

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, 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-101  
May 27, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address XTO ENERGY INC. 2700 FARMINGTON AVE., BLDG. K, #1, FARMINGTON, NM 87401		<sup>2</sup> OGRID Number 167067
<sup>3</sup> Property Code 23353	<sup>4</sup> Property Name STATE J COM	<sup>5</sup> APL Number 30 - 045- 33017 <sup>6</sup> Well No. 2 S
<sup>9</sup> Proposed Pool 1 BASIN FRUITLAND COAL GAS		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	26 N	11 W		715	NORTH	785	WEST	SAN JUAN

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

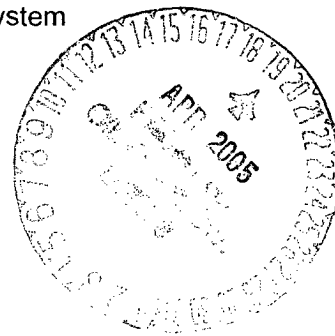
<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary ROTARY	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 6,257'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 2,100'	<sup>18</sup> Formation LEWIS	<sup>19</sup> Contractor UNKNOWN	<sup>20</sup> Spud Date UPON APPROVAL
Depth to Groundwater 250'		Distance from nearest fresh water well >3,500'		Distance from nearest surface water >300'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 1,380 bbls Drilling Method: Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				
Closed-Loop System <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8-3/4"	7"	20#	160'	43	SURFACE
6-1/4"	4-1/2"	10.5#	2,100'	235	SURFACE

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Use 2,000 BOP system



<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: BRIAN WOOD		Approved by:	
Title: CONSULTANT		Title: DEPUTY OIL & GAS INSPECTOR, DIST. 82	
E-mail Address: brian@permitswest.com		Approval Date: APR 19 2005 Expiration Date: APR 19 2006	
Date: 4-8-05	Phone: (505) 466-8120	Conditions of Approval Attached <input type="checkbox"/>	

DISTRICT I  
1825 N. Fench Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised June 10, 2003

DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210

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

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87504-2088

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30.-045-33017		<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 23353	<sup>5</sup> Property Name STATE J COM		<sup>6</sup> Well Number 2S
<sup>7</sup> OGRI No. 167067	<sup>8</sup> Operator Name XTO ENERGY INC.		<sup>9</sup> Elevation 6257'

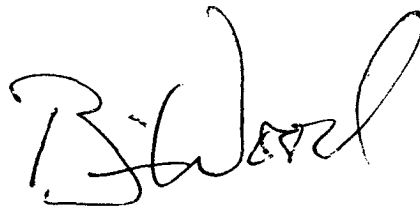

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D*	16	26-N	11-W	-	715	. NORTH	785	. 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
<sup>12</sup> Dedicated Acres 320		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code C		<sup>15</sup> Order No.			

16 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>SEC. CORNER FD 2 1/2" BC GLO 1930</p> <p>715'</p> <p>785'</p> <p>LAT: 36°29'35" N. (NAD 27) LONG: 108°00'53.5" W. (NAD 27)</p> <p>N 00-03-43 W 2619.6' (M)</p> <p>QTR. CORNER FD 2 1/2" BC GLO 1930</p>	<p>S 89-52-30 E 2637.4' (M)</p> <p>16</p>	<p>QTR. CORNER FD 2 1/2" BC GLO 1930</p>	<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></p> <p>Signature <b>BRIAN WOOD</b></p> <p>Printed Name <b>CONSULTANT</b></p> <p>Title <b>APR. 8, 2005</b></p> <p>Date</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 knowledge and belief</p> <p></p> <p>Date of Survey <b>JUNE 8, 2005</b></p> <p>Signature and Seal of Professional Surveyor</p> <p><b>14831</b></p> <p>Certificate Number</p>

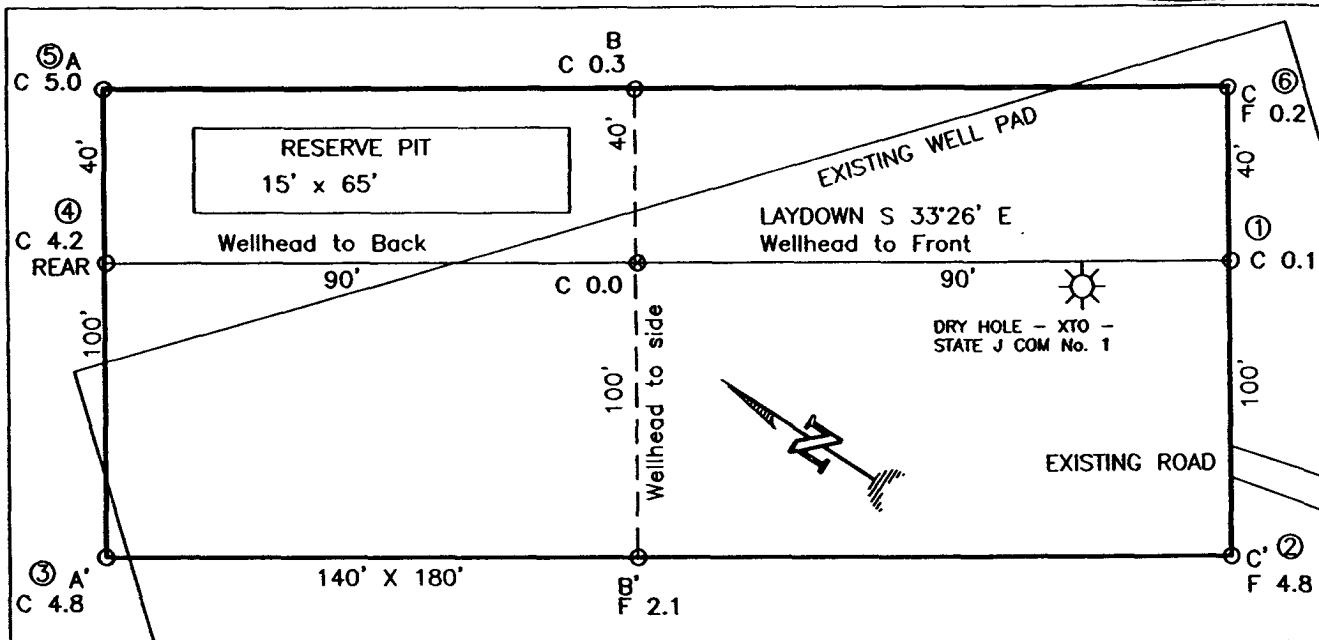
XTO ENERGY INC.

STATE J COM No. 2S, 715 FNL 785 FWL

SECTION 16, T26N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M.

GROUND ELEVATION: 6257, DATE: JUNE 24, 2004

LAT: 36°29'35" N.  
LONG: 108°00'53.5" W.  
NAD 27

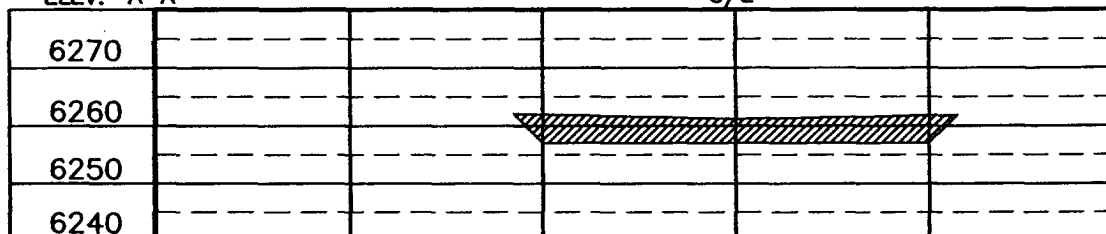


RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).  
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: 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.

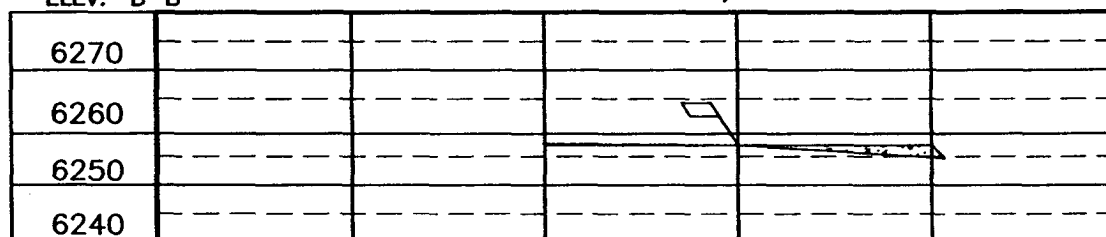
ELEV. A-A'

C/L



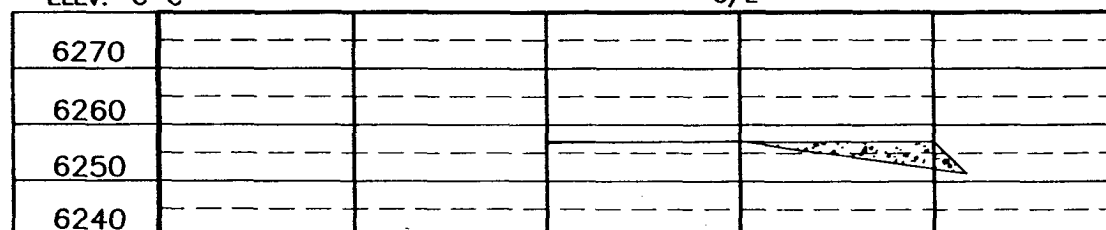
ELEV. B-B'

C/L



ELEV. C-C'

C/L



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.

Daggett Enterprises, Inc.  
Surveying and Oil Field Services  
P. O. Box 15068 • Farmington, NM 87401  
Phone (505) 326-1772 • Fax (505) 326-6019  
NEW MEXICO L.S. No. 14931



DATE: 07/30/04

DATE: 07/30/04

DATE: 07/30/04

XTO Energy Inc.  
State J Com 2 S  
715' FNL & 785' FWL  
Sec. 16, 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'	+6,257'
Ojo Alamo	522'	527'	+5,735'
Kirtland Shale	642'	647'	+5,615'
Fruitland	1,332'	1,337'	+4,925'
Pictured Cliffs	1,582'	1,587'	+4,675'
Lewis Shale	1,907'	1,912'	+4,350'
Total Depth (TD)*	2,100'	2,105'	+4,157'

### 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.  
State J Com 2 S  
715' FNL & 785' FWL  
Sec. 16, T. 26 N., R. 11 W.  
San Juan County, New Mexico

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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%  $\text{CaCl}_2$ . 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.

XTO Energy Inc.  
State J Com 2 S  
715' FNL & 785' FWL  
Sec. 16, T. 26 N., R. 11 W.  
San Juan County, New Mexico

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fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

#### 10. RECLAMATION

Reclamation starts once the reserve pit is dry, at which point it will be back filled. The pad and filled pit will be contoured to a natural shape and disturbed areas ripped or harrowed. The following seed mix will be drilled at a depth and time to be determined by IA.

4 pounds per acre western wheatgrass  
2-1/2 pounds per acre Indian ricegrass  
1-1/2 pound per acre blue grama grass  
0.1 pound pr acre antelope bitter brush  
1/4 pound per acre four wing salt bush  
1 pound per acre small burnet

If broadcast, the rate will be increased as determined by BIA. A harrow or cable will be dragged over the area to assure seed cover. If the well is a producer, then the reserve pit and any other areas not needed for work overs or driving will be reclaimed as previously described.

#### 11. SURFACE OWNER

All construction is on lease on Navajo Tribal surface. Tribal Project Review Office phone number is (928) 871-7040. Their address is P. O. Box 9000, Window Rock, Az. 86515.

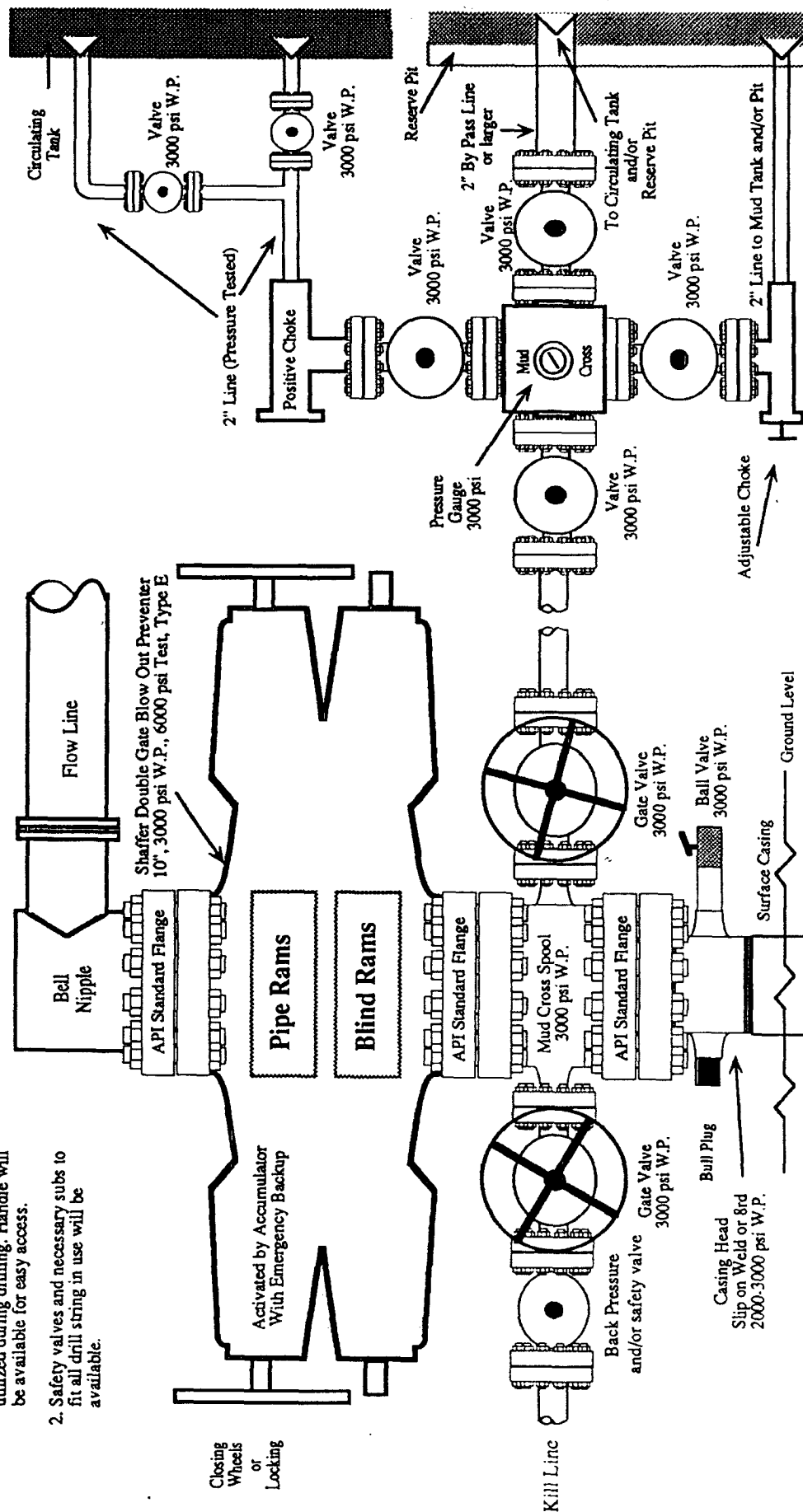
#### 12. OTHER INFORMATION

The nearest hospital is a  $\approx 3/4$  hour drive away in southwest Farmington.

# 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.