

RECEIVED

AUG 19 2008

Form 3160-3
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTBureau of Land Management
Farmington Field OfficeFORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMSF-078099
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator XTO ENERGY INC		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 382 ROAD 3100 AZTEC, NM 87410	3b. Phone No. (include area code) (505) 333-3159	8. Lease Name and Well No. GINTHER 21 H
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface A 1215' FNL & 1220' FEL At proposed prod. zone 700' FSL & 700' FEL		9. API Well No. 30-045-34773
14. Distance in miles and direction from nearest town or post office* 9 AIR MILES SOUTH OF FARMINGTON		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 700'		11. Sec., T. R. M. or Blk. and Survey or Area A 13-27N-13W NMPM
16. No. of acres in lease 440	17. Spacing Unit dedicated to this well E2 (= 320 acres)	12. County or Parish SAN JUAN
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 604' (GINTHER 1)	19. Proposed Depth 4,343' MD	13. State NM
20. BLM/BIA Bond No. on file BLM NATIONWIDE UTB000138	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,835' GL	22. Approximate date work will start* 12/01/2008
23. Estimated duration 4 WEEKS		

24. Attachments

RCVD MAR 23 '10

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

OIL CONS. DIV.

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

DIST. 3

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 08/09/2008
Title CONSULTANT		
PHONE: (505) 466-8120 FAX: (505) 466-9682		

Approved by (Signature) 	Name (Printed/Typed)	Date 3/22/10
Title Acting AFM N. Mendenhall	Office	

Application approval 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.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on page 2)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

Hold C104

for Directional Survey
and "As Drilled" plat

APR 05 2010

NMOC

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT
SUGGESTION FOR CEMENT ATTACHED
"GENERAL REQUIREMENTS"

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

RECEIVED

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South 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

AUG 19 2008

Bureau of Land Management
Farmington Field Office

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 30-045-34773		² Pool Code 71629		³ Pool Name BASIN FRUITLAND COAL GAS	
⁴ Property Code 22723		⁵ Property Name GINTHER			⁶ Well Number 21 H
⁷ OGRID No. 5380		⁸ Operator Name XTO ENERGY INC.			⁹ Elevation 5835

¹⁰ Surface Location

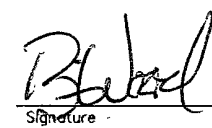
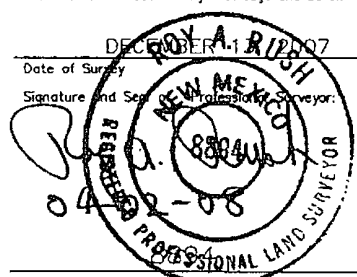
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	13	27-N	13-W		1215	NORTH	1220	EAST	SAN JUAN

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
P	13	27-N	13-W		700	SOUTH	700	EAST	SAN JUAN

¹² Dedicated Acres E/2 320		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

¹⁶ FD. 2 1/2" BC. 1911 G.L.O. S 89-58-15 W 5285.30' (M)		¹⁷ FD. 3 1/4" BC. 1911 G.L.O. 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 Date 8-9-08 Printed Name BRIAN WOOD (505) 466-8120	
SURFACE: LAT: 36.57918° N. (NAD 83) LONG: 108.16571° W. (NAD 83) LAT: 36°34'45.0" N. (NAD 27) LONG: 108°09'54.3" W. (NAD 27)		S 00-02-22 W 2642.07' (M)	
13 BOTTOM HOLE: LAT: 36.56993° N. (NAD 83) LONG: 108.16394° W. (NAD 83) LAT: 36°34'11.7" N. (NAD 27) LONG: 108°09'50.2" W. (NAD 27)		FD. 2 1/2" BC. 1911 G.L.O. 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 knowledge and belief. Date of Survey Signature and Seal of Registered Professional Surveyor:  Certificate Number	
B.H.L. B.H.L. FOOTAGES ARE APPROXIMATE AND PROVIDED BY XTO ENERGY INC. CUEBT		S 89-55-14 W 2736.20' (M) FD. 2 1/2" BC. 1911 G.L.O.	

XTO Energy Inc.

PAGE 1

Ginther 21

SHL: 1215' FNL & 1220' FEL

BHL: 700' FSL & 700' FEL

Sec. 13, T. 27 N., R. 13 W., San Juan County, NM

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>True Vertical Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	12'	+5,835'
Farmington	475'	489'	+5,360'
Fruitland Formation	940'	952'	+4,895'
Pictured Cliffs Sandstone	1,225'	1,237'	+4,610'
Lewis Shale	1,385'	1,397'	+4,450'
Total Depth (TD)	1,550'	1,562'	+4,285'

2. NOTABLE ZONES

<u>Gas & Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Ojo Alamo	Fruitland
Pictured Cliffs	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to ≈ 200 psi and then to $\approx 1,000$ psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

XTO Energy Inc.

PAGE 2

Ginther 21

SHL: 1215' FNL & 1220' FEL

BHL: 700' FSL & 700' FEL

Sec. 13, T. 27 N., R. 13 W., San Juan County, NM

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure will be ≤ 465 psi. BOP and mud system will control pressure.

4. CASING & CEMENT

<u>Type</u>	<u>Hole</u>	<u>O. D.</u>	<u>Interval</u>	<u>Length</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	12.25"	9.625"	0' - 225'	225'	36#	J-55	S T & C
Intermediate	8.75"	7"	0' - 1550'	1550'	23#	J-55	S T & C
Production liner	6.125"	4.5"	1485' - 4343'	2858'	10.5#	J-55	S T & C

	<u>Collapse</u>	<u>Burst</u>	<u>Joint</u>			<u>*SF</u>	<u>**SF</u>	<u>***SF</u>
<u>Type</u>	<u>Rating psi</u>	<u>Rating psi</u>	<u>Strength</u>	<u>I. D.</u>	<u>Drift</u>	<u>Collapse</u>	<u>Burst</u>	<u>Tensile</u>
Surface	2020	3520	394 M-lbs	8.921"	8.765"	18.76	32.7	48.6
Intermediate	3270	4360	284 M-lbs	6.276"	6.151"	5.77	7.7	6.86
Production liner	4010	4790	132 M-lbs	4.025"	3.927"	6.14	6.7	3.78

* Collapse is based on evacuated annulus & hydrostatic at TVD

** Burst is based on evacuated casing & hydrostatic at TVD

*** Tensile is based on hanging air weight of casing in a vertical hole measured at depth

Ginther 21

SHL: 1215' FNL & 1220' FEL

BHL: 700' FSL & 700' FEL

Sec. 13, T. 27 N., R. 13 W., San Juan County, NM

Surface casing will be cemented to the surface with >100 % excess using $\approx$ 195 cubic feet ($\approx$ 140 sacks) Type III cement (or equivalent) containing accelerator + LCM mixed at 14.5 pounds per gallon, 1.39 cubic feet per sack, and 6.7 gallons water per sack. Centralizers will be installed.

Intermediate casing will be cemented to the surface with >20% excess. Lead with $\approx$ 63 sacks (139.86 cubic feet) premium light or CBM light with accelerator + LCM + dispersant + fluid loss additive mixed at 12.1 pounds per gallon, 2.22 cubic feet per sack, and 12.04 gallons water per sack. Tail with $\approx$ 100 sacks (148 cubic feet) Type III or V with accelerator + LCM + dispersant + fluid loss additive mixed at 14.2 pounds per gallon, 1.48 cubic feet per sack, and 7.34 gallons water per sack. Centralizers will be installed.

Production liner will be set using an uncemented liner hanger. The liner may be tied back to the surface during the well completion.

5. MUD PROGRAM

<u>RANGE</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>VISCOSITY</u>	<u>WATER LOSS</u>
0' - 225'	Fresh-Spud	8.6-9.0	28-32	NC
225' - 1,550'	Fresh-Poly	8.4-8.8	28-32	NC
1,550' - TD	Air Mist	N/A	N/A	NC

Will 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. Use Fruitland coal produced water as make-up water for mist fluid. Pump enough fluid to dampen vibration at directional bottom hole assembly. If directional control is not maintainable in air/mist environment, then convert to polymer mud.

XTO Energy Inc.

PAGE 5

Ginther 21

SHL: 1215' FNL & 1220' FEL

BHL: 700' FSL & 700' FEL

Sec. 13, T. 27 N., R. 13 W., San Juan County, NM

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Mud logger will arrive at $\approx 225'$ and collect samples from there to TD. A gamma ray open hole log will be run from $\approx 225'$ to TD.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 465 psi.

8. OTHER INFORMATION

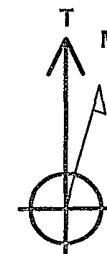
The anticipated spud date is upon approval. It is expected it will take about four weeks to drill and complete the well. Directional well bore views and data are at the back of the APD.



Well Name: Ginther #21

San Juan Basin
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 36° 34' 45.048 N
Long: 108° 9' 56.556 W



Azimuths to True North
Magnetic North: 10.40°

Magnetic Field
Strength: 50917.8nT
Dip Angle: 63.32°
Date: 5/21/2008
Model: IGRF200510

SECTION DETAILS

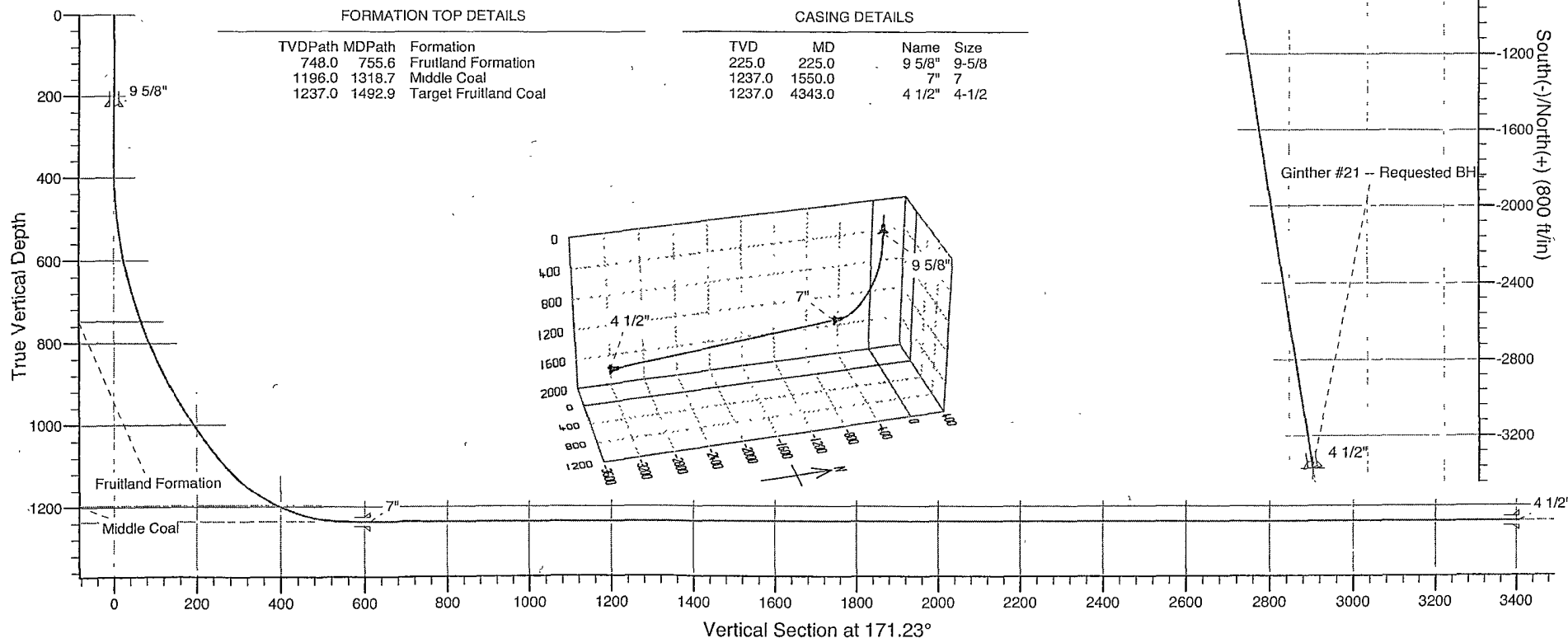
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	364.0	0.00	0.00	364.0	0.0	0.0	0.00	0.00	0.0	
3	365.0	0.05	171.23	365.0	0.0	0.0	5.00	171.23	0.0	
4	1164.0	40.00	171.23	1100.6	-265.0	40.9	5.00	0.00	268.1	Ginther #21 -- Requested BHL
5	1165.0	40.15	171.23	1101.3	-265.6	41.0	15.00	0.00	268.7	
6	1497.3	90.00	171.23	1237.0	-554.1	85.5	15.00	0.00	560.7	Ginther #21 -- Requested BHL
7	4343.9	90.00	171.23	1237.0	-3367.4	519.8	0.00	0.00	3407.3	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
748.0	755.6	Fruitland Formation
1196.0	1318.7	Middle Coal
1237.0	1492.9	Target Fruitland Coal

CASING DETAILS

TVD	MD	Name	Size
225.0	225.0	9 5/8"	9-5/8
1237.0	1550.0	7"	7
1237.0	4343.0	4 1/2"	4-1/2



XTO Energy, Inc.

Planning Report

Database:	EDM 2003.14 Single User Db	Local Co-ordinate Reference:	Well Ginther #21
Company:	XTO Energy	TVD Reference:	Rig KB @ 5847.0ft (AWS #545)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5847.0ft (AWS #545)
Site:	Ginther #21	North Reference:	True
Well:	Ginther #21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ginther #21		
Design:	Permitted Wellbore		

Project:	San Juan Basin (NAD 83), San Juan Co., NM, Directional wells in T30N, R12W (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site:		Ginther #21, T27N, R13W			
Site Position:		Northing:	2,030,299.56 ft	Latitude:	36° 34' 45.048 N
From:	Lat/Long	Easting:	2,625,502.58 ft	Longitude:	108° 9' 56.556 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.20 °

Well	Ginther #21, Horizontal Fruitland Coal					
Well Position	+N/-S	0.0 ft	Northing:	2,030,299.56 ft	Latitude:	36° 34' 45.048 N
	+E/-W	0.0 ft	Easting:	2,625,502.58 ft	Longitude:	108° 9' 56.556 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,835.0 ft	Ground Level:	5,835.0 ft	

Wellbore:	Ginther #21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/21/2008	10.40	63.33	50,918

Design:	Permitted Wellbore			
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	171.23

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	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
364.0	0.00	0.00	364.0	0.0	0.0	0.00	0.00	0.00	0.00	
365.0	0.05	171.23	365.0	0.0	0.0	5.00	5.00	0.00	171.23	
1,164.0	40.00	171.23	1,100.6	-265.0	40.9	5.00	5.00	0.00	0.00	Ginther #21 -- Request
1,165.0	40.15	171.23	1,101.3	-265.6	41.0	15.00	15.00	0.00	0.00	
1,497.3	90.00	171.23	1,237.0	-554.1	85.5	15.00	15.00	0.00	0.00	Ginther #21 -- Request
4,343.9	90.00	171.23	1,237.0	-3,367.4	519.8	0.00	0.00	0.00	0.00	

XTO Energy, Inc.

Planning Report

Database: EDM 2003.14 Single User Db
 Company: XTO Energy
 Project: San Juan Basin (NAD 83)
 Site: Ginther #21
 Well: Ginther #21
 Wellbore: Ginther #21
 Design: Permitted Wellbore

Local Co-ordinate Reference: Well Ginther #21
 TVD Reference: Rig KB @ 5847.0ft (AWS #545)
 MD Reference: Rig KB @ 5847.0ft (AWS #545)
 North Reference: True
 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	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
225.0	0.00	0.00	225.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
364.0	0.00	0.00	364.0	0.0	0.0	0.0	0.00	0.00	0.00
365.0	0.05	171.23	365.0	0.0	0.0	0.0	5.00	5.00	0.00
400.0	1.80	171.23	400.0	-0.6	0.1	0.6	5.00	5.00	0.00
500.0	6.80	171.23	499.7	-8.0	1.2	8.1	5.00	5.00	0.00
600.0	11.80	171.23	598.3	-23.9	3.7	24.2	5.00	5.00	0.00
700.0	16.80	171.23	695.2	-48.3	7.5	48.9	5.00	5.00	0.00
755.6	19.58	171.23	748.0	-65.5	10.1	66.3	5.00	5.00	0.00
Fruitland Formation									
800.0	21.80	171.23	789.6	-81.0	12.5	81.9	5.00	5.00	0.00
900.0	26.80	171.23	880.7	-121.6	18.8	123.1	5.00	5.00	0.00
1,000.0	31.80	171.23	967.8	-170.0	26.2	172.0	5.00	5.00	0.00
1,100.0	36.80	171.23	1,050.4	-225.7	34.8	228.3	5.00	5.00	0.00
1,164.0	40.00	171.23	1,100.6	-265.0	40.9	268.1	5.00	5.00	0.00
Ginther #21 -- Requested BHL									
1,165.0	40.15	171.23	1,101.3	-265.6	41.0	268.7	15.00	15.00	0.00
1,175.0	41.65	171.23	1,108.9	-272.1	42.0	275.3	15.00	15.00	0.00
1,200.0	45.40	171.23	1,127.0	-289.1	44.6	292.5	15.00	15.00	0.00
1,225.0	49.15	171.23	1,144.0	-307.2	47.4	310.9	15.00	15.00	0.00
1,250.0	52.90	171.23	1,159.7	-326.4	50.4	330.3	15.00	15.00	0.00
1,275.0	56.65	171.23	1,174.1	-346.6	53.5	350.7	15.00	15.00	0.00
1,300.0	60.40	171.23	1,187.2	-367.7	56.8	372.0	15.00	15.00	0.00
1,318.7	63.20	171.23	1,196.0	-383.9	59.3	388.5	15.00	15.00	0.00
Middle Coal									
1,325.0	64.15	171.23	1,198.8	-389.5	60.1	394.2	15.00	15.00	0.00
1,350.0	67.90	171.23	1,209.0	-412.1	63.6	417.0	15.00	15.00	0.00
1,375.0	71.65	171.23	1,217.6	-435.3	67.2	440.4	15.00	15.00	0.00
1,400.0	75.40	171.23	1,224.7	-459.0	70.8	464.4	15.00	15.00	0.00
1,425.0	79.15	171.23	1,230.2	-483.1	74.6	488.8	15.00	15.00	0.00
1,450.0	82.90	171.23	1,234.1	-507.5	78.3	513.5	15.00	15.00	0.00
1,475.0	86.65	171.23	1,236.4	-532.1	82.1	538.4	15.00	15.00	0.00
1,492.9	89.34	171.23	1,237.0	-549.8	84.9	556.3	15.00	15.00	0.00
Target Fruitland Coal									
1,497.3	90.00	171.23	1,237.0	-554.1	85.5	560.7	15.00	15.00	0.00
1,500.0	90.00	171.23	1,237.0	-556.8	85.9	563.4	0.00	0.00	0.00
1,550.0	90.00	171.23	1,237.0	-606.2	93.6	613.4	0.00	0.00	0.00
7"									
1,600.0	90.00	171.23	1,237.0	-655.6	101.2	663.4	0.00	0.00	0.00
1,700.0	90.00	171.23	1,237.0	-754.4	116.4	763.4	0.00	0.00	0.00
1,800.0	90.00	171.23	1,237.0	-853.3	131.7	863.4	0.00	0.00	0.00
1,900.0	90.00	171.23	1,237.0	-952.1	147.0	963.4	0.00	0.00	0.00
2,000.0	90.00	171.23	1,237.0	-1,050.9	162.2	1,063.4	0.00	0.00	0.00
2,100.0	90.00	171.23	1,237.0	-1,149.8	177.5	1,163.4	0.00	0.00	0.00
2,200.0	90.00	171.23	1,237.0	-1,248.6	192.7	1,263.4	0.00	0.00	0.00
2,300.0	90.00	171.23	1,237.0	-1,347.4	208.0	1,363.4	0.00	0.00	0.00
2,400.0	90.00	171.23	1,237.0	-1,446.2	223.2	1,463.4	0.00	0.00	0.00
2,500.0	90.00	171.23	1,237.0	-1,545.1	238.5	1,563.4	0.00	0.00	0.00
2,600.0	90.00	171.23	1,237.0	-1,643.9	253.7	1,663.4	0.00	0.00	0.00

XTO Energy, Inc.

Planning Report

Database: EDM 2003.14 Single User Db
 Company: XTO Energy
 Project: San Juan Basin (NAD 83)
 Site: Ginther #21
 Well: Ginther #21
 Wellbore: Ginther #21
 Design: Permitted Wellbore

Local Co-ordinate Reference: Well Ginther #21
 TVD Reference: Rig KB @ 5847.0ft (AWS #545)
 MD Reference: Rig KB @ 5847.0ft (AWS #545)
 North Reference: True
 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)
2,700.0	90.00	171.23	1,237.0	-1,742.7	269.0	1,763.4	0.00	0.00	0.00
2,800.0	90.00	171.23	1,237.0	-1,841.6	284.2	1,863.4	0.00	0.00	0.00
2,900.0	90.00	171.23	1,237.0	-1,940.4	299.5	1,963.4	0.00	0.00	0.00
3,000.0	90.00	171.23	1,237.0	-2,039.2	314.8	2,063.4	0.00	0.00	0.00
3,100.0	90.00	171.23	1,237.0	-2,138.0	330.0	2,163.4	0.00	0.00	0.00
3,200.0	90.00	171.23	1,237.0	-2,236.9	345.3	2,263.4	0.00	0.00	0.00
3,300.0	90.00	171.23	1,237.0	-2,335.7	360.5	2,363.4	0.00	0.00	0.00
3,400.0	90.00	171.23	1,237.0	-2,434.5	375.8	2,463.4	0.00	0.00	0.00
3,500.0	90.00	171.23	1,237.0	-2,533.4	391.0	2,563.4	0.00	0.00	0.00
3,600.0	90.00	171.23	1,237.0	-2,632.2	406.3	2,663.4	0.00	0.00	0.00
3,700.0	90.00	171.23	1,237.0	-2,731.0	421.5	2,763.4	0.00	0.00	0.00
3,800.0	90.00	171.23	1,237.0	-2,829.9	436.8	2,863.4	0.00	0.00	0.00
3,900.0	90.00	171.23	1,237.0	-2,928.7	452.0	2,963.4	0.00	0.00	0.00
4,000.0	90.00	171.23	1,237.0	-3,027.5	467.3	3,063.4	0.00	0.00	0.00
4,100.0	90.00	171.23	1,237.0	-3,126.3	482.5	3,163.4	0.00	0.00	0.00
4,200.0	90.00	171.23	1,237.0	-3,225.2	497.8	3,263.4	0.00	0.00	0.00
4,300.0	90.00	171.23	1,237.0	-3,324.0	513.1	3,363.4	0.00	0.00	0.00
4,343.0	90.00	171.23	1,237.0	-3,366.5	519.6	3,406.4	0.00	0.00	0.00
4 1/2"									
4,343.9	90.00	171.23	1,237.0	-3,367.4	519.8	3,407.3	0.00	0.00	0.00

Targets

Target Name	- hit/miss target	Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Ginther #21 -- Requeste	- hit/miss target	- plan hits target	0.00	0.00	1,237.0	-3,367.4	519.8	2,026,930.35	2,626,010.69	36° 34' 11.748 N	108° 9' 50.184 W
	- Rectangle (sides W30.0 H30.0 D9.0)										

Casing Points

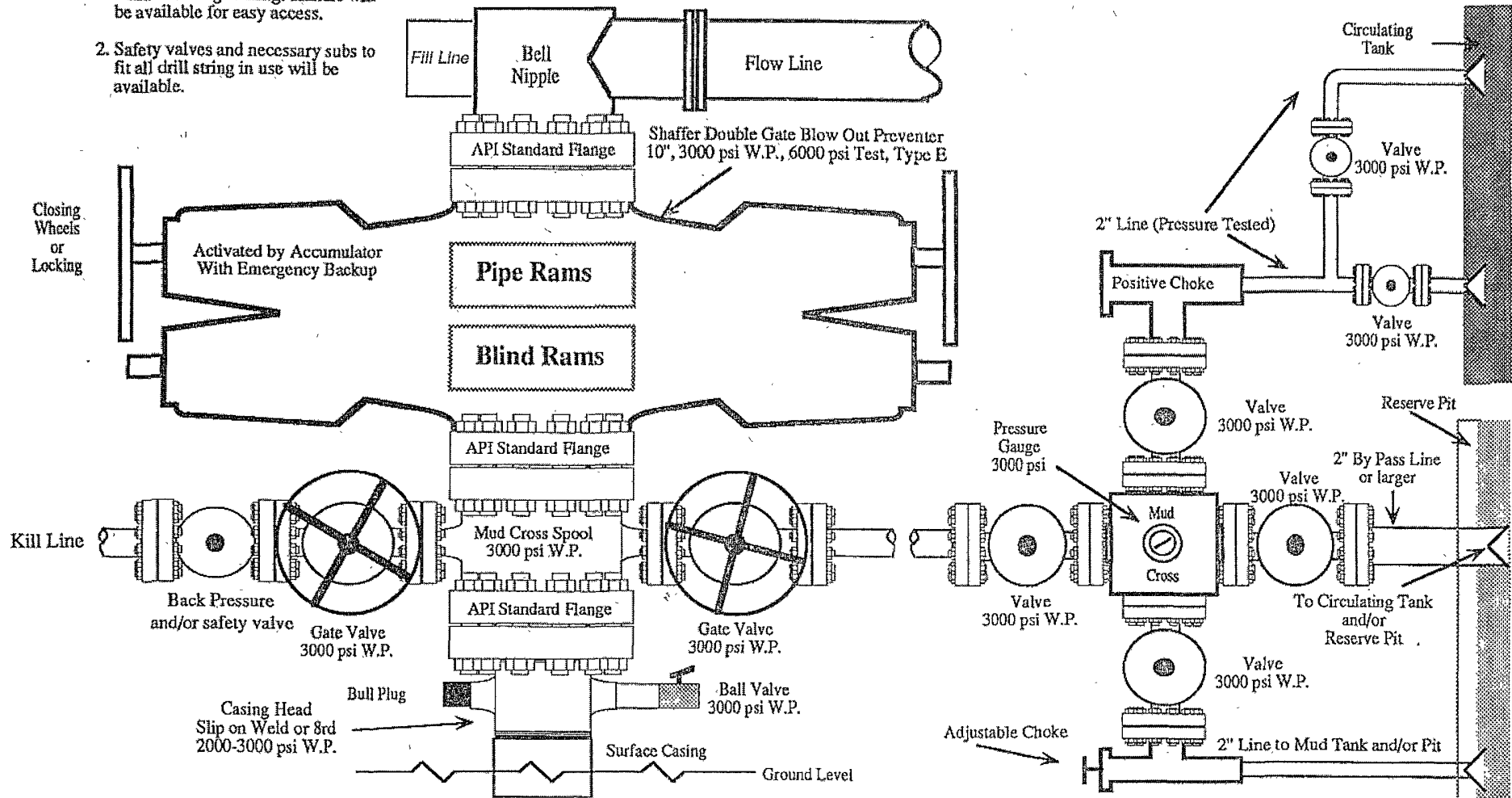
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
225.0	225.0	9 5/8"	9-5/8	12-1/4
1,550.0	1,237.0	7"	7	8-3/4
4,343.0	1,237.0	4 1/2"	4-1/2	6-1/8

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
755.6	748.0	Fruitland Formation		0.00	
1,318.7	1,196.0	Middle Coal	Coal	0.00	
1,492.9	1,237.0	Target Fruitland Coal	Coal	0.00	

2,000 PSI BOP SYSTEM

- Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.
2. Safety valves and necessary subs to fit all drill string in use will be available.



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.