

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<br>XTO Energy Inc.<br>2700 Farington Ave. Ste 1 Bldg K<br>Farmington, NM 87401 |  | <sup>4</sup> OGRID Number<br>167067    |
| <sup>3</sup> Property Code<br>34634   |  | <sup>5</sup> API Number<br>30-45-32877 |
| <sup>5</sup> Property Name<br>Riddle Gas Com  |  | <sup>6</sup> Well No.<br>#2            |
| <sup>9</sup> Proposed Pool 1<br>Basin Fruitland Coal  |  | <sup>10</sup> Proposed Pool 2          |

**7 Surface Location**

|                    |              |                 |              |         |                         |                           |                         |                        |  |
|--------------------|--------------|-----------------|--------------|---------|-------------------------|---------------------------|-------------------------|------------------------|--|
| UL or lot no.<br>G | Section<br>9 | Township<br>27N | Range<br>09W | Lot Idn | Feet from the<br>1,910' | North/South line<br>North | Feet from the<br>1,345' | East/West line<br>East | County<br>San Juan <input checked="" type="checkbox"/> |
|--------------------|--------------|-----------------|--------------|---------|-------------------------|---------------------------|-------------------------|------------------------|--|

**8 Proposed 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

**Additional Well Information**

|   |  |  |  |  |
|---|--|--|--|--|
| <sup>11</sup> Work Type Code<br>N   | <sup>12</sup> Well Type Code<br>G      | <sup>13</sup> Cable/Rotary<br>Rotary           | <sup>14</sup> Lease Type Code<br>P           | <sup>15</sup> Ground Level Elevation<br>6,217' |
| <sup>16</sup> Multiple<br>No  | <sup>17</sup> Proposed Depth<br>2,500' | <sup>18</sup> Formation<br>Fruitland Coal      | <sup>19</sup> Contractor<br>Stewart Brothers | <sup>20</sup> Spud Date<br>Spring 2005         |
| Depth to Groundwater >100 feet  |  | Distance from nearest fresh water well >1 mile |  | Distance from nearest surface water >1 mile    |
| Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12_mils thick Clay <input type="checkbox"/> Pit Volume: 1,000_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"/>   |  |  |  |  |

**21 Proposed Casing and Cement Program**

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| 12-1/4"   | 8-5/8"      | 24.0#/ft           | 225'          | 150 sx          | Surface       |
| 7-7/8"    | 5-1/2"      | 15.5#              | 2,500'        | 325 sx          | 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.

Surface: 150 sx Type III cement w/2% CC & 1/4# cello mixed @ 14.5 ppg, 1.41 cuft/sx. Circ cement to surf.

Production: 225 sx (lead) Type III cement w/8% gel, 1/4#/sx cello mixed @ 11.9 ppg, 2.54 cuft/sx followed by 100 sx (tail) Type III cement w/1% CC & 1/4# cello mixed @ 14.5 ppg, 1.41 cuft/sx. Circ cement to surf.

Final cement volumes will be 40% over open hole log volumes. Cement additives may change based on well conditions and availability of the additives. Cement densities will not be changed.

BOP diagram is attached.

<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 NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Printed name:

Title: Drilling Engineer

E-mail Address: Jeff\_Patton@XTOEnergy.com

Date: 2/8/05

Phone: 505 - 324 - 1090

**OIL CONSERVATION DIVISION**

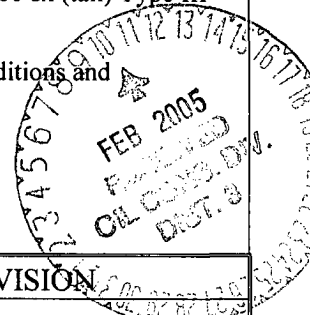
Approved by:

Title: DEPUTY OIL & GAS INSPECTOR, DIST. 8

Approval Date: FEB 10 2005

Expiration Date:

Conditions of Approval Attached ☐



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State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |   |  |
|---|---|--|
| <sup>1</sup> APN Number<br>30-045-32877 | <sup>2</sup> Pool Code<br>711029              | <sup>3</sup> Pool Name<br>Basin Fruitland Coal |
| <sup>4</sup> Property Code<br>34634     | <sup>5</sup> Property Name<br>RIDDLE GAS COM  | <sup>6</sup> Well Number<br>2                  |
| <sup>7</sup> GRID No.<br>167067         | <sup>8</sup> Operator Name<br>XTO ENERGY INC. | <sup>9</sup> Elevation<br>6217'                |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| G             | 9       | 27-N     | 9-W   |         | 1910          | NORTH            | 1345          | EAST           | 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<br>3110.18 E12 |         |          | <sup>13</sup> Joint or Infill |         | <sup>14</sup> Consolidation Code |                  |               | <sup>15</sup> 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

|  |  |
|--|--|
| <div>16</div> <div>QTR. CORNER<br/>FD 2 1/2" BC<br/>U.S.G.L.O. 1947</div> <div>S 87-12-07 W<br/>2625.1' (M)</div> <div>LOT 2</div> <div>1910'</div> <div>1345'</div> <div>9</div> <div>LAT: 36°35'28.9" N. (NAD 27)<br/>LONG: 107°47'19.5" W. (NAD 27)</div> <div>QTR. CORNER<br/>FD 2 1/2" BC<br/>U.S.G.L.O. 1947</div> | <div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Kelly K Smaller</i><br/>Signature<br/><i>Kelly K Smaller</i><br/>Printed Name<br/>Drilling Assistant<br/>Title<br/>2/11/04<br/>Date</p>  |
|  | <div>18 SURVEYOR CERTIFICATION</div> <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>JOHN A. VUKONICH<br/>Date of Survey<br/>SEPTEMBER 2004<br/>Signature and Seal of Professional Surveyor<br/>14831<br/>14831<br/>Certificate Number</p> |

# BOP SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

## TESTING PROCEDURE

1. Test BOP after installation:

Pressure test BOP to 200-300  
psig (low pressure) for 5 min.

Test BOP to Working Press or  
to 70% internal yield of surf csg  
(10 min) or which ever is less.

2. Test operation of (both) rams  
on every trip.

3. Check and record Accumulator  
pressure on every tour.

4. Re-pressure test BOP stack after  
changing out rams.

5. Have kelly cock valve with handle available.

6. Have safety valve and subs to fit all sizes of  
drill string on the rig floor and ready to go.

ROTATING HEAD  
(OPTIONAL)

FILL UP LINE

FLOW LINE  
TO PIT

PIPE  
RAMS

BLIND  
RAMS

TO CHOKE  
MANIFOLD  
2" dia min.

See Choke Manifold drawing for  
specifications

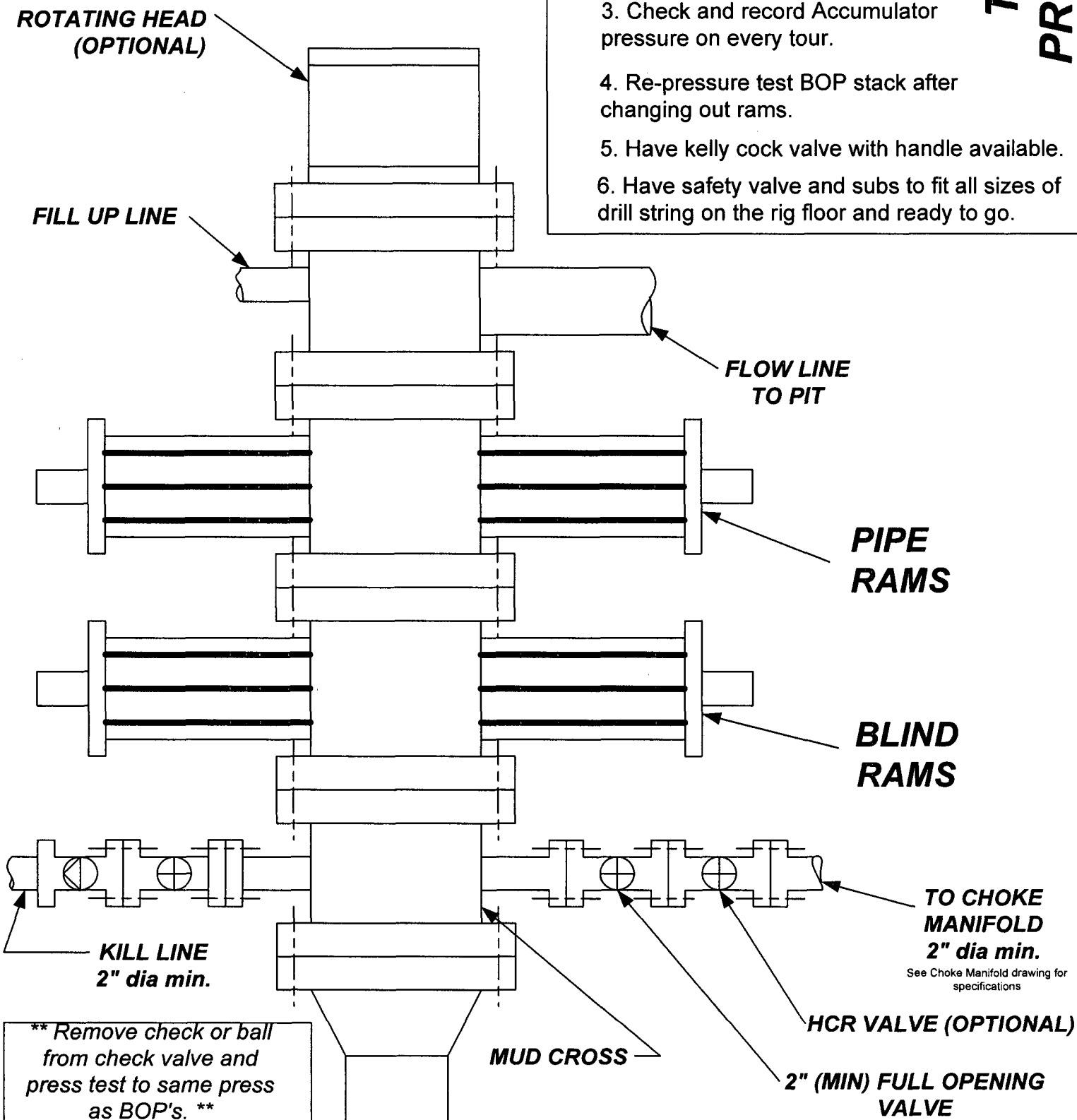
HCR VALVE (OPTIONAL)

2" (MIN) FULL OPENING  
VALVE

MUD CROSS

KILL LINE  
2" dia min.

\*\* Remove check or ball  
from check valve and  
press test to same press  
as BOP's. \*\*



# CHOKES MANIFOLD SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE

1. Stake all lines from choke manifold to pit.
2. Pressure test choke manifold after installation.
3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

## TESTING PROCEDURE

