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Office
District I
1625 N. French Dr., Hobbs, NM 87201
District II
1301 W. Grand Ave., Artesia, NM 88210
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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
RECEIVED
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
OCT 05 2009
HOBBS

Form C-103
June 19, 2008

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.)		WELL API NO. 30-025-31675
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <input checked="" type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator XTO Energy, Inc. <input checked="" type="checkbox"/>		6. State Oil & Gas Lease No.
3. Address of Operator 200 N. Loraine, Ste. 800 Midland, TX 79701		7. Lease Name or Unit Agreement Name: Arrowhead Grayburg Unit <input checked="" type="checkbox"/>
4. Well Location Unit Letter <u>K</u> : <u>1650'</u> feet from the <u>South</u> line and <u>1650'</u> feet from the <u>West</u> line Section <u>7</u> Township <u>22S</u> Range <u>37E</u> NMPM County <u>Lea</u>		8. Well Number 201
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 005380
		10. Pool name or Wildcat Arrowhead; Grayburg <input checked="" type="checkbox"/>

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 COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: Squeeze Grayburg; RTI ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/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.

1. MIRU Completion unit. ND wellhead. NU BOP. Release Peak ASX-1 pkr and POOH with packer & 116 jts of 2-3/8" Duo-lined tbg. with external FG wrap. MI 3900' of 2-7/8", 6.5 ppf, N-80 work string.
 2. RIH with notched collar & scraper on 2-7/8" WS to PBTD of 3867' & reverse circulate hole clean with fresh water. POOH. RIH with CICR on 2-7/8" WS & set @ 3797'.
 3. MIRU pump & cement trucks & squeeze off Grayburg zones 4 & 5. Simultaneously RU on the back side & maintain pressure on the tbg/csg annulus. Reverse circulate the cement when finished to keep cement out of the upper Grayburg. POOH w/2-7/8" WS. RDMO cement & pump trucks.
- Procedure Cont'd. on Next Page.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kristy Ward TITLE Regulatory Analyst DATE 09/30/09
Type or print name Kristy Ward E-mail address: kristy_ward@xtoenergy.com PHONE 432-620-6740

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE OCT 07 2009
Conditions of Approval (if any):

XTO ENERGY
Arrowhead Grayburg Unit #201 WIW
Lea County, NM
September 30, 2009

ELEVATION: PBTD 3867' KB 13.5'
TD 3876' GL 3447'

WELL INFO: Spud Date: 9123192
Initial injection Grayburg: 868 BWIPD @ 0 psig

WELL DATA:
Surface Csg: 8-518", 23ppf, M-50 set at 1100'. Cemented with 900 sx cement.
TOC at surface.

Production Csg: 5-112", 15.5ppf, Grade K-55 csg. set at 3876' cemented with 800 sx
cement. TOC at surface.
Note: Float collar set at 3793'.

Tubing detail: 116 Jts. 2-318", 4.7ppf, J-55, 8rd EUE, Duo-line tbg. with external FG
wrap.
Peak 2-318" AS1-X packer with on/off tool set at 3598'.

PERFORATIONS: Grayburg Z1: 3653'-63' (10', 20 holes)
3671'-80' (9', 18 holes)
Z2: 3684'-86' (2', 4 holes)
3694¹'-98' (4', 8 holes)
3708¹'-12' (4', 8 holes)
3716¹'-21' (5', 10 holes)
3726'-32' (6', 12 holes)
3736'-42' (6', 12 holes)
Z3: 3754'-64' (10', 20 holes)
3773'-78' (5', 10 holes)
3785'-90' (5', 10 holes)
Z4: 3800'-02' (2', 4 holes)
3806'-10' (4', 8 holes)
3812'-14' (2', 4 holes)
3817'-23' (6', 12 holes)
3826¹'-34' (8', 16 holes)
Z5: 3839¹'-47' (8', 16 holes)
3852¹'-62' (10', 20 holes)

OBJECTIVE: Squeeze zones 4 and 5 of Grayburg. RWTI.

Arrowhead Grayburg Unit #201 WIW

Lea County, NM

September 30, 2009

RECOMMENDED PROCEDURE

*Verb that anchors have been set and tested per NMOCD and OSHA **guidelines**.
This is a STATE well.*

4. RIH with treating packer on 2-7/8" work string. Set packer at 3550'. Load tbglcsg annulus with fresh water and pressure up to 500 psig.
5. RU acid company to acidize Grayburg via 2-7/8" tubing with a total of 5000 gals of 15% 90/10 HCL Acid with 5000 gals of 30lb gelled water with 1 ppg rock salt at a max rate/pressure of 3 BPM 1 1000 psig (see schedule below).
 - a. Establish inj rate of 2 BPM not exceeding 1500 psi.
 - b. 1000 gals of 15% 90/10 Acid
 - c. 1000 gals of 30lb gelled fresh water with 1 ppg rock salt
 - d. 1500 gals of 15% 90/10 Acid
 - e. 1500 gals of 30lb gelled fresh water with 1 ppg rock salt
 - f. 1500 gals of 15% 90/10 Acid
 - g. 1500 gals of 30lb gelled fresh water with 1 ppg rock salt
 - h. 1000 gals of 15% 90/10 Acid
 - i. 1000 gals of 30lb gelled fresh water with 1 ppg rock salt
 - j. Flush to bottom pens + 20 bbls fresh water
6. RD acid crew and shut well in for 2 hr.
7. Open up well and backflow until dead. Swab back load.
8. RIH with on/off tool and Peak AS1-X packer on 116 jts of 2-3/8" Duo-lined tubing and set at 3596'.
9. Circulate hole with packer fluid and pressure up to 500 psig.
10. Notify NMOCD of intent to perform MIT. MIT well to 500 psi for 30 minutes. Chart well for 30 minutes and send to Kristy Ward to file with NMOCD.
11. ND BOP. NU wellhead.
12. RD MO completion unit.
14. **RWTI** at initial rate and pressure settings.