

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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)

2680' FNL & 1340' FWL SEC 27-T28N-R4W SURFACE
1980' FNL & 900' FWL SEC 27-T28N-R4W TOP PERF
~~1840' FNL & 812' FWL SEC 27-T28N-R4W BTM PERF~~

5. Lease Serial No.

NMM14921

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

GREGORY FEDERAL A #1B

9. API Well No.

30-039-29503

10. Field and Pool, or Exploratory Area

BLANCO MESAVREDE

11. County or Parish, State

RIO ARriba 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

☐ Alter Casing

☐ Casing Repair

☒ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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.)

Based on our experiences on the VCU #45C we would like to revise our drilling plan on this well per attached. We hope to spud this well the week of 9/11/06.



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

HOLLY C. PERKINS

Title

REGULATORY COMPLIANCE TECH

Date 9/8/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

NMOC

XTO ENERGY INC.

Gregory Federal A #1B

APD Data

September 8, 2006

Location: 2680' FNL x 1340' FWL Sec 27, T28N, R4W County: Rio Arriba

State: New Mexico

Location at top Perf (5900' TVD): 1980' FNL x 900' FWL Sec 27, T28N, R4W

GREATEST PROJECTED TD: 7000'

OBJECTIVE: Blanco Mesaverde

APPROX GR ELEV: 7261'

Est KB ELEV: 7273' (12' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2500'	2500' to TD
HOLE SIZE	12.25"	8.75"	8.75"/ 6.125"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC	NC	8-10

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 $\pm 360'$ 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'-360'	360'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	11.73	20.44	30.40

Intermediate Casing: 7" casing to be set at TD ($\pm 4200'$) 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'-4200	4200'	20.0#	J-55	ST&C	2270	3740	234	6.456	6.331	1.16	1.91	2.79

Collapse and Burst S.F. based on 4086' TVD with no gas gradient back up.

Production Casing: 4 1/2" casing to be set at TD ($\pm 7000'$) in 6.125" 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'-7000	7000'	11.6#	J-55	ST&C	4960	5350	154	4.000	3.875	1.48	1.60	1.89

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: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

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 $\pm 360'$ in 12-1/4" hole.

162 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 225 ft³, 100% excess of calculated annular volume to 360'.

- B. Intermediate: 7", 20.0#, J-55 (or K-55), ST&C casing to be set at $\pm 4200'$ in 8.75" hole.

LEAD:

± 363 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 884 ft³.

- C. Production: 4 1/2", 11.6#, J-55 (or K-55), ST&C casing to be set at $\pm 7000'$ in 6.125" hole.

LEAD:

± 356 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 4 1/2" production casing is 870 ft³.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 40%. It will be attempted to circulate cement to the surface.

5. **LOGGING PROGRAM:**

- A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7000') to the bottom of the intermediate csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7000') to 4,500'.

6. **FORMATION TOPS:**

Please see directional plan for formation tops.

**** 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
9/8/06

XTO Energy

T28N, R04W

Gregory Federal A #1B

Gregory Federal A #1B

Gregory Federal A #1B

Plan: S-Well Configuration

Standard Planning Report

08 September, 2006



XTO Energy, Inc.
Planning Report



Database:	EDM 2003.14 Single User Db	Local Co-ordinate Reference:	Well Gregory Federal A #1B
Company:	XTO Energy	TVD Reference:	Rig KB @ 7273.0ft (Aztec #545)
Project:	T28N, R04W	MD Reference:	Rig KB @ 7273.0ft (Aztec #545)
Site:	Gregory Federal A #1B	North Reference:	Grid
Well:	Gregory Federal A #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gregory Federal A #1B		
Design:	S-Well Configuration		

Project	T28N, R04W, Rio Arriba County, NM, Directionals, largely on Carson National Forest		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Gregory Federal A #1B, Sec. 27, T28N, R04W				
Site Position:		Northing:	2,049,560.01 ft	Latitude:	36° 37' 52.500 N
From:	Lat/Long	Easting:	673,362.77 ft	Longitude:	107° 14' 33.000 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.35 °

Well	Gregory Federal A #1B, Mesaverde Well – SHL: 2680' FNL & 1340' FWL, Sec. 27, T28N, R04W					
Well Position	+N/-S	0.0 ft	Northing:	2,049,560.01 ft	Latitude:	36° 37' 52.500 N
	+E/-W	0.0 ft	Easting:	673,362.77 ft	Longitude:	107° 14' 33.000 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	7,261.0 ft	Ground Level:	7,261.0 ft

Wellbore	Gregory Federal A #1B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/23/2006	10.25	63.59	51,246

Design	S-Well Configuration			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	327.85

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	327.85	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	327.85	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,160.6	16.82	327.85	1,152.6	69.2	-43.5	3.00	3.00	0.00	327.85	
3,453.5	16.82	327.85	3,347.4	630.8	-396.5	0.00	0.00	0.00	0.00	
4,014.1	0.00	327.85	3,900.0	700.0	-440.0	3.00	-3.00	0.00	180.00	
6,014.1	0.00	327.85	5,900.0	700.0	-440.0	0.00	0.00	0.00	0.00	Gregory Federal A #1
7,014.1	0.00	327.85	6,900.0	700.0	-440.0	0.00	0.00	0.00	327.85	

XTO Energy, Inc.
Planning Report



Database: EDM 2003.14 Single User Db
Company: XTO Energy
Project: T28N, R04W
Site: Gregory Federal A #1B
Well: Gregory Federal A #1B
Wellbore: Gregory Federal A #1B
Design: S-Well Configuration

Local Co-ordinate Reference: Well Gregory Federal A #1B
TVD Reference: Rig KB @ 7273.0ft (Aztec #545)
MD Reference: Rig KB @ 7273.0ft (Aztec #545)
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)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	327.85	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	327.85	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	327.85	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	327.85	300.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	327.85	360.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
400.0	0.00	327.85	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	327.85	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	327.85	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	3.00	327.85	700.0	2.2	-1.4	2.6	3.00	3.00	0.00
800.0	6.00	327.85	799.6	8.9	-5.6	10.5	3.00	3.00	0.00
900.0	9.00	327.85	898.8	19.9	-12.5	23.5	3.00	3.00	0.00
1,000.0	12.00	327.85	997.1	35.3	-22.2	41.7	3.00	3.00	0.00
1,100.0	15.00	327.85	1,094.3	55.1	-34.6	65.1	3.00	3.00	0.00
1,160.6	16.82	327.85	1,152.6	69.2	-43.5	81.7	3.00	3.00	0.00
1,200.0	16.82	327.85	1,190.3	78.8	-49.5	93.1	0.00	0.00	0.00
1,300.0	16.82	327.85	1,286.0	103.3	-64.9	122.0	0.00	0.00	0.00
1,400.0	16.82	327.85	1,381.7	127.8	-80.3	151.0	0.00	0.00	0.00
1,500.0	16.82	327.85	1,477.5	152.3	-95.7	179.9	0.00	0.00	0.00
1,600.0	16.82	327.85	1,573.2	176.8	-111.1	208.8	0.00	0.00	0.00
1,700.0	16.82	327.85	1,668.9	201.3	-126.5	237.8	0.00	0.00	0.00
1,800.0	16.82	327.85	1,764.6	225.8	-141.9	266.7	0.00	0.00	0.00
1,900.0	16.82	327.85	1,860.4	250.3	-157.3	295.6	0.00	0.00	0.00
2,000.0	16.82	327.85	1,956.1	274.8	-172.7	324.6	0.00	0.00	0.00
2,100.0	16.82	327.85	2,051.8	299.3	-188.1	353.5	0.00	0.00	0.00
2,200.0	16.82	327.85	2,147.5	323.8	-203.5	382.4	0.00	0.00	0.00
2,300.0	16.82	327.85	2,243.2	348.3	-218.9	411.4	0.00	0.00	0.00
2,400.0	16.82	327.85	2,339.0	372.8	-234.3	440.3	0.00	0.00	0.00
2,500.0	16.82	327.85	2,434.7	397.3	-249.7	469.2	0.00	0.00	0.00
2,600.0	16.82	327.85	2,530.4	421.8	-265.1	498.2	0.00	0.00	0.00
2,700.0	16.82	327.85	2,626.1	446.3	-280.5	527.1	0.00	0.00	0.00
2,800.0	16.82	327.85	2,721.9	470.8	-295.9	556.0	0.00	0.00	0.00
2,900.0	16.82	327.85	2,817.6	495.3	-311.3	585.0	0.00	0.00	0.00
3,000.0	16.82	327.85	2,913.3	519.7	-326.7	613.9	0.00	0.00	0.00
3,100.0	16.82	327.85	3,009.0	544.2	-342.1	642.8	0.00	0.00	0.00
3,200.0	16.82	327.85	3,104.8	568.7	-357.5	671.8	0.00	0.00	0.00
3,300.0	16.82	327.85	3,200.5	593.2	-372.9	700.7	0.00	0.00	0.00
3,400.0	16.82	327.85	3,296.2	617.7	-388.3	729.6	0.00	0.00	0.00
3,453.5	16.82	327.85	3,347.4	630.8	-396.5	745.1	0.00	0.00	0.00
3,500.0	15.42	327.85	3,392.1	641.8	-403.4	758.0	3.00	-3.00	0.00
3,593.7	12.61	327.85	3,483.0	661.0	-415.5	780.7	3.00	-3.00	0.00
Ojo Alamo SS									
3,600.0	12.42	327.85	3,489.1	662.1	-416.2	782.1	3.00	-3.00	0.00
3,700.0	9.42	327.85	3,587.3	678.2	-426.3	801.0	3.00	-3.00	0.00
3,800.0	6.42	327.85	3,686.3	689.8	-433.6	814.8	3.00	-3.00	0.00
3,850.9	4.90	327.85	3,737.0	694.1	-436.3	819.8	3.00	-3.00	0.00
Kirtland Shale									
3,900.0	3.42	327.85	3,786.0	697.1	-438.2	823.4	3.00	-3.00	0.00
3,922.1	2.76	327.85	3,808.0	698.1	-438.8	824.6	3.00	-3.00	0.00
Fruitland Formation									
4,000.0	0.42	327.85	3,885.9	700.0	-440.0	826.7	3.00	-3.00	0.00
4,014.1	0.00	327.85	3,900.0	700.0	-440.0	826.8	3.00	-3.00	0.00
4,100.0	0.00	327.85	3,985.9	700.0	-440.0	826.8	0.00	0.00	0.00

XTO Energy, Inc.
Planning Report



Database:	EDM 2003.14 Single User Db	Local Co-ordinate Reference:	Well Gregory Federal A #1B
Company:	XTO Energy	TVD Reference:	Rig KB @ 7273.0ft (Aztec #545)
Project:	T28N, R04W	MD Reference:	Rig KB @ 7273.0ft (Aztec #545)
Site:	Gregory Federal A #1B	North Reference:	Grid
Well:	Gregory Federal A #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gregory Federal A #1B		
Design:	S-Well Configuration		

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)	
4,200.0	0.00	327.85	4,085.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,300.0	0.00	327.85	4,185.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,300.1	0.00	327.85	4,186.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Pictured Cliffs SS										
4,314.1	0.00	327.85	4,200.0	700.0	-440.0	826.8	0.00	0.00	0.00	
7"										
4,400.0	0.00	327.85	4,285.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,500.0	0.00	327.85	4,385.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,589.1	0.00	327.85	4,475.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Lewis Shale										
4,600.0	0.00	327.85	4,485.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,700.0	0.00	327.85	4,585.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,800.0	0.00	327.85	4,685.9	700.0	-440.0	826.8	0.00	0.00	0.00	
4,900.0	0.00	327.85	4,785.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,000.0	0.00	327.85	4,885.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,100.0	0.00	327.85	4,985.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,200.0	0.00	327.85	5,085.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,293.1	0.00	327.85	5,179.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Chacra SS										
5,300.0	0.00	327.85	5,185.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,400.0	0.00	327.85	5,285.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,500.0	0.00	327.85	5,385.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,600.0	0.00	327.85	5,485.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,700.0	0.00	327.85	5,585.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,800.0	0.00	327.85	5,685.9	700.0	-440.0	826.8	0.00	0.00	0.00	
5,900.0	0.00	327.85	5,785.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,000.0	0.00	327.85	5,885.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,014.1	0.00	327.85	5,900.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Gregory Federal A #1B										
6,070.1	0.00	327.85	5,956.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Cliffhouse SS										
6,100.0	0.00	327.85	5,985.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,189.1	0.00	327.85	6,075.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Menefee										
6,200.0	0.00	327.85	6,085.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,300.0	0.00	327.85	6,185.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,400.0	0.00	327.85	6,285.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,480.1	0.00	327.85	6,366.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Point Lookout SS										
6,500.0	0.00	327.85	6,385.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,600.0	0.00	327.85	6,485.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,700.0	0.00	327.85	6,585.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,800.0	0.00	327.85	6,685.9	700.0	-440.0	826.8	0.00	0.00	0.00	
6,810.1	0.00	327.85	6,696.0	700.0	-440.0	826.8	0.00	0.00	0.00	
Mancos Shale										
6,900.0	0.00	327.85	6,785.9	700.0	-440.0	826.8	0.00	0.00	0.00	
7,000.0	0.00	327.85	6,885.9	700.0	-440.0	826.8	0.00	0.00	0.00	
7,014.1	0.00	327.85	6,900.0	700.0	-440.0	826.8	0.00	0.00	0.00	

XTO Energy, Inc.
Planning Report



Database: EDM 2003.14 Single User Db
Company: XTO Energy
Project: T28N, R04W
Site: Gregory Federal A #1B
Well: Gregory Federal A #1B
Wellbore: Gregory Federal A #1B
Design: S-Well Configuration

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Gregory Federal A #1B
Rig KB @ 7273.0ft (Aztec #545)
Rig KB @ 7273.0ft (Aztec #545)
Grid
Minimum Curvature

Targets

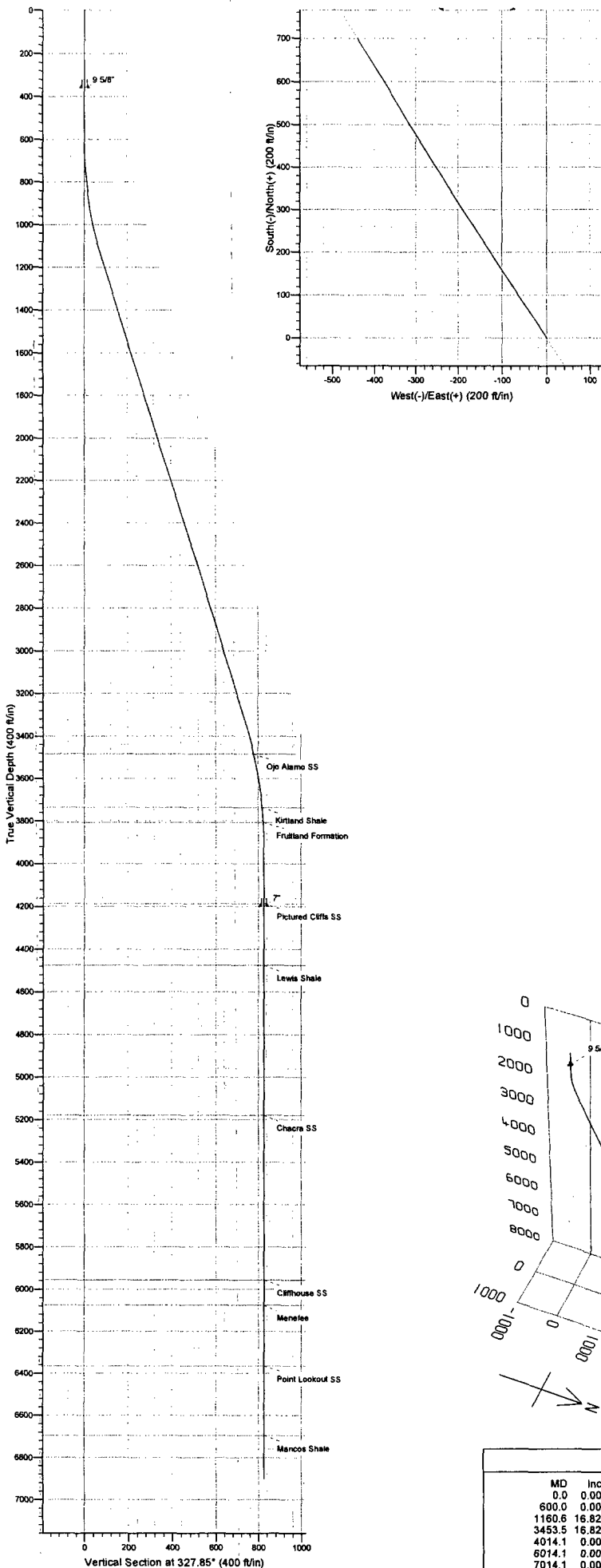
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Gregory Federal A #1B	0.00	0.00	5,900.0	700.0	-440.0	2,050,260.01	672,922.77	36° 37' 59.449 N	107° 14' 38.345 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
360.0	360.0	9 5/8"	9-5/8	12-1/4
4,314.1	4,200.0	7"	7	8-3/4
	7,000.0	4-1/2"	4-1/2	6-1/8

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,593.7	3,483.0	Ojo Alamo SS	Sandstone		
3,850.9	3,737.0	Kirtland Shale	Shale		
3,922.1	3,808.0	Fruitland Formation			
4,300.1	4,186.0	Pictured Cliffs SS	Sandstone		
4,589.1	4,475.0	Lewis Shale	Shale		
5,293.1	5,179.0	Chacra SS	Sandstone		
6,070.1	5,956.0	Cliffhouse SS	Sandstone		
6,189.1	6,075.0	Menefee	Sandstone		
6,480.1	6,366.0	Point Lookout SS			
6,810.1	6,696.0	Mancos Shale	Shale		



WELL DETAILS: Gregory Federal A #1B

Ground Level: 7261.0
-1980.0 FNL
900.0 FWL

Name	TVD	+N/-S	+E/-W	Shape
Gregory Federal A #1B	5900.0	700.0	-440.0	Point

Project: T28N, R04W
Site: Gregory Federal A #1B
Well: Gregory Federal A #1B
Wellbore: Gregory Federal A #1B
S-Well Configuration

FORMATION TOP DETAILS

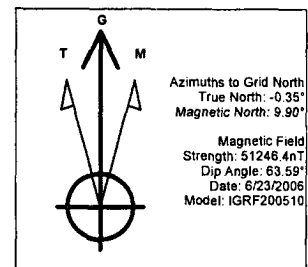
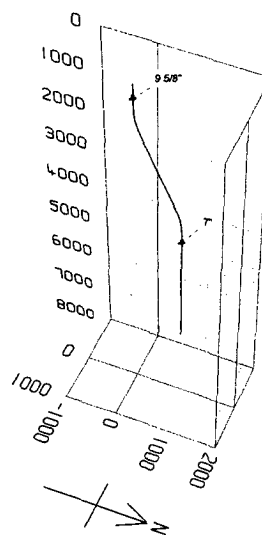
TVDPathMDPath	Formation
3483.0 3593.7	Ojo Alamo SS
3737.0 3850.9	Kirtland Shale
3808.0 3922.1	Fruitland Formation
4186.0 4300.1	Pictured Cliffs SS
4475.0 4589.1	Lewis Shale
5179.0 5293.1	Chacra SS
5956.0 6070.1	Cliffhouse SS
6075.0 6189.1	Menefee
6366.0 6480.1	Point Lookout SS
6696.0 6810.1	Mancos Shale

CASING DETAILS

TVD	MD	Name	Size
360.0	360.0	9 5/8"	9-5/8
4200.0	4314.1	7"	7
7000.0		4-1/2"	4-1/2

PROJECT DETAILS: T28N, R04W

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



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg TFace	VSec	Target
0.0	0.00327.85	0.0	0.0	0.0	0.0	0.00	0.00	0.0
600.0	0.00327.85	600.0	0.0	0.0	0.0	0.00	0.00	0.0
1160.6	16.82327.85	1152.6	69.2	-43.5	3.00327.85	81.7		
3453.5	16.82327.85	3347.4	630.8	-396.5	0.00	0.00	745.1	
4014.1	0.00327.85	3900.0	700.0	-440.0	3.00180.00	826.8		
6014.1	0.00327.85	5900.0	700.0	-440.0	0.00	0.00	826.8	Gregory Federal A #1B
7014.1	0.00327.85	6900.0	700.0	-440.0	0.00327.85	826.8		