

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 S. 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

¹ Operator Name and Address XTO Energy, Inc. 200 N. Loraine, Ste. 800 Midland, TX 79701		² OGRID Number 005380
⁴ Property Code 300717		³ API Number 30- 025-35459
⁵ Property Name Eunice Monument South Unit		⁶ Well No. 775
⁹ Proposed Pool 1 Eunice Monument Grayburg-San Andres		¹⁰ Proposed Pool 2 Queen

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	15	21S	36E		2630	South	2558	East	Lea

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 Location

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3582' GL
¹⁶ Multiple Yes-Downhole Commingle	¹⁷ Proposed Depth 3950'	¹⁸ Formation Grayburg-SA	¹⁹ Contractor N/A	²⁰ Spud Date Orig Date
Depth to ground water No record found		Distance from nearest fresh water well +1000'		Distance from nearest surface water +1000'
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <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"	9 5/8"	36#	1003'	525 sxs	surface
8 3/4"	7"	20@	3950'	935 sxs	surface

²² 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.

Well is currently producing.
Production zone currently is: Graybug-San Andres
Proposed Zone: Queen. Proposed PBTD is 3935'
Formation @ TD: Grayburg-San Andres
*Proposed Program Attached

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback

²³ 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 OGD-approved plan ☐.
Signature: Patty Urias

Printed name: Patty Urias

Title: Regulatory Analyst

E-mail Address: patty.urias@xtoenergy.com

Date:

1/11/11

Phone:

432-620-4318

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date: APR 06 2011

Expiration Date:

Oil Conservation Division

Conditions of approval : Approval for drilling/workover ONLY-- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

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State of New Mexico
Energy, Minerals & Natural Resources
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

¹ API Number 30-025-35459	² Pool Code 300717	³ Pool Name Grayburg-San Andres
⁴ Property Code 300717	⁵ Property Name Eunice Monument South Unit	⁶ Well Number 775
⁷ OGRID No. 005380	⁸ Operator Name XTO Energy, Inc.	⁹ Elevation 3582' GL

¹⁰ Surface Location

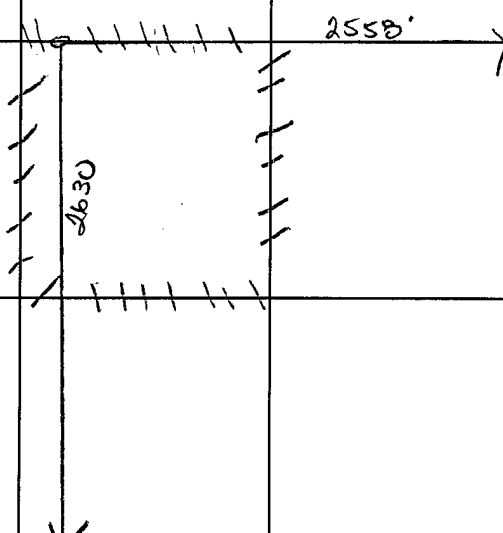
UL or lot no. J	Section 15	Township 21S	Range 36E	Lot. Idn	Feet from the 2630	North/South line South	Feet from the 2558	East/West line East	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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					¹⁷ OPERATOR CERTIFICATION <i>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.</i> Signature: <u>Patty Uiras</u> Date: <u>1/11/11</u> Printed Name: <u>Patty Uiras</u>
					¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyer: Certificate Number



**Eunice Monument South Unit #775
OAP & Acidize Procedure
Lea County, New Mexico
December 3, 2010**

RECEIVED

**JAN 12 2011
HOBBSUCD**

ELEVATION: GL – 3570' TD – 3950'
KB – 3576' PBTD – 3935'

WELL DATA: Completed 7/3/2001

Current Status: Producing. Last Well Test: 11/16/10 – 1 BO / 56 BW / 2 MCF

Surface Casing: 9-5/8" 36 # set at 1003'. Cemented with 525 sx. TOC at surface.

Production Casing: 7" 20# set at 3950'. Cemented with 935 sx. TOC at surface.

Tubing: 123 jts 2-7/8" tbg, 7" TAC, 3 jts 2-7/8" tbg, 1 jt 2-7/8" IPC, SN, Slotted MA. EOT @ 3915'; SN @ 3899'

Rods & Pump: 26 x 1-1/2" SMPR, 7/8" Rod Sub (6'), 146 – 7/8" KD Rods, 8 – 1-1/2" WT Bars, 2-1/2"x2"x24' Pump.

COMPLETION:

Top	Bottom	Length	Type	Formation	SPF	Shots	Date	Comments
3810	3818	8	Perf	Grayburg 2a	3	24	2001	
3830	3834	4	Perf	Grayburg 2a	3	12	2001	
3847	3858	11	Perf	Grayburg 3	3	33	2001	
3858	3874	16	Perf	Grayburg 3	3	48	2001	
3886	3890	4	Perf	Grayburg 4	3	12	2001	
3896	3900	4	Perf	Grayburg 4	3	12	2001	
3912	3918	6	Perf	Grayburg 4	3	18	2001	

OBJECTIVE: Acidize, Open Pay, Acidize, RTP

RECOMMENDED PROCEDURE

(Verify that anchors have been set and tested per NM OCD & OSHA guidelines)

This is a STATE well.

1. MIRU PU.
2. POOH & LD rods & pump. ND WH. NU BOP. RU scan equipment.
3. POOH & scan 2-7/8" production tubing. Take note if there is presence of scale buildup on the pump, rods, and/or tubing. Send any samples to MultiChem for analysis. RD scan.



**Eunice Monument South Unit #775
OAP & Acidize Procedure
Lea County, New Mexico
December 3, 2010**

4. MU & rack 100' of 2-7/8" tubing. RU tubing tester. PU and RIH with notched collar and 7" casing scraper on 2-7/8" tubing; ensure casing scraper does not pass perforations with EOT at PBTD. Test tubing to 5000 psi below the slips. RIH to PBTD at **3935' (scrape to 3810')**. POOH with WS & LD notch collar & scraper. RDMO tubing testers.
5. PU and RIH with 7" treating packer on 2-7/8" WS to 3750'. **Set packer at 3750'**.
6. MIRU acid company. Test lines to 4000 psig. Load and monitor TCA to 500 psig during treatment. Treat all perms with **3500 gals of 20% NEFE 90/10** in 4 stages dropping rock salt for block between each stage. **Max treating rate/pressure 5 BPM / 3,000 psig**. Use the following pump schedule but adjust the volumes as necessary on job to achieve good block action:
 - a. Load tubing with brine
 - b. 500 gals acid**
 - c. 750 lbs rock salt at 1ppg in brine
 - d. 750 gals acid**
 - e. 1250 lbs rock salt at 1ppg in brine
 - f. 1000 gals acid**
 - g. 1500 lbs rock salt at 1ppg in brine
 - h. 1250 gals acid**
 - i. Over flush with 30 bbls fresh wtr[Total of 3,500 gals of 20% 90/10 acid and 3,500 lbs rock salt; order out 4,500 lbs]
7. RDMO acid company. Shut well in for two hours for acid spend.
8. RU swab and swab back acid load. Determine flow rate and oil cut. Report results to Midland.
9. Release packer. POOH with tubing & LD 7" packer.
10. RU wireline. RIH with 3-1/8" casing gun, GR, and CCL. Correlate depths with *Three Detector Litho Density Compensated Neutron Gamma Ray* run on 5/6/01 by Schlumberger. Perforate the following intervals with 2 SPF, 90 degree phasing with premium charges as follows:

3676' – 3678'	Penrose	(2', 4 holes)
3690' – 3692'	Penrose	(2', 4 holes)
3725' – 3731'	Penrose	(6', 12 holes)
3735' – 3739'	Grayburg 1	(4', 8 holes)
3771' – 3776'	Grayburg 1	(5', 10 holes)
3797' – 3800'	Grayburg 2	(3', 6 holes)



Eunice Monument South Unit #775

OAP & Acidize Procedure

Lea County, New Mexico

December 3, 2010

POOH with wireline. RDMO wireline company.

11. RIH with 7" RBP/ball catcher and 7" treating packer on 2-7/8" WS to 3805'. **Set RBP at 3805'. PUH and set packer at 3600'.**
12. MIRU acid company. Test lines to 4000 psig. Load TCA with brine and monitor during treatment (500 psig maximum).
13. Acidize perfs from 3676' – 3800' with **3000 gal of 20% 90/10 acid** (acid/xylene) while spacing **75 1.3 SG ballsealers** with the following schedule. **Max treating rate/pressure: 5 bpm / 3000 psi.**
 - a. Load tubing with brine and establish injection
 - b. Pump 500 gal acid
 - c. Pump 2500 gal acid while dropping 75 1.3 SG ballsealers evenly throughout
 - d. Flush to bottom perf with brine
14. RDMO acid company. Shut well in for two hours for acid to spend.
15. RU swab and swab back acid load. Determine flow rate and oil cut. Report results to Midland.
16. Release packer. RIH to 3805' and retrieve RBP. POOH with WS and LD RBP and packer.
17. RIH with production equipment sized for 400 bfpd or based on swab results. Land intake at 3900'. ND BOP. Set TAC. NU WH. Run rods, SWO & HWO.
18. RWTP. Put well in test. RDMO PU.

Prepared by: _____
Nathan Franka

Date: _____

Approved by: _____
Trey Krampf

Date: _____

Approved by: _____
Guy Haykus

Date: _____

RECEIVED

JAN 12 2011

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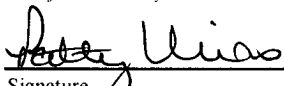
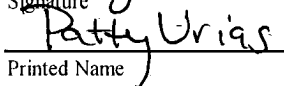
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