

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr., Hobbs, NM 87240
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
June 19, 2008

RECEIVED
APR 12 2010
HOBBS OGD

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

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. 30-025-37285 ✓
1. Type of Well: ✓ Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator XTO Energy, Inc.		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 ✓
4. Well Location Unit Letter <u>P</u> : <u>205'</u> feet from the <u>South</u> line and <u>990'</u> feet from the <u>East</u> line Section <u>12</u> Township <u>22S</u> Range <u>36E</u> NMPM County <u>Lea</u>		8. Well Number 398 ✓
		9. OGRID Number 005380 ✓
		10. Pool name or Wildcat Arrowhead; Grayburg
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		

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: Restimulate

☒

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. MRU PU.
2. Install BOP. POOH w/tbg.
3. RIH w/bit & scraper to TD of 3850'. Circulate clean & POH

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 04/05/10
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 STAFF MGR DATE 4-13-10
Conditions of Approval (if any):



AGU 398 – Restimulate Cont'd.
LEA COUNTY, NEW MEXICO
April 5, 2010

4. TIH with packer and RBP. Straddle 3790-3800. Pump 750 gals of 20% 95/5 acid. Flush with 2% KCL.
5. Pull RBP to 3785'. Straddle 3750-3780. With packer unset above RBP spot two bbls of acid. Pull up, set packer, and straddle perfs. Open by-pass and reverse circulate 2 bbls of 2% KCL. Close by-pass. Establish injection rate with 2% KCL to determine if perfs will communicate. Pump 1500 gals acid as follows.
 - a. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - b. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - c. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - d. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - e. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - f. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - g. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - h. Flush with 2% KCL. (tubing volume plus 10 bbls)
6. Pull RBP to 3740'. Straddle 3710-3735. With packer unset above RBP spot two bbls of acid. Pull up, set packer, and straddle perfs. Open by-pass and reverse circulate 2 bbls of 2% KCL. Close by-pass. Establish injection rate with 2% KCL. Pump 1500 gals acid as follows.
 - a. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - b. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - c. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - d. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - e. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - f. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - g. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - h. Flush with 2% KCL. (tubing volume plus 10 bbls)
7. Move RBP to 3825'. Pull packer to 3600'. Reset packer. Open well back to pit through 8/64" and adjust depending on flow back rate and pressure.
8. Pull RBP, packer, and tubing. RWTP.



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Alternate Acidizing procedure if last 2 intervals communicate:

Assumes the first stage of acid is gone so you will have 3,000 gals of 20% acid on location.

1. With RBP set at 3825 and packer set at 3600' pump acid stimulation as follows: Max Rate: 4 BPM; Max Pressure 2000 psi.
 - a. Establish rate with 2% KCL
 - b. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - c. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - d. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - e. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - f. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - g. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - h. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - i. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - j. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - k. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - l. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - m. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - n. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - o. 1000 gal spacer of 2% KCL (Note-Should load tubing plus 2% KCL)
 - p. 500 gals of 30# gelled 2% KCL with 1 ppg Grated Rock Salt.
 - q. 500 gals of 20% NEFE 95/5 (95% Acid/5% Mutual Solvent)
 - r. Flush with 2% KCL. (tubing volume plus 10 bbls)

Fluid requirements: 3,750 gals of 20% NEFE 95/5 (95% 20% Acid/5% Multi-chem MX-833-5) acid, 220 bbls of 2% KCL and mix 92 gals of MX-833-5 (1% by volume) in KCL water as Mutual Solvent (Should be enough for excess), 3000 gals 30# gelled KCl, and 3000# GRS. Will need approximately 280 gals of Multichems MX-833-5 surfactant to be used in acid and 2% KCl wtr.