

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2007 FEB 27

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED
BLM

AM 11:00
BIA CONTRACT 13
If Indian, Allottee or Tribe Name
JICARILLA APACHE NATION

RCVD MAY 27 '11
OIL CONS. DIV.
DIST. 3

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		210 PARTING FOR NM	
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		8. Lease Name and Well No. JICARILLA 13 PC #3	
2. Name of Operator ELM RIDGE EXPLORATION COMPANY, LLC		9. API Well No. 30-039- 30210	
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413	3b. Phone No. (include area code) (505) 632-3476	10. Field and Pool, or Exploratory BALLARD PICTURED CLIFFS	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 740' FNL & 1340' FWL At proposed prod. zone SAME		11. Sec., T. R. M. or Blk. and Survey or Area C 26-24N-5W NMPM	
14. Distance in miles and direction from nearest town or post office* 7 AIR MILES NE OF COUNSELOR, NM		12. County or Parish RIO ARRIBA	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 3,380'	16. No. of acres in lease 1,920	17. Spacing Unit dedicated to this well NW4 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,639'	19. Proposed Depth 2,600'	20. BLM/BIA Bond No. on file BIA NATION WIDE 886441C	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,661' GL	22. Approximate date work will start* 06/25/2007	23. Estimated duration 3 WEEKS	

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) BRIAN WOOD	Date 02/23/2007
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Title CONSULTANT	PHONE: (505) 466-8120	FAX: (505) 466-9682
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Approved by (Signature) 	Name (Printed/Typed)	Date 5/24/11
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Title AFM	Office FFO
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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)

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

JUN 10 2011
A
NMOCD

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

2007 FEB 27 AM 11:09

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30210	² Pool Code 71439	³ Pool Name BALLARD PICTURED CLIFFS
⁴ Property Code 38443	⁵ Property Name JICARILLA 13 PC	⁶ Well Number 3
⁷ GRID No. 149052	⁸ Operator Name ELM RIDGE EXPLORATION	⁹ Elevation 6661

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	26	24 N	5 W		740	NORTH	1340	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 1.60	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶ S 87°34'57" E 740' 1340' 5254.96' SECTION 26 N 0°32'32" W N 86°58'32" W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <u>Brian Wood</u> Printed Name <u>BRIAN WOOD</u> Title <u>CONSULTANT</u> Date <u>FEB. 23, 2007</u>
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. 10/3/05 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	<u>6846</u> S 0°27'06" E 5172.67'

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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>
San Jose	0'	5'	+6,661'
Ojo Alamo	1,861'	1,866'	+4,800'
Kirtland	2,011'	2,016'	+4,650'
Fruitland	2,186'	2,191'	+4,475'
Pictured Cliffs	2,306'	2,311'	+4,355'
Lewis Shale	2,451'	2,456'	+4,210'
Total Depth (TD)	2,600'	2,605'	+4,061'

2. NOTABLE ZONES

<u>Oil & Gas Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	San Jose	Fruitland
Pictured Cliffs	Ojo Alamo	

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded. Thus, the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) BOP and choke manifold system will be installed and tested to \approx 500 psi before drilling the surface casing plug. It will remain in use until the well is completed or

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abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth</u>
12-1/4"	8-5/8"	24#	J-55 or K-55	S T & C	New	250'
7-7/8"	5-1/2"	10.5#	J-55	L T & C	New	2,600'

Surface casing will be cemented to the surface with ≈ 206 cubic feet (≈ 175 sacks) Class B with 1/4#/sk cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

Production casing will be cemented to the surface with ≈ 800 cubic feet (≈ 678 sacks) Class B with 1/4#/sk cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 75% excess. About six or seven centralizers will be used.

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5. MUD PROGRAM

A nine pound polymer and fresh water mud system with a viscosity of ≈ 35 will be used. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR log may be run from TD to surface. CNL/FSC log may be run over certain intervals.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be $\leq 1,040$ psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take ≈ 1 week to drill and ≈ 2 weeks to complete the well.

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Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See PAGES 10 - 12)

From the junction of US 550 and NM-537 ...

Go North 11.4 miles on NM-537

Then turn left and go Southwest 4.4 miles on J-7 to a steel "Keep Right" sign

Then turn left and go South cross country 700' to the well site

Roads will be maintained to at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED (See PAGE 11)

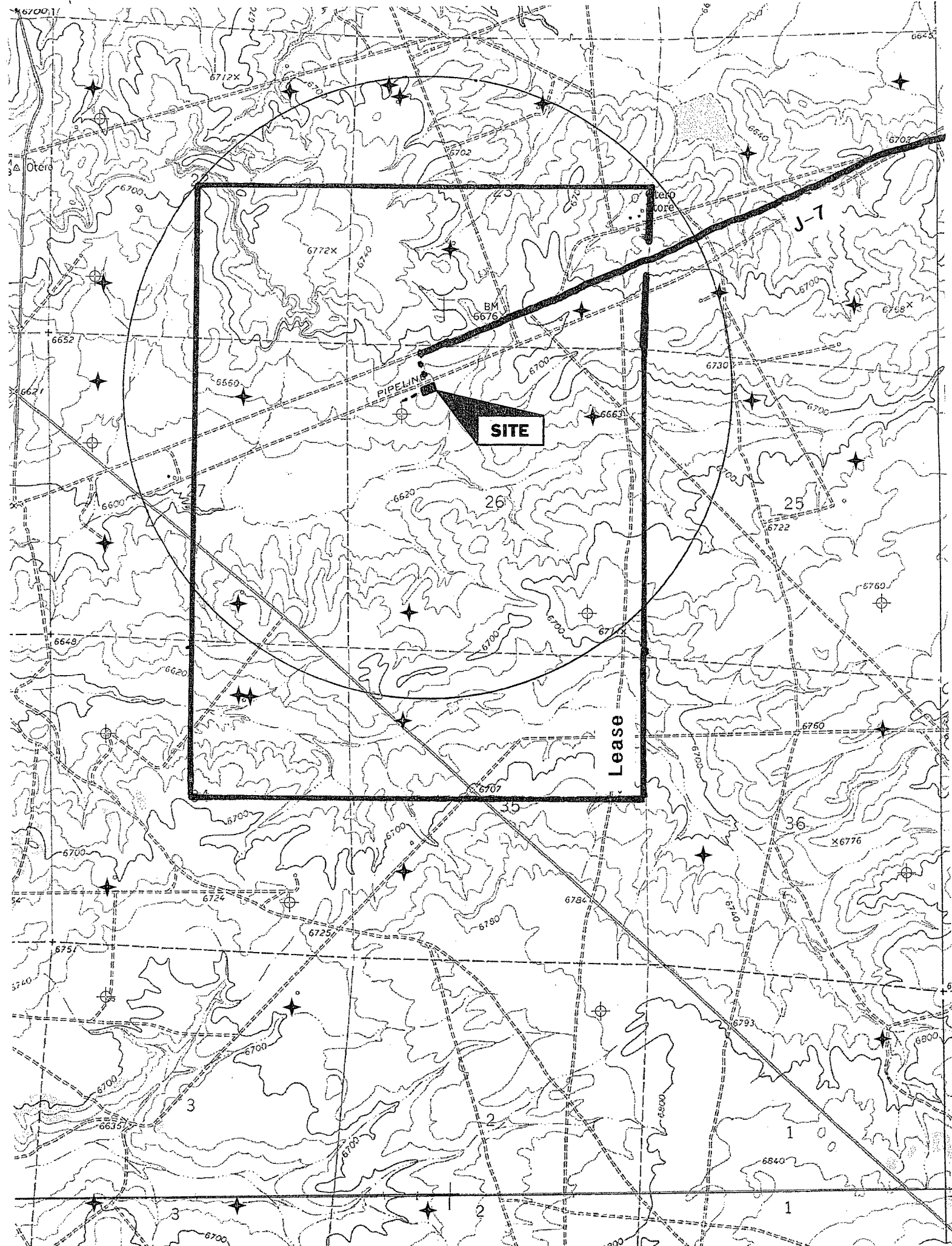
The final $\approx 700'$ of access will be crowned and ditched to BLM Gold Book standards with a $\approx 14'$ wide running surface. Borrow ditches will be turned out to drain. A $\geq 36"$ high berm will be built to deter travel along Enterprise's pipeline route. Maximum disturbed width will be $30'$. Maximum cut or fill = $3'$. Maximum grade will be $\approx 6\%$. An $18" \times 30'$ culvert will be installed. No upgrade, turn out, or cattle guard is needed.

3. EXISTING WELLS (See PAGE 12)

There are 9 existing oil or gas wells and 2 plugged wells within a 1 mile radius. There are no water or injection wells.

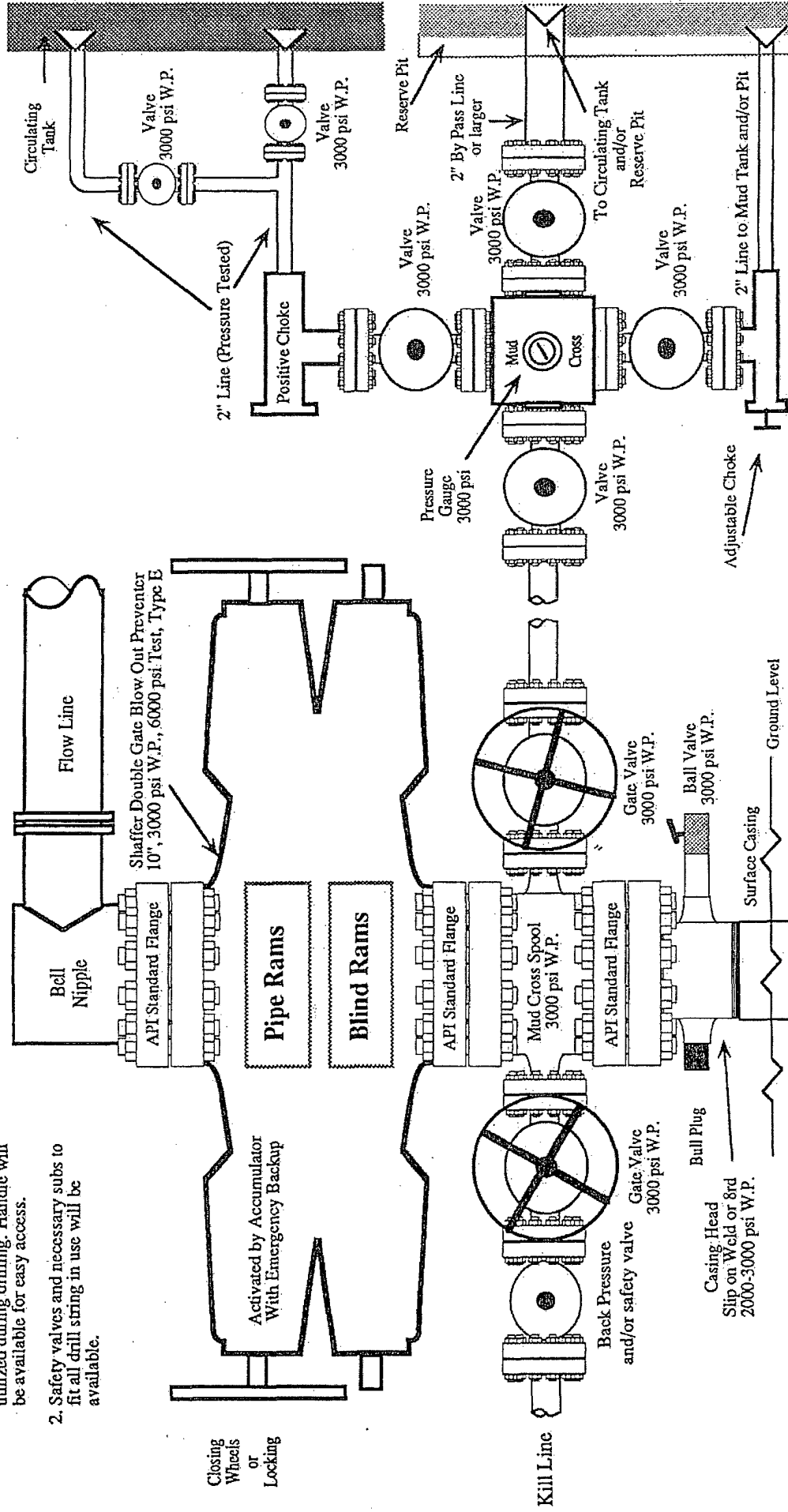
4. PROPOSED PRODUCTION FACILITIES (See PAGE 13)

Production facilities will include a pipeline, separator, dehydrator, meter run, and 210 bbl tank. Above ground equipment will be painted a flat juniper green. A $466.9'$ long polyethylene $\leq 4"$ O. D. natural gas pipeline will be laid to Elm



2,000 PSI BOP SYSTEM

- 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.