

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 7 '06
OIL CONS. DIV.
DIST. 3
FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
XTO Energy Inc.

3a. Address
2700 Farmington Ave., Bldg. K. Ste 1 Farmington,

3b. Phone No. (include area code)
505-324-1090

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1485' FNL x 935' FEL Sec 21H-T26N-R11W

5. Lease Serial No.
NMSF-078641

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
NMNM735541 CA

8. Well Name and No.
BERGER A #2

9. API Well No.
30-045-32998

10. Field and Pool, or Exploratory Area
BASIN FRUITLAND COAL

11. County or Parish, State
SAN JUAN NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off

☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity

☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other

☒ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon

☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

XTO Energy, Inc. proposes to change the bottom hole location as originally submitted on the APD per the attached procedure.

HOLD CEM FOR directional survey +
BH survey to TD

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

LORRI D. BINGHAM

Title

REGULATORY COMPLIANCE TECH

Date 12/1/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

DEC 06 2006

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD B

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, 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 Department

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

Form C-102
Revised August 15, 2000

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED
REPORT

¹ API Number 30-045-32998		² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 22662	⁵ Property Name BERGER A		⁶ Well Number 2
⁷ OGRID No. 5380	⁸ Operator Name XTO Energy, Inc.		⁹ Elevation 6279'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	26N	11W		1485	NORTH	935	EAST	SAN JUAN

¹¹Bottom 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
B	21	26N	11W		660	NORTH	1973	EAST	SAN JUAN

¹² Dedicated Acres 320	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

	<p>Qtr Corner FD 2 1/2" BC 1930 USGLO</p> <p>N 89°58'58W 2633.4' (M)</p> <p>660'</p> <p>1485'</p> <p>1973'</p> <p>935'</p> <p>N 00°56'27"E 2612.6' (M)</p> <p>Lat: 36°28'36" N (NAD 27) Long: 108°00'10" W (NAD 27)</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p></p> <p>Signature</p> <p>Lorri D. Bingham</p> <p>Printed Name</p> <p>Regulatory Compliance Tech</p> <p>Title</p> <p>6/2/2004</p> <p>Date</p>
	<p>21</p>	<p>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.</p> <p>6/2/2004</p> <p>Date of Survey</p> <p>Original Survey Signed By: JOHN A. VUKONICH</p> <p>14831</p> <p>Certificate Number</p>

XTO ENERGY INC.

Berger A #2

APD Data

November 27, 2006

Location: 1485' FNL x 935' FEL Sec 21, T26N, R11W County: San Juan
Bottomhole Location: 660' FNL x 1973' FEL Sec 21, T26N, R11W

State: New Mexico

GREATEST PROJECTED TD: 2682'
APPROX GR ELEV: 6279'

OBJECTIVE: Basin Fruitland Coal
Est KB ELEV: 6291' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 225'	360' to 3143'
HOLE SIZE	12.25"	8.75"
MUD TYPE	FW/Spud Mud	FW/Polymer
WEIGHT	8.6-9.0	8.4-8.8
VISCOSITY	28-32	28-32
WATER LOSS	NC	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at $\pm 225'$ in a 12-1/4" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-225'	225'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	18.76	32.7	48.64

Intermediate Casing: 7" casing to be set at $\pm 1500'$ MD, 1448' TVD in 8.75" hole filled with 9.20 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-1500	1500'	20.0#	J-55	ST&C	2270	3740	234	6.456	6.331	3.16	5.21	7.80

Production Casing: 4.5" casing to be set at $\pm 2682'$ MD, 1520' TVD in 6.125" hole filled with 8.4 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-2682'	2682'	11.6#	J-55	ST&C	4960	5350	154	4.00	3.875	7.47	8.05	4.95

Note: Tensile safety factor based on unbuoyed vertical well conditions, collapse and burst safety factors based on 8.4 ppg mud at TVD with no backup.

3. WELLHEAD:

- A. Casing Head: WHI QDF System (or equivalent), 9-5/8" x 7", 3,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread ST&C pin end on bottom and 4-1/2" slips on top.

- B. Tubing Head: WHI W2F (or equivalent), 7.063" nominal, 5,000 psig WP (5,000 psig test), 5-1/2" slip-on or weld-on.

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):

- A. Surface: 9.625", 36.0#, J-55, ST&C casing to be set at $\pm 225'$ in 12-1/4" hole.

115 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.70 gal wtr/sk.

Total slurry volume is 160 ft³, 100% excess of calculated annular volume to 225'.

- B. Intermediate: 7", 20.0#, J-55 (or K-55), ST&C casing to be set at $\pm 1500'$ in 8.75" hole.

LEAD:

± 80 sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

100 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

Total estimated slurry volume for the 7" production casing is 316ft³.

- C. Production: 4.5", 11.6#/ft, K-55, ST&C casing is to be set at 2682' MD, 1520' TVD in 6.125" hole. A DV/ECP tool will be set @ 1,560' MD with only the stage above the ECP to be cemented. Designed TOC @ 1000'.

± 50 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.70 gal wtr/sk.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs(where applicable) plus 40%. It will be attempted to circulate cement to the surface on all strings except production.

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will come on at surface shoe and will remain on the hole until TD. The mud will be logged in 10' intervals.

- B. Open Hole Logs as follows: Gamma Ray from Surface shoe to TD.

6. **FORMATION TOPS:**

Est. KB Elevation: 6316'

<u>FORMATION</u>	<u>TV Sub-Sea</u>	<u>TVD</u>
Ojo Alamo SS	5813	478
Kirtland Shale	5670	621
Farmington SS		
Fruitland Formation	5282	1009
Lower Fruitland Coal*	4775	1618
TD	4773	1620
<i>* Primary Objective</i>		<i>** Secondary Objective</i>

**** Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

JWE
11/27/06

XTO Energy

T26N, R11E

Berger A #2

Berger A #2

Berger A #2

Plan: Original Permitted Plan

Standard Planning Report

27 November, 2006



XTO Energy, Inc.
Planning Report



Database:	EDM 2003.14 Single User Db	Local Co-ordinate Reference:	Well Berger A #2
Company:	XTO Energy	TVD Reference:	AWS #507 @ 6291.0ft (Original Well Elev)
Project:	T26N, R11E	MD Reference:	AWS #507 @ 6291.0ft (Original Well Elev)
Site:	Berger A #2	North Reference:	Grid
Well:	Berger A #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Berger A #2		
Design:	Original Permitted Plan		

Project:	T26N, R11E, NAPI – South of Bloomfield, Fruitland Coal Horizontals		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		

Site:	Berger A #2			
Site Position:		Northing:	1,992,797.09 ft	Latitude: 36° 28' 36.000 N
From:	Lat/Long	Easting:	450,182.60 ft	Longitude: 108° 0' 10.000 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: -0.10 °

Well:	Berger A #2, Horizontal Fruitland Coal Well			
Well Position	+N/-S	0.0 ft	Northing: 1,992,797.09 ft	Latitude: 36° 28' 36.000 N
	+E/-W	0.0 ft	Easting: 450,182.60 ft	Longitude: 108° 0' 10.000 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	6,279.0 ft	Ground Level: 6,279.0 ft

Wellbore:	Berger A #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/16/2006	10.50	63.30	51,019

Design:	Original Permitted Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	308.48

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	308.48	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,138.0	0.00	308.48	1,138.0	0.0	0.0	0.00	0.00	0.00	308.48	
1,738.0	90.00	308.48	1,520.0	237.7	-299.0	15.00	15.00	0.00	308.48	
2,682.0	90.00	308.48	1,520.0	825.0	-1,038.0	0.00	0.00	0.00	0.00	Berger A #2 BHL

XTO Energy, Inc.
Planning Report



Database: EDM 2003.14 Single User Db
Company: XTO Energy
Project: T26N, R11E
Site: Berger A #2
Well: Berger A #2
Wellbore: Berger A #2
Design: Original Permitted Plan

Local Co-ordinate Reference: Well Berger A #2
TVD Reference: AWS #507 @ 6291.0ft (Original Well Elev)
MD Reference: AWS #507 @ 6291.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	308.48	0.0	0.0	0.0	0.0	0.00	0.00	0.00
225.0	0.00	308.48	225.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
478.0	0.00	308.48	478.0	0.0	0.0	0.0	0.00	0.00	0.00
Ojo Alamo									
621.0	0.00	308.48	621.0	0.0	0.0	0.0	0.00	0.00	0.00
Kirtland Shale									
1,009.0	0.00	308.48	1,009.0	0.0	0.0	0.0	0.00	0.00	0.00
Fruitland Formation									
1,138.0	0.00	308.48	1,138.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	54.30	308.48	1,448.2	99.0	-124.5	159.1	15.00	15.00	0.00
7"									
1,682.7	81.70	308.48	1,516.0	203.4	-255.9	326.8	15.00	15.00	0.00
Lower Fruitland Coal									
1,738.0	90.00	308.48	1,520.0	237.7	-299.0	382.0	15.00	15.00	0.00
2,680.0	90.00	308.48	1,520.0	823.8	-1,036.5	1,323.9	0.00	0.00	0.00
4-1/2"									
2,682.0	90.00	308.48	1,520.0	825.0	-1,038.0	1,325.9	0.00	0.00	0.00
Berger A #2 BHL									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Berger A #2 BHL	0.00	0.00	1,520.0	825.0	-1,038.0	1,993,622.09	449,144.60	36° 28' 44.140 N	108° 0' 22.728 W
- plan misses by 2.0ft at 2680.0ft MD (1520.0 TVD, 823.8 N, -1036.5 E)									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
225.0	225.0	9 5/8"	9-5/8	12-1/4
1,500.0	1,448.2	7"	7	8-3/4
2,680.0	1,520.0	4-1/2"	4-1/2	6-1/8

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
478.0	478.0	Ojo Alamo	Sandstone	0.00	
621.0	621.0	Kirtland Shale	Shale	0.00	
1,009.0	1,009.0	Fruitland Formation		0.00	
1,682.7	1,516.0	Lower Fruitland Coal	Coal	0.00	

XTO Energy, Inc.
Planning Report



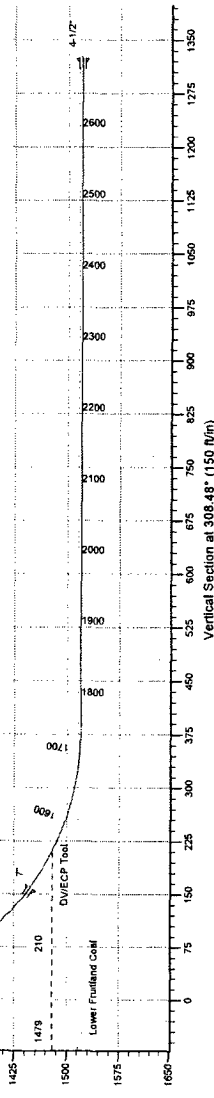
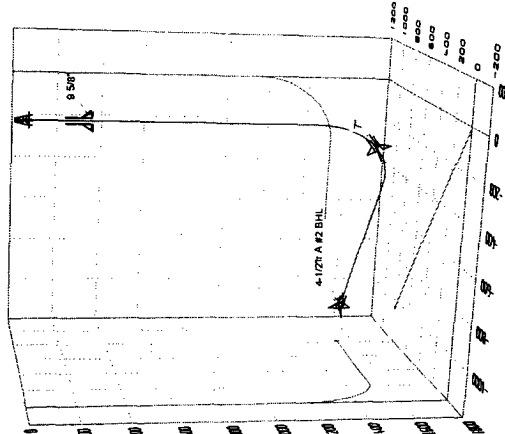
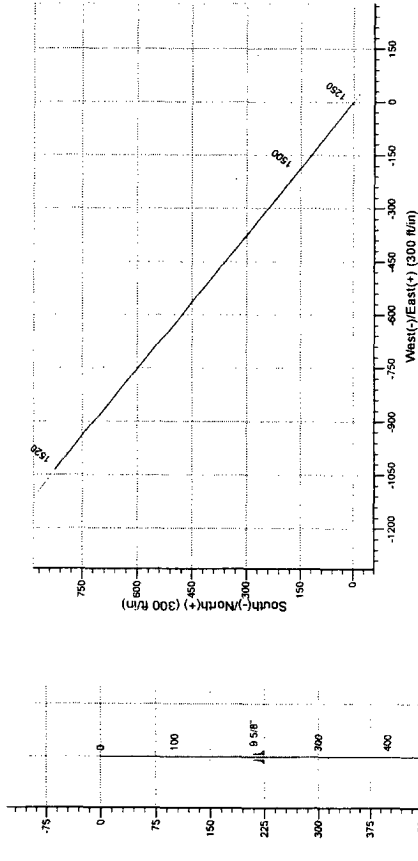
Database:	EDM 2003.14 Single User Db	Local Co-ordinate Reference:	Well Berger A #2
Company:	XTO Energy	TVD Reference:	AWS #507 @ 6291.0ft (Original Well Elev)
Project:	T26N, R11E	MD Reference:	AWS #507 @ 6291.0ft (Original Well Elev)
Site:	Berger A #2	North Reference:	Grid
Well:	Berger A #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Berger A #2		
Design:	Original Permitted Plan		

Plan Annotations

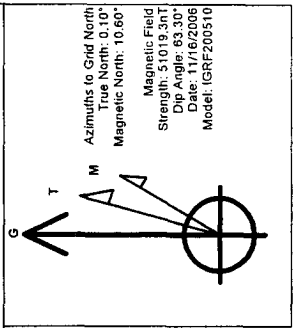
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,560.0	1,479.3	130.9	-164.6	DV/ECP Tool



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00308.48	1138.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0
1138.0	0.00308.48	1138.0	0.0	0.0	0.0	0.00308.48	0.0	0.0	0.0
1738.0	0.00308.48	1520.0	237.7	-298.0	15.00308.48	382.0			
2682.0	0.00308.48	1520.0	825.0	-1038.0	0.00	0.00	1325.9		



WELL DETAILS: Berger A #2				
Ground Level: 6279.0 -1485.0 FNL -935.0 FEL				
Name	TVD	+E/-W	Shape	
Berger A #2 BHL	1520.0	+N/-S 825.0	-1038.0	Point
Project: T26N, R11E				
Site: Berger A #2				
Wellbore: Berger A #2				
Original Permitted Plan				
FORMATION TOP DETAILS				
TVDPath MDPPath Formation				
478.0 478.0 Ojo Alamo				
821.0 821.0 Kirtland Shale				
1060.0 1060.0 Fruitland Formation				
1516.0 1682.7 Lower Fruitland Coal				
CASING DETAILS				
TVD	MD	Name	Size	
225.0	225.0	9 5/8"	9-5/8	
1448.2	1500.0	7"	7	
1520.0	2680.0	4-1/2"	4-1/2	
PROJECT DETAILS: T26N, R11E				
Geodetic System: US State Plane 1927 (Exact solution)				
Datum: NAD 1927 (NADCON CONUS)				
Ellipsoid: Clarke 1866				
Zone: New Mexico West 3003				
System Datum: Mean Sea Level				



Azimuths to Grid North
True North: 0.10°
Magnetic North: 10.60°
Magnetic Field
Strength: 310 Gauss
Date: 11/16/2006
Model: IGRF200510