

District I
1625 N. French Dr., Hobbs, NM 87401
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87401
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD

OIL CONSERVATION DIVISION

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

APR 17 2012

RECEIVED

WELL API NO. 30-025-08735
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Arrowhead Grayburg Unit
8. Well Number 172
9. OGRID Number 005380
10. Pool name or Wildcat Arrowhead; Grayburg
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator XTO Energy, Inc.
3. Address of Operator 200 N. Loraine, Ste. 800 Midland, TX 79701	4. Well Location Unit Letter <u>L</u> : <u>2310'</u> feet from the <u>South</u> line and <u>990'</u> feet from the <u>West</u> line Section <u>2</u> Township <u>22S</u> Range <u>36E</u> NMPM County <u>Lea</u>
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: REACTIVATE WELL

☒

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.

XTO Energy, Inc REQUESTS TO REACTIVATE, SQZ, PERF & STIM THIS WELL WITH THE FOLLOWING INTENT:

1. DO CIBP @ 3650', (2) SET CIBP @ 3680', (3) SQZ OH INTERVAL FROM 3702'-4058' W/ 40 SXS (MIN) CLASS C CMT. WAIT ON CMT., (4) DO CMT TO +/- 3850', (5) PERF 3702'-3809', (6) ACIDIZE OH W/3500 GALS 20% NEFE 90/10, (7) PUT WELL ON PROD

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 Stephanie Rabadue TITLE Regulatory Analyst DATE 04/16/2012
stephanie_rabadue@xtoenergy.com
Type or print name STEPHANIE RABADUE E-mail address: stephanie_rabadue@xtoenergy.com PHONE 432-620-6714

For State Use Only

APPROVED BY [Signature] TITLE State Rep DATE 4-18-2012
Conditions of Approval (if any):

APR 18 2012



**Arrowhead Grayburg Unit #172
Reactivation Procedure
Lea County, New Mexico
April 2, 2012**

ELEVATION: GL – 3589' TD – 4100'
 KB – 3589' PBTD – 4058'

WELL DATA:

Current Status: Temporarily Abandoned.

Last Well Test: 1995 – 4 BO / 500 BW / 30 Mcf

Surface Casing: 8-5/8" set at 344' cemented with 200 sx. TOC circ to surface.

Prod. Casing: 5-1/2" 15.5ppf set at 3702' cemented with 200 sx. TOC at 1894' by calc.

COMPLETION: CIBP at 3650'.

Top	Bottom	Length	Type	Formation	SPF	Shots	Date	Comments
3702	4058	356	OH	AGU/Grayburg	0	0	1940	Open Hole

OBJECTIVE: Reactivate, Squeeze, Perforate and Stim before RWTP.

RECOMMENDED PROCEDURE

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

1. MIRU PU. MI and rack 4300' of 2-7/8" 6.5ppf, J-55 work string. ND WH. NU BOP.
2. PU and RIH with 4-3/4" bit, bit sub and drill collars on 2-7/8" WS to CIBP at 3650'. DO CIBP. RIH to PBTD and reverse circulate hole clean. POOH and LD bit, bit sub and DC's.
3. RIH with 5-1/2" CICR on 2-7/8" WS to 3680'. **Set CICR at 3680'**. Load and test TCA with fresh water to 500 psig.



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4. RU cement company. Establish injection rate with fresh water, then squeeze open-hole interval from 3702' – 4058'. Mix and pump **(50 sx minimum) of class 'C' cement with 2% CaCl₂** (14.8 -lb/gal density). Displace cement slurry with fresh water to 1 bbl above CICR. Squeeze slurry into open-hole until 1000 psig is reached. Wait ~15 minutes and walk pressure up to 1000 psig again, or until a successful squeeze is obtained. If max pressure is reached, sting out of CICR and reverse circulate tbg clean. RD cement company. POOH with 2-7/8" J-55 tubing and LD stinger. WOC over night.

Note: Do not mix CaCl₂ on the fly, have dry mixed beforehand.

5. RU reverse unit. RIH with 4-3/4" bit, bit sub and drill collars on 2-7/8" J-55 tubing to 3680'. **DO cement to +/- 3850'**. Circulate hole clean. POOH and LD bit, bit sub and drill collars. RD reverse unit.
6. RU wireline company. RIH with 2-1/8" casing gun loaded with premium charges with 2 SPF at 180 degree phasing to 3809' while correlating to the *"Spectral Density, Gamma Ray, CCL"* dated 9/15/1995 from Computalog and perforate the following intervals:

Top	Bottom	Length	Type	Formation	SPF	Shots	Date	Comments
3702	3704	2	Perf	AGU	2	4	2012	Open Hole
3709	3713	4	Perf	AGU	2	8	2012	Open Hole
3724	3726	2	Perf	AGU	2	4	2012	Open Hole
3732	3733	1	Perf	AGU	2	2	2012	Open Hole
3736	3737	1	Perf	AGU	2	2	2012	Open Hole
3741	3744	3	Perf	AGU	2	6	2012	Open Hole
3746	3747	1	Perf	AGU	2	2	2012	Open Hole
3750	3751	1	Perf	AGU	2	2	2012	Open Hole
3761	3763	2	Perf	AGU	2	4	2012	Open Hole
3766	3768	2	Perf	AGU	2	4	2012	Open Hole
3769	3773	4	Perf	AGU	2	8	2012	Open Hole
3778	3780	2	Perf	AGU	2	4	2012	Open Hole
3783	3787	4	Perf	AGU	2	8	2012	Open Hole
3804	3809	5	Perf	AGU	2	10	2012	Open Hole
Total Holes =						68		

POOH and LD casing gun. RD wireline company.

7. RIH with 5-1/2" treating packer on 2-7/8" WS. Set 5-1/2" packer at +/- 3650'. Load and test TCA with fresh water to 500 psig. Monitor TCA pressure during acid treatment.



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8. MIRU acid company. Test lines to 4000 psig. Treat open hole with **3500 gals of 20% NEFE 90/10** in 3 stages dropping rock salt for block between each stage. Use the following pump schedule, but adjust the volumes as necessary to achieve good block action:

- a. Load tubing with fresh water
- b. **1000 gals acid**
- c. 1500 lbs rock salt at 1ppg in 10ppg brine
- d. **1250 gals acid**
- e. 1500 lbs rock salt at 1ppg in 10ppg brine
- f. **1250 gals acid**
- g. Over flush with 30 bbls fresh water

(flush with 100 bbls FW if unable to swab at least 2 hrs before SDON)

[Total of 3,500 gals of 20% 90/10 acid and 3,000 lbs rock salt; order out 3,500 lbs]

Note: Max treating pressure is **1,000 psig** on tubing. **Do not exceed 3 BPM** even if treating pressure is below 1,000 psig. Max pressure on casing is 500 psig.

9. RDMO acid company. Shut well in for two hours for acid spend.
10. RU swab and swab back acid load. Determine flow rate and oil cut. Report results to Midland.

Note: Flush with 100 bbls FW if not able to swab before SDON.

11. Release packer. ~~RIH to 3903'~~ before POOH with 2-7/8" WS and LD 5-1/2" packer.

RIH with notch collar on 2 7/8 WS to PBTD @ 3850', Reverse circ.

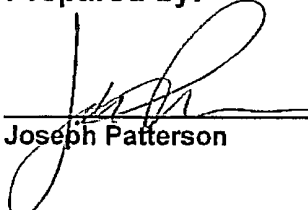
Note: If unable to reach PBTD, RIH with 4-3/4" bit and circulate hole clean.

POH 2 7/8" WS,

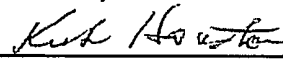
hole clean with FW.

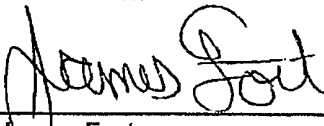
12. RWTP. RDMO PU. Put well in test.

Prepared by:


Joseph Patterson
4/11/12
Date

Approved by:

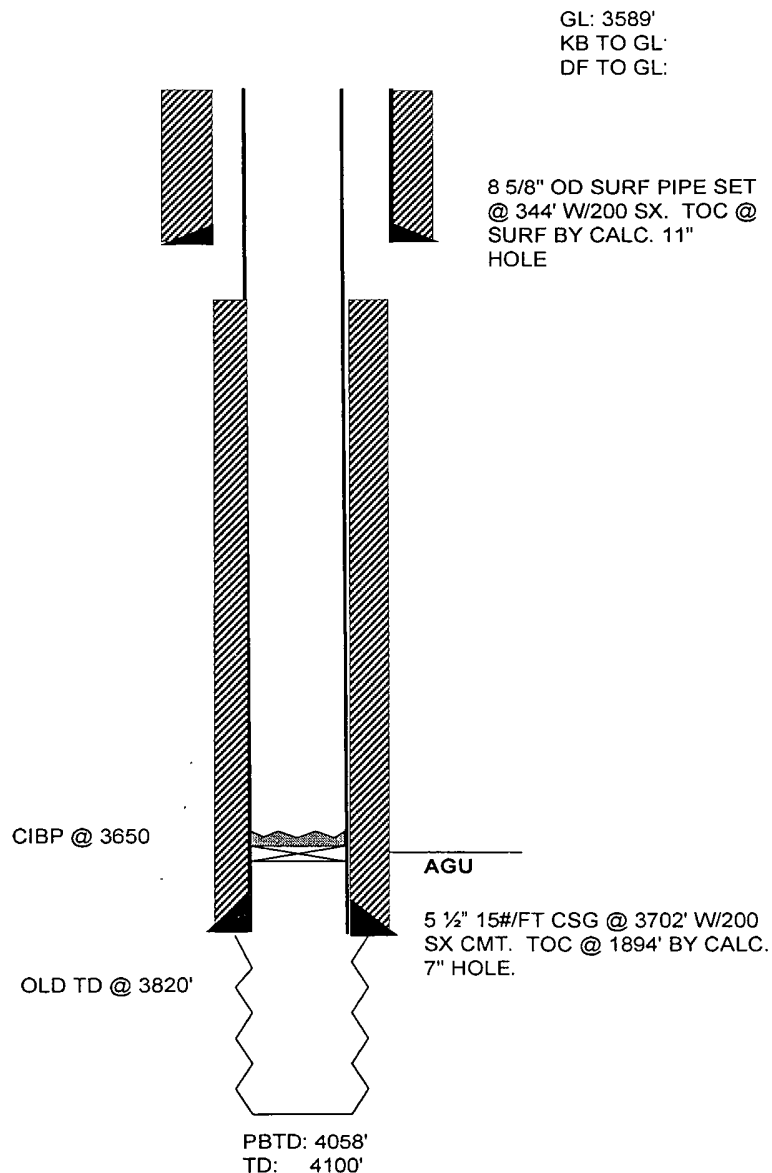

Kirk Houston
4/15/2012
Date


James Fort
Date

16 APRIL 2012

AGU #172

WELLBORE DIAGRAM



DATA

LOCATION: 2310' FSL & 990' FWL SEC. 2, T-22-S, R-36E

COUNTY/STATE: LEA COUNTY, NM

FIELD: ARROWHEAD

FORMATION: GRAYBURG **FROM:** 3702' **TO:** 3820'

SPUD DATE: 6/15/40

INITIAL IP: 741 BOPD/630 MCFGPD/0 BWPD

API #: 30-025-08735

CHEVNO: FA-9795

CURRENT STATUS: PRODUCER

HISTORY

COMPLETION DATA:

DRILL TO 3820'. COMPLETE OH 3702-3820'.

WORKOVER HISTORY:

07/18/53: ACDZ W/500 GALS.

09/05/95: SET CIBP @ 3648'. PMP 150 SX CL C. D/O CIBP & CMT F/3650-3820'. DEEPEN F/3820-4100'. SET PKR @ 4062'. PMP 100 SX CL H F/4058-4100'. ACDZ W/3150 GALS 15% NEFE HCL.

08/01/01: SET CIBP @ 3650'. WELL STATUS CHANGED TO TA. DUE TO BE ADDRESSED BY 8/9/2006.

ADDITIONAL DATA:

T/QUEEN @ 3538'

T/PENROSE @ 3663'

T/AGU @ NA

T/GRAYBURG ZONE 1 @ 3838'

T/GRAYBURG ZONE 2 @ 3877'

T/GRAYBURG ZONE 3 @ 3945'

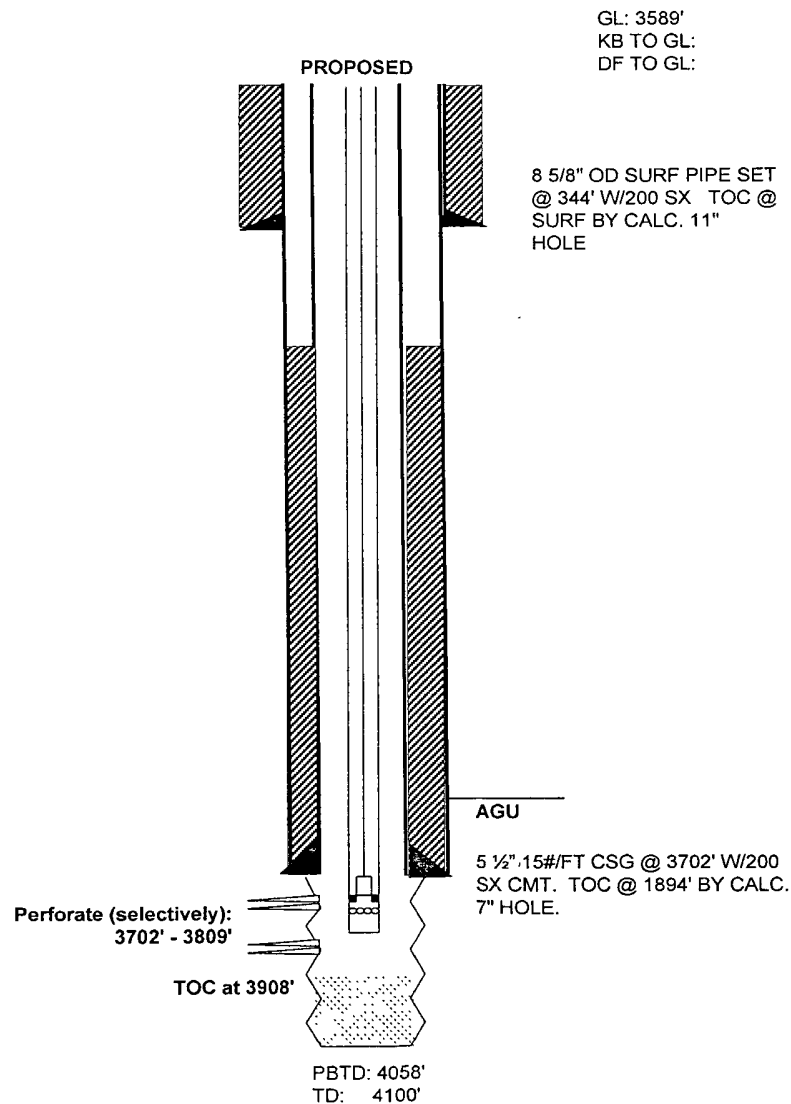
T/GRAYBURG ZONE 4 @ 3985'

T/GRAYBURG ZONE 5 @ 4034'

T/SAN ANDRES @ 4082'

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