

State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

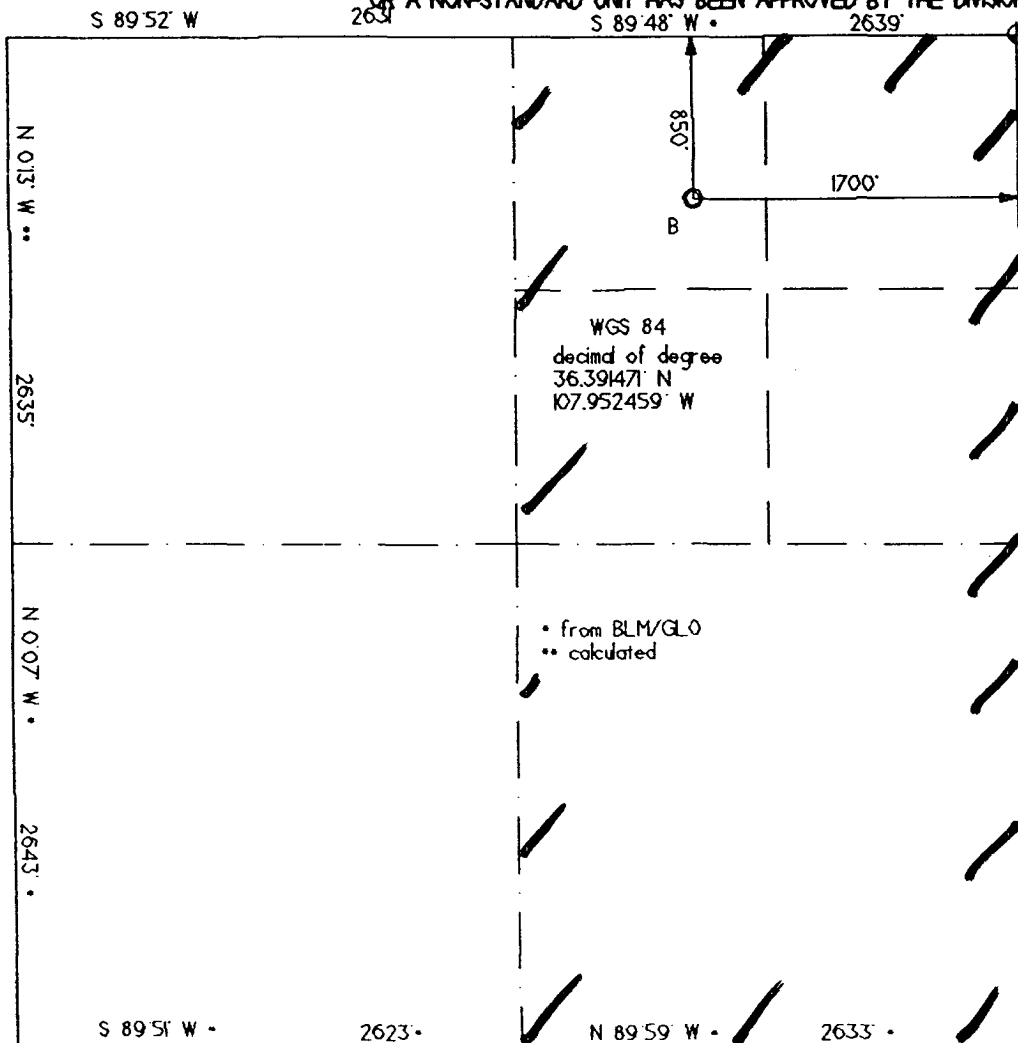
WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number 30-045- 33383	Pool Code 71599	Pool Name BASIN DAKOTA
Property Code 18324- 35303	Property Name BISTI DK 24	Well Number 1
OGRID No. 149052	Operator Name ELM RIDGE EXPLORATION COMPANY, LLC	Elevation 6480'

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot Lch.	Feet from >	North/South	Feet from >	East/West	County
B	24	25 N.	II W.		850'	NORTH	1700'	EAST	SAN JUAN

Bottom Hole Location if Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Lch.	Feet from >	North/South	Feet from >	East/West	County
Dedication 320	Joint ? .	Consolidation C	Order No.						

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



OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>Brian Wood</i>
Printed Name	BRIAN WOOD
Title	CONSULTANT
Date	OCT. 16, 2005
SURVEYOR CERTIFICATION	
I hereby certify that the well location 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	08/28/05
Signature and Seal of Professional Surveyor	<i>Gerald G. Huddleston</i>

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- 33383
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. NMNM-096042	
7. Lease Name or Unit Agreement Name BISTI DK 24	
8. Well Number 1	
9. OGRID Number 149052	
10. Pool name or Wildcat BASIN DAKOTA	

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 <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator ELM RIDGE EXPLORATION COMPANY, LLC	
3. Address of Operator P.O. BOX 156, BLOOMFIELD, NM 87413	
4. Well Location Unit Letter B : 850 feet from the NORTH line and 1700 feet from the EAST line Section 24 Township 25N Range 11W NMPM County SAN JUAN	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,480' GL	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type DRILLING Depth to Groundwater >50' Distance from nearest fresh water well >5,280' Distance from nearest surface water ~150'	
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: DRILLING PIT <input checked="" 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.

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 OCT. 16, 2005

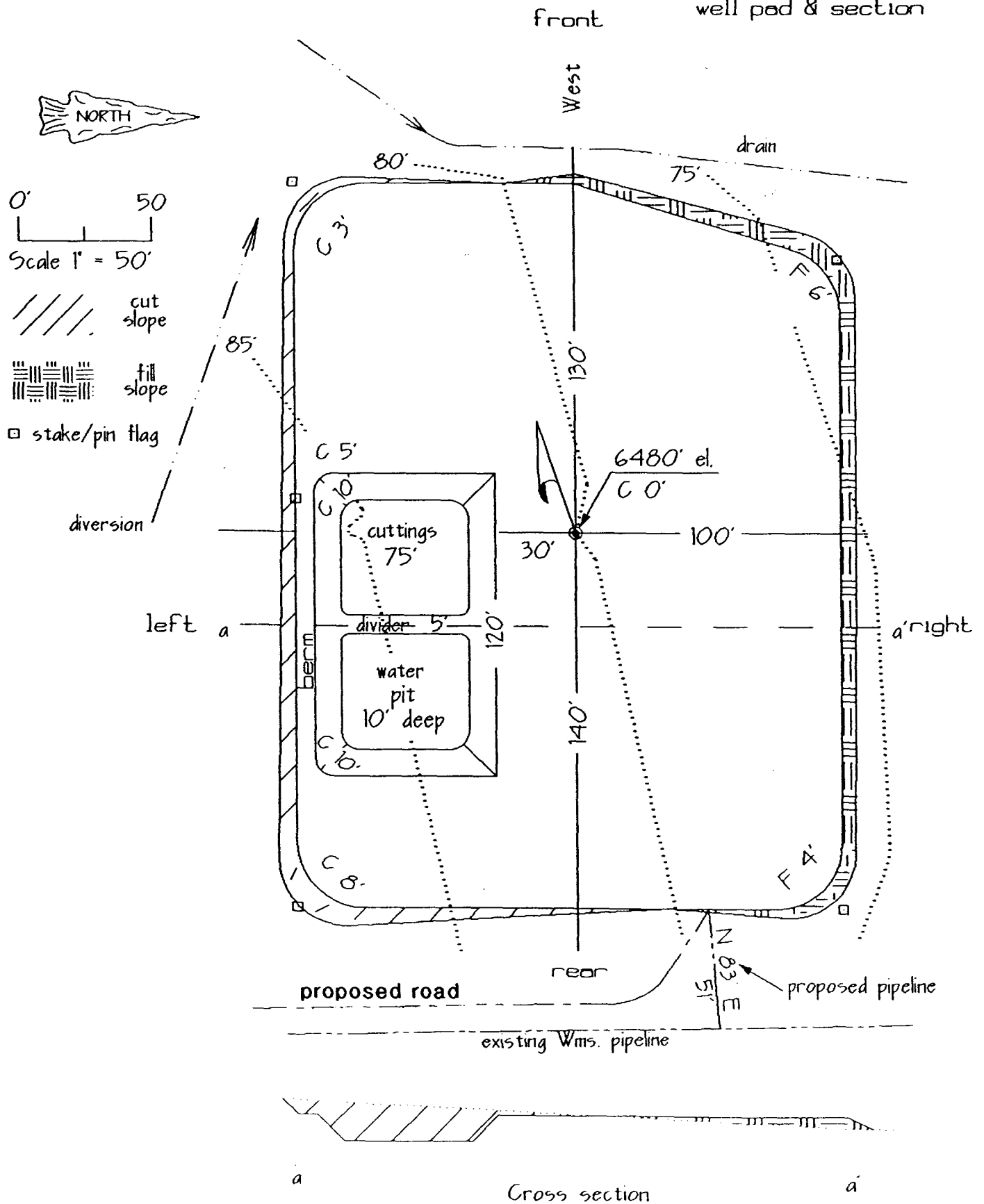
Type or print name BRIAN WOOD E-mail address: brian@permitswest.com Telephone No. (505) 466-8120

For State Use Only

APPROVED BY: [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE DEC 13 2005

Conditions of Approval (if any):

Bisti DK 24 # 1
well pad & section



Elm Ridge Exploration Company, LLC
Bisti DK 24 #1
850' FNL & 1700' FEL
Sec. 24, T. 25 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	0'	10'	+6,480'
Fruitland	1,150'	1,160'	+5,330'
Fruitland Coal	1,375'	1,385'	+5,105'
Pictured Cliffs Sandstone	1,390'	1,400'	+5,090'
Lewis Shale	1,525'	1,535'	+4,955'
Mesa Verde	2,210'	2,220'	+4,270'
Basal Cliff House Sandstone	2,875'	2,885'	+3,605'
Menefee Shale	2,915'	2,925'	+3,565'
Point Lookout Sandstone	3,865'	3,875'	+2,615'
Mancos Shale	4,090'	4,100'	+2,390'
Gallup Sandstone	4,895'	4,905'	+1,585'
Greenhorn	5,780'	5,790'	+700'
Graneros	5,845'	5,855'	+635'
Dakota Sandstone	5,935'	5,945'	+545'
Total Depth	6,200'	6,210'	+280'

2. NOTABLE ZONES

Oil &/or Gas Zones

Fruitland Coal
Pictured Cliffs
Gallup
Dakota

Water Zones

Nacimiento
Fruitland

Coal Zone

Fruitland

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

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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.

A $\geq 2,000$ psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling surface casing plug. It will remain in use until the well is completed or 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 (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	J-55	S T & C	New	320'
7-7/8"	4-1/2"	10.5	K-55	L T & C	New	6,200'

Surface casing will be cemented to the surface with ≈ 383 cubic feet (≈ 325 sacks) Class B with 1/4 pound per sack Flocele + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.6 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.

joint

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Production casing will be cemented to the surface with $\approx 30\%$ excess as follows:

- Break circulation with water
- Pump ≈ 20 barrels of chemical wash
- Pump ≈ 370 sacks ($\approx 1,439$ cubic feet) Class B + 3% chemical extender + 1/4 pound/sack cellophane (≈ 3.89 cubic feet per sack & 10.6 pounds per gallon)
- Follow with ≈ 350 sacks (≈ 413 cubic feet) Class B + 2% CaCl_2 (= 1.18 cubic feet per sack & 15.6 pounds per gallon)
- Set ≈ 25 centralizers
- W.O.C. = 4 hours

5. MUD PROGRAM

Top $\approx 4,500'$ of hole will be drilled with an Aqua gel lime slurry spud mud mixed to 45-50 sec/quart viscosity. At $\approx 4,500'$ will mud up with a low solids gel and starch mud. Hardness will be treated soda ash. Mud properties will be:

Annular velocity: 120 feet/minute

Fluid loss: 8-10 cc/30 minutes

pH: 8.3 - 8.5

Plastic Viscosity: 4-8 cps

Solids Content: 5.5% maximum

Viscosity: 45-65 sec/quart

Weight: 8.4 - 8.8 pounds per gallon

Yield Value: 3-6 #100 square feet

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. A one person logging unit will be on site from $\approx 2,500'$ to TD. Samples will be caught every $\approx 20'$ from $\approx 2,500'$ to $\approx 4,800'$. Samples will be caught every $\approx 10'$ from $\approx 4,800'$ to TD. DIL/GR logs will be run from TD to surface.

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Dual induction gamma ray logs will be run from TD to surface casing. Neutron density log will be run from TD through the Gallup, from the base of the Point Lookout through the Mesa Verde, and from the base of the Pictured Cliffs through the Fruitland. CCL, cement bond (if needed), and gamma ray logs will be run in the cased hole from PBTD to surface casing.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, or hydrogen sulfide are expected. Maximum pressure will be $\leq 2,000$ psi.

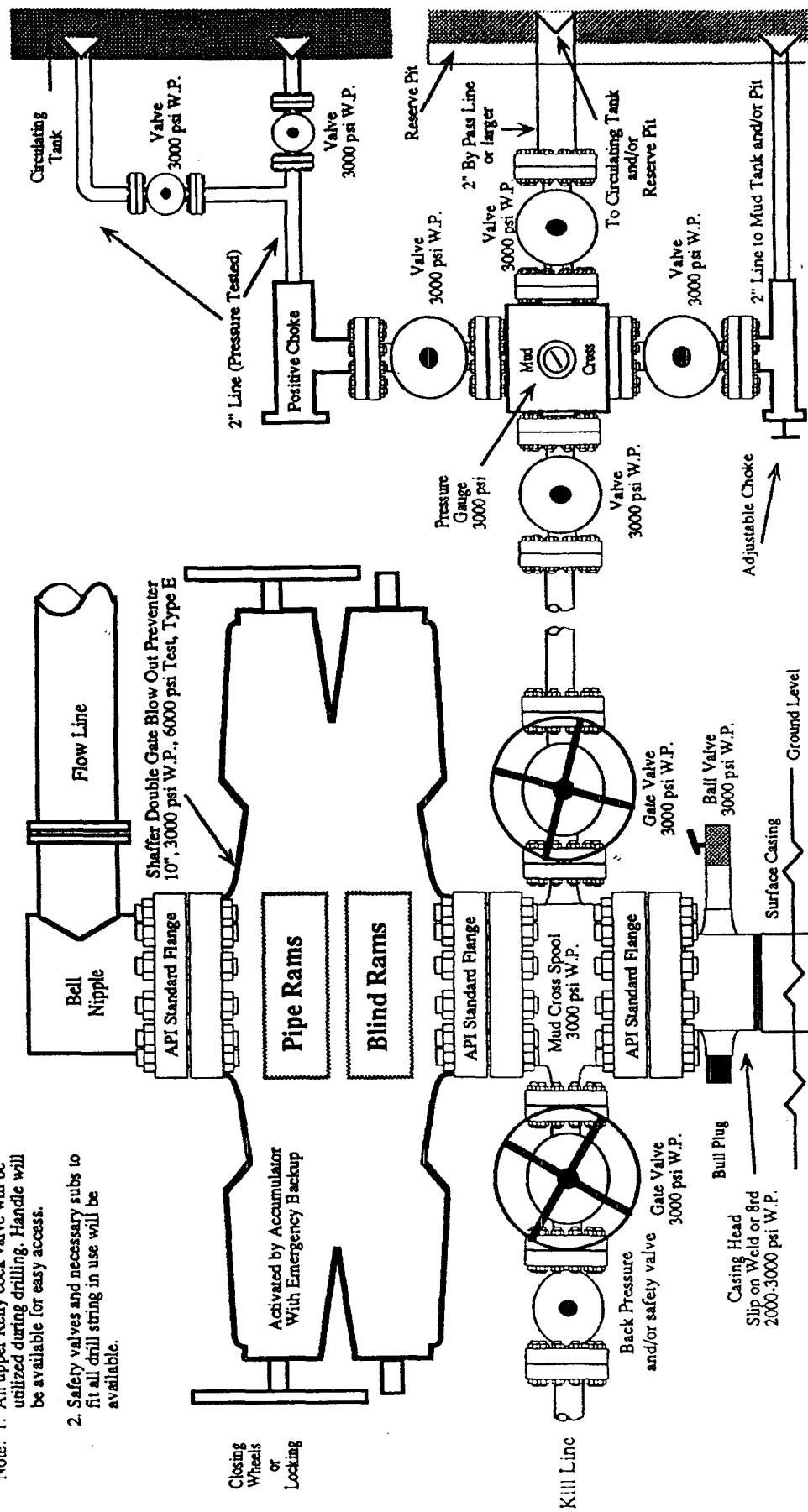
8. OTHER INFORMATION

The spud date will be November 15, 2005 (lease expires November 30, 2005). It is expected it will take ≈ 2 weeks to drill and ≈ 4 weeks to complete the well.

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.