIN FRUITLAND COAL</b>
14. Distance in miles and direction from nearest town or post office* <b>15 AIR MILES SSW OF BLOOMFIELD</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>F 9-26N-11W NMPM</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1,510'</b>	16. No. of acres in lease <b>1,920</b>	17. Spacing Unit dedicated to this well <b>N2</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>107' (XTO's OHR #8)</b>	19. Proposed Depth <b>2,100'</b>	20. BLM/BIA Bond No. on file <b>BLM NATIONWIDE 57 91 73</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6,342' GL</b>	22. Approximate date work will start* <b>08/07/2005</b>	23. Estimated duration <b>2 WEEKS</b>
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) <b>BRIAN WOOD</b>	Date <b>02/18/2005</b>
Title <b>CONSULTANT</b>		
PHONE: (505) 466-8120 FAX: (505) 466-9682		
Approved by (Signature) <b>Original Signed: Stephen Mason</b>	Name (Printed/Typed)	Date <b>JUN 05 2006</b>
Title <b>Office</b>		

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 page 2)



NMOCD

RECEIVED  
FARMINGTON NM  
FEB 23 AM 10 36

DISTRICT I  
1626 N. French Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

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

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

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

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

2005 FEB 23 PM 10 36  
RECEIVED  
070 FARMINGSTEAD

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-32910		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 22857	*Property Name O H RANDEL		*Well Number 13S
*OGRID No. 167067	*Operator Name XTO ENERGY INC.		*Elevation 6342'

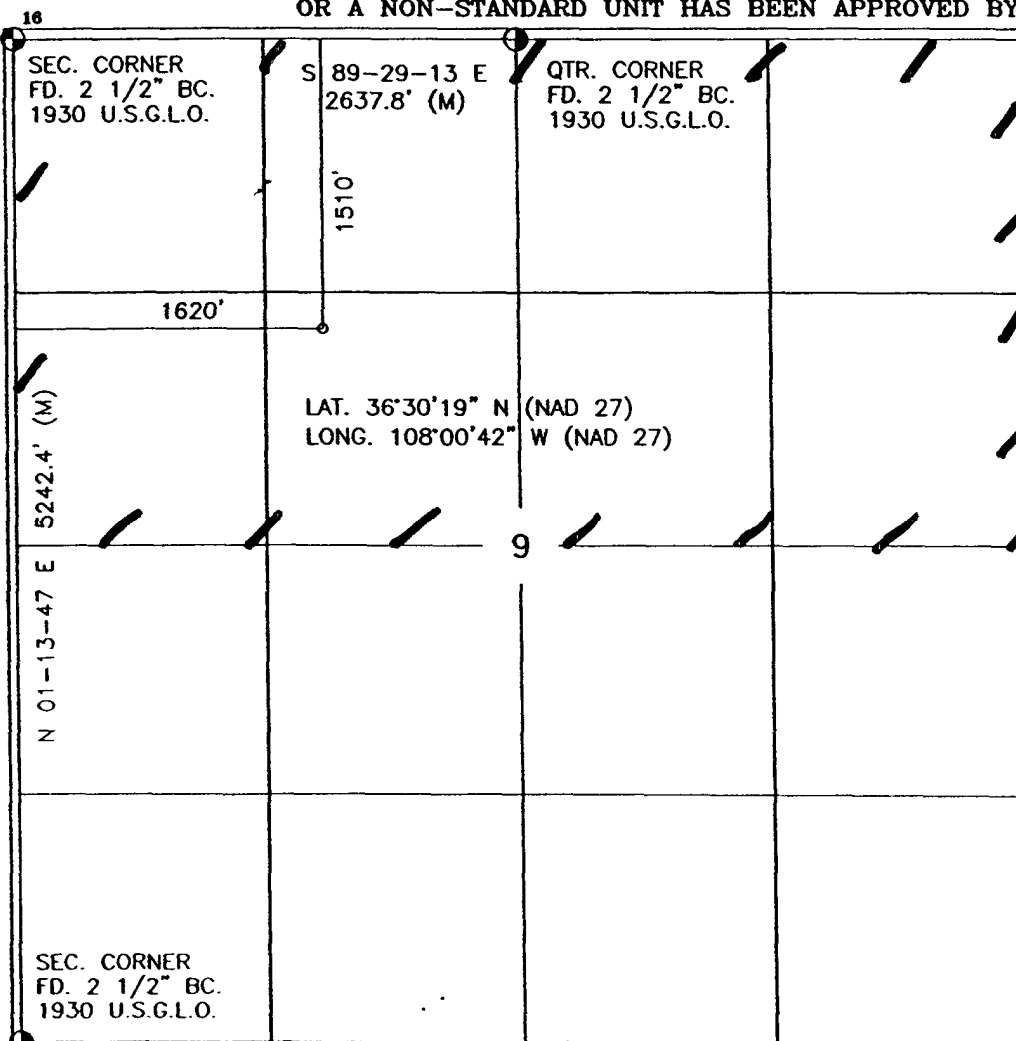
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F -	9	26-N	11-W	-	1510	NORTH	1620	WEST	SAN JUAN

<sup>11</sup> 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 320			*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



17 OPERATOR CERTIFICATION

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

Signature

Printed Name

Title

Date

BRIAN WOOD

CONSULTANT

FEB. 18, 2005

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.

Date of Survey

Signature and Seal of Professional Surveyor

14831

Certificate Number

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

WELL API NO.	30-045-32910
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. NMNM-003153	
7. Lease Name or Unit Agreement Name O H RANDEL	
8. Well Number	14
9. OGRID Number	167067
10. Pool name or Wildcat BASIN FRUITLAND COAL GAS	

Pit or Below-grade Tank Application ☒ or Closure ☐  
Pit type DRILLING Depth to Groundwater: 250' Distance from nearest fresh water well >1000' Distance from nearest surface water ~500'  
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume          bbls Construction Material         

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.)

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

2. Name of Operator XTO ENERGY INC.

3. Address of Operator 2700 FARMINGTON AVE., BLDG. K-1,  
FARMINGTON, NM 87401

4. Well Location  
Unit Letter F 1510 feet from the NORTH line and 1620 feet from the WEST line  
Section 9 Township 26N Range 11W NMPM County SAN JUAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
6,342' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: DRILLING PIT ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

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.

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 & closed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Brian Wood TITLE CONSULTANT DATE 2-18-05

Type or print name BRIAN WOOD

E-mail address: brian@permitswest.com Telephone No. (505) 466-8120

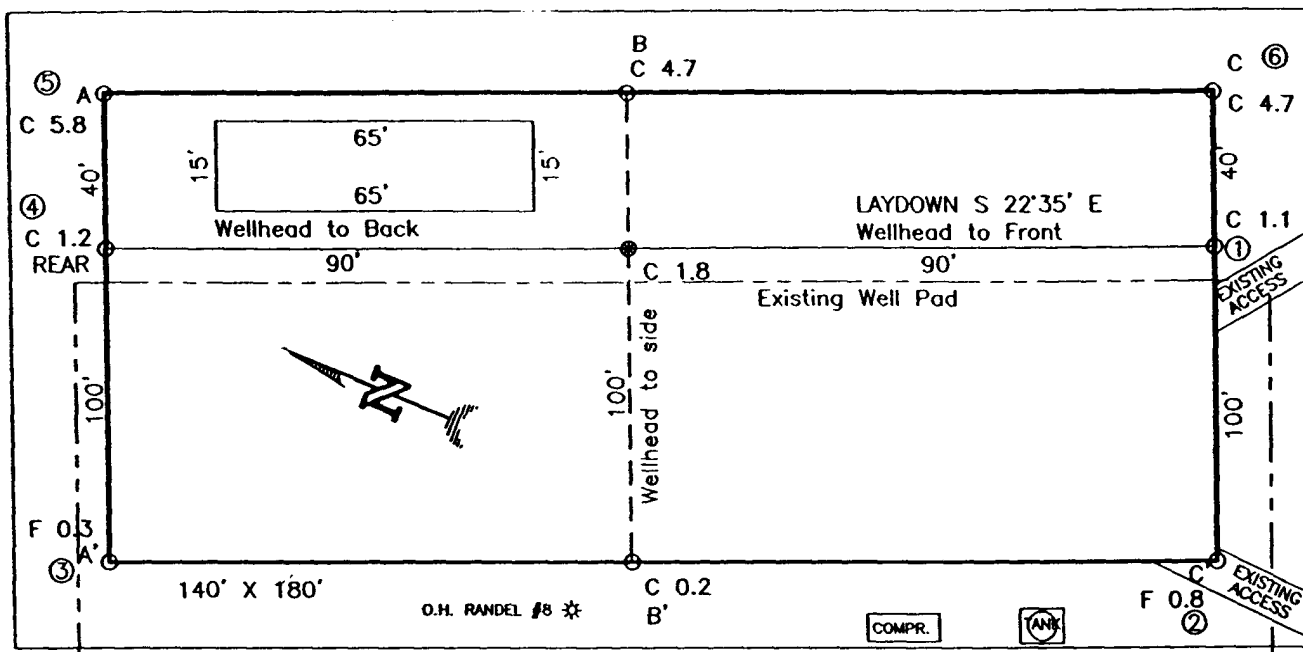
For State Use Only

APPROVED BY: [Signature] TITLE: DEPUTY OIL & GAS INSPECTOR, DIST. 1 DATE: JUN 12 2006

Conditions of Approval (if any):

GROUND ELEVATION: 6342',      DATE: JUNE 24, 2004

LAT. = 36°30'19" N.  
LONG. = 108°00'42" W  
NAD 27




DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

ELEV.	A-A'	C/L	ONE CASE TO BE NOTIFIED FOR EXCAVATION OR CONSTRUCTION
6360			
6350			
6340			
6330			

ELEV. B-B'	C/L				
6360					
6350					
6340					
6330					

ELEV. C-C'	C/L			
6360				
6350				
6340				
6330				

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION:	DATE:	REVISED BY:
 <p><b>Daggett Enterprises, Inc.</b>          Surveying and Oil Field Services          P. O. Box 15088 • Farmington, NM 87401          Phone (505) 326-1772 • Fax (505) 326-4019          NEW MEXICO P.L.S. No. 14831</p>		
Drawn by: B.L.	CADD: CR133C/F8	
Work: CR133	DATE: 8/02/04	

XTO Energy Inc.  
O H Randel 13 S  
1510' FNL & 1620' FWL  
Sec. 9, T. 26 N., R. 11 W.  
San Juan County, New Mexico

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## Drilling Program

### 1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	000'	5'	+6,342'
Ojo Alamo	652'	657'	+5,690'
Kirtland Shale	852'	857'	+5,490'
Fruitland	1,477'	1,482'	+4,865'
Pictured Cliffs	1,692'	1,697'	+4,650'
Lewis Shale	2,037'	2,042'	+4,305'
Total Depth (TD)*	2,100'	2,105'	+4,242'

### 2. NOTABLE ZONES

<u>Gas &amp; Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP system to be used is not yet known. A typical 2,000 psi stack, manifold, and testing procedures are on Page 3.

XTO Energy Inc.  
O H Randel 13 S  
1510' FNL & 1620' FWL  
Sec. 9, T. 26 N., R. 11 W.  
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#### 4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>Connection</u>	<u>Setting Depth</u>
8-3/4"	7"	20	K-55	New	S T & C	160'
6-1/4"	4-1/2"	10.5	K-55	New	S T & C	2,100'

Surface casing will be cemented to the surface with  $\approx 50$  cubic feet ( $\approx 43$  sacks) Class B + 1/4 lb/sk cello-flake + 2% CaCl<sub>2</sub>. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume:  $\geq 100\%$  excess. A guide shoe and insert float will be used. W. O. C. = 12 hours. Surface casing will be tested to 1,500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement:  $>437$  cubic feet. Volumes are calculated at  $>100\%$  excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. W. O. C. = 12 hours. Test to 2,000 psi.

Lead cement will be  $\approx 185$  sacks Class B light cement (65% cement/35% Poz with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cu ft/sk. Weight = 12.4 #/gal.

Tail cement will be  $\approx 50$  sacks 50/50 Class B Poz with 2% gel + 1/4#/sack Flocele + 0.5% Halad 9. Yield = 1.38 cubic feet/sack. Weight = 13.5 #/gallon.

Cement equipment will include a guide shoe, float collar, and 10 centralizers.

#### 5. MUD PROGRAM

<u>Range</u>	<u>Mud Type</u>	<u>Weight</u>
0' - 160'	Fresh-Spud	8.4
160' - TD	LSND	8.6

Lost circulation and absorption material will be on location.

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O H Randel 13 S  
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San Juan County, New Mexico

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#### 6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, and Induction. The Neutron Density will be run from TD to 500'. The other logs will be run from TD to the base of the surface casing.

#### 7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be  $\approx 200$  psi.

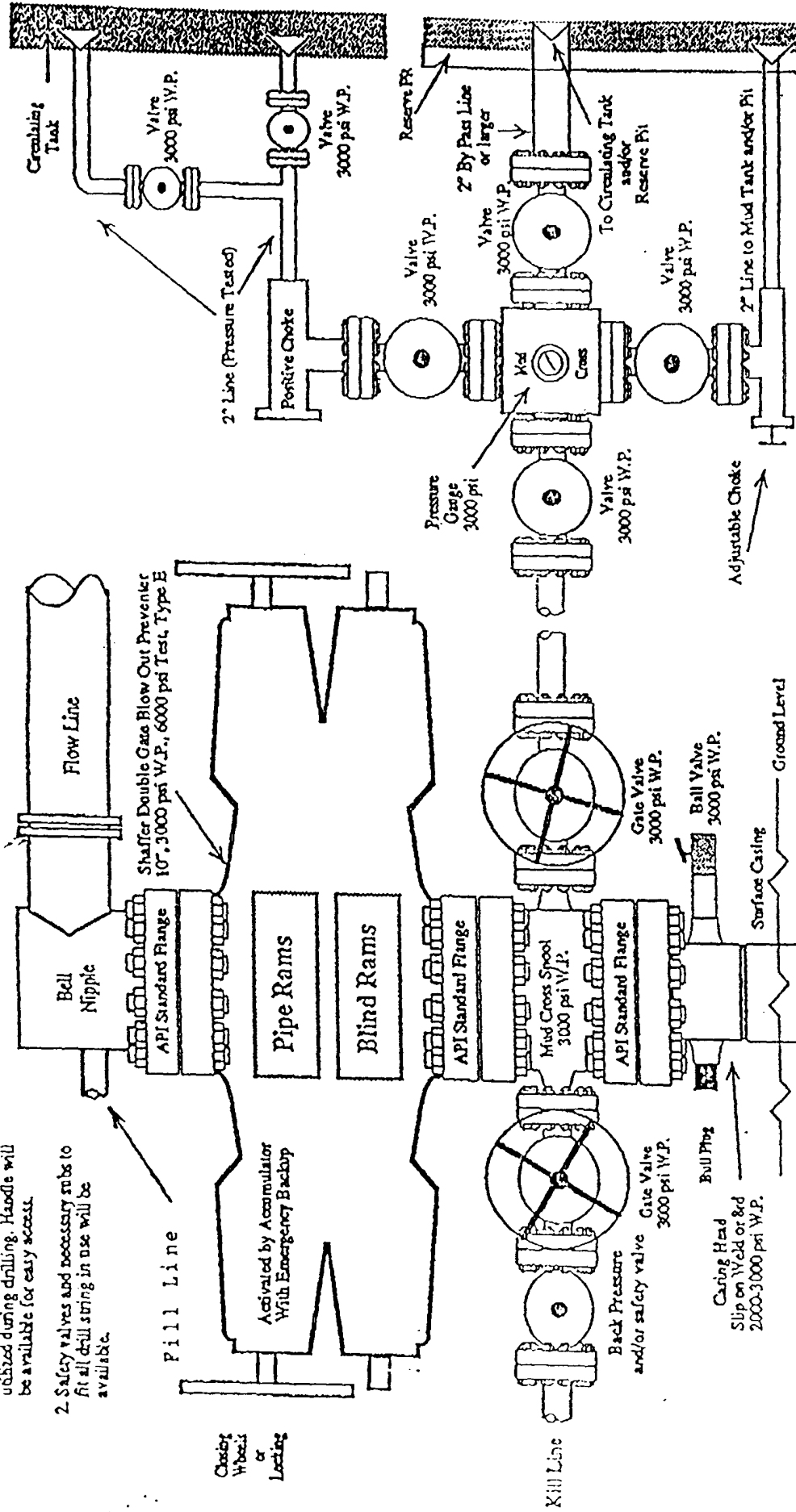
#### 8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take about 1 week to drill and about 1 week to complete the well.

# Pressure Control Equipment

Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.