

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

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State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division

Submit to appropriate District Office

1220 S. St. Francis Dr.

Santa Fe, NM 87505

☐ 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 300722	⁵ Property Name Monument "36" State	³ API Number 30- 025-34560
⁹ Proposed Pool 1 Goodwin; Drinkard		⁶ Well No. 1
¹⁰ Proposed Pool 2		

⁷ Surface Location

UL or lot no. P	Section 36	Township 18S	Range 36E	Lot Idn	Feet from the 384'	North/South Line South	Feet from the 1216'	East/West line East	County Lea
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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
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Additional Well Location

¹¹ Work Type Code P	¹² Well Type Code 0	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3739' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 7269'	¹⁸ Formation Drinkard	¹⁹ Contractor	²⁰ Spud Date Orig. Date 1/27/99
Depth to ground water no records 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 checked="" 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
14 3/4"	11 3/4"	42	425'	300 sxs	Surface
11"	8 5/8"	24	2852'	900 sxs	Surface
7 7/8"	5 1/2"	15.5	7283'	710 sxs	2250' TOC

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 TA'd.
*Production zone prior to TA Status is: Goodwin; Abo
*Proposed Zone is: Goodwin; Drinkard
*PB Depth +/- 7512'
*PB Formation: Abo Formation @ TD: Abo
*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 OCD-approved plan ☐.
Signature: *Kristy Ward*

Printed name: Kristy Ward

Title: Regulatory Analyst

E-mail Address: kristy_ward@xtoenergy.com

Date: 12/2/09

Phone: 432-620-6740

OIL CONSERVATION DIVISION

Approved by:

[Signature]
PETROLEUM ENGINEER

Approval Date: DEC 11 2009 Expiration Date:

Conditions of Approval:
Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised October 12, 2005

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34560	² Pool Code 28390	³ Pool Name Goodwin; Drinkard
⁴ Property Code 300722	⁵ Property Name Monument "36" State	⁶ Well Number 1
⁷ OGRID No. 005380	⁸ Operator Name XTO Energy, Inc.	⁹ Elevation 3739' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	18S	36E		384'	South	1216'	East	Lea

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

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 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 Signature <u>Kristy Ward</u> Date <u>12/02/09</u> Printed Name Regulatory Analyst
				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 Date of Survey Signature and Seal of Professional Surveyer Certificate Number



**Monument 36 State #1
LEA COUNTY, NEW MEXICO**

ELEVATION:	PBTD – 7269'	KB - 3742' (13')
	TD - 7512'	GL - 3739'

WELL DATA:

Surface Casing:	11-3/4", 42#, H-40, Set at 425'. Cemented with 300 sx. Circulated to surface.
Int. Casing:	8-5/8", 24&28#, K-55, Set at 2852'. Cemented with 900 sx Circulated cement.
Prod. Casing:	5-1/2", 15.5#, K-55, Set at 7283'. Cemented with 710 sx TOC @ 22250'. CBL. DV Tool @ 7268'.

PERFORATIONS: Openhole: 7283-7251' (**CIBP @ 7269'**)

OBJECTIVE: **OAP, Stimulate, Test
Goodwin Drinkard Interval**

RECOMMENDED PROCEDURE

1. Pressure test casing to 500 psi. with 2% KCL to test for casing integrity and to make sure the CIBP at 7200' will hold pressure.
2. Move in and rack 7300' of work string.
3. TIH with 4 3/4" bit, drill collars, and work string. Tag up on cement at 7180' and Drill out CIBP at 7198'. Push bit to bottom. Clean out to 7283. Circulate clean with 2% KCL. Pull out of hole.
4. Rig up wireline company and TIH with CIBP and set at 7266'. TOH. Pressure up on casing to insure CIBP holding.
5. Rig up Wire line company with full lubricator. TIH with 3 1/8" slick gun and perforate the Drinkard Interval as follows 1 shots per interval, 120 degree phasing, 0.40" hole, with 38" penetration at 7263, 61, 55, 52, 46, 43, 40, 38, 33, 31, 23, 16, 12, and 7210. POH.



**Monument 36 State #1
LEA COUNTY, NEW MEXICO**

6. TIH with 5-1/2", 15.5# treating packer and workstring to 7266' and spot 250 gals of 15% Acid as recommended on attachment. Pull packer to 7000'. Reverse a 10 bbls of 2% KCL and set packer. Load TCA to 500 psi.
7. Load hole with 2% KCL and break down perforations. Establish a rate with 2% KCL of 3 BPM with a Max rate/pressure are 5 BPM/2500 psi. and pump 4,500 gals of 15% Acid as described in attached proposal as follows:
 - a. 1,500 gals 15% NEFE Acid dropping 5 balls at the end of the stage
 - b. 1,500 gals 15% NEFE Acid dropping 5 balls at the end of the stage
 - c. 1,500 gals 15% NEFE Acid dropping 4 balls after 1000 gals gone.
 - d. Flush to bottom perf with 2% KCL.
 - e. Shut well in for 2 hours while rigging down stimulation crew.
8. Open well back to pit and flow well down. Rig up swab and swab well monitoring volume inflow, morning pressure, oil cut, beginning and ending fluid levels.
9. Evaluate Swab results and determine if economical or not. **Restimulate** if slow inflow with good cut and gas.
10. Evaluate results and determine next steps.
11. POH with packer and tubing.
12. Rig up wire line company. (Full Lubricator if necessary) TIH with RBP with ball catcher and set at 7190'. Pressure up on casing to 500 psi to check RBP. POH.
13. Rig up Wire line company with full lubricator. TIH with 3 1/8" slick gun and perforate the Drinkard Interval as follows, 120 degree phasing, 0.40" hole, with 38" penetration
 - a. 7164-7175 (11', 3 Shots, 7167, 69, 71)
 - b. 7135-7151 (16', 4 Shots, 7136, 42, 46, 50)
 - c. 7090-7110 (20', 3 Shots, 7090, 99, 7107)
 - d. 6970-7070 (100', 15 Shots, 6973, 77, 80, 86, 93, 99, 7008, 14, 22, 30, 37, 43, 50, 55, 69)
 - e. 6942-6951 (9', 2 Shots, 6944, 49)
 - f. 6860-6883 (23', 5 Shots, 6861, 63, 66, 79, 82)
 - g. POH and rig down perforating company.
 - h. Total of 315', 32 Holes.



**Monument 36 State #1
LEA COUNTY, NEW MEXICO**

14. TIH with 5-1/2", 15.5# treating packer with retrieving head, and workstring to 6785' and set. Load TCA to 500 psi.
15. Load hole with 2% KCL and break down perforations. Establish a rate with 2% KCL of 3 BPM with a Max rate/pressure are 5 BPM/2500 psi. and pump 10,000 gals of 15% Acid as described in attached proposal as follows:
 - a. 2,000 gals 15% Acid dropping 7 balls at the end of the stage
 - b. 2,000 gals 15% Acid dropping 7 balls at the end of the stage
 - c. 2,000 gals 15% Acid dropping 7 balls at the end of the stage
 - d. 2,000 gals 15% Acid dropping 7 balls at the end of the stage
 - e. 2,000 gals 15% Acid dropping 4 balls after 1000 gals gone.
 - f. Flush to bottom perf with 2% KCL.
 - g. Shut well in for 2 hours while rigging down stimulation crew.
16. Open well back to pit and flow well down. Rig up swab and swab well monitoring volume inflow, morning pressure, oil cut, beginning and ending fluid levels.
17. Evaluate Swab results and determine if economical or not. **Restimulate** if slow inflow with good cut and gas.
18. Evaluate results and determine next steps.

/gah

Enclosure

Cc: GAH, KH, GH, TK, Well File, AFE File

MONUMENT STATE 36 #1

WELLBORE DIAGRAM

DATA

LOCATION: 384' FSL & 1216 FEL SEC 36 T18S, R36E
COUNTY/STATE: LEA COUNTY, TEXAS
FIELD: GOODWIN (ABO)
FORMATION: ABO (TA), Drinkard New Pay
SPUD DATE: 1/24/99 **COMPLETION DATE:** 2/25/99
API #: 30-025-34560
STATUS: Producer – Abo (TA); Drinkard (New Perfs)

