

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

## APPLICATION FOR PERMIT TO DRILL OR REENTER

|  |  |   |   |
|--|--|---|---|
| 1a. Type of Work<br><input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  | 2007 APR 16 PM 12:42                                      | 5. Lease Serial No.<br><b>NMSF 077874 078019</b>                          |
| 1b. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone |  |   | 6. If Indian, Allottee or Tribe Name<br><b>N/A</b>                        |
| 2. Name of Operator<br><b>XTO Energy Inc.</b>  |  |   | 7. Unit or CA Agreement Name and No.<br><b>N/A</b>                        |
| 3a. Address<br><b>2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM</b>  |  | 3b. Phone No. (include area code)<br><b>505-324-1090</b>  | 8. Lease Name and Well No.<br><b>EH PIPKIN #9F</b>                        |
| 4. Location of Well (Report location clearly and in accordance with any State requirements)*<br>At surface <b>995 FSL x 2010' FWL</b><br>At proposed prod. zone <b>1975 FSL x 670' FWL</b>                               |  |   | 9. API Well No.<br><b>30-045-34274</b>                                    |
| 14. Distance in miles and direction from nearest town or post office*<br><b>Approximately 6.6 miles South of Bloomfield, NM post office</b>  |  |   | 10. Field and Pool, or Exploratory/<br><b>BASIN DAKOTA/BASIN MANCOS</b>   |
| 15. Distance from proposed* location to nearest property or lease line, ft.<br>(Also to nearest drg. unit line, if any)<br><b>1240'</b>  |  | 16. No. of Acres in lease<br><b>2560.96</b>               | 17. Spacing Unit dedicated to this well<br><b>W/2 320 DK, SW/4 160 MC</b> |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.<br><b>254'</b>  |  | 19. Proposed Depth<br><b>6925'</b>                        | 20. BLM/BIA Bond No. on file<br><b>UTB000138</b>                          |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br><b>5912' GROUND ELEVATION</b>   |  | 22. Approximate date work will start*<br><b>JULY 2007</b> | 23. Estimated duration<br><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:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|  |   |                         |
|--|---|-------------------------|
| 25. Signature<br><i>Kyla Vaughan</i>             | Name (Printed/Typed)<br><b>Kyla Vaughan</b>   | Date<br><b>04/11/07</b> |
| Title<br><b>Regulatory Compliance Tech</b>       |   |                         |
| Approved by (Signature)<br><i>Wayne Townsend</i> | Name (Printed/Typed)<br><b>Wayne Townsend</b> | Date<br><b>7/7/08</b>   |
| Title<br><b>Acting AFM</b>                       | Office<br><b>FFO</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)

NOTIFY AZTEC JUDICIAL  
PRIOR TO CASING & CEMENTHold C104  
for Directional Survey  
and "As Drilled" plat

APD/ROW

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

NMOCD

APR 10 2008  
AVDRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

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 South St Francis Dr., Santa Fe, NM 87505

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |  |   |
|---|--|---|
| <sup>1</sup> API Number<br>30-045-34274 | <sup>2</sup> Pool Code<br>97232              | <sup>3</sup> Pool Name<br>WC BASIN MANCOS |
| <sup>4</sup> Property Code<br>22853     | <sup>5</sup> Property Name<br>E H PIPKIN     | <sup>6</sup> Well Number<br>9F            |
| <sup>7</sup> GRID No<br>5380            | <sup>8</sup> Operator Name<br>XTO ENERGY INC | <sup>9</sup> Elevation<br>5922'           |

<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   |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| N            | 35      | 28-N     | 11-W  |         | 995           | SOUTH            | 2010          | 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   |
|---|---------|----------|-------------------------------|---------|----------------------------------|------------------|------------------------|----------------|----------|
| L   | 35      | 28-N     | 11-W                          |         | 1975                             | SOUTH            | 670                    | WEST           | SAN JUAN |
| <sup>12</sup> Dedicated Acres<br>SW 1/4 160 |         |          | <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

|  |  |
|--|--|
| <p>16</p> <p>FD. 2 1/2" BC<br/>1913 GLO</p> <p>N 00-04-03 E<br/>5280.7' (M)</p> <p>BOTTOM HOLE LOCATION<br/>LAT: 36°37'01.0" N (NAD 83)<br/>LONG: 107°58'47.7" W (NAD 83)</p> <p>35</p> <p>670'</p> <p>BHL</p> <p>1975'</p> <p>2010'</p> <p>995'</p> <p>SURFACE LOCATION<br/>LAT: 36°14'27" N. (NAD 83)<br/>LONG: 107°57'53" W (NAD 83)<br/>LAT: 36°36'51.3" N. (NAD 27)<br/>LONG: 107°58'29.0" W (NAD 27)</p> <p>CALC'D CORNER:<br/>11.9' WEST</p> <p>WITNESS CORNER<br/>FD. 2 1/2" BC<br/>1913 GLO</p> <p>N 89-58-57 E<br/>2638.6' (M)</p> <p>FD. 2 1/2" BC<br/>1913 GLO</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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Kyla Vaughan 12/10/07<br/>Signature Date<br/>Kyla Vaughan<br/>Printed Name</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 belief.</p> <p>JUNE 15, 2007<br/>Date of Survey</p> <p>ROY A. RUSH<br/>NEW MEXICO<br/>REGISTERED PROFESSIONAL LAND SURVEYOR<br/>8894</p> <p>Certificate Number</p> |
|--|--|

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

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |  |  |
|---|--|--|
| <sup>1</sup> API Number<br>30-045-34274 | <sup>2</sup> Pool Code<br>71599              | <sup>3</sup> Pool Name<br>BASIN DAKOTA |
| <sup>4</sup> Property Code<br>22853     | <sup>5</sup> Property Name<br>E H PIPKIN     | <sup>6</sup> Well Number<br>9F         |
| <sup>7</sup> OGRD No.<br>5380           | <sup>8</sup> Operator Name<br>XTO ENERGY INC | <sup>9</sup> Elevation<br>5922'        |

### <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   |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| N            | 35      | 28-N     | 11-W  |         | 995           | SOUTH            | 2010          | 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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L             | 35      | 28-N     | 11-W  |         | 1975          | SOUTH            | 670           | WEST           | SAN JUAN |

|  |                               |                                  |                        |
|--|-------------------------------|----------------------------------|------------------------|
| <sup>12</sup> Dedicated Acres<br>W/2 320 | <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

16

FD. 2 1/2" BC  
1913 GLO

N 00-04-03 E  
5280.7' (M)

BOTTOM HOLE LOCATION  
LAT: 36°37'01.0" N (NAD 83)  
LONG: 107°58'47.7" W (NAD 83)

35

670'

BHL

1975'

2010'

995'

SURFACE LOCATION  
LAT: 36°61'42.7" N. (NAD 83)  
LONG: 107°57'53.5" W (NAD 83)  
LAT: 36°36'51.3" N (NAD 27)  
LONG 107°58'29.0" W. (NAD 27)

N 89-58-57 E  
2638.6' (M)

CALC'D CORNER  
11.9' WEST

WITNESS CORNER  
FD. 2 1/2" BC  
1913 GLO

FD. 2 1/2" BC  
1913 GLO

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kyle Vaughan 12/10/07  
Signature Date  
Kyle Vaughan 12/10/07  
Printed Name

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.

JUNE 15, 2007  
Date of Survey

Signature and Seal of Professional Land Surveyor  
ROY A. RUSSELL  
NEW MEXICO  
REGISTERED PROFESSIONAL LAND SURVEYOR  
88894  
28-07

Certificate Number

Submit 3 Copies To Appropriate District Office

**District I**

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**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

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

Form C-103  
May 27, 2004

WELL API NO.

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

NMSF 077874

7. Lease Name or Unit Agreement Name:

EH PIPKIN

8. Well Number

#9F

9. OGRID Number

5380

10. Pool name or Wildcat

BASIN DAKOTA/BASIN MANCOS

**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

382 County Road 3100, Aztec NM 87410

4. Well Location

Unit Letter N : 995 feet from the SOUTH line and 2010 feet from the WEST line

Section 35 Township 28N Range 11W NMPM NMEM County SAN JUAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

5912' GROUND ELEVATION

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type DRILL Depth to Groundwater > 100 Distance from nearest fresh water well >1000 Distance from nearest surface water >200

Pit Liner Thickness: 12 mil

Below-Grade Tank: Volume 8000 bbls; Construction Material

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 COMPLETION ☐

OTHER: PIT ☒

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND 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.

XTO Energy plans to construct a lined pit on location for drilling.

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

SIGNATURE Kyla Vaughan TITLE Regulatory Compliance DATE 12/10/07

Type or print name Kyla Vaughan

E-mail address: kyla\_vaughan@xtoenergy.com

Telephone No. 505-333-3159

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 10 2008

Conditions of Approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side:**

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

2. Name of Operator **XTO Energy, Inc.**

3a. Address **382 CR 3100 AZTEC, NM 87410**

3b. Phone No. (include area code) **505-333-3100**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**OLD SH: 1240' FSL x 1565' FWL in Sec 35, T28N, R11W**  
**NEW SH: 995' FSL x 2010' FWL in Sec 35, T28N, R11W**

5. Lease Serial No  
**NMSF 079874 078019**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA/Agreement, Name and/or No.  
**N/A**

8. Well Name and No.  
**EH PIPKIN #9F**

9. API Well No.  
**30-045-34274**

10. Field and Pool, or Exploratory Area  
**BASIN DAKOTA/BASIN MANCOS**

11. County or Parish, State  
**SAN JUAN, NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |   |  |  |
|--|---|---|--|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                        |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                        |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <b>RELOCATE WELL</b> |
|  | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <b>SITE</b>  |
|  | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |  |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**On-site for this well took place on 03/05/07. However, after the on-site and the APD was submitted, Scott Hall and Roger Herrera re-visited the location and decided it needed to be moved due to drainage issues and provided a possible new location. XTO reviewed suggested location by BLM reps and approved said location. Please see attached revised plats, SUP, pipeline, State pit form, drilling program and directional plan.**

**NEW SH: 995' FSL x 2010' FWL**  
**NEW BH: 1975' FSL x 670' FWL**

**RCVD APR 7 '08**  
**OIL CONS. DIV.**  
**DIST. 3**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **Kyla Vaughan**

Title **Regulatory Compliance**

Signature *Kyla Vaughan*

Date **12/10/2007**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *Wayne Townsend*

Title **Acting AFM**

Date **4/4/08**

Office **FFO**

Conditions of approval, if any, are attached. Approval of this notice 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.

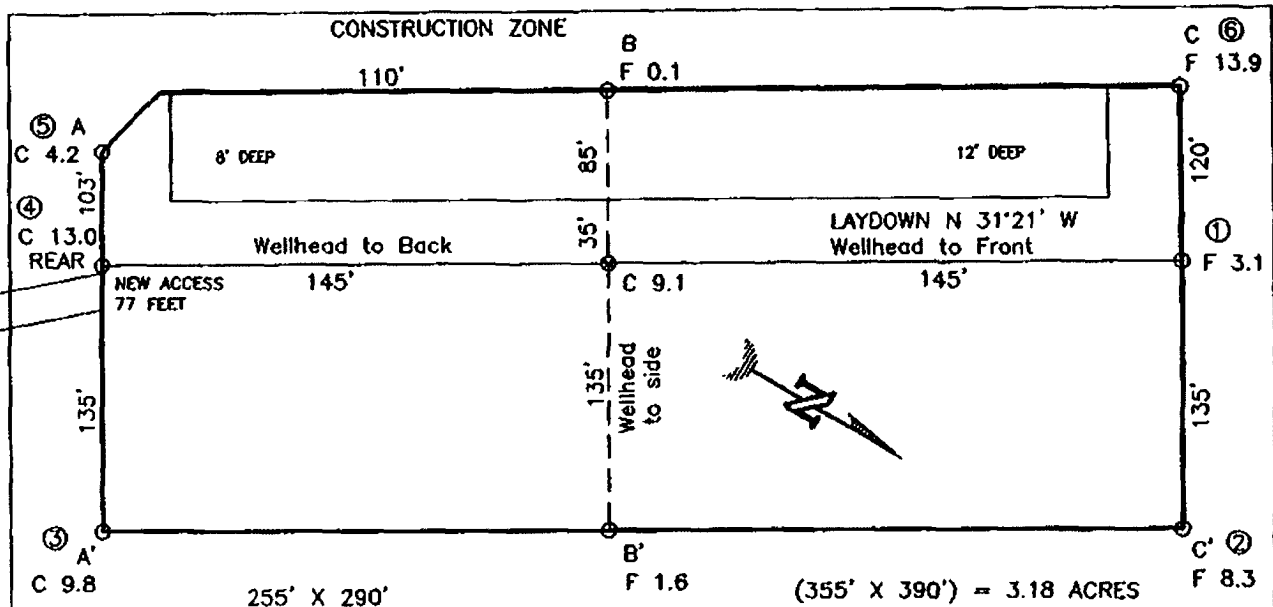
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**NMOCD**

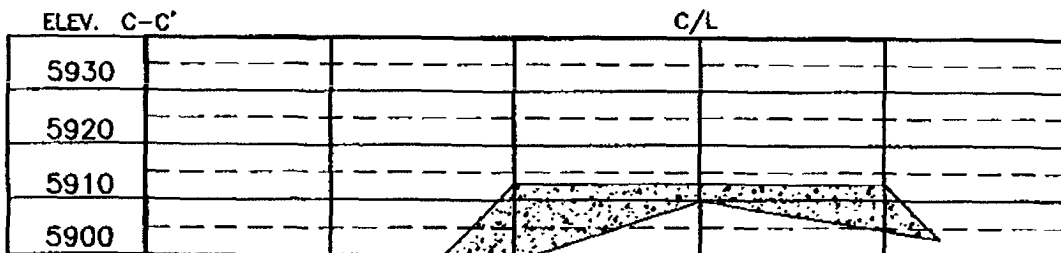
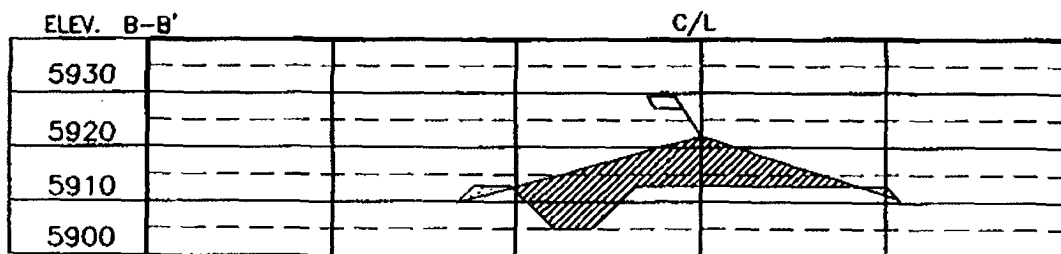
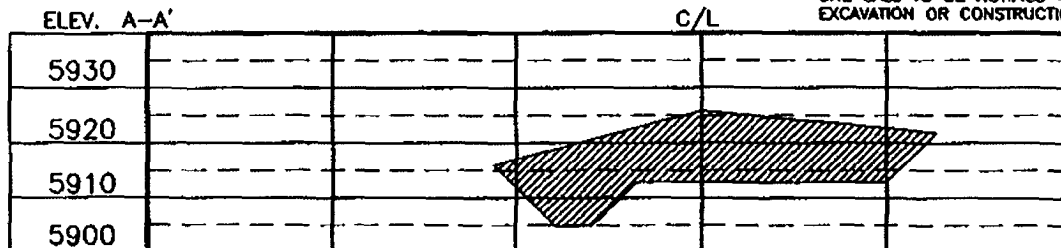
XTO ENERGY INC.  
 E.H. PIPKIN No. 9F, 995 FSL 2010 FWL  
 SECTION 35, T28N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M.  
 GROUND ELEVATION: 5922' DATE: JUNE 15, 2007

NAD 83  
 LAT. = 36.61427° N  
 LONG. = 107.97535° W  
 NAD 27  
 LAT. = 36°36'51.3" N  
 LONG. = 107°58'29.0" W




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.



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.

|  |          |                                |              |
|--|----------|--------------------------------|--------------|
| DATE   | 06/15/07 | REVISIONS BY                   | A. GALLAGHER |
|  | DATE     |                                |              |
| <p><b>Daggett Enterprises, Inc.</b><br/>         Surveying and Oil Field Services<br/>         P. O. Box 15088 • Farmington, NM 87401<br/>         Phone (505) 326-1772 • Fax (505) 326-6019<br/>         NEW MEXICO L.S. No. 8894</p> |          |                                |              |
|   |          | DRAWN BY: A.G.<br>CHECKED: CRG |              |

# XTO ENERGY INC.

EH Pipkin #9F

APD Data

December 10, 2007

Location: 995' FSL x 2010' FWL Sec 35, T28N, R11W County: San Juan

State: New Mexico

Bottomhole Location: 1975' FSL & 670' FWL Sec 35, T28N, R11W

GREATEST PROJECTED TD: 7055'

OBJECTIVE: Basin Dakota / Basin Mancos

APPROX GR ELEV: 5922'

Est KB ELEV: 5934' (12' AGL)

## 1. MUD PROGRAM:

|            |             |               |                     |
|------------|-------------|---------------|---------------------|
| INTERVAL   | 0' to 360'  | 360' to 2500' | 2500' to 7055'      |
| HOLE SIZE  | 12.25"      | 7.875"        | 7.875"              |
| MUD TYPE   | FW/Spud Mud | FW/Polymer    | LSND / Gel Chemical |
| WEIGHT     | 8.6-9.0     | 8.4-8.8       | 8.6- 9.20           |
| VISCOSITY  | 28-32       | 28-32         | 45-60               |
| WATER LOSS | NC          | NC            | 8-10                |

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

## 2. CASING PROGRAM:

Surface Casing: 8.625" casing to be set at  $\pm 360'$  in a 12-1/4" hole filled with 9.20 ppg mud

| Interval | Length | Wt    | Gr   | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|-------|------|------|-------------------|--------------------|----------------|---------|------------|---------|----------|--------|
| 0'-360'  | 360'   | 24.0# | J-55 | ST&C | 1370              | 2950               | 244            | 8.097   | 7.972      | 7.950   | 17.13    | 28.24  |

Production Casing: 5.5" casing to be set at TD ( $\pm 7055'$ ) in 7.875" hole filled with 9.20 ppg mud.

| Interval | Length | Wt    | Gr   | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|-------|------|------|-------------------|--------------------|----------------|---------|------------|---------|----------|--------|
| 0'-7055' | 7055'  | 15.5# | J-55 | ST&C | 4040              | 4810               | 202            | 4.950   | 4.825      | 1.22    | 1.45     | 1.88   |

## 3. WELLHEAD:

- Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

**4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):**

A. Surface: 8.625", 24.0#, J-55, ST&C casing to be set at  $\pm 360'$  in 12-1/4" hole.

214 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk, & 6.70 gal wtr/sk.

*Total slurry volume is 297 ft<sup>3</sup>, 100% excess of calculated annular volume to 360'.*

B. Production: 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at  $\pm 7055'$  in 7.875" hole. DV Tool set @  $\pm 4100'$

1<sup>st</sup> Stage

LEAD:

$\pm 242$  sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft<sup>3</sup>/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

2<sup>nd</sup> Stage

LEAD:

$\pm 341$  sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft<sup>3</sup>/sk, 15.00 gal wtr/sx.

TAIL:

100 sx Type III neat mixed at 14.5 ppg, 1.39 cuft/sx, 6.3 gal/sx.

*Total estimated slurry volume for the 5-1/2" production casing is 1689 ft<sup>3</sup>.*

*Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 40%. It will be attempted to circulate cement to the surface.*

**5. LOGGING PROGRAM:**

A. Mud Logger: None.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7055') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7055') to 3,000'.



6. **FORMATION TOPS:**

Est. KB Elevation: 5934'

Please see directional program for anticipated formation tops.

\*\*\*\* Maximum anticipated BHP should be <2,000 psig ( <0.30 psi/ft) \*\*\*\*

7. **COMPANY PERSONNEL:**

| Name          | Title                   | Office Phone | Home Phone   |
|---------------|-------------------------|--------------|--------------|
| John Egelston | Drilling Engineer       | 505-564-6734 | 505-330-6902 |
| Jerry Lacy    | Drilling Superintendent | 505-566-7917 | 505-320-6543 |
| John Klutsch  | Project Geologist       | 817-885-2800 | --           |

JWE  
12/10/07

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003 14 Single User Db  
**Company:** XTO Energy  
**Project:** San Juan Basin (NAD 83)  
**Site:** EH Pipkin #9F  
**Well:** EH Pipkin #9F  
**Wellbore:** EH Pipkin #9F  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Site EH Pipkin #9F  
**TVD Reference:** Rig KB @ 5924.0ft (AWS #545)  
**MD Reference:** Rig KB @ 5924.0ft (AWS #545)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

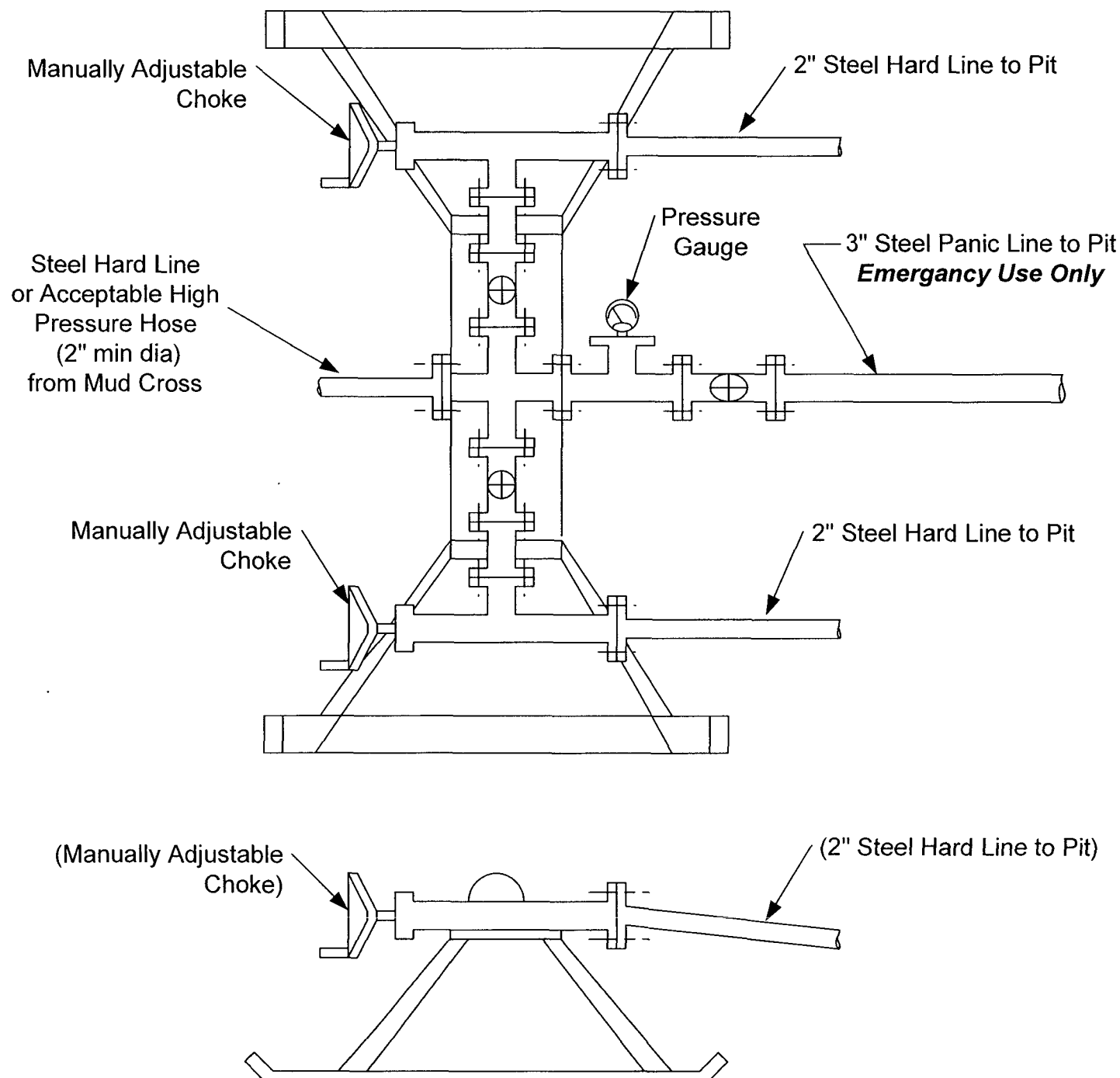
### Formations

| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Name                 | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|---------------------------|---------------------------|----------------------|-----------|------------|-------------------------|
| 709 0                     | 709 0                     | Ojo Alamo SS         | Sandstone | 0 00       |                         |
| 798 0                     | 798 0                     | Kirtland Shale       | Shale     | 0 00       |                         |
| 1,305 6                   | 1,305 0                   | Fruitland Formation  |           | 0 00       |                         |
| 1,801 4                   | 1,791 0                   | Lower Fruitland Coal | Coal      | 0 00       |                         |
| 1,813 9                   | 1,803 0                   | Pictured Cliffs      | Sandstone | 0 00       |                         |
| 1,988 9                   | 1,970 0                   | Lewis Shale          | Shale     | 0 00       |                         |
| 2,793.1                   | 2,736 0                   | Chacra SS            | Sandstone | 0 00       |                         |
| 3,459 7                   | 3,371 0                   | Cliffhouse           | Sandstone | 0 00       |                         |
| 3,568 9                   | 3,475 0                   | Menefee              | Coal      | 0 00       |                         |
| 4,326 9                   | 4,197 0                   | Point Lookout SS     | Sandstone | 0 00       |                         |
| 4,648 2                   | 4,503 0                   | Mancos Shale         | Shale     | 0 00       |                         |
| 5,579 3                   | 5,390 0                   | Gallup               | Sandstone | 0 00       |                         |
| 6,423 4                   | 6,194 0                   | Greenhorn            |           | 0 00       |                         |
| 6,482 2                   | 6,250 0                   | Graneros Shale       | Shale     | 0 00       |                         |
| 6,513 7                   | 6,280 0                   | Dakota               | Sandstone | 0 00       |                         |
| 6,539 9                   | 6,305 0                   | Dakota 2             | Sandstone | 0 00       |                         |
| 6,590 3                   | 6,353 0                   | Dakota 3             | Sandstone | 0 00       |                         |
| 6,629 2                   | 6,390 0                   | Dakota 4             | Sandstone | 0 00       |                         |
| 6,680 6                   | 6,439 0                   | Dakota 5             | Sandstone | 0 00       |                         |
| 6,716 3                   | 6,473 0                   | Dakota 6             | Sandstone | 0 00       |                         |
| 6,744 7                   | 6,500 0                   | Burro Canyon         |           | 0 00       |                         |
| 6,776 1                   | 6,530 0                   | Morrison             | Sandstone | 0 00       |                         |

# CHOKE 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



# 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 10 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.

