

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 08 2020

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

5. Lease Serial No.
NMNM05039A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.
891000303X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
POKER LAKE UNIT 21 BD 703H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-015-45702-00-X1

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

10. Field and Pool or Exploratory Area
WILDCAT - BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T25S R30E SESW 395FSL 1659FWL
32.109463 N Lat, 103.889450 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ 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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

XTO Permian Operating, LLC requests permission to make the following changes to the original APD:

✓ Change formation from Corral Canyon Bone Spring South (Oil) to Purple Sage Wolfcamp (Gas).

Update the casing/cement design per the attached drilling program.

XTO requests to not utilize centralizers in the curve and lateral.

In addition, XTO requests a variance to be able to batch drill these wells if necessary. In doing so, XTO will set intermediate casing and ensure that the well is cemented properly and the well is dead. With floats holding, no pressure on the intermediate csg annulus, and the installation of a TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the surface and intermediate for the remaining wells on the pad. Once surface and intermediate are all completed

REC'D/MIDLAND
DEC 26 2019SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #494660 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/05/2019 (20PP0581SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature

(Electronic Submission)

Date 12/05/2019

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

DEC 17 2019

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.

BUREAU OF LAND MANAGEMENT

ROSWELL FIELD OFFICE

Office

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 REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #494660 that would not fit on the form

32. Additional remarks, continued

XTO will begin drilling the production hole on each of the wells.

Poker Lake Unit 29 BS 703H ? 30-015-45702

Poker Lake Unit 29 BS 903H ? 30-015-45703

Poker Lake Unit 29 BS 104H ? 30-015-45512

Poker Lake Unit 29 BS 123H ? 30-015-45514

Poker Lake Unit 29 BS 124H ? 30-015-45515

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

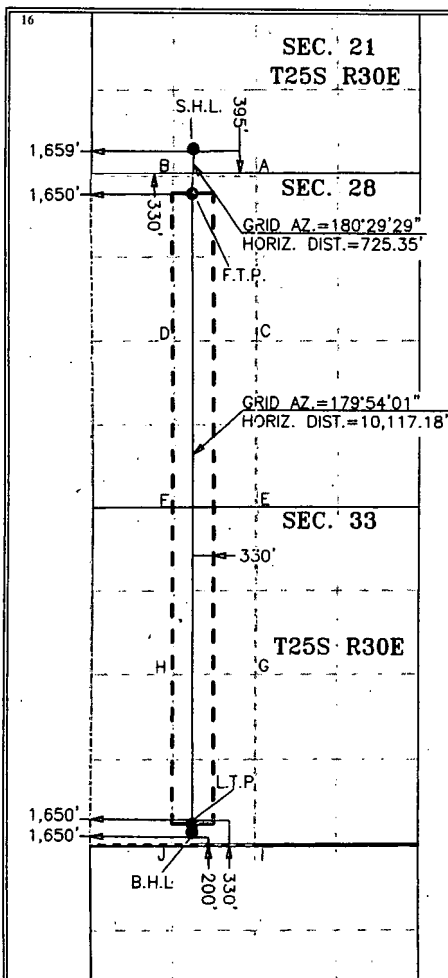
¹ API Number 30-015-45702	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 21 BD	⁶ Well Number 703H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,228'

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
N	21	25 S	30 E		395	SOUTH	1,659	WEST	EDDY

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
N	33	25 S	30 E		200	SOUTH	1,650	WEST	EDDY

¹² Dedicated Acres 640	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.



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.

Kelly Kardos

11/18/19

Signature

Date

Kelly Kardos

Printed Name

kelly_kardos@xtoenergy.com

E-mail Address

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.

11-11-2019

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

LB/JC

2017071071

Intent ☒ As Drilled ☐

API #
30-015-45702

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 21 BD	Well Number 703H
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Kick Off Point (KOP)

UL N	Section 21	Township 25S	Range 30E	Lot	Feet 395	From N/S South	Feet 1659	From E/W West	County Eddy
Latitude 32.109464					Longitude -103.889448			NAD NAD83	

First Take Point (FTP)

UL C	Section 28	Township 25S	Range 30E	Lot	Feet 330	From N/S North	Feet 1650	From E/W West	County Eddy
Latitude 32.107470					Longitude -103.889478			NAD NAD83	

Last Take Point (LTP)

UL N	Section 33	Township 25S	Range 30E	Lot	Feet 330	From N/S South	Feet 1650	From E/W West	County Eddy
Latitude 32.080017					Longitude -103.889522			NAD NAD83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ N

Is this well an infill well?

☐ Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-45621

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 21 BD	Well Number 701H
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KZ 06/29/2018

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
Poker Lake Unit 21 Brushy Draw 703H
Projected TD: 22527' MD / 11931' TVD
SHL: 355' FSL & 1920' FWL , Section 21, T25S, R30E
BHL: 200' FSL & 1650' FWL , Section 33, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1021'	Water
Top of Salt	1281'	Water
Base of Salt	3561'	Water
Delaware	3786'	Water
Bone Spring	6572'	Water
1st Bone Spring Ss	8561'	Water/Oil/Gas
2nd Bone Spring Ss	9361'	Water/Oil/Gas
3rd Bone Spring Ss	10511'	Water/Oil/Gas
Wolfcamp A	10986'	Water/Oil/Gas
Wolfcamp D	11781'	Water/Oil/Gas
Target/Land Curve	11931'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" inch casing @ 1050' (231' above the salt) and circulating cement back to surface. The 9-5/8" intermediate casing will be set at 11100' and bring TOC back 200' inside the previous shoe. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back 500' into the 9-5/8" casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1050'	13 3/8"	68	STC	J-55	New	1.13	4.11	9.45
12-1/4"	0' - 11100'	9-5/8"	40	BTC	HCL-80	New	1.06	1.25	2.13
8-3/4 - 8-1/2"	0' - 22527'	5-1/2"	20	BTC	P-110	New	1.20	1.38	2.10

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Permanent Wellhead - GE RSH Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13 3/8", 68 New J-55, STC casing to be set at +/- 1050'

Lead: 550 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi
TOC @ Surface

Intermediate Casing: 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 11100'

ECP/DV Tool to be set at 4800'

1st Stage

Lead: 1770 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 460 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 980 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.88 ft³/sx, 10.13 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

~~TOC @ 850'~~

must come to surface this only the second string.

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 22527'

Tail: 2230 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft³/sx, 8.38 gal/sx water)

Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP. MASP should not exceed 5441 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nipples up on the 13 3/8", 10M bradenhead and flange, the BOP test will be limited to 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1050'	17-1/2"	FW / Native	8.4-8.8	35-40	NC
1050' - 11100'	12-1/4"	Brine / Cut Brine / WBM	8.8-9.8	30-32	NC
11100' to 22527'	8-3/4"	Cut Brine / WBM / OBM	12.0-13.0	32-36	NC

The necessary mud products for weight addition and fluid loss control will be on location at all times. Spud with fresh water/native mud and set 13 3/8" surface casing, isolating the fresh water aquifer. Drill out from under 13-3/8" surface casing with a brine/oil direct emulsion water-based mud. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13 3/8" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

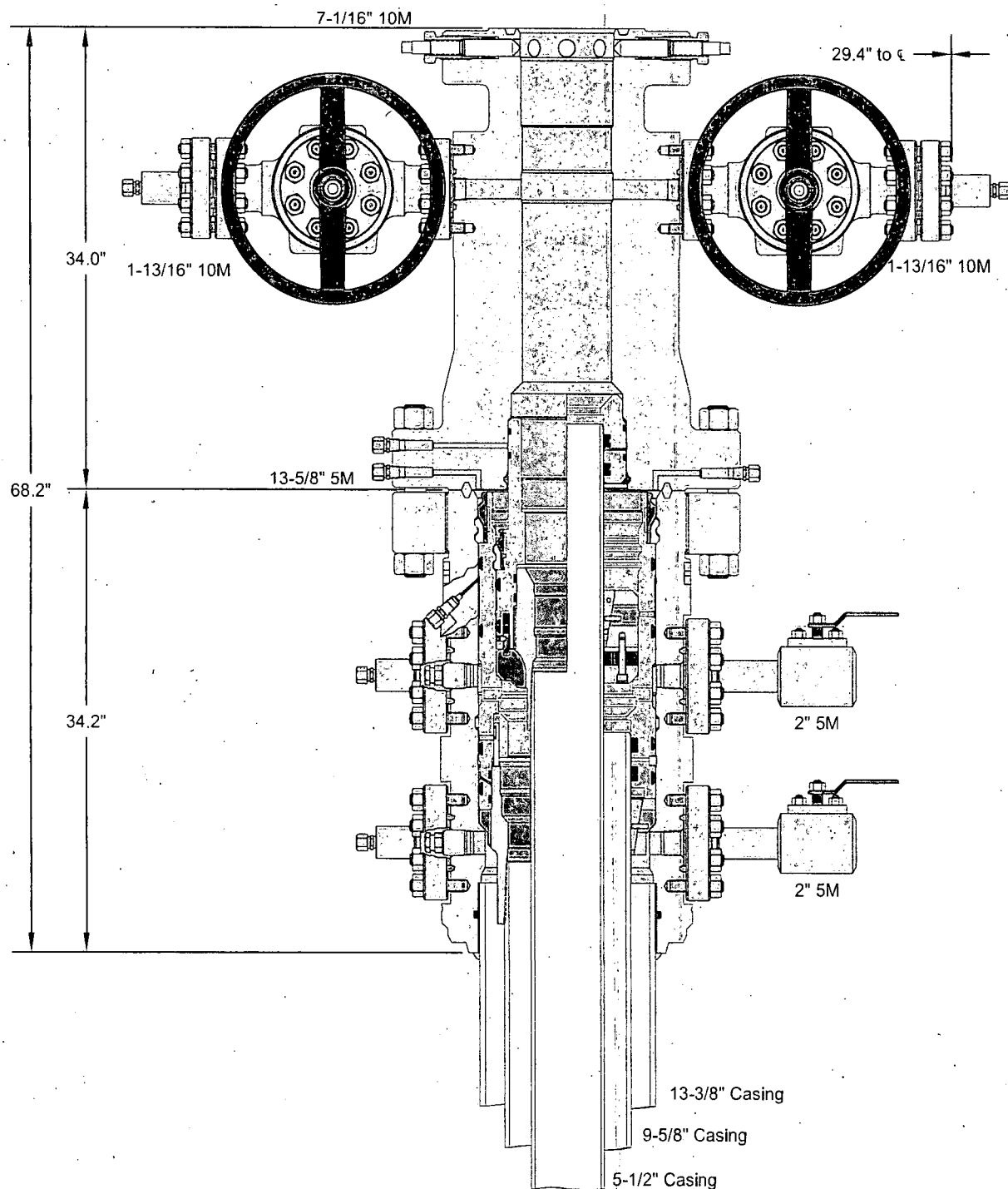
None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 8065 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



GE Oil & Gas



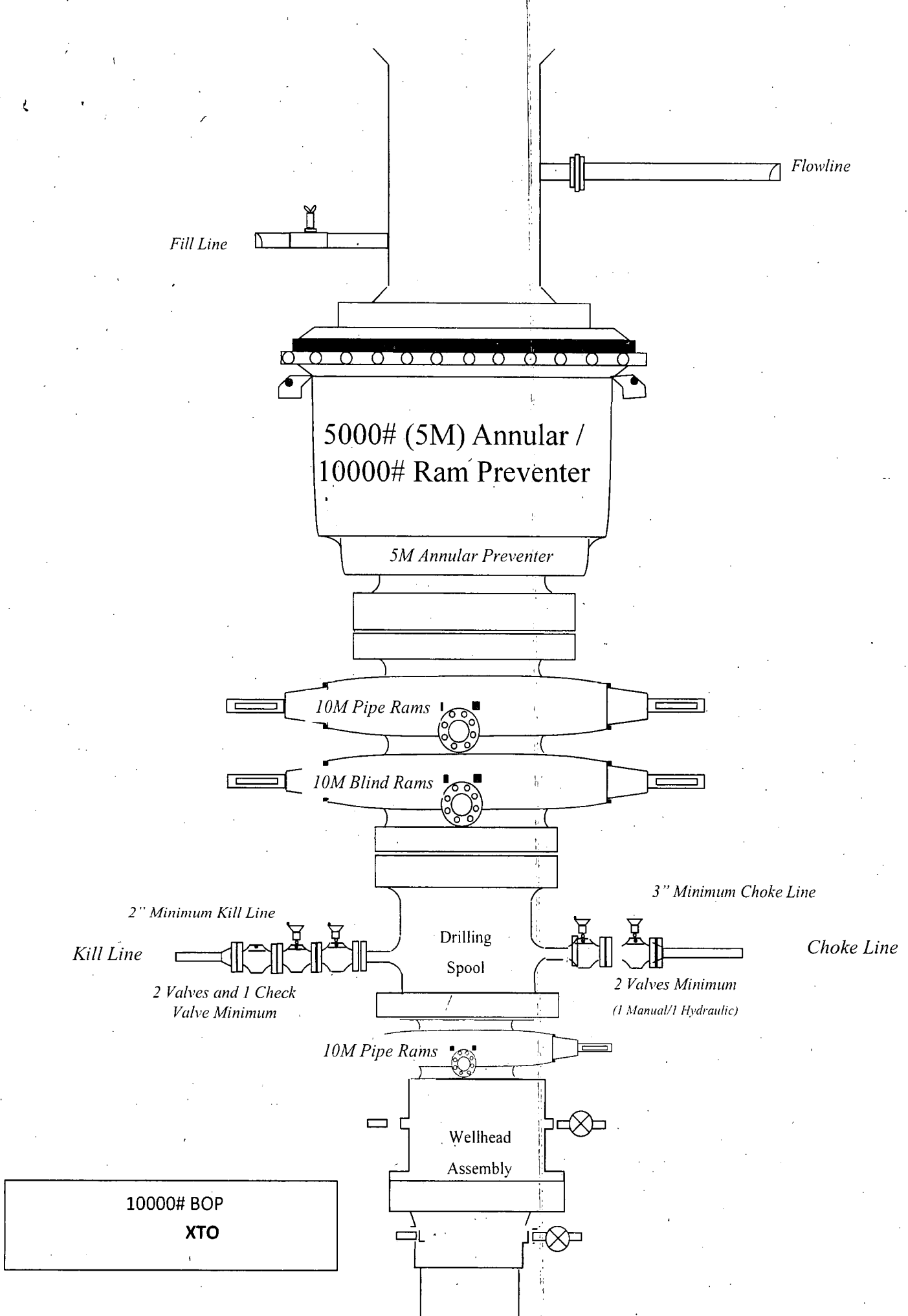
ALL DIMENSIONS ARE APPROXIMATE

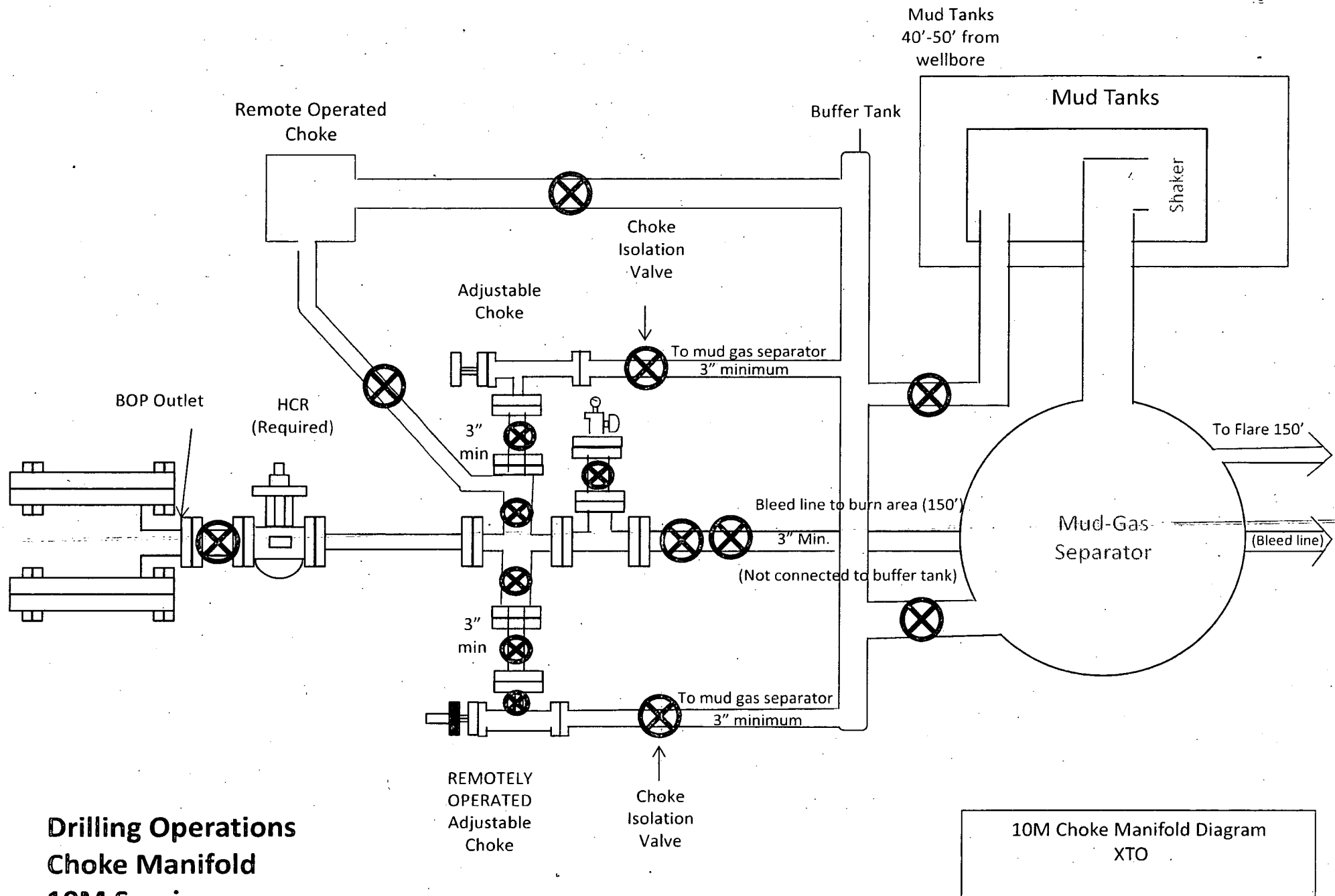
This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

DRAWN	VJK	16FEB17
APPRV	KN	16FEB17
FOR REFERENCE ONLY		
DRAWING NO.		10012842





**Drilling Operations
Choke Manifold
10M Service**

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

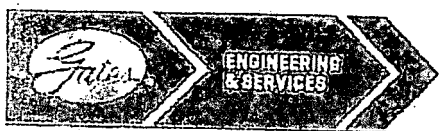
General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
 - iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

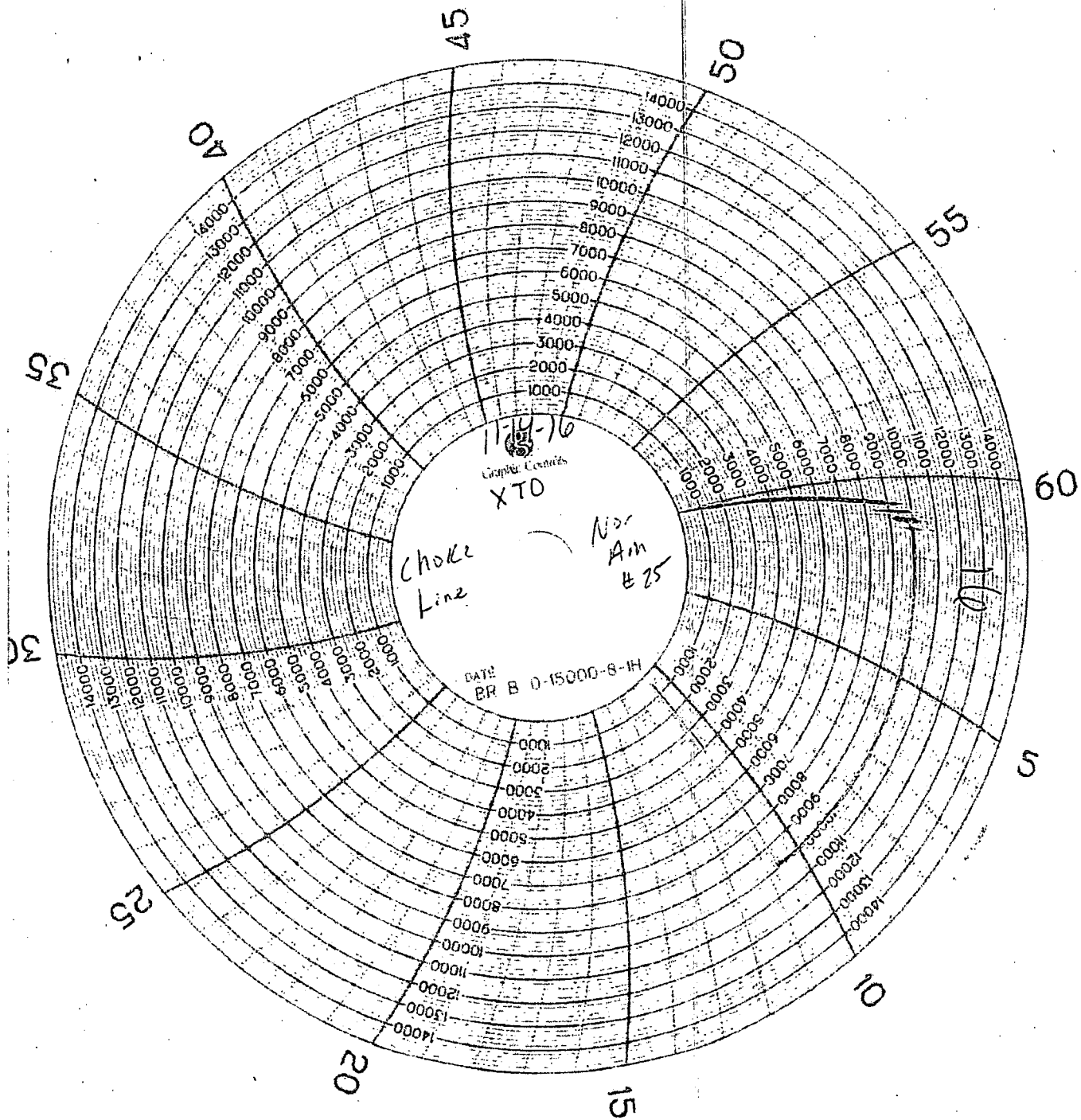
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.0-2.0R41/16.SKFLGE/E LE		
End Fitting 1 :	4 1/16 in.SK FLG	End Fitting 2 :	4 1/16 in.SK FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

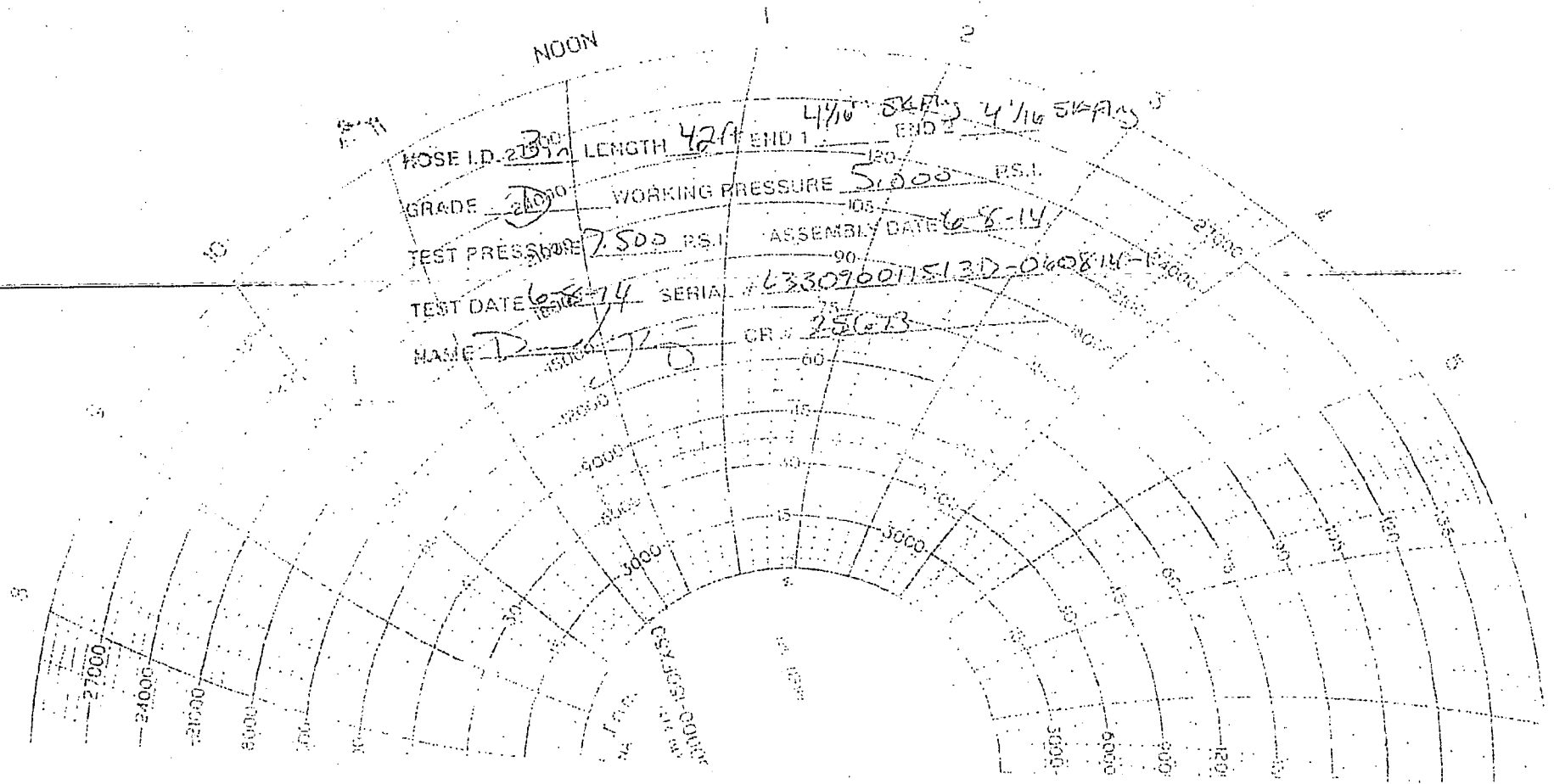
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor:	PRODUCTION
Date:	6/8/2014	Date:	6/8/2014
Signature:		Signature:	



NOON

HOSE I.D. 3 1/2 LENGTH 42 ft END 1 4 1/16 S&P END 2 4 1/16 S&P
GRADE 2400 WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL # 633090011513D-060814-14000
NAME D. J. S. CR # 25613



XTO Energy

3228+33 @ 3261.00usft (X34)
NAD 1927 (NADCON CONUS)

Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Poker Lake Unit 21 BD
Well: 21 BD 703H
Wellbore: 703H Lateral
Design: Plan #1



Azimuths to Grid North
True North: -0.24°
Magnetic North: 6.59°

Magnetic Field -
Strength: 47587.1nT
Dip Angle: 59.88°
Date: 11/27/2019
Model: IGRF2015

FORMATION TOP DETAILS

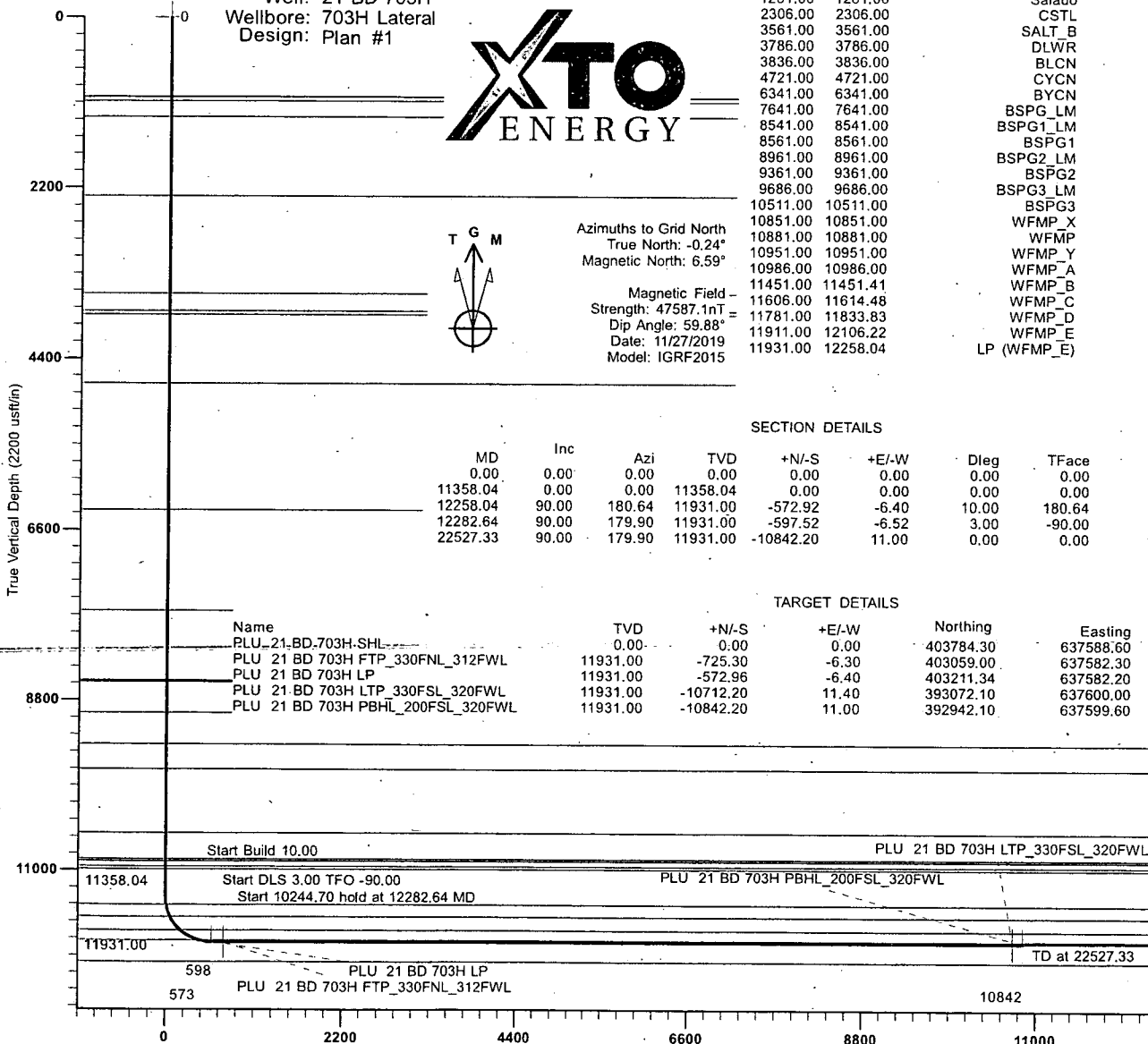
TVDPATH	MDPATH	FORMATION
1021.00	1021.00	RSLR
1026.00	1026.00	T/SALT
1081.00	1081.00	Base RSLR Anhydrite
1281.00	1281.00	Salado
2306.00	2306.00	CSTL
3561.00	3561.00	SALT_B
3786.00	3786.00	DLWR
3836.00	3836.00	BLCN
4721.00	4721.00	CYCN
6341.00	6341.00	BYCN
7641.00	7641.00	BSPG1_LM
8541.00	8541.00	BSPG1_LM
8561.00	8561.00	BSPG1
8961.00	8961.00	BSPG2_LM
9361.00	9361.00	BSPG2
9686.00	9686.00	BSPG3_LM
10511.00	10511.00	BSPG3
10851.00	10851.00	WFMP_X
10881.00	10881.00	WFMP
10951.00	10951.00	WFMP_Y
10986.00	10986.00	WFMP_A
11451.00	11451.41	WFMP_B
11606.00	11614.48	WFMP_C
11781.00	11833.83	WFMP_D
11911.00	12106.22	WFMP_E
11931.00	12258.04	LP (WFMP_E)

SECTION DETAILS

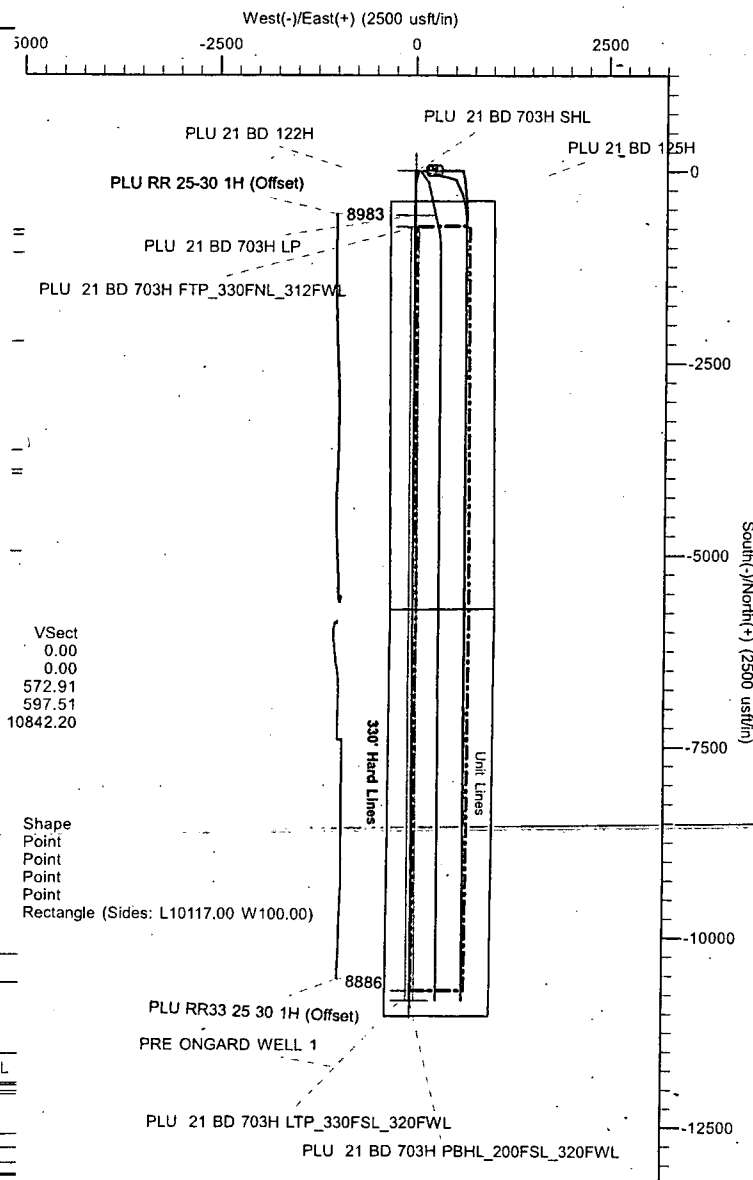
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11358.04	0.00	0.00	11358.04	0.00	0.00	0.00	0.00	0.00
12258.04	90.00	180.64	11931.00	-572.92	-6.40	10.00	180.64	572.91
12282.64	90.00	179.90	11931.00	-597.52	-6.52	3.00	-90.00	597.51
22527.33	90.00	179.90	11931.00	-10842.20	11.00	0.00	0.00	10842.20

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PLU_21 BD 703H SHL	0.00	0.00	0.00	403784.30	637588.60	Point
PLU 21 BD 703H FTP_330FNL_312FWL	11931.00	-725.30	-6.30	403059.00	637582.30	Point
PLU 21 BD 703H LP	11931.00	-572.96	-6.40	403211.34	637582.20	Point
PLU 21 BD 703H LTP_330FSL_320FWL	11931.00	-10712.20	11.40	393072.10	637600.00	Point
PLU 21 BD 703H PBHL_200FSL_320FWL	11931.00	-10842.20	11.00	392942.10	637599.60	Rectangle (Sides: L10117.00 W100.00)



Vertical Section at 179.90° (2200 usft/in)



To convert a Magnetic Direction to a Grid Direction, Add 6.59°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
Magnetic North is 6.59° East of Grid North (Magnetic Convergence)
Magnetic North is 6.83° East of True North (Magnetic Declination)

Plan: Plan #1 (21 BD 703H/703H Lateral)
Created By: Mekka Williams
eSomina Well Design
mekka@esominawelldesign.com
18:29, December 09 2019

PREDATOR DIRECTIONAL
11323 MONARCHS WAY
Montgomery, Texas 77316



Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Project:	Eddy County, NM (NAD27) NMEZ Grid		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Poker Lake Unit 21 BD, 703H		
Site Position:		Northing:	403,784.30 usft
From:	Map	Easting:	637,588.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Grid Convergence:	0.24 °

Well:	21 BD 703H - Slot PLU 21 BD 703H		
Well Position	+N/-S	0.00 usft	Northing: 403,784.30 usft
	+E/-W	0.00 usft	Easting: 637,588.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 3,228.00 usft

Wellbore:	703H Lateral		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/27/19	6.83	59.88	47,587.06795035

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			179.90

Plan Survey Tool Program	Date:	12/09/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,358.04 Plan #1 (703H Lateral)	MWD	
			OWSG MWD - Standard	
2	11,358.04	22,527.33 Plan #1 (703H Lateral)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-SI	

Plan Sections:										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,358.04	0.00	0.00	11,358.04	0.00	0.00	0.00	0.00	0.00	0.00	
12,258.04	90.00	180.64	11,931.00	-572.92	-6.40	10.00	10.00	0.00	180.64	
12,282.64	90.00	179.90	11,931.00	-597.52	-6.52	3.00	0.00	-3.00	-90.00	
22,527.33	90.00	179.90	11,931.00	-10,842.20	11.00	0.00	0.00	0.00	0.00	PLU 21 BD 703H PB

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,021.00	0.00	0.00	1,021.00	0.00	0.00	0.00	0.00	0.00	0.00
RSLR									
1,026.00	0.00	0.00	1,026.00	0.00	0.00	0.00	0.00	0.00	0.00
T/SALT									
1,081.00	0.00	0.00	1,081.00	0.00	0.00	0.00	0.00	0.00	0.00
Base RSLR Anhydrite									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,281.00	0.00	0.00	1,281.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,306.00	0.00	0.00	2,306.00	0.00	0.00	0.00	0.00	0.00	0.00
CSTL									
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,561.00	0.00	0.00	3,561.00	0.00	0.00	0.00	0.00	0.00	0.00
SALT_B									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,786.00	0.00	0.00	3,786.00	0.00	0.00	0.00	0.00	0.00	0.00
DLWR									
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database:	PREDATOR EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,836.00	0.00	0.00	3,836.00	0.00	0.00	0.00	0.00	0.00	0.00
BLCN									
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,721.00	0.00	0.00	4,721.00	0.00	0.00	0.00	0.00	0.00	0.00
CYCN									
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,341.00	0.00	0.00	6,341.00	0.00	0.00	0.00	0.00	0.00	0.00
BYCN									
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,641.00	0.00	0.00	7,641.00	0.00	0.00	0.00	0.00	0.00	0.00
BSPG_LM									
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,541.00	0.00	0.00	8,541.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG1_LM										
8,561.00	0.00	0.00	8,561.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG1										
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,961.00	0.00	0.00	8,961.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG2_LM										
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,361.00	0.00	0.00	9,361.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG2										
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,686.00	0.00	0.00	9,686.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG3_LM										
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,511.00	0.00	0.00	10,511.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSPG3										
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,851.00	0.00	0.00	10,851.00	0.00	0.00	0.00	0.00	0.00	0.00	
WFMP_X										
10,881.00	0.00	0.00	10,881.00	0.00	0.00	0.00	0.00	0.00	0.00	
WFMP										
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,951.00	0.00	0.00	10,951.00	0.00	0.00	0.00	0.00	0.00	0.00	
WFMP_Y										
10,986.00	0.00	0.00	10,986.00	0.00	0.00	0.00	0.00	0.00	0.00	
WFMP_A										
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,358.04	0.00	0.00	11,358.04	0.00	0.00	0.00	0.00	0.00	0.00	
11,400.00	4.20	180.64	11,399.96	-1.54	-0.02	1.54	10.00	10.00	0.00	
11,450.00	9.20	180.64	11,449.61	-7.36	-0.08	7.36	10.00	10.00	0.00	

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,451.41	9.34	180.64	11,451.00	-7.59	-0.08	7.59	10.00	10.00	0.00
WFMP_B									
11,500.00	14.20	180.64	11,498.55	-17.50	-0.20	17.50	10.00	10.00	0.00
11,550.00	19.20	180.64	11,546.43	-31.85	-0.36	31.85	10.00	10.00	0.00
11,600.00	24.20	180.64	11,592.87	-50.33	-0.56	50.33	10.00	10.00	0.00
11,614.48	25.64	180.64	11,606.00	-56.43	-0.63	56.43	10.00	10.00	0.00
WFMP_C									
11,650.00	29.20	180.64	11,637.53	-72.79	-0.81	72.78	10.00	10.00	0.00
11,700.00	34.20	180.64	11,680.06	-99.05	-1.11	99.04	10.00	10.00	0.00
11,750.00	39.20	180.64	11,720.14	-128.91	-1.44	128.91	10.00	10.00	0.00
11,800.00	44.20	180.64	11,757.46	-162.16	-1.81	162.16	10.00	10.00	0.00
11,833.83	47.58	180.64	11,781.00	-186.44	-2.08	186.44	10.00	10.00	0.00
WFMP_D									
11,850.00	49.20	180.64	11,791.74	-198.53	-2.22	198.53	10.00	10.00	0.00
11,900.00	54.20	180.64	11,822.72	-237.75	-2.66	237.75	10.00	10.00	0.00
11,950.00	59.20	180.64	11,850.17	-279.53	-3.12	279.52	10.00	10.00	0.00
12,000.00	64.20	180.64	11,873.87	-323.53	-3.61	323.53	10.00	10.00	0.00
12,050.00	69.20	180.64	11,893.64	-369.44	-4.13	369.43	10.00	10.00	0.00
12,100.00	74.20	180.64	11,909.34	-416.89	-4.66	416.88	10.00	10.00	0.00
12,106.22	74.82	180.64	11,911.00	-422.88	-4.72	422.87	10.00	10.00	0.00
WFMP_E									
12,150.00	79.20	180.64	11,920.84	-465.53	-5.20	465.52	10.00	10.00	0.00
12,200.00	84.20	180.64	11,928.06	-514.99	-5.75	514.97	10.00	10.00	0.00
12,250.00	89.20	180.64	11,930.94	-564.88	-6.31	564.87	10.00	10.00	0.00
12,258.04	90.00	180.64	11,931.00	-572.92	-6.40	572.91	10.00	10.00	0.00
LP (WFMP_E)									
12,282.64	90.00	179.90	11,931.00	-597.52	-6.52	597.51	3.00	0.00	-3.00
12,300.00	90.00	179.90	11,931.00	-614.88	-6.49	614.87	0.00	0.00	0.00
12,400.00	90.00	179.90	11,931.00	-714.88	-6.32	714.87	0.00	0.00	0.00
12,500.00	90.00	179.90	11,931.00	-814.88	-6.14	814.87	0.00	0.00	0.00
12,600.00	90.00	179.90	11,931.00	-914.88	-5.97	914.87	0.00	0.00	0.00
12,700.00	90.00	179.90	11,931.00	-1,014.88	-5.80	1,014.87	0.00	0.00	0.00
12,800.00	90.00	179.90	11,931.00	-1,114.88	-5.63	1,114.87	0.00	0.00	0.00
12,900.00	90.00	179.90	11,931.00	-1,214.88	-5.46	1,214.87	0.00	0.00	0.00
13,000.00	90.00	179.90	11,931.00	-1,314.88	-5.29	1,314.87	0.00	0.00	0.00
13,100.00	90.00	179.90	11,931.00	-1,414.88	-5.12	1,414.87	0.00	0.00	0.00
13,200.00	90.00	179.90	11,931.00	-1,514.88	-4.95	1,514.87	0.00	0.00	0.00
13,300.00	90.00	179.90	11,931.00	-1,614.88	-4.78	1,614.87	0.00	0.00	0.00
13,400.00	90.00	179.90	11,931.00	-1,714.88	-4.61	1,714.87	0.00	0.00	0.00
13,500.00	90.00	179.90	11,931.00	-1,814.88	-4.43	1,814.87	0.00	0.00	0.00
13,600.00	90.00	179.90	11,931.00	-1,914.88	-4.26	1,914.87	0.00	0.00	0.00
13,700.00	90.00	179.90	11,931.00	-2,014.88	-4.09	2,014.87	0.00	0.00	0.00
13,800.00	90.00	179.90	11,931.00	-2,114.88	-3.92	2,114.87	0.00	0.00	0.00
13,900.00	90.00	179.90	11,931.00	-2,214.88	-3.75	2,214.87	0.00	0.00	0.00
14,000.00	90.00	179.90	11,931.00	-2,314.88	-3.58	2,314.87	0.00	0.00	0.00
14,100.00	90.00	179.90	11,931.00	-2,414.88	-3.41	2,414.87	0.00	0.00	0.00
14,200.00	90.00	179.90	11,931.00	-2,514.88	-3.24	2,514.87	0.00	0.00	0.00
14,300.00	90.00	179.90	11,931.00	-2,614.88	-3.07	2,614.87	0.00	0.00	0.00
14,400.00	90.00	179.90	11,931.00	-2,714.88	-2.90	2,714.87	0.00	0.00	0.00
14,500.00	90.00	179.90	11,931.00	-2,814.88	-2.72	2,814.87	0.00	0.00	0.00
14,600.00	90.00	179.90	11,931.00	-2,914.88	-2.55	2,914.87	0.00	0.00	0.00
14,700.00	90.00	179.90	11,931.00	-3,014.88	-2.38	3,014.87	0.00	0.00	0.00
14,800.00	90.00	179.90	11,931.00	-3,114.88	-2.21	3,114.87	0.00	0.00	0.00

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H : Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
14,900.00	90.00	179.90	11,931.00	-3,214.88	-2.04	3,214.87	0.00	0.00	0.00	
15,000.00	90.00	179.90	11,931.00	-3,314.88	-1.87	3,314.87	0.00	0.00	0.00	
15,100.00	90.00	179.90	11,931.00	-3,414.88	-1.70	3,414.87	0.00	0.00	0.00	
15,200.00	90.00	179.90	11,931.00	-3,514.88	-1.53	3,514.87	0.00	0.00	0.00	
15,300.00	90.00	179.90	11,931.00	-3,614.88	-1.36	3,614.87	0.00	0.00	0.00	
15,400.00	90.00	179.90	11,931.00	-3,714.88	-1.19	3,714.87	0.00	0.00	0.00	
15,500.00	90.00	179.90	11,931.00	-3,814.88	-1.02	3,814.87	0.00	0.00	0.00	
15,600.00	90.00	179.90	11,931.00	-3,914.88	-0.84	3,914.87	0.00	0.00	0.00	
15,700.00	90.00	179.90	11,931.00	-4,014.88	-0.67	4,014.87	0.00	0.00	0.00	
15,800.00	90.00	179.90	11,931.00	-4,114.88	-0.50	4,114.87	0.00	0.00	0.00	
15,900.00	90.00	179.90	11,931.00	-4,214.88	-0.33	4,214.87	0.00	0.00	0.00	
16,000.00	90.00	179.90	11,931.00	-4,314.88	-0.16	4,314.87	0.00	0.00	0.00	
16,100.00	90.00	179.90	11,931.00	-4,414.88	0.01	4,414.87	0.00	0.00	0.00	
16,200.00	90.00	179.90	11,931.00	-4,514.88	0.18	4,514.87	0.00	0.00	0.00	
16,300.00	90.00	179.90	11,931.00	-4,614.88	0.35	4,614.87	0.00	0.00	0.00	
16,400.00	90.00	179.90	11,931.00	-4,714.88	0.52	4,714.87	0.00	0.00	0.00	
16,500.00	90.00	179.90	11,931.00	-4,814.88	0.69	4,814.87	0.00	0.00	0.00	
16,600.00	90.00	179.90	11,931.00	-4,914.88	0.87	4,914.87	0.00	0.00	0.00	
16,700.00	90.00	179.90	11,931.00	-5,014.88	1.04	5,014.87	0.00	0.00	0.00	
16,800.00	90.00	179.90	11,931.00	-5,114.88	1.21	5,114.87	0.00	0.00	0.00	
16,900.00	90.00	179.90	11,931.00	-5,214.88	1.38	5,214.87	0.00	0.00	0.00	
17,000.00	90.00	179.90	11,931.00	-5,314.88	1.55	5,314.87	0.00	0.00	0.00	
17,100.00	90.00	179.90	11,931.00	-5,414.88	1.72	5,414.87	0.00	0.00	0.00	
17,200.00	90.00	179.90	11,931.00	-5,514.88	1.89	5,514.87	0.00	0.00	0.00	
17,300.00	90.00	179.90	11,931.00	-5,614.88	2.06	5,614.87	0.00	0.00	0.00	
17,400.00	90.00	179.90	11,931.00	-5,714.87	2.23	5,714.87	0.00	0.00	0.00	
17,500.00	90.00	179.90	11,931.00	-5,814.87	2.40	5,814.87	0.00	0.00	0.00	
17,600.00	90.00	179.90	11,931.00	-5,914.87	2.58	5,914.87	0.00	0.00	0.00	
17,700.00	90.00	179.90	11,931.00	-6,014.87	2.75	6,014.87	0.00	0.00	0.00	
17,800.00	90.00	179.90	11,931.00	-6,114.87	2.92	6,114.87	0.00	0.00	0.00	
17,900.00	90.00	179.90	11,931.00	-6,214.87	3.09	6,214.87	0.00	0.00	0.00	
18,000.00	90.00	179.90	11,931.00	-6,314.87	3.26	6,314.87	0.00	0.00	0.00	
18,100.00	90.00	179.90	11,931.00	-6,414.87	3.43	6,414.87	0.00	0.00	0.00	
18,200.00	90.00	179.90	11,931.00	-6,514.87	3.60	6,514.87	0.00	0.00	0.00	
18,300.00	90.00	179.90	11,931.00	-6,614.87	3.77	6,614.87	0.00	0.00	0.00	
18,400.00	90.00	179.90	11,931.00	-6,714.87	3.94	6,714.87	0.00	0.00	0.00	
18,500.00	90.00	179.90	11,931.00	-6,814.87	4.11	6,814.87	0.00	0.00	0.00	
18,600.00	90.00	179.90	11,931.00	-6,914.87	4.29	6,914.87	0.00	0.00	0.00	
18,700.00	90.00	179.90	11,931.00	-7,014.87	4.46	7,014.87	0.00	0.00	0.00	
18,800.00	90.00	179.90	11,931.00	-7,114.87	4.63	7,114.87	0.00	0.00	0.00	
18,900.00	90.00	179.90	11,931.00	-7,214.87	4.80	7,214.87	0.00	0.00	0.00	
19,000.00	90.00	179.90	11,931.00	-7,314.87	4.97	7,314.87	0.00	0.00	0.00	
19,100.00	90.00	179.90	11,931.00	-7,414.87	5.14	7,414.87	0.00	0.00	0.00	
19,200.00	90.00	179.90	11,931.00	-7,514.87	5.31	7,514.87	0.00	0.00	0.00	
19,300.00	90.00	179.90	11,931.00	-7,614.87	5.48	7,614.87	0.00	0.00	0.00	
19,400.00	90.00	179.90	11,931.00	-7,714.87	5.65	7,714.87	0.00	0.00	0.00	
19,500.00	90.00	179.90	11,931.00	-7,814.87	5.82	7,814.87	0.00	0.00	0.00	
19,600.00	90.00	179.90	11,931.00	-7,914.87	5.99	7,914.87	0.00	0.00	0.00	
19,700.00	90.00	179.90	11,931.00	-8,014.87	6.17	8,014.87	0.00	0.00	0.00	
19,800.00	90.00	179.90	11,931.00	-8,114.87	6.34	8,114.87	0.00	0.00	0.00	
19,900.00	90.00	179.90	11,931.00	-8,214.87	6.51	8,214.87	0.00	0.00	0.00	
20,000.00	90.00	179.90	11,931.00	-8,314.87	6.68	8,314.87	0.00	0.00	0.00	
20,100.00	90.00	179.90	11,931.00	-8,414.87	6.85	8,414.87	0.00	0.00	0.00	
20,200.00	90.00	179.90	11,931.00	-8,514.87	7.02	8,514.87	0.00	0.00	0.00	

Planning Report

Database:	PREDATOR EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
20,300.00	90.00	179.90	11,931.00	-8,614.87	7.19	8,614.87	0.00	0.00	0.00	
20,400.00	90.00	179.90	11,931.00	-8,714.87	7.36	8,714.87	0.00	0.00	0.00	
20,500.00	90.00	179.90	11,931.00	-8,814.87	7.53	8,814.87	0.00	0.00	0.00	
20,600.00	90.00	179.90	11,931.00	-8,914.87	7.70	8,914.87	0.00	0.00	0.00	
20,700.00	90.00	179.90	11,931.00	-9,014.87	7.88	9,014.87	0.00	0.00	0.00	
20,800.00	90.00	179.90	11,931.00	-9,114.87	8.05	9,114.87	0.00	0.00	0.00	
20,900.00	90.00	179.90	11,931.00	-9,214.87	8.22	9,214.87	0.00	0.00	0.00	
21,000.00	90.00	179.90	11,931.00	-9,314.87	8.39	9,314.87	0.00	0.00	0.00	
21,100.00	90.00	179.90	11,931.00	-9,414.87	8.56	9,414.87	0.00	0.00	0.00	
21,200.00	90.00	179.90	11,931.00	-9,514.87	8.73	9,514.87	0.00	0.00	0.00	
21,300.00	90.00	179.90	11,931.00	-9,614.87	8.90	9,614.87	0.00	0.00	0.00	
21,400.00	90.00	179.90	11,931.00	-9,714.87	9.07	9,714.87	0.00	0.00	0.00	
21,500.00	90.00	179.90	11,931.00	-9,814.87	9.24	9,814.87	0.00	0.00	0.00	
21,600.00	90.00	179.90	11,931.00	-9,914.87	9.41	9,914.87	0.00	0.00	0.00	
21,700.00	90.00	179.90	11,931.00	-10,014.87	9.59	10,014.87	0.00	0.00	0.00	
21,800.00	90.00	179.90	11,931.00	-10,114.87	9.76	10,114.87	0.00	0.00	0.00	
21,900.00	90.00	179.90	11,931.00	-10,214.87	9.93	10,214.87	0.00	0.00	0.00	
22,000.00	90.00	179.90	11,931.00	-10,314.87	10.10	10,314.87	0.00	0.00	0.00	
22,100.00	90.00	179.90	11,931.00	-10,414.87	10.27	10,414.87	0.00	0.00	0.00	
22,200.00	90.00	179.90	11,931.00	-10,514.87	10.44	10,514.87	0.00	0.00	0.00	
22,300.00	90.00	179.90	11,931.00	-10,614.87	10.61	10,614.87	0.00	0.00	0.00	
22,400.00	90.00	179.90	11,931.00	-10,714.87	10.78	10,714.87	0.00	0.00	0.00	
22,500.00	90.00	179.90	11,931.00	-10,814.87	10.95	10,814.87	0.00	0.00	0.00	
22,527.33	90.00	179.90	11,931.00	-10,842.20	11.00	10,842.20	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 21 BD 703H SHL	- plan hits target center	0.00	0.00	0.00	0.00	0.00	403,784.30	637,588.60	32.10933964	-103.88896536
	- Point									
PLU 21 BD 703H PBHL	- plan hits target center	0.00	0.00	11,931.00	-10,842.20	11.00	392,942.10	637,599.60	32.07953465	-103.88907409
	- Rectangle (sides W100.00 H10,117.00 D0.00)									
PLU 21 BD 703H FTP	- plan hits target center	0.00	0.00	11,931.00	-725.30	-6.30	403,059.00	637,582.30	32.10734589	-103.88899536
	- Point									
PLU 21 BD 703H LP	- plan hits target center	0.00	0.00	11,931.00	-572.96	-6.40	403,211.34	637,582.20	32.10776467	-103.88899365
	- Point									
PLU 21 BD 703H LTP	- plan misses target center by 0.62usft at 22397.33usft MD (11931.00 TVD, -10712.20 N, 10.78 E)	0.00	0.00	11,931.00	-10,712.20	11.40	393,072.10	637,600.00	32.07989201	-103.88907107
	- Point									

Planning Report

Database:	PREDATOR_EDM	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Company:	XTO Energy	TVD Reference:	3228+33 @ 3261.00usft (X34)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3228+33 @ 3261.00usft (X34)
Site:	Poker Lake Unit 21 BD	North Reference:	Grid
Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	703H Lateral		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,021.00	1,021.00	RSLR				
1,026.00	1,026.00	T/SALT				
1,081.00	1,081.00	Base RSLR Anhydrite				
1,281.00	1,281.00	Salado				
2,306.00	2,306.00	CSTL				
3,561.00	3,561.00	SALT_B				
3,786.00	3,786.00	DLWR				
3,836.00	3,836.00	BLCN				
4,721.00	4,721.00	CYCN				
6,341.00	6,341.00	BYCN				
7,641.00	7,641.00	BSPG_LM				
8,541.00	8,541.00	BSPG1_LM				
8,561.00	8,561.00	BSPG1				
8,961.00	8,961.00	BSPG2_LM				
9,361.00	9,361.00	BSPG2				
9,686.00	9,686.00	BSPG3_LM				
10,511.00	10,511.00	BSPG3				
10,851.00	10,851.00	WFMP_X				
10,881.00	10,881.00	WFMP				
10,951.00	10,951.00	WFMP_Y				
10,986.00	10,986.00	WFMP_A				
11,451.41	11,451.00	WFMP_B				
11,614.48	11,606.00	WFMP_C				
11,833.83	11,781.00	WFMP_D				
12,106.22	11,911.00	WFMP_E				
12,258.04	11,931.00	LP (WFMP_E)				

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference:	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 300.00 usft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/09/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,358.04	Plan #1 (703H Lateral)	MWD	OWSG MWD - Standard	
11,358.04	22,527.33	Plan #1 (703H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Poker Lake Unit 21 BD						
21 BD 104H - 104H Lateral - Plan #1	1,157.99	1,158.99	120.10	112.28	15.341	CC
21 BD 104H - 104H Lateral - Plan #1	1,250.00	1,249.44	120.43	111.96	14.205	ES
21 BD 104H - 104H Lateral - Plan #1	22,527.33	22,561.76	660.02	474.49	3.558	SF
21 BD 123H - 123H Lateral - Plan #1	1,157.99	1,158.99	60.10	52.27	7.677	CC
21 BD 123H - 123H Lateral - Plan #1	1,250.00	1,250.55	60.29	51.82	7.111	ES
21 BD 123H - 123H Lateral - Plan #1	10,400.00	10,408.32	217.09	143.34	2.944	SF
21 BD 124H - 124H Lateral - Plan #1	1,157.99	1,158.99	90.10	82.27	11.509	CC
21 BD 124H - 124H Lateral - Plan #1	1,250.00	1,249.86	90.42	81.95	10.665	ES
21 BD 124H - 124H Lateral - Plan #1	10,750.00	10,765.45	526.45	450.26	6.910	SF
21 BD 903H - 903H Lateral - Plan #1	1,421.96	1,422.09	29.40	19.74	3.043	CC
21 BD 903H - 903H Lateral - Plan #1	1,450.00	1,450.07	29.45	19.60	2.988	ES
21 BD 903H - 903H Lateral - Plan #1	10,700.00	10,706.16	147.34	71.49	1.943	SF
PLU RR 25-30 1H (Offset) - 1H Offset - 1H Offset AsDrill						Out of range
PLU RR33 25 30 1H (Offset) - 1H Offset - 1H Offset AsD						Out of range

Offset Design										Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1				Offset Site Error:		0.00 usft
Survey Program: 0-MWD-11393-MWD+IFR1+MS												Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis				Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	1.00	1.00	0.00	0.00	89.52	1.00	120.10	120.10							
50.00	50.00	51.00	51.00	0.03	0.06	89.52	1.00	120.10	120.10	120.01	0.09	1,309.536				
100.00	100.00	101.00	101.00	0.12	0.12	89.52	1.00	120.10	120.10	119.86	0.24	492.713				
150.00	150.00	151.00	151.00	0.30	0.30	89.52	1.00	120.10	120.10	119.50	0.60	199.432				
200.00	200.00	201.00	201.00	0.48	0.48	89.52	1.00	120.10	120.10	119.14	0.96	125.017				
250.00	250.00	251.00	251.00	0.66	0.66	89.52	1.00	120.10	120.10	118.78	1.32	91.045				
300.00	300.00	301.00	301.00	0.84	0.84	89.52	1.00	120.10	120.10	118.43	1.68	71.591				
350.00	350.00	351.00	351.00	1.02	1.02	89.52	1.00	120.10	120.10	118.07	2.04	58.987				
400.00	400.00	401.00	401.00	1.20	1.20	89.52	1.00	120.10	120.10	117.71	2.39	50.156				
450.00	450.00	451.00	451.00	1.37	1.38	89.52	1.00	120.10	120.10	117.35	2.75	43.626				
500.00	500.00	501.00	501.00	1.55	1.56	89.52	1.00	120.10	120.10	116.99	3.11	38.600				
550.00	550.00	551.00	551.00	1.73	1.74	89.52	1.00	120.10	120.10	116.63	3.47	34.612				
600.00	600.00	601.00	601.00	1.91	1.92	89.52	1.00	120.10	120.10	116.28	3.83	31.371				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:
Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1													0.00 usft
Survey Program: 0-MWD, 11393-MWD-HFR1+MS													Offset Well Error:
Reference													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
650.00	650.00	651.00	651.00	2.09	2.10	89.52		1.00	120.10	120.10	115.92	4.19	28.685
700.00	700.00	701.00	701.00	2.27	2.27	89.52		1.00	120.10	120.10	115.56	4.55	26.423
750.00	750.00	751.00	751.00	2.45	2.45	89.52		1.00	120.10	120.10	115.20	4.90	24.492
800.00	800.00	801.00	801.00	2.63	2.63	89.52		1.00	120.10	120.10	114.84	5.26	22.823
850.00	850.00	851.00	851.00	2.81	2.81	89.52		1.00	120.10	120.10	114.48	5.62	21.368
900.00	900.00	901.00	901.00	2.99	2.99	89.52		1.00	120.10	120.10	114.12	5.98	20.087
950.00	950.00	951.00	951.00	3.17	3.17	89.52		1.00	120.10	120.10	113.77	6.34	18.951
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.35	89.52		1.00	120.10	120.10	113.41	6.70	17.936
1,050.00	1,050.00	1,051.00	1,051.00	3.53	3.53	89.52		1.00	120.10	120.10	113.05	7.05	17.025
1,100.00	1,100.00	1,101.00	1,101.00	3.70	3.71	89.52		1.00	120.10	120.10	112.69	7.41	16.201
1,150.00	1,150.00	1,151.00	1,151.00	3.88	3.89	89.52		1.00	120.10	120.10	112.33	7.77	15.454
1,157.99	1,157.99	1,158.99	1,158.99	3.91	3.92	89.52		1.00	120.10	120.10	112.28	7.83	15.341 CC
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	89.52		1.00	120.10	120.11	111.98	8.13	14.780
1,250.00	1,250.00	1,249.44	1,249.44	4.24	4.24	89.52		1.00	120.42	120.43	111.96	8.48	14.205 ES
1,300.00	1,300.00	1,297.90	1,297.89	4.42	4.41	89.53		1.00	121.35	121.40	112.57	8.83	13.756
1,350.00	1,350.00	1,346.33	1,346.29	4.60	4.57	89.53		1.00	122.90	123.00	113.83	9.17	13.416
1,400.00	1,400.00	1,394.70	1,394.62	4.78	4.74	89.54		1.00	125.06	125.23	115.72	9.51	13.170
1,450.00	1,450.00	1,443.02	1,442.86	4.96	4.91	89.55		1.00	127.83	128.09	118.24	9.85	13.006
1,500.00	1,500.00	1,491.26	1,490.98	5.14	5.08	89.56		1.00	131.20	131.59	121.40	10.19	12.918
1,550.00	1,550.00	1,539.40	1,538.96	5.32	5.25	89.58		1.00	135.17	135.71	125.18	10.52	12.896
1,600.00	1,600.00	1,587.44	1,586.78	5.50	5.42	89.59		1.00	139.73	140.46	129.60	10.86	12.936
1,650.00	1,650.00	1,635.36	1,634.41	5.68	5.59	89.60		1.00	144.88	145.83	134.64	11.19	13.030
1,700.00	1,700.00	1,683.13	1,681.85	5.86	5.76	89.62		1.00	150.61	151.83	140.31	11.52	13.177
1,750.00	1,750.00	1,730.76	1,729.05	6.03	5.94	89.63		1.00	156.92	158.45	146.60	11.85	13.370
1,800.00	1,800.00	1,778.22	1,776.02	6.21	6.11	89.65		1.00	163.78	165.68	153.50	12.18	13.605
1,850.00	1,850.00	1,826.66	1,823.87	6.39	6.30	89.67		1.00	171.30	173.44	160.92	12.52	13.856
1,900.00	1,900.00	1,876.05	1,872.65	6.57	6.48	89.68		1.00	179.02	181.26	168.39	12.87	14.085
1,950.00	1,950.00	1,925.43	1,921.42	6.75	6.67	89.69		1.00	186.75	189.08	175.86	13.22	14.301
2,000.00	2,000.00	1,974.81	1,970.20	6.93	6.87	89.71		1.00	194.47	196.90	183.33	13.57	14.506
2,050.00	2,050.00	2,024.20	2,018.97	7.11	7.06	89.72		1.00	202.20	204.72	190.80	13.93	14.700
2,100.00	2,100.00	2,073.58	2,067.75	7.29	7.25	89.73		1.00	209.93	212.54	198.26	14.28	14.883
2,150.00	2,150.00	2,122.97	2,116.53	7.47	7.45	89.74		1.00	217.65	220.37	205.73	14.63	15.057
2,200.00	2,200.00	2,172.35	2,165.30	7.65	7.65	89.75		1.00	225.38	228.19	213.20	14.99	15.223
2,250.00	2,250.00	2,221.74	2,214.08	7.83	7.84	89.75		1.00	233.10	236.01	220.66	15.34	15.381
2,300.00	2,300.00	2,271.12	2,262.86	8.01	8.04	89.76		1.00	240.83	243.83	228.13	15.70	15.531
2,350.00	2,350.00	2,320.51	2,311.63	8.19	8.24	89.77		1.00	248.55	251.65	235.60	16.06	15.674
2,400.00	2,400.00	2,369.89	2,360.41	8.36	8.44	89.78		1.00	256.28	259.47	243.06	16.41	15.810
2,450.00	2,450.00	2,419.27	2,409.19	8.54	8.64	89.78		1.00	264.00	267.30	250.53	16.77	15.941
2,500.00	2,500.00	2,468.66	2,457.96	8.72	8.85	89.79		1.00	271.73	275.12	257.99	17.12	16.066
2,550.00	2,550.00	2,518.04	2,506.74	8.90	9.05	89.79		1.00	279.45	282.94	265.46	17.48	16.185
2,600.00	2,600.00	2,567.43	2,555.52	9.08	9.25	89.80		1.00	287.18	290.76	272.92	17.84	16.300
2,650.00	2,650.00	2,616.81	2,604.29	9.26	9.45	89.81		1.00	294.90	298.58	280.39	18.20	16.410
2,700.00	2,700.00	2,666.20	2,653.07	9.44	9.66	89.81		1.00	302.63	306.40	287.85	18.55	16.515
2,750.00	2,750.00	2,715.58	2,701.84	9.62	9.86	89.82		1.00	310.36	314.23	295.31	18.91	16.616
2,800.00	2,800.00	2,764.97	2,750.62	9.80	10.07	89.82		1.00	318.08	322.05	302.78	19.27	16.713
2,850.00	2,850.00	2,814.35	2,799.40	9.98	10.27	89.82		1.00	325.81	329.87	310.24	19.63	16.807
2,900.00	2,900.00	2,863.73	2,848.17	10.16	10.48	89.83		1.00	333.53	337.69	317.71	19.99	16.897
2,950.00	2,950.00	2,913.12	2,896.95	10.34	10.69	89.83		1.00	341.26	345.51	325.17	20.34	16.984
3,000.00	3,000.00	2,962.50	2,945.73	10.52	10.89	89.84		1.00	348.98	353.33	332.63	20.70	17.068
3,050.00	3,050.00	3,011.89	2,994.50	10.69	11.10	89.84		1.00	356.71	361.16	340.10	21.06	17.148
3,100.00	3,100.00	3,061.27	3,043.28	10.87	11.31	89.84		1.00	364.43	368.98	347.56	21.42	17.226
3,150.00	3,150.00	3,110.66	3,092.06	11.05	11.52	89.85		1.00	372.16	376.80	355.02	21.78	17.302

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error		0.00 usft	
Survey Program 0-MWD, 11393-MWD+HFR1+MS										Offset Well Error		0.00 usft	
Reference		Offset		Semi-Major Axis		Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,200.00	3,200.00	3,160.04	3,140.83	11.23	11.72	89.85	1.00	379.88	384.62	362.48	22.14	17.374	
3,250.00	3,250.00	3,209.43	3,189.61	11.41	11.93	89.85	1.00	387.61	392.44	369.95	22.50	17.444	
3,300.00	3,300.00	3,258.81	3,238.39	11.59	12.14	89.86	1.00	395.34	400.26	377.41	22.86	17.512	
3,350.00	3,350.00	3,308.19	3,287.16	11.77	12.35	89.86	1.00	403.06	408.09	384.87	23.22	17.578	
3,400.00	3,400.00	3,357.58	3,335.94	11.95	12.56	89.86	1.00	410.79	415.91	392.33	23.58	17.642	
3,450.00	3,450.00	3,406.96	3,384.71	12.13	12.77	89.86	1.00	418.51	423.73	399.79	23.93	17.704	
3,500.00	3,500.00	3,456.35	3,433.49	12.31	12.98	89.87	1.00	426.24	431.55	407.26	24.29	17.763	
3,550.00	3,550.00	3,505.73	3,482.27	12.49	13.19	89.87	1.00	433.96	439.37	414.72	24.65	17.821	
3,600.00	3,600.00	3,555.12	3,531.04	12.67	13.40	89.87	1.00	441.69	447.19	422.18	25.01	17.878	
3,650.00	3,650.00	3,604.50	3,579.82	12.85	13.61	89.87	1.00	449.41	455.02	429.64	25.37	17.932	
3,700.00	3,700.00	3,653.89	3,628.60	13.03	13.82	89.87	1.00	457.14	462.84	437.10	25.73	17.985	
3,750.00	3,750.00	3,703.27	3,677.37	13.20	14.03	89.88	1.00	464.86	470.66	444.57	26.09	18.037	
3,800.00	3,800.00	3,752.65	3,726.15	13.38	14.24	89.88	1.00	472.59	478.48	452.03	26.45	18.087	
3,850.00	3,850.00	3,802.04	3,774.93	13.56	14.45	89.88	1.00	480.31	486.30	459.49	26.81	18.136	
3,900.00	3,900.00	3,851.42	3,823.70	13.74	14.66	89.88	1.00	488.04	494.12	466.95	27.18	18.183	
3,950.00	3,950.00	3,900.81	3,872.48	13.92	14.87	89.88	1.00	495.77	501.95	474.41	27.54	18.229	
4,000.00	4,000.00	3,950.19	3,921.25	14.10	15.09	89.89	1.00	503.49	509.77	481.87	27.90	18.274	
4,050.00	4,050.00	3,999.58	3,970.03	14.28	15.30	89.89	1.00	511.22	517.59	489.33	28.26	18.317	
4,100.00	4,100.00	4,048.96	4,018.81	14.46	15.51	89.89	1.00	518.94	525.41	496.79	28.62	18.360	
4,150.00	4,150.00	4,098.34	4,067.58	14.64	15.72	89.89	1.00	526.67	533.23	504.26	28.98	18.401	
4,200.00	4,200.00	4,147.73	4,116.36	14.82	15.93	89.89	1.00	534.39	541.06	511.72	29.34	18.442	
4,250.00	4,250.00	4,197.11	4,165.14	15.00	16.14	89.89	1.00	542.12	548.88	519.18	29.70	18.481	
4,300.00	4,300.00	4,246.50	4,213.91	15.18	16.36	89.90	1.00	549.84	556.70	526.64	30.06	18.519	
4,350.00	4,350.00	4,295.88	4,262.69	15.36	16.57	89.90	1.00	557.57	564.52	534.10	30.42	18.557	
4,400.00	4,400.00	4,353.24	4,319.40	15.53	16.81	89.90	1.00	566.18	572.03	541.18	30.85	18.543	
4,450.00	4,450.00	4,411.57	4,377.19	15.71	17.05	89.90	1.00	574.06	578.78	547.50	31.28	18.505	
4,500.00	4,500.00	4,470.13	4,435.33	15.89	17.29	89.90	1.00	581.08	584.78	553.08	31.70	18.448	
4,550.00	4,550.00	4,528.89	4,493.77	16.07	17.52	89.90	1.00	587.23	590.01	557.90	32.11	18.373	
4,600.00	4,600.00	4,587.83	4,552.47	16.25	17.75	89.90	1.00	592.49	594.48	561.96	32.52	18.280	
4,650.00	4,650.00	4,646.92	4,611.40	16.43	17.97	89.90	1.00	596.86	598.17	565.25	32.92	18.170	
4,700.00	4,700.00	4,706.13	4,670.50	16.61	18.18	89.90	1.00	600.32	601.10	567.78	33.31	18.043	
4,750.00	4,750.00	4,765.43	4,729.75	16.79	18.39	89.90	1.00	602.87	603.25	569.55	33.70	17.901	
4,800.00	4,800.00	4,824.80	4,789.10	16.97	18.59	89.91	1.00	604.50	604.62	570.54	34.08	17.743	
4,850.00	4,850.00	4,884.21	4,848.50	17.15	18.79	89.91	1.00	605.21	605.21	570.77	34.44	17.571	
4,900.00	4,900.00	4,936.71	4,901.00	17.33	18.96	89.91	1.00	605.24	605.24	570.44	34.80	17.392	
4,950.00	4,950.00	4,986.71	4,951.00	17.51	19.12	89.91	1.00	605.24	605.24	570.09	35.15	17.217	
5,000.00	5,000.00	5,036.71	5,001.00	17.69	19.28	89.91	1.00	605.24	605.24	569.73	35.51	17.045	
5,050.00	5,050.00	5,086.71	5,051.00	17.86	19.45	89.91	1.00	605.24	605.24	569.38	35.86	16.877	
5,100.00	5,100.00	5,136.71	5,101.00	18.04	19.61	89.91	1.00	605.24	605.24	569.03	36.21	16.712	
5,150.00	5,150.00	5,186.71	5,151.00	18.22	19.77	89.91	1.00	605.24	605.24	568.67	36.57	16.551	
5,200.00	5,200.00	5,236.71	5,201.00	18.40	19.93	89.91	1.00	605.24	605.24	568.32	36.92	16.392	
5,250.00	5,250.00	5,286.71	5,251.00	18.58	20.10	89.91	1.00	605.24	605.24	567.96	37.28	16.236	
5,300.00	5,300.00	5,336.71	5,301.00	18.76	20.26	89.91	1.00	605.24	605.24	567.61	37.63	16.084	
5,350.00	5,350.00	5,386.71	5,351.00	18.94	20.43	89.91	1.00	605.24	605.24	567.26	37.99	15.934	
5,400.00	5,400.00	5,436.71	5,401.00	19.12	20.59	89.91	1.00	605.24	605.24	566.90	38.34	15.786	
5,450.00	5,450.00	5,486.71	5,451.00	19.30	20.76	89.91	1.00	605.24	605.24	566.55	38.69	15.642	
5,500.00	5,500.00	5,536.71	5,501.00	19.48	20.92	89.91	1.00	605.24	605.24	566.19	39.05	15.500	
5,550.00	5,550.00	5,586.71	5,551.00	19.66	21.08	89.91	1.00	605.24	605.24	565.84	39.40	15.360	
5,600.00	5,600.00	5,636.71	5,601.00	19.84	21.25	89.91	1.00	605.24	605.24	565.48	39.76	15.223	
5,650.00	5,650.00	5,686.71	5,651.00	20.02	21.42	89.91	1.00	605.24	605.24	565.13	40.11	15.089	
5,700.00	5,700.00	5,736.71	5,701.00	20.19	21.58	89.91	1.00	605.24	605.24	564.77	40.47	14.957	
5,750.00	5,750.00	5,786.71	5,751.00	20.37	21.75	89.91	1.00	605.24	605.24	564.42	40.82	14.827	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1		Offset Site Error		0.00 usft
Survey Program: 0-MWD-11393-MWD-HFR1+MS												Offset Well Error		0.00 usft
Reference		Offset		Semi Major Axis				Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,800.00	5,800.00	5,836.71	5,801.00	20.55	21.91	89.91	1.00	605.24	605.24	564.06	41.18	14.699		
5,850.00	5,850.00	5,886.71	5,851.00	20.73	22.08	89.91	1.00	605.24	605.24	563.71	41.53	14.573		
5,900.00	5,900.00	5,936.71	5,901.00	20.91	22.25	89.91	1.00	605.24	605.24	563.35	41.89	14.450		
5,950.00	5,950.00	5,986.71	5,951.00	21.09	22.41	89.91	1.00	605.24	605.24	563.00	42.24	14.328		
6,000.00	6,000.00	6,036.71	6,001.00	21.27	22.58	89.91	1.00	605.24	605.24	562.64	42.60	14.209		
6,050.00	6,050.00	6,086.71	6,051.00	21.45	22.75	89.91	1.00	605.24	605.24	562.29	42.95	14.091		
6,100.00	6,100.00	6,136.71	6,101.00	21.63	22.91	89.91	1.00	605.24	605.24	561.93	43.31	13.976		
6,150.00	6,150.00	6,186.71	6,151.00	21.81	23.08	89.91	1.00	605.24	605.24	561.58	43.66	13.862		
6,200.00	6,200.00	6,236.71	6,201.00	21.99	23.25	89.91	1.00	605.24	605.24	561.22	44.02	13.750		
6,250.00	6,250.00	6,286.71	6,251.00	22.17	23.42	89.91	1.00	605.24	605.24	560.87	44.37	13.640		
6,300.00	6,300.00	6,336.71	6,301.00	22.35	23.59	89.91	1.00	605.24	605.24	560.51	44.73	13.532		
6,350.00	6,350.00	6,386.71	6,351.00	22.52	23.75	89.91	1.00	605.24	605.24	560.16	45.08	13.425		
6,400.00	6,400.00	6,436.71	6,401.00	22.70	23.92	89.91	1.00	605.24	605.24	559.80	45.44	13.320		
6,450.00	6,450.00	6,486.71	6,451.00	22.88	24.09	89.91	1.00	605.24	605.24	559.45	45.79	13.217		
6,500.00	6,500.00	6,536.71	6,501.00	23.06	24.26	89.91	1.00	605.24	605.24	559.09	46.15	13.115		
6,550.00	6,550.00	6,586.71	6,551.00	23.24	24.43	89.91	1.00	605.24	605.24	558.74	46.51	13.014		
6,600.00	6,600.00	6,636.71	6,601.00	23.42	24.60	89.91	1.00	605.24	605.24	558.38	46.86	12.916		
6,650.00	6,650.00	6,686.71	6,651.00	23.60	24.77	89.91	1.00	605.24	605.24	558.02	47.22	12.818		
6,700.00	6,700.00	6,736.71	6,701.00	23.78	24.94	89.91	1.00	605.24	605.24	557.67	47.57	12.722		
6,750.00	6,750.00	6,786.71	6,751.00	23.96	25.10	89.91	1.00	605.24	605.24	557.31	47.93	12.628		
6,800.00	6,800.00	6,836.71	6,801.00	24.14	25.27	89.91	1.00	605.24	605.24	556.96	48.28	12.535		
6,850.00	6,850.00	6,886.71	6,851.00	24.32	25.44	89.91	1.00	605.24	605.24	556.60	48.64	12.443		
6,900.00	6,900.00	6,936.71	6,901.00	24.50	25.61	89.91	1.00	605.24	605.24	556.24	49.00	12.353		
6,950.00	6,950.00	6,986.71	6,951.00	24.68	25.78	89.91	1.00	605.24	605.24	555.89	49.35	12.264		
7,000.00	7,000.00	7,036.71	7,001.00	24.85	25.95	89.91	1.00	605.24	605.24	555.53	49.71	12.176		
7,050.00	7,050.00	7,086.71	7,051.00	25.03	26.12	89.91	1.00	605.24	605.24	555.18	50.06	12.089		
7,100.00	7,100.00	7,136.71	7,101.00	25.21	26.29	89.91	1.00	605.24	605.24	554.82	50.42	12.004		
7,150.00	7,150.00	7,186.71	7,151.00	25.39	26.46	89.91	1.00	605.24	605.24	554.46	50.78	11.920		
7,200.00	7,200.00	7,236.71	7,201.00	25.57	26.63	89.91	1.00	605.24	605.24	554.11	51.13	11.837		
7,250.00	7,250.00	7,286.71	7,251.00	25.75	26.81	89.91	1.00	605.24	605.24	553.75	51.49	11.755		
7,300.00	7,300.00	7,336.71	7,301.00	25.93	26.98	89.91	1.00	605.24	605.24	553.40	51.84	11.674		
7,350.00	7,350.00	7,386.71	7,351.00	26.11	27.15	89.91	1.00	605.24	605.24	553.04	52.20	11.594		
7,400.00	7,400.00	7,436.71	7,401.00	26.29	27.32	89.91	1.00	605.24	605.24	552.68	52.56	11.516		
7,450.00	7,450.00	7,486.71	7,451.00	26.47	27.49	89.91	1.00	605.24	605.24	552.33	52.91	11.438		
7,500.00	7,500.00	7,536.71	7,501.00	26.65	27.66	89.91	1.00	605.24	605.24	551.97	53.27	11.362		
7,550.00	7,550.00	7,586.71	7,551.00	26.83	27.83	89.91	1.00	605.24	605.24	551.61	53.63	11.286		
7,600.00	7,600.00	7,636.71	7,601.00	27.01	28.00	89.91	1.00	605.24	605.24	551.26	53.98	11.212		
7,650.00	7,650.00	7,686.71	7,651.00	27.18	28.17	89.91	1.00	605.24	605.24	550.90	54.34	11.138		
7,700.00	7,700.00	7,736.71	7,701.00	27.36	28.35	89.91	1.00	605.24	605.24	550.55	54.70	11.066		
7,750.00	7,750.00	7,786.71	7,751.00	27.54	28.52	89.91	1.00	605.24	605.24	550.19	55.05	10.994		
7,800.00	7,800.00	7,836.71	7,801.00	27.72	28.69	89.91	1.00	605.24	605.24	549.83	55.41	10.923		
7,850.00	7,850.00	7,886.71	7,851.00	27.90	28.86	89.91	1.00	605.24	605.24	549.48	55.76	10.853		
7,900.00	7,900.00	7,936.71	7,901.00	28.08	29.03	89.91	1.00	605.24	605.24	549.12	56.12	10.785		
7,950.00	7,950.00	7,986.71	7,951.00	28.26	29.20	89.91	1.00	605.24	605.24	548.76	56.48	10.716		
8,000.00	8,000.00	8,036.71	8,001.00	28.44	29.38	89.91	1.00	605.24	605.24	548.41	56.83	10.649		
8,050.00	8,050.00	8,086.71	8,051.00	28.62	29.55	89.91	1.00	605.24	605.24	548.05	57.19	10.583		
8,100.00	8,100.00	8,136.71	8,101.00	28.80	29.72	89.91	1.00	605.24	605.24	547.69	57.55	10.517		
8,150.00	8,150.00	8,186.71	8,151.00	28.98	29.89	89.91	1.00	605.24	605.24	547.34	57.90	10.452		
8,200.00	8,200.00	8,236.71	8,201.00	29.16	30.07	89.91	1.00	605.24	605.24	546.98	58.26	10.388		
8,250.00	8,250.00	8,286.71	8,251.00	29.34	30.24	89.91	1.00	605.24	605.24	546.62	58.62	10.325		
8,300.00	8,300.00	8,336.71	8,301.00	29.51	30.41	89.91	1.00	605.24	605.24	546.27	58.97	10.263		
8,350.00	8,350.00	8,386.71	8,351.00	29.69	30.58	89.91	1.00	605.24	605.24	545.91	59.33	10.201		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 11393-MWD-HFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,400.00	8,400.00	8,436.71	8,401.00	29.87	30.76	89.91	1.00	605.24	605.24	545.55	59.69	10.140	
8,450.00	8,450.00	8,486.71	8,451.00	30.05	30.93	89.91	1.00	605.24	605.24	545.20	60.04	10.080	
8,500.00	8,500.00	8,536.71	8,501.00	30.23	31.10	89.91	1.00	605.24	605.24	544.84	60.40	10.020	
8,550.00	8,550.00	8,586.71	8,551.00	30.41	31.28	89.91	1.00	605.24	605.24	544.48	60.76	9.961	
8,600.00	8,600.00	8,636.71	8,601.00	30.59	31.45	89.91	1.00	605.24	605.24	544.13	61.11	9.903	
8,650.00	8,650.00	8,686.71	8,651.00	30.77	31.62	89.91	1.00	605.24	605.24	543.77	61.47	9.846	
8,700.00	8,700.00	8,736.71	8,701.00	30.95	31.79	89.91	1.00	605.24	605.24	543.41	61.83	9.789	
8,750.00	8,750.00	8,786.71	8,751.00	31.13	31.97	89.91	1.00	605.24	605.24	543.06	62.19	9.733	
8,800.00	8,800.00	8,836.71	8,801.00	31.31	32.14	89.91	1.00	605.24	605.24	542.70	62.54	9.677	
8,850.00	8,850.00	8,886.71	8,851.00	31.49	32.31	89.91	1.00	605.24	605.24	542.34	62.90	9.622	
8,900.00	8,900.00	8,936.71	8,901.00	31.67	32.49	89.91	1.00	605.24	605.24	541.98	63.26	9.568	
8,950.00	8,950.00	8,986.71	8,951.00	31.84	32.66	89.91	1.00	605.24	605.24	541.63	63.61	9.514	
9,000.00	9,000.00	9,036.71	9,001.00	32.02	32.84	89.91	1.00	605.24	605.24	541.27	63.97	9.461	
9,050.00	9,050.00	9,086.71	9,051.00	32.20	33.01	89.91	1.00	605.24	605.24	540.91	64.33	9.409	
9,100.00	9,100.00	9,136.71	9,101.00	32.38	33.18	89.91	1.00	605.24	605.24	540.56	64.68	9.357	
9,150.00	9,150.00	9,186.71	9,151.00	32.56	33.36	89.91	1.00	605.24	605.24	540.20	65.04	9.305	
9,200.00	9,200.00	9,236.71	9,201.00	32.74	33.53	89.91	1.00	605.24	605.24	539.84	65.40	9.255	
9,250.00	9,250.00	9,286.71	9,251.00	32.92	33.70	89.91	1.00	605.24	605.24	539.49	65.76	9.204	
9,300.00	9,300.00	9,336.71	9,301.00	33.10	33.88	89.91	1.00	605.24	605.24	539.13	66.11	9.155	
9,350.00	9,350.00	9,386.71	9,351.00	33.28	34.05	89.91	1.00	605.24	605.24	538.77	66.47	9.106	
9,400.00	9,400.00	9,436.71	9,401.00	33.46	34.23	89.91	1.00	605.24	605.24	538.41	66.83	9.057	
9,450.00	9,450.00	9,486.71	9,451.00	33.64	34.40	89.91	1.00	605.24	605.24	538.06	67.18	9.009	
9,500.00	9,500.00	9,536.71	9,501.00	33.82	34.57	89.91	1.00	605.24	605.24	537.70	67.54	8.961	
9,550.00	9,550.00	9,586.71	9,551.00	34.00	34.75	89.91	1.00	605.24	605.24	537.34	67.90	8.914	
9,600.00	9,600.00	9,636.71	9,601.00	34.17	34.92	89.91	1.00	605.24	605.24	536.99	68.26	8.867	
9,650.00	9,650.00	9,686.71	9,651.00	34.35	35.10	89.91	1.00	605.24	605.24	536.63	68.61	8.821	
9,700.00	9,700.00	9,736.71	9,701.00	34.53	35.27	89.91	1.00	605.24	605.24	536.27	68.97	8.775	
9,750.00	9,750.00	9,786.71	9,751.00	34.71	35.45	89.91	1.00	605.24	605.24	535.91	69.33	8.730	
9,800.00	9,800.00	9,836.71	9,801.00	34.89	35.62	89.91	1.00	605.24	605.24	535.56	69.68	8.686	
9,850.00	9,850.00	9,886.71	9,851.00	35.07	35.79	89.91	1.00	605.24	605.24	535.20	70.04	8.641	
9,900.00	9,900.00	9,936.71	9,901.00	35.25	35.97	89.91	1.00	605.24	605.24	534.84	70.40	8.597	
9,950.00	9,950.00	9,986.71	9,951.00	35.43	36.14	89.91	1.00	605.24	605.24	534.49	70.76	8.554	
10,000.00	10,000.00	10,036.71	10,001.00	35.61	36.32	89.91	1.00	605.24	605.24	534.13	71.11	8.511	
10,050.00	10,050.00	10,086.71	10,051.00	35.79	36.49	89.91	1.00	605.24	605.24	533.77	71.47	8.468	
10,100.00	10,100.00	10,136.71	10,101.00	35.97	36.67	89.91	1.00	605.24	605.24	533.41	71.83	8.426	
10,150.00	10,150.00	10,186.71	10,151.00	36.15	36.84	89.91	1.00	605.24	605.24	533.06	72.18	8.385	
10,200.00	10,200.00	10,236.71	10,201.00	36.33	37.02	89.91	1.00	605.24	605.24	532.70	72.54	8.343	
10,250.00	10,250.00	10,286.71	10,251.00	36.50	37.19	89.91	1.00	605.24	605.24	532.34	72.90	8.302	
10,300.00	10,300.00	10,336.71	10,301.00	36.68	37.37	89.91	1.00	605.24	605.24	531.98	73.26	8.262	
10,350.00	10,350.00	10,386.71	10,351.00	36.86	37.54	89.91	1.00	605.24	605.24	531.63	73.61	8.222	
10,400.00	10,400.00	10,436.71	10,401.00	37.04	37.72	89.91	1.00	605.24	605.24	531.27	73.97	8.182	
10,450.00	10,450.00	10,486.71	10,451.00	37.22	37.89	89.91	1.00	605.24	605.24	530.91	74.33	8.143	
10,500.00	10,500.00	10,536.71	10,501.00	37.40	38.07	89.91	1.00	605.24	605.24	530.55	74.69	8.104	
10,550.00	10,550.00	10,586.71	10,551.00	37.58	38.24	89.91	1.00	605.24	605.24	530.20	75.04	8.065	
10,600.00	10,600.00	10,636.71	10,601.00	37.76	38.42	89.91	1.00	605.24	605.24	529.84	75.40	8.027	
10,650.00	10,650.00	10,686.71	10,651.00	37.94	38.59	89.91	1.00	605.24	605.24	529.48	75.76	7.989	
10,700.00	10,700.00	10,736.71	10,701.00	38.12	38.77	89.91	1.00	605.24	605.24	529.13	76.12	7.952	
10,750.00	10,750.00	10,786.71	10,751.00	38.30	38.94	89.91	1.00	605.24	605.24	528.77	76.47	7.914	
10,800.00	10,800.00	10,836.71	10,801.00	38.48	39.12	89.91	1.00	605.24	605.24	528.41	76.83	7.878	
10,850.00	10,850.00	10,886.71	10,851.00	38.66	39.29	89.91	1.00	605.24	605.24	528.05	77.19	7.841	
10,900.00	10,900.00	10,936.71	10,901.00	38.84	39.47	89.91	1.00	605.24	605.24	527.70	77.55	7.805	
10,950.00	10,950.00	10,986.71	10,951.00	39.01	39.64	89.91	1.00	605.24	605.24	527.34	77.90	7.769	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft					
Survey Program: 0-MWD-11393-MWD-HFR1+MS										Offset Well Error: 0.00 usft					
Reference		Offset		Semi Major Axis		Distance		Between		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
11,000.00	11,000.00	11,036.71	11,001.00	39.19	39.82	89.91	1.00	605.24	605.24	526.98	78.26	7.734			
11,050.00	11,050.00	11,086.71	11,051.00	39.37	39.99	89.91	1.00	605.24	605.24	526.62	78.62	7.699			
11,100.00	11,100.00	11,136.71	11,101.00	39.55	40.17	89.91	1.00	605.24	605.24	526.27	78.98	7.664			
11,150.00	11,150.00	11,186.71	11,151.00	39.73	40.35	89.91	1.00	605.24	605.24	525.91	79.33	7.629			
11,200.00	11,200.00	11,236.71	11,201.00	39.91	40.52	89.91	1.00	605.24	605.24	525.55	79.69	7.595			
11,250.00	11,250.00	11,286.71	11,251.00	40.09	40.70	89.91	1.00	605.24	605.24	525.19	80.05	7.561			
11,300.00	11,300.00	11,336.71	11,301.00	40.27	40.81	89.91	1.00	605.24	605.24	524.90	80.34	7.533			
11,350.00	11,350.00	11,386.71	11,351.00	40.45	40.90	89.91	1.00	605.24	605.24	524.63	80.61	7.508			
11,400.00	11,399.96	11,431.10	11,395.36	40.57	40.93	-90.72	-0.29	605.42	605.47	524.73	80.74	7.499			
11,450.00	11,449.61	11,474.76	11,438.77	40.66	41.00	-90.69	-4.84	606.06	606.26	525.51	80.75	7.508			
11,500.00	11,498.55	11,518.46	11,481.74	40.76	41.09	-90.65	-12.65	607.16	607.63	526.88	80.76	7.524			
11,550.00	11,546.43	11,562.20	11,524.03	40.87	41.18	-90.60	-23.70	608.71	609.57	528.81	80.76	7.548			
11,600.00	11,592.87	11,606.03	11,565.41	40.96	41.26	-90.55	-37.94	610.71	612.06	531.29	80.77	7.578			
11,650.00	11,637.53	11,650.00	11,605.71	41.06	41.35	-90.49	-55.34	613.16	615.09	534.32	80.78	7.615			
11,700.00	11,680.06	11,694.00	11,644.57	41.14	41.43	-90.41	-75.75	616.03	618.65	537.86	80.79	7.658			
11,750.00	11,720.14	11,738.20	11,681.90	41.22	41.51	-90.33	-99.18	619.32	622.71	541.91	80.80	7.706			
11,800.00	11,757.46	11,782.58	11,717.43	41.30	41.59	-90.25	-125.49	623.02	627.25	546.42	80.83	7.760			
11,850.00	11,791.74	11,827.18	11,750.96	41.36	41.65	-90.15	-154.60	627.11	632.24	551.38	80.86	7.819			
11,900.00	11,822.72	11,879.22	11,787.07	41.42	41.69	-90.12	-191.71	632.10	637.47	556.56	80.92	7.878			
11,950.00	11,850.17	11,935.65	11,822.27	41.47	41.75	-90.12	-235.51	637.01	642.30	561.32	80.97	7.932			
12,000.00	11,873.87	11,992.76	11,853.38	41.51	41.82	-90.12	-283.17	641.37	646.60	565.57	81.03	7.980			
12,050.00	11,893.64	12,050.47	11,879.89	41.54	41.87	-90.11	-334.28	645.10	650.35	569.26	81.09	8.020			
12,100.00	11,909.34	12,108.72	11,901.34	41.56	41.92	-90.10	-388.32	648.15	653.49	572.34	81.15	8.053			
12,150.00	11,920.84	12,167.40	11,917.34	41.58	41.95	-90.07	-444.70	650.45	655.99	574.78	81.21	8.078			
12,200.00	11,928.06	12,226.40	11,927.59	41.59	41.98	-90.04	-502.76	651.96	657.83	576.54	81.28	8.093			
12,250.00	11,930.94	12,285.61	11,931.87	41.60	42.01	-90.01	-561.78	652.65	658.97	577.61	81.36	8.099			
12,300.00	11,931.00	12,337.53	11,932.00	41.61	42.03	-90.00	-613.71	652.76	659.25	577.80	81.45	8.094			
12,350.00	11,931.00	12,387.53	11,932.00	41.61	42.05	-90.00	-663.71	652.85	659.25	577.70	81.55	8.084			
12,400.00	11,931.00	12,437.53	11,932.00	41.62	42.07	-90.00	-713.71	652.94	659.26	577.60	81.66	8.074			
12,450.00	11,931.00	12,487.53	11,932.00	41.62	42.09	-90.00	-763.71	653.03	659.26	577.49	81.77	8.062			
12,500.00	11,931.00	12,537.53	11,932.00	41.63	42.12	-90.00	-813.71	653.12	659.27	577.37	81.90	8.050			
12,550.00	11,931.00	12,587.53	11,932.00	41.64	42.14	-90.00	-863.71	653.21	659.27	577.24	82.03	8.037			
12,600.00	11,931.00	12,637.53	11,932.00	41.65	42.17	-90.00	-913.71	653.30	659.27	577.11	82.16	8.024			
12,650.00	11,931.00	12,687.53	11,932.00	41.65	42.21	-90.00	-963.71	653.39	659.28	576.97	82.31	8.010			
12,700.00	11,931.00	12,737.53	11,932.00	41.66	42.24	-90.00	-1,013.71	653.48	659.28	576.82	82.46	7.995			
12,750.00	11,931.00	12,787.53	11,932.00	41.68	42.28	-90.00	-1,063.71	653.57	659.28	576.67	82.61	7.980			
12,800.00	11,931.00	12,837.53	11,932.00	41.69	42.33	-90.00	-1,113.71	653.65	659.29	576.51	82.78	7.965			
12,850.00	11,931.00	12,887.53	11,932.00	41.72	42.37	-90.00	-1,163.71	653.74	659.29	576.34	82.95	7.948			
12,900.00	11,931.00	12,937.53	11,932.00	41.77	42.42	-90.00	-1,213.71	653.83	659.29	576.17	83.13	7.931			
12,950.00	11,931.00	12,987.53	11,932.00	41.84	42.48	-90.00	-1,263.71	653.92	659.30	575.99	83.31	7.914			
13,000.00	11,931.00	13,037.53	11,932.00	41.93	42.54	-90.00	-1,313.71	654.01	659.30	575.80	83.50	7.896			
13,050.00	11,931.00	13,087.53	11,932.00	42.03	42.60	-90.00	-1,363.71	654.10	659.31	575.61	83.70	7.877			
13,100.00	11,931.00	13,137.53	11,932.00	42.12	42.67	-90.00	-1,413.71	654.19	659.31	575.41	83.90	7.858			
13,150.00	11,931.00	13,187.53	11,932.00	42.23	42.75	-90.00	-1,463.70	654.28	659.31	575.20	84.11	7.838			
13,200.00	11,931.00	13,237.53	11,932.00	42.33	42.82	-90.00	-1,513.70	654.37	659.32	574.99	84.33	7.818			
13,250.00	11,931.00	13,287.53	11,932.00	42.44	42.91	-90.00	-1,563.70	654.46	659.32	574.77	84.55	7.798			
13,300.00	11,931.00	13,337.53	11,932.00	42.56	43.00	-90.00	-1,613.70	654.55	659.32	574.54	84.78	7.777			
13,350.00	11,931.00	13,387.53	11,932.00	42.67	43.09	-90.00	-1,663.70	654.64	659.33	574.31	85.02	7.755			
13,400.00	11,931.00	13,437.53	11,932.00	42.79	43.19	-90.00	-1,713.70	654.73	659.33	574.07	85.26	7.733			
13,450.00	11,931.00	13,487.53	11,932.00	42.92	43.29	-90.00	-1,763.70	654.81	659.34	573.83	85.51	7.711			
13,500.00	11,931.00	13,537.53	11,932.00	43.04	43.40	-90.00	-1,813.70	654.90	659.34	573.58	85.76	7.688			
13,550.00	11,931.00	13,587.53	11,932.00	43.17	43.51	-90.00	-1,863.70	654.99	659.34	573.32	86.02	7.665			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 11393-MWD-HFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,600.00	11,931.00	13,637.53	11,932.00	43.30	43.63	-90.00	-1,913.70	655.08	659.35	573.06	86.29	7.641	
13,650.00	11,931.00	13,687.53	11,932.00	43.44	43.74	-90.00	-1,963.70	655.17	659.35	572.79	86.56	7.617	
13,700.00	11,931.00	13,737.53	11,932.00	43.58	43.87	-90.00	-2,013.70	655.26	659.35	572.52	86.84	7.593	
13,750.00	11,931.00	13,787.53	11,932.00	43.72	44.00	-90.00	-2,063.70	655.35	659.36	572.23	87.12	7.568	
13,800.00	11,931.00	13,837.53	11,932.00	43.86	44.13	-90.00	-2,113.70	655.44	659.36	571.95	87.41	7.543	
13,850.00	11,931.00	13,887.53	11,932.00	44.01	44.27	-90.00	-2,163.70	655.53	659.37	571.66	87.71	7.518	
13,900.00	11,931.00	13,937.53	11,932.00	44.16	44.41	-90.00	-2,213.70	655.62	659.37	571.36	88.01	7.492	
13,950.00	11,931.00	13,987.53	11,932.00	44.31	44.55	-90.00	-2,263.70	655.71	659.37	571.06	88.32	7.466	
14,000.00	11,931.00	14,037.53	11,932.00	44.47	44.70	-90.00	-2,313.70	655.80	659.38	570.75	88.63	7.440	
14,050.00	11,931.00	14,087.53	11,932.00	44.63	44.84	-90.00	-2,363.70	655.88	659.38	570.43	88.95	7.413	
14,100.00	11,931.00	14,137.53	11,932.00	44.79	45.00	-90.00	-2,413.70	655.97	659.38	570.11	89.27	7.386	
14,150.00	11,931.00	14,187.53	11,932.00	44.95	45.15	-90.00	-2,463.70	656.06	659.39	569.79	89.60	7.359	
14,200.00	11,931.00	14,237.53	11,932.00	45.12	45.31	-90.00	-2,513.70	656.15	659.39	569.46	89.93	7.332	
14,250.00	11,931.00	14,287.53	11,932.00	45.29	45.48	-90.00	-2,563.70	656.24	659.39	569.12	90.27	7.305	
14,300.00	11,931.00	14,337.53	11,932.00	45.46	45.64	-90.00	-2,613.70	656.33	659.40	568.78	90.62	7.277	
14,350.00	11,931.00	14,387.53	11,932.00	45.63	45.81	-90.00	-2,663.70	656.42	659.40	568.44	90.97	7.249	
14,400.00	11,931.00	14,437.53	11,932.00	45.81	45.98	-90.00	-2,713.70	656.51	659.41	568.09	91.32	7.221	
14,450.00	11,931.00	14,487.53	11,932.00	45.99	46.16	-90.00	-2,763.70	656.60	659.41	567.73	91.68	7.193	
14,500.00	11,931.00	14,537.53	11,932.00	46.17	46.33	-90.00	-2,813.70	656.69	659.41	567.37	92.04	7.164	
14,550.00	11,931.00	14,587.53	11,932.00	46.35	46.51	-90.00	-2,863.70	656.78	659.42	567.00	92.41	7.135	
14,600.00	11,931.00	14,637.53	11,932.00	46.54	46.70	-90.00	-2,913.70	656.87	659.42	566.63	92.79	7.107	
14,650.00	11,931.00	14,687.53	11,932.00	46.73	46.88	-90.00	-2,963.70	656.95	659.42	566.26	93.17	7.078	
14,700.00	11,931.00	14,737.53	11,932.00	46.92	47.07	-90.00	-3,013.70	657.04	659.43	565.88	93.55	7.049	
14,750.00	11,931.00	14,787.53	11,932.00	47.11	47.26	-90.00	-3,063.70	657.13	659.43	565.49	93.94	7.020	
14,800.00	11,931.00	14,837.53	11,932.00	47.31	47.45	-90.00	-3,113.70	657.22	659.44	565.10	94.33	6.991	
14,850.00	11,931.00	14,887.53	11,932.00	47.51	47.65	-90.00	-3,163.70	657.31	659.44	564.71	94.73	6.961	
14,900.00	11,931.00	14,937.53	11,932.00	47.71	47.84	-90.00	-3,213.70	657.40	659.44	564.31	95.13	6.932	
14,950.00	11,931.00	14,987.53	11,932.00	47.91	48.04	-90.00	-3,263.70	657.49	659.45	563.91	95.54	6.902	
15,000.00	11,931.00	15,037.53	11,932.00	48.11	48.25	-90.00	-3,313.70	657.58	659.45	563.50	95.95	6.873	
15,050.00	11,931.00	15,087.53	11,932.00	48.32	48.45	-90.00	-3,363.70	657.67	659.45	563.09	96.37	6.843	
15,100.00	11,931.00	15,137.53	11,932.00	48.53	48.66	-90.00	-3,413.70	657.76	659.46	562.67	96.78	6.814	
15,150.00	11,931.00	15,187.53	11,932.00	48.74	48.87	-90.00	-3,463.70	657.85	659.46	562.25	97.21	6.784	
15,200.00	11,931.00	15,237.53	11,932.00	48.95	49.08	-90.00	-3,513.70	657.94	659.47	561.83	97.64	6.754	
15,250.00	11,931.00	15,287.53	11,932.00	49.17	49.29	-90.00	-3,563.70	658.03	659.47	561.40	98.07	6.725	
15,300.00	11,931.00	15,337.53	11,932.00	49.39	49.51	-90.00	-3,613.70	658.11	659.47	560.97	98.50	6.695	
15,350.00	11,931.00	15,387.53	11,932.00	49.61	49.72	-90.00	-3,663.70	658.20	659.48	560.53	98.94	6.665	
15,400.00	11,931.00	15,437.53	11,932.00	49.83	49.94	-90.00	-3,713.70	658.29	659.48	560.09	99.39	6.635	
15,450.00	11,931.00	15,487.53	11,932.00	50.05	50.16	-90.00	-3,763.70	658.38	659.48	559.65	99.84	6.606	
15,500.00	11,931.00	15,537.53	11,932.00	50.28	50.39	-90.00	-3,813.70	658.47	659.49	559.20	100.29	6.576	
15,550.00	11,931.00	15,587.53	11,932.00	50.50	50.61	-90.00	-3,863.70	658.56	659.49	558.75	100.74	6.546	
15,600.00	11,931.00	15,637.53	11,932.00	50.73	50.84	-90.00	-3,913.70	658.65	659.49	558.29	101.20	6.517	
15,650.00	11,931.00	15,687.53	11,932.00	50.96	51.07	-90.00	-3,963.70	658.74	659.50	557.83	101.67	6.487	
15,700.00	11,931.00	15,737.53	11,932.00	51.20	51.30	-90.00	-4,013.70	658.83	659.50	557.37	102.13	6.457	
15,750.00	11,931.00	15,787.53	11,932.00	51.43	51.53	-90.00	-4,063.70	658.92	659.51	556.90	102.60	6.428	
15,800.00	11,931.00	15,837.53	11,932.00	51.67	51.77	-90.00	-4,113.70	659.01	659.51	556.43	103.08	6.398	
15,850.00	11,931.00	15,887.53	11,932.00	51.91	52.01	-90.00	-4,163.70	659.10	659.51	555.96	103.55	6.369	
15,900.00	11,931.00	15,937.53	11,932.00	52.14	52.25	-90.00	-4,213.70	659.18	659.52	555.48	104.03	6.339	
15,950.00	11,931.00	15,987.53	11,932.00	52.39	52.49	-90.00	-4,263.70	659.27	659.52	555.00	104.52	6.310	
16,000.00	11,931.00	16,037.53	11,932.00	52.63	52.73	-90.00	-4,313.70	659.36	659.52	554.52	105.01	6.281	
16,050.00	11,931.00	16,087.53	11,932.00	52.87	52.97	-90.00	-4,363.70	659.45	659.53	554.03	105.50	6.252	
16,100.00	11,931.00	16,137.53	11,932.00	53.12	53.22	-90.00	-4,413.70	659.54	659.53	553.54	105.99	6.223	
16,150.00	11,931.00	16,187.53	11,932.00	53.37	53.46	-90.00	-4,463.70	659.63	659.54	553.05	106.49	6.194	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTG Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft		
Survey Program: 0-MWD, 11393-MWD-HFRT+MS										Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)		
16,200.00	11,931.00	16,237.53	11,932.00	53.62	53.71	-90.00	-4,513.70	659.72	659.54	552.55	106.99	6.165
16,250.00	11,931.00	16,287.53	11,932.00	53.87	53.96	-90.00	-4,563.70	659.81	659.54	552.05	107.49	6.136
16,300.00	11,931.00	16,337.53	11,932.00	54.12	54.21	-90.00	-4,613.70	659.90	659.55	551.55	108.00	6.107
16,350.00	11,931.00	16,387.53	11,932.00	54.38	54.47	-90.00	-4,663.70	659.99	659.55	551.04	108.51	6.078
16,400.00	11,931.00	16,437.53	11,932.00	54.63	54.72	-90.00	-4,713.70	660.08	659.55	550.53	109.02	6.050
16,450.00	11,931.00	16,487.53	11,932.00	54.89	54.98	-90.00	-4,763.70	660.17	659.56	550.02	109.54	6.021
16,500.00	11,931.00	16,537.53	11,932.00	55.15	55.24	-90.00	-4,813.70	660.25	659.56	549.51	110.05	5.993
16,550.00	11,931.00	16,587.53	11,932.00	55.41	55.50	-90.00	-4,863.70	660.34	659.57	548.99	110.58	5.965
16,600.00	11,931.00	16,637.53	11,932.00	55.67	55.76	-90.00	-4,913.70	660.43	659.57	548.47	111.10	5.937
16,650.00	11,931.00	16,687.53	11,932.00	55.93	56.02	-90.00	-4,963.70	660.52	659.57	547.95	111.63	5.909
16,700.00	11,931.00	16,737.53	11,932.00	56.20	56.28	-90.00	-5,013.70	660.61	659.58	547.42	112.16	5.881
16,750.00	11,931.00	16,787.53	11,932.00	56.46	56.55	-90.00	-5,063.70	660.70	659.58	546.89	112.69	5.853
16,800.00	11,931.00	16,837.53	11,932.00	56.73	56.81	-90.00	-5,113.70	660.79	659.58	546.36	113.22	5.826
16,850.00	11,931.00	16,887.53	11,932.00	57.00	57.08	-90.00	-5,163.70	660.88	659.59	545.83	113.76	5.798
16,900.00	11,931.00	16,937.53	11,932.00	57.27	57.35	-90.00	-5,213.70	660.97	659.59	545.29	114.30	5.771
16,950.00	11,931.00	16,987.53	11,932.00	57.54	57.62	-90.00	-5,263.70	661.06	659.59	544.75	114.84	5.743
17,000.00	11,931.00	17,037.53	11,932.00	57.81	57.89	-90.00	-5,313.70	661.15	659.60	544.21	115.39	5.716
17,050.00	11,931.00	17,087.53	11,932.00	58.08	58.16	-90.00	-5,363.70	661.24	659.60	543.67	115.94	5.689
17,100.00	11,931.00	17,137.53	11,932.00	58.36	58.44	-90.00	-5,413.70	661.33	659.61	543.12	116.49	5.662
17,150.00	11,931.00	17,187.53	11,932.00	58.63	58.71	-90.00	-5,463.70	661.41	659.61	542.57	117.04	5.636
17,200.00	11,931.00	17,237.53	11,932.00	58.91	58.99	-90.00	-5,513.70	661.50	659.61	542.02	117.59	5.609
17,250.00	11,931.00	17,287.53	11,932.00	59.19	59.27	-90.00	-5,563.70	661.59	659.62	541.46	118.15	5.583
17,300.00	11,931.00	17,337.53	11,932.00	59.47	59.55	-90.00	-5,613.70	661.68	659.62	540.91	118.71	5.556
17,350.00	11,931.00	17,387.53	11,932.00	59.75	59.83	-90.00	-5,663.70	661.77	659.62	540.35	119.27	5.530
17,400.00	11,931.00	17,437.53	11,932.00	60.03	60.11	-90.00	-5,713.70	661.86	659.63	539.79	119.84	5.504
17,450.00	11,931.00	17,487.53	11,932.00	60.31	60.39	-90.00	-5,763.70	661.95	659.63	539.23	120.40	5.478
17,500.00	11,931.00	17,537.53	11,932.00	60.60	60.67	-90.00	-5,813.70	662.04	659.64	538.66	120.97	5.453
17,550.00	11,931.00	17,587.53	11,932.00	60.88	60.96	-90.00	-5,863.70	662.13	659.64	538.09	121.54	5.427
17,600.00	11,931.00	17,637.53	11,932.00	61.17	61.24	-90.00	-5,913.70	662.22	659.64	537.53	122.12	5.402
17,650.00	11,931.00	17,687.53	11,932.00	61.45	61.53	-90.00	-5,963.70	662.31	659.65	536.95	122.69	5.376
17,700.00	11,931.00	17,737.53	11,932.00	61.74	61.82	-90.00	-6,013.70	662.40	659.65	536.38	123.27	5.351
17,750.00	11,931.00	17,787.53	11,932.00	62.03	62.11	-90.00	-6,063.70	662.48	659.65	535.81	123.85	5.326
17,800.00	11,931.00	17,837.53	11,932.00	62.32	62.40	-90.00	-6,113.70	662.57	659.66	535.23	124.43	5.301
17,850.00	11,931.00	17,887.53	11,932.00	62.61	62.69	-90.00	-6,163.70	662.66	659.66	534.65	125.01	5.277
17,900.00	11,931.00	17,937.53	11,932.00	62.90	62.98	-90.00	-6,213.70	662.75	659.67	534.07	125.60	5.252
17,950.00	11,931.00	17,987.53	11,932.00	63.20	63.27	-90.00	-6,263.70	662.84	659.67	533.48	126.19	5.228
18,000.00	11,931.00	18,037.53	11,932.00	63.49	63.56	-90.00	-6,313.70	662.93	659.67	532.90	126.77	5.204
18,050.00	11,931.00	18,087.53	11,932.00	63.79	63.86	-90.00	-6,363.70	663.02	659.68	532.31	127.37	5.179
18,100.00	11,931.00	18,137.53	11,932.00	64.08	64.16	-90.00	-6,413.70	663.11	659.68	531.72	127.96	5.155
18,150.00	11,931.00	18,187.53	11,932.00	64.38	64.45	-90.00	-6,463.70	663.20	659.68	531.13	128.55	5.132
18,200.00	11,931.00	18,237.53	11,932.00	64.68	64.75	-90.00	-6,513.70	663.29	659.69	530.54	129.15	5.108
18,250.00	11,931.00	18,287.53	11,932.00	64.97	65.05	-90.00	-6,563.70	663.38	659.69	529.94	129.75	5.084
18,300.00	11,931.00	18,337.53	11,932.00	65.27	65.35	-90.00	-6,613.70	663.47	659.69	529.35	130.35	5.061
18,350.00	11,931.00	18,387.53	11,932.00	65.57	65.65	-90.00	-6,663.70	663.56	659.70	528.75	130.95	5.038
18,400.00	11,931.00	18,437.53	11,932.00	65.87	65.95	-90.00	-6,713.70	663.64	659.70	528.15	131.55	5.015
18,450.00	11,931.00	18,487.53	11,932.00	66.18	66.25	-90.00	-6,763.70	663.73	659.71	527.55	132.16	4.992
18,500.00	11,931.00	18,537.53	11,932.00	66.48	66.55	-90.00	-6,813.70	663.82	659.71	526.95	132.76	4.969
18,550.00	11,931.00	18,587.53	11,932.00	66.78	66.85	-90.00	-6,863.70	663.91	659.71	526.34	133.37	4.946
18,600.00	11,931.00	18,637.53	11,932.00	67.09	67.16	-90.00	-6,913.70	664.00	659.72	525.74	133.98	4.924
18,650.00	11,931.00	18,687.53	11,932.00	67.39	67.46	-90.00	-6,963.70	664.09	659.72	525.13	134.59	4.902
18,700.00	11,931.00	18,737.53	11,932.00	67.70	67.77	-90.00	-7,013.70	664.18	659.72	524.52	135.21	4.879
18,750.00	11,931.00	18,787.53	11,932.00	68.01	68.08	-90.00	-7,063.70	664.27	659.73	523.91	135.82	4.857

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 11393-MWD-HFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,800.00	11,931.00	18,837.53	11,932.00	68.31	68.38	-90.00	-7,113.70	664.36	659.73	523.30	136.44	4.835	
18,850.00	11,931.00	18,887.53	11,932.00	68.62	68.69	-90.00	-7,163.70	664.45	659.74	522.68	137.05	4.814	
18,900.00	11,931.00	18,937.53	11,932.00	68.93	69.00	-90.00	-7,213.70	664.54	659.74	522.07	137.67	4.792	
18,950.00	11,931.00	18,987.53	11,932.00	69.24	69.31	-90.00	-7,263.70	664.63	659.74	521.45	138.29	4.771	
19,000.00	11,931.00	19,037.53	11,932.00	69.55	69.62	-90.00	-7,313.70	664.71	659.75	520.83	138.92	4.749	
19,050.00	11,931.00	19,087.53	11,932.00	69.86	69.93	-90.00	-7,363.70	664.80	659.75	520.21	139.54	4.728	
19,100.00	11,931.00	19,137.53	11,932.00	70.17	70.24	-90.00	-7,413.70	664.89	659.75	519.59	140.16	4.707	
19,150.00	11,931.00	19,187.53	11,932.00	70.49	70.56	-90.00	-7,463.70	664.98	659.76	518.97	140.79	4.686	
19,200.00	11,931.00	19,237.53	11,932.00	70.80	70.87	-90.00	-7,513.70	665.07	659.76	518.34	141.42	4.665	
19,250.00	11,931.00	19,287.53	11,932.00	71.12	71.18	-90.00	-7,563.70	665.16	659.77	517.72	142.05	4.645	
19,300.00	11,931.00	19,337.53	11,932.00	71.43	71.50	-90.00	-7,613.70	665.25	659.77	517.09	142.68	4.624	
19,350.00	11,931.00	19,387.53	11,932.00	71.75	71.81	-90.00	-7,663.70	665.34	659.77	516.46	143.31	4.604	
19,400.00	11,931.00	19,437.53	11,932.00	72.06	72.13	-90.00	-7,713.70	665.43	659.78	515.83	143.94	4.584	
19,450.00	11,931.00	19,487.53	11,932.00	72.38	72.44	-90.00	-7,763.70	665.52	659.78	515.20	144.58	4.564	
19,500.00	11,931.00	19,537.53	11,932.00	72.69	72.76	-90.00	-7,813.69	665.61	659.78	514.57	145.21	4.544	
19,550.00	11,931.00	19,587.53	11,932.00	73.01	73.08	-90.00	-7,863.69	665.70	659.79	513.94	145.85	4.524	
19,600.00	11,931.00	19,637.53	11,932.00	73.33	73.40	-90.00	-7,913.69	665.78	659.79	513.31	146.49	4.504	
19,650.00	11,931.00	19,687.53	11,932.00	73.65	73.72	-90.00	-7,963.69	665.87	659.79	512.67	147.13	4.485	
19,700.00	11,931.00	19,737.53	11,932.00	73.97	74.04	-90.00	-8,013.69	665.96	659.80	512.03	147.77	4.465	
19,750.00	11,931.00	19,787.53	11,932.00	74.29	74.36	-90.00	-8,063.69	666.05	659.80	511.40	148.41	4.446	
19,800.00	11,931.00	19,837.53	11,932.00	74.61	74.68	-90.00	-8,113.69	666.14	659.81	510.76	149.05	4.427	
19,850.00	11,931.00	19,887.53	11,932.00	74.93	75.00	-90.00	-8,163.69	666.23	659.81	510.12	149.69	4.408	
19,900.00	11,931.00	19,937.53	11,932.00	75.26	75.32	-90.00	-8,213.69	666.32	659.81	509.47	150.34	4.389	
19,950.00	11,931.00	19,987.53	11,932.00	75.58	75.64	-90.00	-8,263.69	666.41	659.82	508.83	150.98	4.370	
20,000.00	11,931.00	20,037.53	11,932.00	75.90	75.97	-90.00	-8,313.69	666.50	659.82	508.19	151.63	4.351	
20,050.00	11,931.00	20,087.53	11,932.00	76.23	76.29	-90.00	-8,363.69	666.59	659.82	507.54	152.28	4.333	
20,100.00	11,931.00	20,137.53	11,932.00	76.55	76.61	-90.00	-8,413.69	666.68	659.83	506.90	152.93	4.315	
20,150.00	11,931.00	20,187.53	11,932.00	76.87	76.94	-90.00	-8,463.69	666.77	659.83	506.25	153.58	4.296	
20,200.00	11,931.00	20,237.53	11,932.00	77.20	77.26	-90.00	-8,513.69	666.86	659.84	505.60	154.23	4.278	
20,250.00	11,931.00	20,287.53	11,932.00	77.53	77.59	-90.00	-8,563.69	666.94	659.84	504.95	154.88	4.260	
20,300.00	11,931.00	20,337.53	11,932.00	77.85	77.92	-90.00	-8,613.69	667.03	659.84	504.31	155.54	4.242	
20,350.00	11,931.00	20,387.53	11,932.00	78.18	78.24	-90.00	-8,663.69	667.12	659.85	503.65	156.19	4.225	
20,400.00	11,931.00	20,437.53	11,932.00	78.51	78.57	-90.00	-8,713.69	667.21	659.85	503.00	156.85	4.207	
20,450.00	11,931.00	20,487.53	11,932.00	78.83	78.90	-90.00	-8,763.69	667.30	659.85	502.35	157.50	4.189	
20,500.00	11,931.00	20,537.53	11,932.00	79.16	79.23	-90.00	-8,813.69	667.39	659.86	501.70	158.16	4.172	
20,550.00	11,931.00	20,587.53	11,932.00	79.49	79.56	-90.00	-8,863.69	667.48	659.86	501.04	158.82	4.155	
20,600.00	11,931.00	20,637.53	11,932.00	79.82	79.88	-90.00	-8,913.69	667.57	659.87	500.38	159.48	4.138	
20,650.00	11,931.00	20,687.53	11,932.00	80.15	80.21	-90.00	-8,963.69	667.66	659.87	499.73	160.14	4.121	
20,700.00	11,931.00	20,737.53	11,932.00	80.48	80.54	-90.00	-9,013.69	667.75	659.87	499.07	160.80	4.104	
20,750.00	11,931.00	20,787.53	11,932.00	80.81	80.88	-90.00	-9,063.69	667.84	659.88	498.41	161.46	4.087	
20,800.00	11,931.00	20,837.53	11,932.00	81.14	81.21	-90.00	-9,113.69	667.93	659.88	497.75	162.13	4.070	
20,850.00	11,931.00	20,887.53	11,932.00	81.48	81.54	-90.00	-9,163.69	668.01	659.88	497.09	162.79	4.054	
20,900.00	11,931.00	20,937.53	11,932.00	81.81	81.87	-90.00	-9,213.69	668.10	659.89	496.43	163.46	4.037	
20,950.00	11,931.00	20,987.53	11,932.00	82.14	82.20	-90.00	-9,263.69	668.19	659.89	495.77	164.12	4.021	
21,000.00	11,931.00	21,037.53	11,932.00	82.47	82.54	-90.00	-9,313.69	668.28	659.89	495.11	164.79	4.004	
21,050.00	11,931.00	21,087.53	11,932.00	82.81	82.87	-90.00	-9,363.69	668.37	659.90	494.44	165.46	3.988	
21,100.00	11,931.00	21,137.53	11,932.00	83.14	83.20	-90.00	-9,413.69	668.46	659.90	493.78	166.13	3.972	
21,150.00	11,931.00	21,187.53	11,932.00	83.47	83.54	-90.00	-9,463.69	668.55	659.91	493.11	166.79	3.956	
21,200.00	11,931.00	21,237.53	11,932.00	83.81	83.87	-90.00	-9,513.69	668.64	659.91	492.44	167.46	3.941	
21,250.00	11,931.00	21,287.53	11,932.00	84.14	84.21	-90.00	-9,563.69	668.73	659.91	491.78	168.14	3.925	
21,300.00	11,931.00	21,337.53	11,932.00	84.48	84.54	-90.00	-9,613.69	668.82	659.92	491.11	168.81	3.909	
21,350.00	11,931.00	21,387.53	11,932.00	84.82	84.88	-90.00	-9,663.69	668.91	659.92	490.44	169.48	3.894	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 104H - 104H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 11393-MWD-HFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi-Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,400.00	11,931.00	21,437.53	11,932.00	85.15	85.21	-90.00	-9,713.69	669.00	659.92	489.77	170.15	3.878	
21,450.00	11,931.00	21,487.53	11,932.00	85.49	85.55	-90.00	-9,763.69	669.08	659.93	489.10	170.83	3.863	
21,500.00	11,931.00	21,537.53	11,932.00	85.83	85.89	-90.00	-9,813.69	669.17	659.93	488.43	171.50	3.848	
21,550.00	11,931.00	21,587.53	11,932.00	86.16	86.22	-90.00	-9,863.69	669.26	659.94	487.76	172.18	3.833	
21,600.00	11,931.00	21,637.53	11,932.00	86.50	86.56	-90.00	-9,913.69	669.35	659.94	487.08	172.85	3.818	
21,650.00	11,931.00	21,687.53	11,932.00	86.84	86.90	-90.00	-9,963.69	669.44	659.94	486.41	173.53	3.803	
21,700.00	11,931.00	21,737.53	11,932.00	87.18	87.24	-90.00	-10,013.69	669.53	659.95	485.74	174.21	3.788	
21,750.00	11,931.00	21,787.53	11,932.00	87.52	87.58	-90.00	-10,063.69	669.62	659.95	485.06	174.89	3.774	
21,800.00	11,931.00	21,837.53	11,932.00	87.86	87.92	-90.00	-10,113.69	669.71	659.95	484.39	175.57	3.759	
21,850.00	11,931.00	21,887.53	11,932.00	88.20	88.26	-90.00	-10,163.69	669.80	659.96	483.71	176.25	3.745	
21,900.00	11,931.00	21,937.53	11,932.00	88.54	88.60	-90.00	-10,213.69	669.89	659.96	483.03	176.93	3.730	
21,950.00	11,931.00	21,987.53	11,932.00	88.88	88.94	-90.00	-10,263.69	669.98	659.96	482.36	177.61	3.716	
22,000.00	11,931.00	22,037.53	11,932.00	89.22	89.28	-90.00	-10,313.69	670.07	659.97	481.68	178.29	3.702	
22,050.00	11,931.00	22,087.53	11,932.00	89.56	89.62	-90.00	-10,363.69	670.16	659.97	481.00	178.97	3.688	
22,100.00	11,931.00	22,137.53	11,932.00	89.90	89.96	-90.00	-10,413.69	670.24	659.98	480.32	179.66	3.674	
22,150.00	11,931.00	22,187.53	11,932.00	90.24	90.30	-90.00	-10,463.69	670.33	659.98	479.64	180.34	3.660	
22,200.00	11,931.00	22,237.53	11,932.00	90.58	90.64	-90.00	-10,513.69	670.42	659.98	478.96	181.03	3.646	
22,250.00	11,931.00	22,287.53	11,932.00	90.93	90.99	-90.00	-10,563.69	670.51	659.99	478.28	181.71	3.632	
22,300.00	11,931.00	22,337.53	11,932.00	91.27	91.33	-90.00	-10,613.69	670.60	659.99	477.59	182.40	3.618	
22,350.00	11,931.00	22,387.53	11,932.00	91.61	91.67	-90.00	-10,663.69	670.69	659.99	476.91	183.08	3.605	
22,400.00	11,931.00	22,437.53	11,932.00	91.95	92.01	-90.00	-10,713.69	670.78	660.00	476.23	183.77	3.591	
22,450.00	11,931.00	22,487.53	11,932.00	92.30	92.36	-90.00	-10,763.69	670.87	660.00	475.54	184.46	3.578	
22,500.00	11,931.00	22,537.53	11,932.00	92.64	92.70	-90.00	-10,813.69	670.96	660.01	474.86	185.15	3.565	
22,501.62	11,931.00	22,539.16	11,932.00	92.65	92.71	-90.00	-10,815.31	670.96	660.01	474.84	185.17	3.564	
22,527.33	11,931.00	22,561.76	11,932.00	92.83	92.89	-90.00	-10,837.92	671.00	660.02	474.49	185.53	3.558 SF	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 123H - 123H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10441-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	89.62	0.40	60.10	60.10				
50.00	50.00	51.00	51.00	0.03	0.06	89.62	0.40	60.10	60.10	60.01	0.09	655.305	
100.00	100.00	101.00	101.00	0.12	0.12	89.62	0.40	60.10	60.10	59.86	0.24	246.558	
150.00	150.00	151.00	151.00	0.30	0.30	89.62	0.40	60.10	60.10	59.50	0.60	99.798	
200.00	200.00	201.00	201.00	0.48	0.48	89.62	0.40	60.10	60.10	59.14	0.96	62.560	
250.00	250.00	251.00	251.00	0.66	0.66	89.62	0.40	60.10	60.10	58.78	1.32	45.560	
300.00	300.00	301.00	301.00	0.84	0.84	89.62	0.40	60.10	60.10	58.42	1.68	35.825	
350.00	350.00	351.00	351.00	1.02	1.02	89.62	0.40	60.10	60.10	58.07	2.04	29.518	
400.00	400.00	401.00	401.00	1.20	1.20	89.62	0.40	60.10	60.10	57.71	2.39	25.099	
450.00	450.00	451.00	451.00	1.37	1.38	89.62	0.40	60.10	60.10	57.35	2.75	21.831	
500.00	500.00	501.00	501.00	1.55	1.56	89.62	0.40	60.10	60.10	56.99	3.11	19.316	
550.00	550.00	551.00	551.00	1.73	1.74	89.62	0.40	60.10	60.10	56.63	3.47	17.320	
600.00	600.00	601.00	601.00	1.91	1.92	89.62	0.40	60.10	60.10	56.27	3.83	15.698	
650.00	650.00	651.00	651.00	2.09	2.10	89.62	0.40	60.10	60.10	55.91	4.19	14.354	
700.00	700.00	701.00	701.00	2.27	2.27	89.62	0.40	60.10	60.10	55.56	4.55	13.222	
750.00	750.00	751.00	751.00	2.45	2.45	89.62	0.40	60.10	60.10	55.20	4.90	12.256	
800.00	800.00	801.00	801.00	2.63	2.63	89.62	0.40	60.10	60.10	54.84	5.26	11.421	
850.00	850.00	851.00	851.00	2.81	2.81	89.62	0.40	60.10	60.10	54.48	5.62	10.693	
900.00	900.00	901.00	901.00	2.99	2.99	89.62	0.40	60.10	60.10	54.12	5.98	10.052	
950.00	950.00	951.00	951.00	3.17	3.17	89.62	0.40	60.10	60.10	53.76	6.34	9.483	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.35	89.62	0.40	60.10	60.10	53.41	6.70	8.975	
1,050.00	1,050.00	1,051.00	1,051.00	3.53	3.53	89.62	0.40	60.10	60.10	53.05	7.05	8.519	
1,100.00	1,100.00	1,101.00	1,101.00	3.70	3.71	89.62	0.40	60.10	60.10	52.69	7.41	8.107	
1,150.00	1,150.00	1,151.00	1,151.00	3.88	3.89	89.62	0.40	60.10	60.10	52.33	7.77	7.733	
1,157.99	1,157.99	1,158.99	1,158.99	3.91	3.92	89.62	0.40	60.10	60.10	52.27	7.83	7.677 CC	
1,200.00	1,200.00	1,200.99	1,200.99	4.06	4.07	89.62	0.40	60.10	60.10	51.97	8.13	7.393	
1,250.00	1,250.00	1,250.55	1,250.54	4.24	4.24	89.88	0.13	60.29	60.29	51.82	8.48	7.111 ES	
1,300.00	1,300.00	1,300.00	1,299.99	4.42	4.41	90.63	-0.67	60.85	60.86	52.04	8.83	6.896	
1,350.00	1,350.00	1,349.59	1,349.55	4.60	4.57	91.85	-2.00	61.78	61.83	52.66	9.17	6.744	
1,400.00	1,400.00	1,399.04	1,398.95	4.78	4.73	93.49	-3.85	63.07	63.22	53.72	9.51	6.650	
1,450.00	1,450.00	1,448.43	1,448.25	4.96	4.90	95.48	-6.22	64.73	65.09	55.24	9.85	6.609	
1,500.00	1,500.00	1,497.73	1,497.43	5.14	5.06	97.76	-9.10	66.75	67.46	57.28	10.19	6.622	
1,550.00	1,550.00	1,547.11	1,546.64	5.32	5.23	100.24	-12.49	69.13	70.38	59.85	10.53	6.684	
1,600.00	1,600.00	1,596.92	1,596.26	5.50	5.40	102.63	-16.05	71.62	73.54	62.67	10.88	6.762	
1,650.00	1,650.00	1,646.73	1,645.88	5.68	5.58	104.82	-19.60	74.11	76.83	65.60	11.22	6.845	
1,700.00	1,700.00	1,696.54	1,695.50	5.86	5.75	106.82	-23.16	76.60	80.21	68.64	11.57	6.932	
1,750.00	1,750.00	1,746.35	1,745.12	6.03	5.92	108.66	-26.71	79.09	83.68	71.76	11.92	7.020	
1,800.00	1,800.00	1,796.16	1,794.74	6.21	6.10	110.36	-30.27	81.58	87.24	74.97	12.27	7.109	
1,850.00	1,850.00	1,845.97	1,844.36	6.39	6.28	111.92	-33.83	84.07	90.86	78.24	12.62	7.199	
1,900.00	1,900.00	1,895.78	1,893.98	6.57	6.46	113.36	-37.38	86.56	94.54	81.57	12.97	7.288	
1,950.00	1,950.00	1,945.59	1,943.60	6.75	6.63	114.69	-40.94	89.05	98.29	84.96	13.32	7.377	
2,000.00	2,000.00	1,995.40	1,993.22	6.93	6.81	115.92	-44.50	91.54	102.07	88.40	13.68	7.464	
2,050.00	2,050.00	2,045.21	2,042.84	7.11	6.99	117.07	-48.05	94.03	105.91	91.88	14.03	7.550	
2,100.00	2,100.00	2,095.02	2,092.46	7.29	7.17	118.13	-51.61	96.52	109.78	95.40	14.38	7.634	
2,150.00	2,150.00	2,144.83	2,142.08	7.47	7.36	119.13	-55.16	99.01	113.69	98.95	14.73	7.716	
2,200.00	2,200.00	2,194.64	2,191.70	7.65	7.54	120.05	-58.72	101.50	117.63	102.54	15.09	7.797	
2,250.00	2,250.00	2,244.45	2,241.32	7.83	7.72	120.92	-62.28	103.99	121.59	106.15	15.44	7.875	
2,300.00	2,300.00	2,294.26	2,290.94	8.01	7.90	121.73	-65.83	106.48	125.59	109.79	15.79	7.952	
2,350.00	2,350.00	2,344.07	2,340.56	8.19	8.09	122.49	-69.39	108.97	129.60	113.46	16.15	8.026	
2,400.00	2,400.00	2,393.88	2,390.18	8.36	8.27	123.20	-72.94	111.46	133.64	117.14	16.50	8.098	
2,450.00	2,450.00	2,443.69	2,439.80	8.54	8.45	123.88	-76.50	113.95	137.70	120.84	16.86	8.169	
2,500.00	2,500.00	2,493.50	2,489.42	8.72	8.64	124.51	-80.06	116.44	141.78	124.56	17.21	8.237	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 123H - 123H Lateral - Plan #1										Offset Site Error		0.00 usft	
Survey Program: 0-MWD, 10441-MWD+IFR1+MS										Offset Well Error		0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,550.00	2,550.00	2,543.31	2,539.04	8.90	8.82	125.11	-83.61	118.93	145.87	128.30	17.57	8.304	
2,600.00	2,600.00	2,593.12	2,588.66	9.08	9.01	125.68	-87.17	121.42	149.97	132.05	17.92	8.368	
2,650.00	2,650.00	2,642.93	2,638.28	9.26	9.19	126.21	-90.72	123.91	154.10	135.82	18.28	8.431	
2,700.00	2,700.00	2,692.74	2,687.90	9.44	9.38	126.72	-94.28	126.40	158.23	139.60	18.63	8.492	
2,750.00	2,750.00	2,742.55	2,737.52	9.62	9.56	127.20	-97.84	128.89	162.37	143.39	18.99	8.551	
2,800.00	2,800.00	2,792.35	2,787.14	9.80	9.75	127.66	-101.39	131.38	166.53	147.19	19.34	8.609	
2,850.00	2,850.00	2,842.16	2,836.76	9.98	9.94	128.10	-104.95	133.87	170.70	151.00	19.70	8.665	
2,900.00	2,900.00	2,891.97	2,886.38	10.16	10.12	128.51	-108.51	136.36	174.87	154.81	20.06	8.719	
2,950.00	2,950.00	2,941.78	2,936.00	10.34	10.31	128.91	-112.06	138.85	179.06	158.64	20.41	8.772	
3,000.00	3,000.00	2,991.59	2,985.62	10.52	10.50	129.28	-115.62	141.34	183.25	162.48	20.77	8.823	
3,050.00	3,050.00	3,041.40	3,035.24	10.69	10.68	129.64	-119.17	143.83	187.45	166.32	21.13	8.873	
3,100.00	3,100.00	3,091.21	3,084.86	10.87	10.87	129.99	-122.73	146.32	191.65	170.17	21.48	8.921	
3,150.00	3,150.00	3,141.02	3,134.48	11.05	11.06	130.32	-126.29	148.81	195.87	174.03	21.84	8.969	
3,200.00	3,200.00	3,190.83	3,184.10	11.23	11.25	130.64	-129.84	151.30	200.09	177.89	22.20	9.015	
3,250.00	3,250.00	3,241.04	3,234.12	11.41	11.44	130.94	-133.42	153.80	204.31	181.75	22.56	9.057	
3,300.00	3,300.00	3,293.65	3,286.56	11.59	11.63	131.22	-136.79	156.16	208.11	185.17	22.94	9.073	
3,350.00	3,350.00	3,346.35	3,339.16	11.77	11.83	131.44	-139.58	158.11	211.24	187.93	23.32	9.060	
3,400.00	3,400.00	3,399.15	3,391.88	11.95	12.02	131.61	-141.77	159.65	213.71	190.02	23.69	9.021	
3,450.00	3,450.00	3,452.00	3,444.70	12.13	12.21	131.73	-143.37	160.77	215.51	191.45	24.06	8.957	
3,500.00	3,500.00	3,504.90	3,497.59	12.31	12.40	131.80	-144.37	161.47	216.63	192.20	24.42	8.869	
3,550.00	3,550.00	3,557.83	3,550.51	12.49	12.58	131.83	-144.77	161.75	217.08	192.29	24.79	8.758	
3,600.00	3,600.00	3,608.31	3,601.00	12.67	12.76	131.83	-144.78	161.76	217.09	191.95	25.14	8.635	
3,650.00	3,650.00	3,658.31	3,651.00	12.85	12.93	131.83	-144.78	161.76	217.09	191.59	25.50	8.514	
3,700.00	3,700.00	3,708.31	3,701.00	13.03	13.10	131.83	-144.78	161.76	217.09	191.24	25.85	8.397	
3,750.00	3,750.00	3,758.31	3,751.00	13.20	13.28	131.83	-144.78	161.76	217.09	190.88	26.21	8.283	
3,800.00	3,800.00	3,808.31	3,801.00	13.38	13.45	131.83	-144.78	161.76	217.09	190.53	26.56	8.173	
3,850.00	3,850.00	3,858.31	3,851.00	13.56	13.62	131.83	-144.78	161.76	217.09	190.17	26.92	8.065	
3,900.00	3,900.00	3,908.31	3,901.00	13.74	13.80	131.83	-144.78	161.76	217.09	189.81	27.27	7.959	
3,950.00	3,950.00	3,958.31	3,951.00	13.92	13.97	131.83	-144.78	161.76	217.09	189.46	27.63	7.857	
4,000.00	4,000.00	4,008.31	4,001.00	14.10	14.15	131.83	-144.78	161.76	217.09	189.10	27.99	7.757	
4,050.00	4,050.00	4,058.31	4,051.00	14.28	14.32	131.83	-144.78	161.76	217.09	188.75	28.34	7.659	
4,100.00	4,100.00	4,108.31	4,101.00	14.46	14.49	131.83	-144.78	161.76	217.09	188.39	28.70	7.564	
4,150.00	4,150.00	4,158.31	4,151.00	14.64	14.67	131.83	-144.78	161.76	217.09	188.03	29.05	7.472	
4,200.00	4,200.00	4,208.31	4,201.00	14.82	14.84	131.83	-144.78	161.76	217.09	187.68	29.41	7.381	
4,250.00	4,250.00	4,258.31	4,251.00	15.00	15.02	131.83	-144.78	161.76	217.09	187.32	29.77	7.293	
4,300.00	4,300.00	4,308.31	4,301.00	15.18	15.19	131.83	-144.78	161.76	217.09	186.97	30.12	7.207	
4,350.00	4,350.00	4,358.31	4,351.00	15.36	15.37	131.83	-144.78	161.76	217.09	186.61	30.48	7.122	
4,400.00	4,400.00	4,408.31	4,401.00	15.53	15.54	131.83	-144.78	161.76	217.09	186.25	30.84	7.040	
4,450.00	4,450.00	4,458.31	4,451.00	15.71	15.72	131.83	-144.78	161.76	217.09	185.90	31.19	6.960	
4,500.00	4,500.00	4,508.31	4,501.00	15.89	15.89	131.83	-144.78	161.76	217.09	185.54	31.55	6.881	
4,550.00	4,550.00	4,558.31	4,551.00	16.07	16.07	131.83	-144.78	161.76	217.09	185.18	31.91	6.804	
4,600.00	4,600.00	4,608.31	4,601.00	16.25	16.24	131.83	-144.78	161.76	217.09	184.83	32.26	6.729	
4,650.00	4,650.00	4,658.31	4,651.00	16.43	16.42	131.83	-144.78	161.76	217.09	184.47	32.62	6.655	
4,700.00	4,700.00	4,708.31	4,701.00	16.61	16.60	131.83	-144.78	161.76	217.09	184.11	32.97	6.583	
4,750.00	4,750.00	4,758.31	4,751.00	16.79	16.77	131.83	-144.78	161.76	217.09	183.76	33.33	6.513	
4,800.00	4,800.00	4,808.31	4,801.00	16.97	16.95	131.83	-144.78	161.76	217.09	183.40	33.69	6.444	
4,850.00	4,850.00	4,858.31	4,851.00	17.15	17.12	131.83	-144.78	161.76	217.09	183.04	34.05	6.377	
4,900.00	4,900.00	4,908.31	4,901.00	17.33	17.30	131.83	-144.78	161.76	217.09	182.69	34.40	6.310	
4,950.00	4,950.00	4,958.31	4,951.00	17.51	17.47	131.83	-144.78	161.76	217.09	182.33	34.76	6.246	
5,000.00	5,000.00	5,008.31	5,001.00	17.69	17.65	131.83	-144.78	161.76	217.09	181.97	35.12	6.182	
5,050.00	5,050.00	5,058.31	5,051.00	17.86	17.83	131.83	-144.78	161.76	217.09	181.62	35.47	6.120	
5,100.00	5,100.00	5,108.31	5,101.00	18.04	18.00	131.83	-144.78	161.76	217.09	181.26	35.83	6.059	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 123H - 123H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10441-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,150.00	5,150.00	5,158.31	5,151.00	18.22	18.18	131.83	-144.78	161.76	217.09	180.90	36.19	5.999	
5,200.00	5,200.00	5,208.31	5,201.00	18.40	18.35	131.83	-144.78	161.76	217.09	180.55	36.54	5.941	
5,250.00	5,250.00	5,258.31	5,251.00	18.58	18.53	131.83	-144.78	161.76	217.09	180.19	36.90	5.883	
5,300.00	5,300.00	5,308.31	5,301.00	18.76	18.71	131.83	-144.78	161.76	217.09	179.83	37.26	5.827	
5,350.00	5,350.00	5,358.31	5,351.00	18.94	18.88	131.83	-144.78	161.76	217.09	179.47	37.61	5.771	
5,400.00	5,400.00	5,408.31	5,401.00	19.12	19.06	131.83	-144.78	161.76	217.09	179.12	37.97	5.717	
5,450.00	5,450.00	5,458.31	5,451.00	19.30	19.24	131.83	-144.78	161.76	217.09	178.76	38.33	5.664	
5,500.00	5,500.00	5,508.31	5,501.00	19.48	19.41	131.83	-144.78	161.76	217.09	178.40	38.69	5.612	
5,550.00	5,550.00	5,558.31	5,551.00	19.66	19.59	131.83	-144.78	161.76	217.09	178.05	39.04	5.560	
5,600.00	5,600.00	5,608.31	5,601.00	19.84	19.77	131.83	-144.78	161.76	217.09	177.69	39.40	5.510	
5,650.00	5,650.00	5,658.31	5,651.00	20.02	19.94	131.83	-144.78	161.76	217.09	177.33	39.76	5.460	
5,700.00	5,700.00	5,708.31	5,701.00	20.19	20.12	131.83	-144.78	161.76	217.09	176.97	40.11	5.412	
5,750.00	5,750.00	5,758.31	5,751.00	20.37	20.30	131.83	-144.78	161.76	217.09	176.62	40.47	5.364	
5,800.00	5,800.00	5,808.31	5,801.00	20.55	20.47	131.83	-144.78	161.76	217.09	176.26	40.83	5.317	
5,850.00	5,850.00	5,858.31	5,851.00	20.73	20.65	131.83	-144.78	161.76	217.09	175.90	41.19	5.271	
5,900.00	5,900.00	5,908.31	5,901.00	20.91	20.83	131.83	-144.78	161.76	217.09	175.55	41.54	5.226	
5,950.00	5,950.00	5,958.31	5,951.00	21.09	21.00	131.83	-144.78	161.76	217.09	175.19	41.90	5.181	
6,000.00	6,000.00	6,008.31	6,001.00	21.27	21.18	131.83	-144.78	161.76	217.09	174.83	42.26	5.137	
6,050.00	6,050.00	6,058.31	6,051.00	21.45	21.36	131.83	-144.78	161.76	217.09	174.47	42.62	5.094	
6,100.00	6,100.00	6,108.31	6,101.00	21.63	21.54	131.83	-144.78	161.76	217.09	174.12	42.97	5.052	
6,150.00	6,150.00	6,158.31	6,151.00	21.81	21.71	131.83	-144.78	161.76	217.09	173.76	43.33	5.010	
6,200.00	6,200.00	6,208.31	6,201.00	21.99	21.89	131.83	-144.78	161.76	217.09	173.40	43.69	4.969	
6,250.00	6,250.00	6,258.31	6,251.00	22.17	22.07	131.83	-144.78	161.76	217.09	173.04	44.05	4.929	
6,300.00	6,300.00	6,308.31	6,301.00	22.35	22.24	131.83	-144.78	161.76	217.09	172.69	44.40	4.889	
6,350.00	6,350.00	6,358.31	6,351.00	22.52	22.42	131.83	-144.78	161.76	217.09	172.33	44.76	4.850	
6,400.00	6,400.00	6,408.31	6,401.00	22.70	22.60	131.83	-144.78	161.76	217.09	171.97	45.12	4.812	
6,450.00	6,450.00	6,458.31	6,451.00	22.88	22.78	131.83	-144.78	161.76	217.09	171.61	45.48	4.774	
6,500.00	6,500.00	6,508.31	6,501.00	23.06	22.95	131.83	-144.78	161.76	217.09	171.26	45.83	4.737	
6,550.00	6,550.00	6,558.31	6,551.00	23.24	23.13	131.83	-144.78	161.76	217.09	170.90	46.19	4.700	
6,600.00	6,600.00	6,608.31	6,601.00	23.42	23.31	131.83	-144.78	161.76	217.09	170.54	46.55	4.664	
6,650.00	6,650.00	6,658.31	6,651.00	23.60	23.49	131.83	-144.78	161.76	217.09	170.18	46.91	4.628	
6,700.00	6,700.00	6,708.31	6,701.00	23.78	23.66	131.83	-144.78	161.76	217.09	169.83	47.26	4.593	
6,750.00	6,750.00	6,758.31	6,751.00	23.96	23.84	131.83	-144.78	161.76	217.09	169.47	47.62	4.559	
6,800.00	6,800.00	6,808.32	6,801.00	24.14	24.02	131.83	-144.78	161.76	217.09	169.11	47.98	4.525	
6,850.00	6,850.00	6,858.32	6,851.00	24.32	24.20	131.83	-144.78	161.76	217.09	168.75	48.34	4.491	
6,900.00	6,900.00	6,908.32	6,901.00	24.50	24.37	131.83	-144.78	161.76	217.09	168.40	48.69	4.458	
6,950.00	6,950.00	6,958.32	6,951.00	24.68	24.55	131.83	-144.78	161.76	217.09	168.04	49.05	4.426	
7,000.00	7,000.00	7,008.32	7,001.00	24.85	24.73	131.83	-144.78	161.76	217.09	167.68	49.41	4.394	
7,050.00	7,050.00	7,058.32	7,051.00	25.03	24.91	131.83	-144.78	161.76	217.09	167.32	49.77	4.362	
7,100.00	7,100.00	7,108.32	7,101.00	25.21	25.08	131.83	-144.78	161.76	217.09	166.96	50.12	4.331	
7,150.00	7,150.00	7,158.32	7,151.00	25.39	25.26	131.83	-144.78	161.76	217.09	166.61	50.48	4.300	
7,200.00	7,200.00	7,208.32	7,201.00	25.57	25.44	131.83	-144.78	161.76	217.09	166.25	50.84	4.270	
7,250.00	7,250.00	7,258.32	7,251.00	25.75	25.62	131.83	-144.78	161.76	217.09	165.89	51.20	4.240	
7,300.00	7,300.00	7,308.32	7,301.00	25.93	25.79	131.83	-144.78	161.76	217.09	165.53	51.55	4.211	
7,350.00	7,350.00	7,358.32	7,351.00	26.11	25.97	131.83	-144.78	161.76	217.09	165.18	51.91	4.182	
7,400.00	7,400.00	7,408.32	7,401.00	26.29	26.15	131.83	-144.78	161.76	217.09	164.82	52.27	4.153	
7,450.00	7,450.00	7,458.32	7,451.00	26.47	26.33	131.83	-144.78	161.76	217.09	164.46	52.63	4.125	
7,500.00	7,500.00	7,508.32	7,501.00	26.65	26.50	131.83	-144.78	161.76	217.09	164.10	52.99	4.097	
7,550.00	7,550.00	7,558.32	7,551.00	26.83	26.68	131.83	-144.78	161.76	217.09	163.75	53.34	4.070	
7,600.00	7,600.00	7,608.32	7,601.00	27.01	26.86	131.83	-144.78	161.76	217.09	163.39	53.70	4.043	
7,650.00	7,650.00	7,658.32	7,651.00	27.18	27.04	131.83	-144.78	161.76	217.09	163.03	54.06	4.016	
7,700.00	7,700.00	7,708.32	7,701.00	27.36	27.22	131.83	-144.78	161.76	217.09	162.67	54.42	3.989	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR-EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 123H - 123H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10441-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,750.00	7,750.00	7,758.32	7,751.00	27.54	27.39	131.83	-144.78	161.76	217.09	162.31	54.77	3.963	
7,800.00	7,800.00	7,808.32	7,801.00	27.72	27.57	131.83	-144.78	161.76	217.09	161.96	55.13	3.938	
7,850.00	7,850.00	7,858.32	7,851.00	27.90	27.75	131.83	-144.78	161.76	217.09	161.60	55.49	3.912	
7,900.00	7,900.00	7,908.32	7,901.00	28.08	27.93	131.83	-144.78	161.76	217.09	161.24	55.85	3.887	
7,950.00	7,950.00	7,958.32	7,951.00	28.26	28.11	131.83	-144.78	161.76	217.09	160.88	56.21	3.862	
8,000.00	8,000.00	8,008.32	8,001.00	28.44	28.28	131.83	-144.78	161.76	217.09	160.52	56.56	3.838	
8,050.00	8,050.00	8,058.32	8,051.00	28.62	28.46	131.83	-144.78	161.76	217.09	160.17	56.92	3.814	
8,100.00	8,100.00	8,108.32	8,101.00	28.80	28.64	131.83	-144.78	161.76	217.09	159.81	57.28	3.790	
8,150.00	8,150.00	8,158.32	8,151.00	28.98	28.82	131.83	-144.78	161.76	217.09	159.45	57.64	3.766	
8,200.00	8,200.00	8,208.32	8,201.00	29.16	29.00	131.83	-144.78	161.76	217.09	159.09	58.00	3.743	
8,250.00	8,250.00	8,258.32	8,251.00	29.34	29.17	131.83	-144.78	161.76	217.09	158.74	58.35	3.720	
8,300.00	8,300.00	8,308.32	8,301.00	29.51	29.35	131.83	-144.78	161.76	217.09	158.38	58.71	3.698	
8,350.00	8,350.00	8,358.32	8,351.00	29.69	29.53	131.83	-144.78	161.76	217.09	158.02	59.07	3.675	
8,400.00	8,400.00	8,408.32	8,401.00	29.87	29.71	131.83	-144.78	161.76	217.09	157.66	59.43	3.653	
8,450.00	8,450.00	8,458.32	8,451.00	30.05	29.89	131.83	-144.78	161.76	217.09	157.30	59.79	3.631	
8,500.00	8,500.00	8,508.32	8,501.00	30.23	30.06	131.83	-144.78	161.76	217.09	156.95	60.14	3.610	
8,550.00	8,550.00	8,558.32	8,551.00	30.41	30.24	131.83	-144.78	161.76	217.09	156.59	60.50	3.588	
8,600.00	8,600.00	8,608.32	8,601.00	30.59	30.42	131.83	-144.78	161.76	217.09	156.23	60.86	3.567	
8,650.00	8,650.00	8,658.32	8,651.00	30.77	30.60	131.83	-144.78	161.76	217.09	155.87	61.22	3.546	
8,700.00	8,700.00	8,708.32	8,701.00	30.95	30.78	131.83	-144.78	161.76	217.09	155.51	61.57	3.526	
8,750.00	8,750.00	8,758.32	8,751.00	31.13	30.96	131.83	-144.78	161.76	217.09	155.16	61.93	3.505	
8,800.00	8,800.00	8,808.32	8,801.00	31.31	31.13	131.83	-144.78	161.76	217.09	154.80	62.29	3.485	
8,850.00	8,850.00	8,858.32	8,851.00	31.49	31.31	131.83	-144.78	161.76	217.09	154.44	62.65	3.465	
8,900.00	8,900.00	8,908.32	8,901.00	31.67	31.49	131.83	-144.78	161.76	217.09	154.08	63.01	3.445	
8,950.00	8,950.00	8,958.32	8,951.00	31.84	31.67	131.83	-144.78	161.76	217.09	153.72	63.36	3.426	
9,000.00	9,000.00	9,008.32	9,001.00	32.02	31.85	131.83	-144.78	161.76	217.09	153.37	63.72	3.407	
9,050.00	9,050.00	9,058.32	9,051.00	32.20	32.02	131.83	-144.78	161.76	217.09	153.01	64.08	3.388	
9,100.00	9,100.00	9,108.32	9,101.00	32.38	32.20	131.83	-144.78	161.76	217.09	152.65	64.44	3.369	
9,150.00	9,150.00	9,158.32	9,151.00	32.56	32.38	131.83	-144.78	161.76	217.09	152.29	64.80	3.350	
9,200.00	9,200.00	9,208.32	9,201.00	32.74	32.56	131.83	-144.78	161.76	217.09	151.93	65.15	3.332	
9,250.00	9,250.00	9,258.32	9,251.00	32.92	32.74	131.83	-144.78	161.76	217.09	151.58	65.51	3.314	
9,300.00	9,300.00	9,308.32	9,301.00	33.10	32.92	131.83	-144.78	161.76	217.09	151.22	65.87	3.296	
9,350.00	9,350.00	9,358.32	9,351.00	33.28	33.09	131.83	-144.78	161.76	217.09	150.86	66.23	3.278	
9,400.00	9,400.00	9,408.32	9,401.00	33.46	33.27	131.83	-144.78	161.76	217.09	150.50	66.59	3.260	
9,450.00	9,450.00	9,458.32	9,451.00	33.64	33.45	131.83	-144.78	161.76	217.09	150.14	66.94	3.243	
9,500.00	9,500.00	9,508.32	9,501.00	33.82	33.63	131.83	-144.78	161.76	217.09	149.79	67.30	3.226	
9,550.00	9,550.00	9,558.32	9,551.00	34.00	33.81	131.83	-144.78	161.76	217.09	149.43	67.66	3.208	
9,600.00	9,600.00	9,608.32	9,601.00	34.17	33.99	131.83	-144.78	161.76	217.09	149.07	68.02	3.192	
9,650.00	9,650.00	9,658.32	9,651.00	34.35	34.16	131.83	-144.78	161.76	217.09	148.71	68.38	3.175	
9,700.00	9,700.00	9,708.32	9,701.00	34.53	34.34	131.83	-144.78	161.76	217.09	148.35	68.73	3.158	
9,750.00	9,750.00	9,758.32	9,751.00	34.71	34.52	131.83	-144.78	161.76	217.09	148.00	69.09	3.142	
9,800.00	9,800.00	9,808.32	9,801.00	34.89	34.70	131.83	-144.78	161.76	217.09	147.64	69.45	3.126	
9,850.00	9,850.00	9,858.32	9,851.00	35.07	34.88	131.83	-144.78	161.76	217.09	147.28	69.81	3.110	
9,900.00	9,900.00	9,908.32	9,901.00	35.25	35.06	131.83	-144.78	161.76	217.09	146.92	70.17	3.094	
9,950.00	9,950.00	9,958.32	9,951.00	35.43	35.24	131.83	-144.78	161.76	217.09	146.56	70.53	3.078	
10,000.00	10,000.00	10,008.32	10,001.00	35.61	35.41	131.83	-144.78	161.76	217.09	146.21	70.88	3.063	
10,050.00	10,050.00	10,058.32	10,051.00	35.79	35.59	131.83	-144.78	161.76	217.09	145.85	71.24	3.047	
10,100.00	10,100.00	10,108.32	10,101.00	35.97	35.77	131.83	-144.78	161.76	217.09	145.49	71.60	3.032	
10,150.00	10,150.00	10,158.32	10,151.00	36.15	35.95	131.83	-144.78	161.76	217.09	145.13	71.96	3.017	
10,200.00	10,200.00	10,208.32	10,201.00	36.33	36.13	131.83	-144.78	161.76	217.09	144.77	72.32	3.002	
10,250.00	10,250.00	10,258.32	10,251.00	36.50	36.31	131.83	-144.78	161.76	217.09	144.42	72.67	2.987	
10,300.00	10,300.00	10,308.32	10,301.00	36.68	36.48	131.83	-144.78	161.76	217.09	144.06	73.03	2.973	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design - Poker Lake Unit 21 BD - 21 BD 123H - 123H Lateral - Plan #1										Offset Site Error		0.00 usft	
Survey Program: 0-MWD, 10441-MWD+IFR1+MS										Offset Well Error		0.00 usft	
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,350.00	10,350.00	10,358.32	10,351.00	36.86	36.66	131.83	-144.78	161.76	217.09	143.70	73.39	2.958	
10,400.00	10,400.00	10,408.32	10,401.00	37.04	36.84	131.83	-144.78	161.76	217.09	143.34	73.75	2.944 SF	
10,450.00	10,450.00	10,450.00	10,442.66	37.22	36.93	132.03	-146.06	162.03	218.30	144.32	73.99	2.951	
10,500.00	10,500.00	10,485.17	10,477.65	37.40	36.95	132.56	-149.43	162.75	222.17	148.26	73.92	3.006	
10,550.00	10,550.00	10,522.45	10,514.44	37.58	37.00	133.43	-155.28	164.01	228.80	155.10	73.70	3.105	
10,600.00	10,600.00	10,558.79	10,549.86	37.76	37.06	134.57	-163.23	165.71	238.16	164.86	73.30	3.249	
10,650.00	10,650.00	10,600.00	10,589.30	37.94	37.15	136.11	-174.87	168.21	250.37	177.25	73.12	3.424	
10,700.00	10,700.00	10,627.78	10,615.35	38.12	37.20	137.27	-184.28	170.22	265.08	193.06	72.02	3.681	
10,750.00	10,750.00	10,660.07	10,645.02	38.30	37.27	138.69	-196.74	172.90	282.55	211.36	71.18	3.969	
10,800.00	10,800.00	10,690.76	10,672.51	38.48	37.33	140.08	-210.09	175.76	302.55	232.29	70.26	4.306	
10,850.00	10,850.00	10,719.81	10,697.81	38.66	37.38	141.41	-224.03	178.75	324.97	255.68	69.29	4.690	
10,900.00	10,900.00	10,750.00	10,723.31	38.84	37.44	142.79	-239.82	182.13	349.66	281.15	68.50	5.104	
10,950.00	10,950.00	10,772.95	10,742.11	39.01	37.48	143.81	-252.70	184.89	376.40	309.12	67.28	5.594	
11,000.00	11,000.00	10,800.00	10,763.56	39.19	37.53	144.98	-268.80	188.34	405.10	338.59	66.51	6.091	
11,050.00	11,050.00	10,819.76	10,778.73	39.37	37.56	145.81	-281.18	191.00	435.52	370.17	65.35	6.665	
11,100.00	11,100.00	10,850.00	10,801.07	39.55	37.61	147.04	-301.10	195.27	467.70	402.66	65.05	7.190	
11,150.00	11,150.00	10,850.00	10,801.07	39.73	37.61	147.04	-301.10	195.27	501.24	438.36	62.88	7.971	
11,200.00	11,200.00	10,879.34	10,821.70	39.91	37.65	148.16	-321.50	199.64	535.81	473.04	62.77	8.536	
11,250.00	11,250.00	10,900.00	10,835.57	40.09	37.68	148.91	-336.47	202.85	571.79	509.58	62.21	9.191	
11,300.00	11,300.00	10,912.94	10,843.97	40.27	37.70	149.37	-346.09	204.91	608.81	547.49	61.32	9.928	
11,350.00	11,350.00	10,928.14	10,853.55	40.45	37.72	149.89	-357.63	207.39	646.81	586.13	60.68	10.659	
11,400.00	11,399.96	10,950.00	10,866.77	40.57	37.75	-27.76	-374.65	211.04	684.92	624.62	60.30	11.359	
11,450.00	11,449.61	10,950.00	10,866.77	40.66	37.75	-25.39	-374.65	211.04	721.34	662.44	58.90	12.247	
11,500.00	11,498.55	10,974.08	10,880.56	40.76	37.77	-23.11	-393.95	215.17	755.81	697.19	58.62	12.893	
11,550.00	11,546.43	11,000.00	10,894.46	40.87	37.80	-21.33	-415.34	219.76	788.59	730.22	58.37	13.509	

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 124H - 124H Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD, 10711-MWD-HFR1+MS														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	1.00	1.00	0.00	0.00	89.55	0.70	90.10	90.10						
50.00	50.00	51.00	51.00	0.03	0.06	89.55	0.70	90.10	90.10	90.01	0.09	982.420			
100.00	100.00	101.00	101.00	0.12	0.12	89.55	0.70	90.10	90.10	89.86	0.24	369.636			
150.00	150.00	151.00	151.00	0.30	0.30	89.55	0.70	90.10	90.10	89.50	0.60	149.615			
200.00	200.00	201.00	201.00	0.48	0.48	89.55	0.70	90.10	90.10	89.14	0.96	93.788			
250.00	250.00	251.00	251.00	0.66	0.66	89.55	0.70	90.10	90.10	88.78	1.32	68.302			
300.00	300.00	301.00	301.00	0.84	0.84	89.55	0.70	90.10	90.10	88.43	1.68	53.708			
350.00	350.00	351.00	351.00	1.02	1.02	89.55	0.70	90.10	90.10	88.07	2.04	44.252			
400.00	400.00	401.00	401.00	1.20	1.20	89.55	0.70	90.10	90.10	87.71	2.39	37.628			
450.00	450.00	451.00	451.00	1.37	1.38	89.55	0.70	90.10	90.10	87.35	2.75	32.728			
500.00	500.00	501.00	501.00	1.55	1.56	89.55	0.70	90.10	90.10	86.99	3.11	28.958			
550.00	550.00	551.00	551.00	1.73	1.74	89.55	0.70	90.10	90.10	86.63	3.47	25.966			
600.00	600.00	601.00	601.00	1.91	1.92	89.55	0.70	90.10	90.10	86.27	3.83	23.535			
650.00	650.00	651.00	651.00	2.09	2.10	89.55	0.70	90.10	90.10	85.92	4.19	21.520			
700.00	700.00	701.00	701.00	2.27	2.27	89.55	0.70	90.10	90.10	85.56	4.55	19.823			
750.00	750.00	751.00	751.00	2.45	2.45	89.55	0.70	90.10	90.10	85.20	4.90	18.374			
800.00	800.00	801.00	801.00	2.63	2.63	89.55	0.70	90.10	90.10	84.84	5.26	17.122			
850.00	850.00	851.00	851.00	2.81	2.81	89.55	0.70	90.10	90.10	84.48	5.62	16.030			
900.00	900.00	901.00	901.00	2.99	2.99	89.55	0.70	90.10	90.10	84.12	5.98	15.069			
950.00	950.00	951.00	951.00	3.17	3.17	89.55	0.70	90.10	90.10	83.76	6.34	14.217			
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.35	89.55	0.70	90.10	90.10	83.41	6.70	13.456			
1,050.00	1,050.00	1,051.00	1,051.00	3.53	3.53	89.55	0.70	90.10	90.10	83.05	7.05	12.772			
1,100.00	1,100.00	1,101.00	1,101.00	3.70	3.71	89.55	0.70	90.10	90.10	82.69	7.41	12.154			
1,150.00	1,150.00	1,151.00	1,151.00	3.88	3.89	89.55	0.70	90.10	90.10	82.33	7.77	11.594			
1,157.99	1,157.99	1,158.99	1,158.99	3.91	3.92	89.55	0.70	90.10	90.10	82.27	7.83	11.509 CC			
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	89.55	0.70	90.10	90.11	81.98	8.13	11.089			
1,250.00	1,250.00	1,249.86	1,249.86	4.24	4.24	89.61	0.62	90.41	90.42	81.95	8.48	10.665 ES			
1,300.00	1,300.00	1,298.73	1,298.72	4.42	4.41	89.77	0.37	91.33	91.36	82.54	8.83	10.351			
1,350.00	1,350.00	1,347.57	1,347.53	4.60	4.57	90.02	-0.04	92.85	92.92	83.75	9.17	10.135			
1,400.00	1,400.00	1,396.36	1,396.27	4.78	4.74	90.37	-0.61	94.97	95.09	85.59	9.51	10.001			
1,450.00	1,450.00	1,445.08	1,444.91	4.96	4.91	90.78	-1.33	97.69	97.89	88.04	9.85	9.940			
1,500.00	1,500.00	1,493.73	1,493.44	5.14	5.07	91.26	-2.22	101.00	101.31	91.12	10.19	9.946			
1,550.00	1,550.00	1,542.28	1,541.82	5.32	5.24	91.78	-3.27	104.90	105.35	94.83	10.52	10.012			
1,600.00	1,600.00	1,590.72	1,590.04	5.50	5.41	92.34	-4.47	109.39	110.02	99.17	10.86	10.133			
1,650.00	1,650.00	1,639.03	1,638.06	5.68	5.59	92.91	-5.82	114.44	115.32	104.13	11.19	10.304			
1,700.00	1,700.00	1,687.20	1,685.88	5.86	5.76	93.49	-7.33	120.07	121.24	109.72	11.52	10.522			
1,750.00	1,750.00	1,735.22	1,733.47	6.03	5.94	94.07	-8.99	126.26	127.79	115.94	11.85	10.782			
1,800.00	1,800.00	1,783.07	1,780.81	6.21	6.11	94.64	-10.80	133.00	134.96	122.78	12.18	11.082			
1,850.00	1,850.00	1,831.86	1,829.01	6.39	6.30	95.20	-12.76	140.34	142.62	130.10	12.52	11.391			
1,900.00	1,900.00	1,881.25	1,877.78	6.57	6.49	95.70	-14.76	147.80	150.34	137.47	12.87	11.680			
1,950.00	1,950.00	1,930.63	1,926.56	6.75	6.67	96.16	-16.76	155.26	158.07	144.84	13.22	11.954			
2,000.00	2,000.00	1,980.02	1,975.34	6.93	6.87	96.58	-18.76	162.73	165.80	152.23	13.57	12.214			
2,050.00	2,050.00	2,029.40	2,024.11	7.11	7.06	96.95	-20.76	170.19	173.55	159.62	13.93	12.461			
2,100.00	2,100.00	2,078.79	2,072.89	7.29	7.25	97.30	-22.76	177.65	181.29	167.01	14.28	12.695			
2,150.00	2,150.00	2,128.17	2,121.67	7.47	7.45	97.62	-24.76	185.11	189.05	174.42	14.63	12.919			
2,200.00	2,200.00	2,177.55	2,170.44	7.65	7.64	97.91	-26.76	192.57	196.81	181.82	14.99	13.131			
2,250.00	2,250.00	2,226.94	2,219.22	7.83	7.84	98.18	-28.76	200.04	204.58	189.23	15.34	13.334			
2,300.00	2,300.00	2,276.32	2,267.99	8.01	8.04	98.43	-30.76	207.50	212.35	196.65	15.70	13.528			
2,350.00	2,350.00	2,325.71	2,316.77	8.19	8.24	98.66	-32.76	214.96	220.12	204.07	16.05	13.713			
2,400.00	2,400.00	2,375.09	2,365.55	8.36	8.44	98.88	-34.76	222.42	227.90	211.49	16.41	13.889			
2,450.00	2,450.00	2,424.48	2,414.32	8.54	8.64	99.08	-36.76	229.89	235.68	218.91	16.76	14.059			
2,500.00	2,500.00	2,473.86	2,463.10	8.72	8.84	99.27	-38.75	237.35	243.46	226.34	17.12	14.221			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 124H - 124H Lateral - Plan #1										Offset Site Error: 0.00 usft		
Survey Program: 0-MWD, 10711-MWD+FR1+MS										Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
2,550.00	2,550.00	2,523.25	2,511.88	8.90	9.05	99.45	-40.75	244.81	251.24	233.77	17.48	14.376
2,600.00	2,600.00	2,572.63	2,560.65	9.08	9.25	99.62	-42.75	252.27	259.03	241.20	17.83	14.526
2,650.00	2,650.00	2,622.01	2,609.43	9.26	9.45	99.78	-44.75	259.73	266.82	248.63	18.19	14.669
2,700.00	2,700.00	2,671.40	2,658.21	9.44	9.66	99.92	-46.75	267.20	274.61	256.06	18.55	14.806
2,750.00	2,750.00	2,720.78	2,706.98	9.62	9.86	100.07	-48.75	274.66	282.40	263.50	18.90	14.939
2,800.00	2,800.00	2,770.17	2,755.76	9.80	10.07	100.20	-50.75	282.12	290.20	270.94	19.26	15.066
2,850.00	2,850.00	2,819.55	2,804.53	9.98	10.27	100.32	-52.75	289.58	297.99	278.37	19.62	15.189
2,900.00	2,900.00	2,868.94	2,853.31	10.16	10.48	100.44	-54.75	297.05	305.79	285.81	19.98	15.307
2,950.00	2,950.00	2,918.32	2,902.09	10.34	10.69	100.56	-56.75	304.51	313.59	293.25	20.34	15.421
3,000.00	3,000.00	2,967.70	2,950.86	10.52	10.89	100.66	-58.75	311.97	321.39	300.69	20.69	15.531
3,050.00	3,050.00	3,017.09	2,999.64	10.69	11.10	100.77	-60.75	319.43	329.19	308.14	21.05	15.637
3,100.00	3,100.00	3,066.47	3,048.42	10.87	11.31	100.87	-62.75	326.89	336.99	315.58	21.41	15.739
3,150.00	3,150.00	3,115.86	3,097.19	11.05	11.52	100.96	-64.75	334.36	344.79	323.02	21.77	15.838
3,200.00	3,200.00	3,165.24	3,145.97	11.23	11.72	101.05	-66.75	341.82	352.60	330.47	22.13	15.934
3,250.00	3,250.00	3,214.63	3,194.75	11.41	11.93	101.13	-68.75	349.28	360.40	337.91	22.49	16.027
3,300.00	3,300.00	3,264.01	3,243.52	11.59	12.14	101.22	-70.75	356.74	368.20	345.36	22.85	16.116
3,350.00	3,350.00	3,313.40	3,292.30	11.77	12.35	101.30	-72.75	364.21	376.01	352.80	23.21	16.203
3,400.00	3,400.00	3,362.78	3,341.08	11.95	12.56	101.37	-74.75	371.67	383.82	360.25	23.56	16.288
3,450.00	3,450.00	3,412.16	3,389.85	12.13	12.77	101.44	-76.75	379.13	391.62	367.70	23.92	16.369
3,500.00	3,500.00	3,461.55	3,438.63	12.31	12.98	101.51	-78.74	386.59	399.43	375.15	24.28	16.448
3,550.00	3,550.00	3,510.93	3,487.40	12.49	13.19	101.58	-80.74	394.05	407.24	382.59	24.64	16.525
3,600.00	3,600.00	3,560.32	3,536.18	12.67	13.40	101.64	-82.74	401.52	415.05	390.04	25.00	16.600
3,650.00	3,650.00	3,609.70	3,584.96	12.85	13.61	101.71	-84.74	408.98	422.85	397.49	25.36	16.672
3,700.00	3,700.00	3,659.09	3,633.73	13.03	13.82	101.77	-86.74	416.44	430.66	404.94	25.72	16.742
3,750.00	3,750.00	3,708.47	3,682.51	13.20	14.03	101.82	-88.74	423.90	438.47	412.39	26.08	16.811
3,800.00	3,800.00	3,757.86	3,731.29	13.38	14.24	101.88	-90.74	431.36	446.28	419.84	26.44	16.877
3,850.00	3,850.00	3,807.24	3,780.06	13.56	14.46	101.93	-92.74	438.83	454.09	427.29	26.80	16.942
3,900.00	3,900.00	3,856.62	3,828.84	13.74	14.67	101.99	-94.74	446.29	461.91	434.74	27.16	17.005
3,950.00	3,950.00	3,906.01	3,877.62	13.92	14.88	102.04	-96.74	453.75	469.72	442.19	27.52	17.066
4,000.00	4,000.00	3,955.39	3,926.39	14.10	15.09	102.08	-98.74	461.21	477.53	449.64	27.88	17.126
4,050.00	4,050.00	4,005.47	3,975.86	14.28	15.30	102.13	-100.77	468.78	485.34	457.09	28.25	17.180
4,100.00	4,100.00	4,062.18	4,031.94	14.46	15.54	102.18	-102.93	476.87	492.71	464.04	28.67	17.183
4,150.00	4,150.00	4,119.12	4,088.37	14.64	15.78	102.22	-104.89	484.18	499.35	470.26	29.09	17.164
4,200.00	4,200.00	4,176.28	4,145.13	14.82	16.01	102.26	-106.64	490.70	505.25	475.75	29.51	17.124
4,250.00	4,250.00	4,233.63	4,202.17	15.00	16.23	102.29	-108.17	496.42	510.41	480.49	29.91	17.062
4,300.00	4,300.00	4,291.14	4,259.46	15.18	16.46	102.32	-109.49	501.32	514.82	484.50	30.32	16.982
4,350.00	4,350.00	4,348.80	4,316.96	15.36	16.67	102.34	-110.58	505.40	518.48	487.77	30.71	16.883
4,400.00	4,400.00	4,406.57	4,374.64	15.53	16.88	102.36	-111.45	508.65	521.38	490.28	31.10	16.766
4,450.00	4,450.00	4,464.43	4,432.44	15.71	17.08	102.37	-112.09	511.05	523.53	492.05	31.48	16.631
4,500.00	4,500.00	4,522.35	4,490.34	15.89	17.28	102.38	-112.51	512.62	524.93	493.07	31.85	16.480
4,550.00	4,550.00	4,580.31	4,548.29	16.07	17.47	102.38	-112.70	513.33	525.56	493.34	32.22	16.312
4,600.00	4,600.00	4,633.01	4,601.00	16.25	17.65	102.38	-112.72	513.38	525.61	493.03	32.57	16.135
4,650.00	4,650.00	4,683.01	4,651.00	16.43	17.81	102.38	-112.72	513.38	525.61	492.68	32.93	15.962
4,700.00	4,700.00	4,733.01	4,701.00	16.61	17.97	102.38	-112.72	513.38	525.61	492.32	33.28	15.793
4,750.00	4,750.00	4,783.01	4,751.00	16.79	18.14	102.38	-112.72	513.38	525.61	491.97	33.64	15.626
4,800.00	4,800.00	4,833.01	4,801.00	16.97	18.30	102.38	-112.72	513.38	525.61	491.62	33.99	15.464
4,850.00	4,850.00	4,883.01	4,851.00	17.15	18.46	102.38	-112.72	513.38	525.61	491.26	34.34	15.304
4,900.00	4,900.00	4,933.01	4,901.00	17.33	18.63	102.38	-112.72	513.38	525.61	490.91	34.70	15.148
4,950.00	4,950.00	4,983.01	4,951.00	17.51	18.79	102.38	-112.72	513.38	525.61	490.55	35.05	14.995
5,000.00	5,000.00	5,033.01	5,001.00	17.69	18.96	102.38	-112.72	513.38	525.61	490.20	35.41	14.845
5,050.00	5,050.00	5,083.01	5,051.00	17.86	19.12	102.38	-112.72	513.38	525.61	489.85	35.76	14.698
5,100.00	5,100.00	5,133.01	5,101.00	18.04	19.29	102.38	-112.72	513.38	525.61	489.49	36.11	14.554

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 124H - 124H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10711-MWD-HFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,150.00	5,150.00	5,183.01	5,151.00	18.22	19.45	102.38	-112.72	513.38	525.61	489.14	36.47	14.412	
5,200.00	5,200.00	5,233.01	5,201.00	18.40	19.62	102.38	-112.72	513.38	525.61	488.78	36.82	14.274	
5,250.00	5,250.00	5,283.01	5,251.00	18.58	19.78	102.38	-112.72	513.38	525.61	488.43	37.18	14.138	
5,300.00	5,300.00	5,333.01	5,301.00	18.76	19.95	102.38	-112.72	513.38	525.61	488.07	37.53	14.004	
5,350.00	5,350.00	5,383.01	5,351.00	18.94	20.12	102.38	-112.72	513.38	525.61	487.72	37.89	13.873	
5,400.00	5,400.00	5,433.01	5,401.00	19.12	20.28	102.38	-112.72	513.38	525.61	487.36	38.24	13.744	
5,450.00	5,450.00	5,483.01	5,451.00	19.30	20.45	102.38	-112.72	513.38	525.61	487.01	38.60	13.618	
5,500.00	5,500.00	5,533.01	5,501.00	19.48	20.62	102.38	-112.72	513.38	525.61	486.65	38.95	13.494	
5,550.00	5,550.00	5,583.01	5,551.00	19.66	20.79	102.38	-112.72	513.38	525.61	486.30	39.31	13.372	
5,600.00	5,600.00	5,633.01	5,601.00	19.84	20.95	102.38	-112.72	513.38	525.61	485.94	39.66	13.252	
5,650.00	5,650.00	5,683.01	5,651.00	20.02	21.12	102.38	-112.72	513.38	525.61	485.59	40.02	13.134	
5,700.00	5,700.00	5,733.01	5,701.00	20.19	21.29	102.38	-112.72	513.38	525.61	485.23	40.37	13.019	
5,750.00	5,750.00	5,783.01	5,751.00	20.37	21.46	102.38	-112.72	513.38	525.61	484.88	40.73	12.905	
5,800.00	5,800.00	5,833.01	5,801.00	20.55	21.62	102.38	-112.72	513.38	525.61	484.52	41.08	12.794	
5,850.00	5,850.00	5,883.01	5,851.00	20.73	21.79	102.38	-112.72	513.38	525.61	484.17	41.44	12.684	
5,900.00	5,900.00	5,933.01	5,901.00	20.91	21.96	102.38	-112.72	513.38	525.61	483.81	41.79	12.576	
5,950.00	5,950.00	5,983.01	5,951.00	21.09	22.13	102.38	-112.72	513.38	525.61	483.46	42.15	12.470	
6,000.00	6,000.00	6,033.01	6,001.00	21.27	22.30	102.38	-112.72	513.38	525.61	483.10	42.51	12.366	
6,050.00	6,050.00	6,083.01	6,051.00	21.45	22.47	102.38	-112.72	513.38	525.61	482.75	42.86	12.263	
6,100.00	6,100.00	6,133.01	6,101.00	21.63	22.64	102.38	-112.72	513.38	525.61	482.39	43.22	12.162	
6,150.00	6,150.00	6,183.01	6,151.00	21.81	22.81	102.38	-112.72	513.38	525.61	482.03	43.57	12.063	
6,200.00	6,200.00	6,233.01	6,201.00	21.99	22.98	102.38	-112.72	513.38	525.61	481.68	43.93	11.965	
6,250.00	6,250.00	6,283.01	6,251.00	22.17	23.15	102.38	-112.72	513.38	525.61	481.32	44.28	11.869	
6,300.00	6,300.00	6,333.01	6,301.00	22.35	23.32	102.38	-112.72	513.38	525.61	480.97	44.64	11.775	
6,350.00	6,350.00	6,383.01	6,351.00	22.52	23.49	102.38	-112.72	513.38	525.61	480.61	44.99	11.681	
6,400.00	6,400.00	6,433.01	6,401.00	22.70	23.66	102.38	-112.72	513.38	525.61	480.26	45.35	11.590	
6,450.00	6,450.00	6,483.01	6,451.00	22.88	23.83	102.38	-112.72	513.38	525.61	479.90	45.71	11.500	
6,500.00	6,500.00	6,533.01	6,501.00	23.06	24.00	102.38	-112.72	513.38	525.61	479.54	46.06	11.411	
6,550.00	6,550.00	6,583.01	6,551.00	23.24	24.17	102.38	-112.72	513.38	525.61	479.19	46.42	11.323	
6,600.00	6,600.00	6,633.01	6,601.00	23.42	24.34	102.38	-112.72	513.38	525.61	478.83	46.77	11.237	
6,650.00	6,650.00	6,683.01	6,651.00	23.60	24.51	102.38	-112.72	513.38	525.61	478.48	47.13	11.152	
6,700.00	6,700.00	6,733.01	6,701.00	23.78	24.68	102.38	-112.72	513.38	525.61	478.12	47.49	11.068	
6,750.00	6,750.00	6,783.01	6,751.00	23.96	24.85	102.38	-112.72	513.38	525.61	477.76	47.84	10.986	
6,800.00	6,800.00	6,833.01	6,801.00	24.14	25.02	102.38	-112.72	513.38	525.61	477.41	48.20	10.905	
6,850.00	6,850.00	6,883.01	6,851.00	24.32	25.19	102.38	-112.72	513.38	525.61	477.05	48.56	10.825	
6,900.00	6,900.00	6,933.01	6,901.00	24.50	25.36	102.38	-112.72	513.38	525.61	476.69	48.91	10.746	
6,950.00	6,950.00	6,983.01	6,951.00	24.68	25.53	102.38	-112.72	513.38	525.61	476.34	49.27	10.668	
7,000.00	7,000.00	7,033.01	7,001.00	24.85	25.71	102.38	-112.72	513.38	525.61	475.98	49.62	10.592	
7,050.00	7,050.00	7,083.01	7,051.00	25.03	25.88	102.38	-112.72	513.38	525.61	475.63	49.98	10.516	
7,100.00	7,100.00	7,133.01	7,101.00	25.21	26.05	102.38	-112.72	513.38	525.61	475.27	50.34	10.442	
7,150.00	7,150.00	7,183.01	7,151.00	25.39	26.22	102.38	-112.72	513.38	525.61	474.91	50.69	10.368	
7,200.00	7,200.00	7,233.01	7,201.00	25.57	26.39	102.38	-112.72	513.38	525.61	474.56	51.05	10.296	
7,250.00	7,250.00	7,283.01	7,251.00	25.75	26.57	102.38	-112.72	513.38	525.61	474.20	51.41	10.225	
7,300.00	7,300.00	7,333.01	7,301.00	25.93	26.74	102.38	-112.72	513.38	525.61	473.84	51.76	10.154	
7,350.00	7,350.00	7,383.01	7,351.00	26.11	26.91	102.38	-112.72	513.38	525.61	473.49	52.12	10.085	
7,400.00	7,400.00	7,433.01	7,401.00	26.29	27.08	102.38	-112.72	513.38	525.61	473.13	52.48	10.016	
7,450.00	7,450.00	7,483.01	7,451.00	26.47	27.25	102.38	-112.72	513.38	525.61	472.77	52.83	9.949	
7,500.00	7,500.00	7,533.01	7,501.00	26.65	27.43	102.38	-112.72	513.38	525.61	472.42	53.19	9.882	
7,550.00	7,550.00	7,583.01	7,551.00	26.83	27.60	102.38	-112.72	513.38	525.61	472.06	53.55	9.816	
7,600.00	7,600.00	7,633.01	7,601.00	27.01	27.77	102.38	-112.72	513.38	525.61	471.70	53.90	9.751	
7,650.00	7,650.00	7,683.01	7,651.00	27.18	27.95	102.38	-112.72	513.38	525.61	471.35	54.26	9.687	
7,700.00	7,700.00	7,733.01	7,701.00	27.36	28.12	102.38	-112.72	513.38	525.61	470.99	54.62	9.624	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 124H - 124H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10711-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		T		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,750.00	7,750.00	7,783.01	7,751.00	27.54	28.29	102.38	-112.72	513.38	525.61	470.63	54.97	9.561	
7,800.00	7,800.00	7,833.01	7,801.00	27.72	28.46	102.38	-112.72	513.38	525.61	470.28	55.33	9.500	
7,850.00	7,850.00	7,883.01	7,851.00	27.90	28.64	102.38	-112.72	513.38	525.61	469.92	55.69	9.439	
7,900.00	7,900.00	7,933.01	7,901.00	28.08	28.81	102.38	-112.72	513.38	525.61	469.56	56.04	9.379	
7,950.00	7,950.00	7,983.01	7,951.00	28.26	28.98	102.38	-112.72	513.38	525.61	469.21	56.40	9.319	
8,000.00	8,000.00	8,033.01	8,001.00	28.44	29.16	102.38	-112.72	513.38	525.61	468.85	56.76	9.261	
8,050.00	8,050.00	8,083.01	8,051.00	28.62	29.33	102.38	-112.72	513.38	525.61	468.49	57.11	9.203	
8,100.00	8,100.00	8,133.01	8,101.00	28.80	29.50	102.38	-112.72	513.38	525.61	468.14	57.47	9.146	
8,150.00	8,150.00	8,183.01	8,151.00	28.98	29.68	102.38	-112.72	513.38	525.61	467.78	57.83	9.089	
8,200.00	8,200.00	8,233.01	8,201.00	29.16	29.85	102.38	-112.72	513.38	525.61	467.42	58.18	9.034	
8,250.00	8,250.00	8,283.01	8,251.00	29.34	30.02	102.38	-112.72	513.38	525.61	467.07	58.54	8.978	
8,300.00	8,300.00	8,333.01	8,301.00	29.51	30.20	102.38	-112.72	513.38	525.61	466.71	58.90	8.924	
8,350.00	8,350.00	8,383.01	8,351.00	29.69	30.37	102.38	-112.72	513.38	525.61	466.35	59.25	8.870	
8,400.00	8,400.00	8,433.01	8,401.00	29.87	30.55	102.38	-112.72	513.38	525.61	465.99	59.61	8.817	
8,450.00	8,450.00	8,483.01	8,451.00	30.05	30.72	102.38	-112.72	513.38	525.61	465.64	59.97	8.765	
8,500.00	8,500.00	8,533.01	8,501.00	30.23	30.89	102.38	-112.72	513.38	525.61	465.28	60.33	8.713	
8,550.00	8,550.00	8,583.01	8,551.00	30.41	31.07	102.38	-112.72	513.38	525.61	464.92	60.68	8.662	
8,600.00	8,600.00	8,633.01	8,601.00	30.59	31.24	102.38	-112.72	513.38	525.61	464.57	61.04	8.611	
8,650.00	8,650.00	8,683.01	8,651.00	30.77	31.42	102.38	-112.72	513.38	525.61	464.21	61.40	8.561	
8,700.00	8,700.00	8,733.01	8,701.00	30.95	31.59	102.38	-112.72	513.38	525.61	463.85	61.75	8.511	
8,750.00	8,750.00	8,783.01	8,751.00	31.13	31.76	102.38	-112.72	513.38	525.61	463.50	62.11	8.462	
8,800.00	8,800.00	8,833.01	8,801.00	31.31	31.94	102.38	-112.72	513.38	525.61	463.14	62.47	8.414	
8,850.00	8,850.00	8,883.01	8,851.00	31.49	32.11	102.38	-112.72	513.38	525.61	462.78	62.83	8.366	
8,900.00	8,900.00	8,933.01	8,901.00	31.67	32.29	102.38	-112.72	513.38	525.61	462.42	63.18	8.319	
8,950.00	8,950.00	8,983.01	8,951.00	31.84	32.46	102.38	-112.72	513.38	525.61	462.07	63.54	8.272	
9,000.00	9,000.00	9,033.01	9,001.00	32.02	32.64	102.38	-112.72	513.38	525.61	461.71	63.90	8.226	
9,050.00	9,050.00	9,083.01	9,051.00	32.20	32.81	102.38	-112.72	513.38	525.61	461.35	64.25	8.180	
9,100.00	9,100.00	9,133.01	9,101.00	32.38	32.99	102.38	-112.72	513.38	525.61	461.00	64.61	8.135	
9,150.00	9,150.00	9,183.01	9,151.00	32.56	33.16	102.38	-112.72	513.38	525.61	460.64	64.97	8.090	
9,200.00	9,200.00	9,233.01	9,201.00	32.74	33.33	102.38	-112.72	513.38	525.61	460.28	65.33	8.046	
9,250.00	9,250.00	9,283.01	9,251.00	32.92	33.51	102.38	-112.72	513.38	525.61	459.92	65.68	8.002	
9,300.00	9,300.00	9,333.01	9,301.00	33.10	33.68	102.38	-112.72	513.38	525.61	459.57	66.04	7.959	
9,350.00	9,350.00	9,383.01	9,351.00	33.28	33.86	102.38	-112.72	513.38	525.61	459.21	66.40	7.916	
9,400.00	9,400.00	9,433.01	9,401.00	33.46	34.03	102.38	-112.72	513.38	525.61	458.85	66.75	7.874	
9,450.00	9,450.00	9,483.01	9,451.00	33.64	34.21	102.38	-112.72	513.38	525.61	458.49	67.11	7.832	
9,500.00	9,500.00	9,533.01	9,501.00	33.82	34.38	102.38	-112.72	513.38	525.61	458.14	67.47	7.790	
9,550.00	9,550.00	9,583.01	9,551.00	34.00	34.56	102.38	-112.72	513.38	525.61	457.78	67.83	7.749	
9,600.00	9,600.00	9,633.01	9,601.00	34.17	34.73	102.38	-112.72	513.38	525.61	457.42	68.18	7.709	
9,650.00	9,650.00	9,683.01	9,651.00	34.35	34.91	102.38	-112.72	513.38	525.61	457.07	68.54	7.668	
9,700.00	9,700.00	9,733.01	9,701.00	34.53	35.08	102.38	-112.72	513.38	525.61	456.71	68.90	7.629	
9,750.00	9,750.00	9,783.01	9,751.00	34.71	35.26	102.38	-112.72	513.38	525.61	456.35	69.26	7.589	
9,800.00	9,800.00	9,833.01	9,801.00	34.89	35.43	102.38	-112.72	513.38	525.61	455.99	69.61	7.550	
9,850.00	9,850.00	9,883.01	9,851.00	35.07	35.61	102.38	-112.72	513.38	525.61	455.64	69.97	7.512	
9,900.00	9,900.00	9,933.01	9,901.00	35.25	35.79	102.38	-112.72	513.38	525.61	455.28	70.33	7.474	
9,950.00	9,950.00	9,983.01	9,951.00	35.43	35.96	102.38	-112.72	513.38	525.61	454.92	70.69	7.436	
10,000.00	10,000.00	10,033.01	10,001.00	35.61	36.14	102.38	-112.72	513.38	525.61	454.56	71.04	7.398	
10,050.00	10,050.00	10,083.01	10,051.00	35.79	36.31	102.38	-112.72	513.38	525.61	454.21	71.40	7.361	
10,100.00	10,100.00	10,133.01	10,101.00	35.97	36.49	102.38	-112.72	513.38	525.61	453.85	71.76	7.325	
10,150.00	10,150.00	10,183.01	10,151.00	36.15	36.66	102.38	-112.72	513.38	525.61	453.49	72.12	7.288	
10,200.00	10,200.00	10,233.01	10,201.00	36.33	36.84	102.38	-112.72	513.38	525.61	453.13	72.47	7.252	
10,250.00	10,250.00	10,283.01	10,251.00	36.50	37.01	102.38	-112.72	513.38	525.61	452.78	72.83	7.217	
10,300.00	10,300.00	10,333.01	10,301.00	36.68	37.19	102.38	-112.72	513.38	525.61	452.42	73.19	7.182	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 124H - 124H Lateral - Plan #1										Offset Site Error		0.00 usft	
Survey Program: 0-MWD, 10711-MWD-HFR1-MS										Offset Well Error		0.00 usft	
Reference		Offset		Semi Major Axis						Distance			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,350.00	10,350.00	10,383.01	10,351.00	36.86	37.36	102.38	-112.72	513.38	525.61	452.06	73.55	7.147	
10,400.00	10,400.00	10,433.01	10,401.00	37.04	37.54	102.38	-112.72	513.38	525.61	451.70	73.90	7.112	
10,450.00	10,450.00	10,483.01	10,451.00	37.22	37.72	102.38	-112.72	513.38	525.61	451.35	74.26	7.078	
10,500.00	10,500.00	10,533.01	10,501.00	37.40	37.89	102.38	-112.72	513.38	525.61	450.99	74.62	7.044	
10,550.00	10,550.00	10,583.01	10,551.00	37.58	38.07	102.38	-112.72	513.38	525.61	450.63	74.98	7.010	
10,600.00	10,600.00	10,633.01	10,601.00	37.76	38.24	102.38	-112.72	513.38	525.61	450.27	75.33	6.977	
10,650.00	10,650.00	10,683.01	10,651.00	37.94	38.42	102.38	-112.72	513.38	525.61	449.92	75.69	6.944	
10,658.19	10,658.19	10,691.20	10,659.19	37.97	38.45	102.38	-112.72	513.38	525.61	449.86	75.75	6.939	
10,700.00	10,700.00	10,732.57	10,700.56	38.12	38.54	102.38	-112.72	513.38	525.61	449.62	75.99	6.917	
10,750.00	10,750.00	10,765.45	10,733.42	38.30	38.55	102.47	-113.58	513.75	526.45	450.26	76.19	6.910 SF	
10,800.00	10,800.00	10,800.00	10,767.83	38.48	38.58	102.73	-116.36	514.93	528.96	452.62	76.34	6.929	
10,850.00	10,850.00	10,829.80	10,797.32	38.66	38.63	103.11	-120.29	516.61	533.14	456.72	76.42	6.977	
10,900.00	10,900.00	10,861.16	10,828.07	38.84	38.68	103.64	-125.93	519.02	539.03	462.59	76.44	7.052	
10,950.00	10,950.00	10,900.00	10,865.61	39.01	38.75	104.48	-135.06	522.91	546.78	470.27	76.51	7.147	
11,000.00	11,000.00	10,921.47	10,886.05	39.19	38.78	105.03	-141.10	525.48	556.11	479.85	76.26	7.293	
11,050.00	11,050.00	10,950.00	10,912.80	39.37	38.83	105.84	-150.21	529.37	567.36	491.32	76.04	7.461	
11,100.00	11,100.00	10,977.73	10,938.30	39.55	38.88	106.71	-160.23	533.64	580.45	504.69	75.75	7.662	
11,150.00	11,150.00	11,000.00	10,958.38	39.73	38.92	107.47	-169.09	537.42	595.41	520.14	75.27	7.910	
11,200.00	11,200.00	11,029.38	10,984.27	39.91	38.98	108.52	-181.86	542.87	612.17	537.23	74.94	8.169	
11,250.00	11,250.00	11,050.00	11,002.00	40.09	39.01	109.30	-191.55	547.00	630.80	556.47	74.33	8.487	
11,300.00	11,300.00	11,076.23	11,023.98	40.27	39.06	110.33	-204.71	552.61	651.18	577.31	73.86	8.816	
11,350.00	11,350.00	11,100.00	11,043.32	40.45	39.10	111.29	-217.42	558.04	673.31	599.99	73.32	9.184	
11,400.00	11,399.96	11,118.81	11,058.20	40.57	39.13	-66.59	-227.99	562.55	696.60	624.08	72.51	9.606	
11,450.00	11,449.61	11,150.00	11,082.03	40.66	39.18	-63.27	-246.50	570.44	720.10	648.03	72.06	9.993	
11,500.00	11,498.55	11,160.84	11,090.04	40.76	39.19	-60.74	-253.21	573.30	743.07	672.13	70.94	10.475	
11,550.00	11,546.43	11,182.57	11,105.70	40.87	39.22	-58.18	-267.08	579.22	765.74	695.55	70.19	10.909	
11,600.00	11,592.87	11,210.25	11,124.86	40.96	39.24	-55.80	-285.58	586.74	787.55	717.90	69.64	11.308	

Anticollision Report

Company:	XTG Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1										Offset Site Error		0.00 usft	
Survey Program: 0-MWD, 10724-MWD+IFR1+MS										Offset Well Error		0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	89.62	0.20	30.10	30.10				
50.00	50.00	50.00	50.00	0.03	0.06	89.62	0.20	30.10	30.10	30.01	0.09	332.552	
100.00	100.00	100.00	100.00	0.12	0.12	89.62	0.20	30.10	30.10	29.86	0.24	125.327	
150.00	150.00	150.00	150.00	0.30	0.30	89.62	0.20	30.10	30.10	29.50	0.60	50.281	
200.00	200.00	200.00	200.00	0.48	0.48	89.62	0.20	30.10	30.10	29.14	0.96	31.449	
250.00	250.00	250.00	250.00	0.66	0.66	89.62	0.20	30.10	30.10	28.79	1.32	22.880	
300.00	300.00	300.00	300.00	0.84	0.84	89.62	0.20	30.10	30.10	28.43	1.67	17.981	
350.00	350.00	350.00	350.00	1.02	1.02	89.62	0.20	30.10	30.10	28.07	2.03	14.809	
400.00	400.00	400.00	400.00	1.20	1.20	89.62	0.20	30.10	30.10	27.71	2.39	12.589	
450.00	450.00	450.00	450.00	1.37	1.37	89.62	0.20	30.10	30.10	27.35	2.75	10.948	
500.00	500.00	500.00	500.00	1.55	1.55	89.62	0.20	30.10	30.10	26.99	3.11	9.685	
550.00	550.00	550.00	550.00	1.73	1.73	89.62	0.20	30.10	30.10	26.63	3.47	8.684	
600.00	600.00	600.00	600.00	1.91	1.91	89.62	0.20	30.10	30.10	26.28	3.82	7.870	
650.00	650.00	650.00	650.00	2.09	2.09	89.62	0.20	30.10	30.10	25.92	4.18	7.195	
700.00	700.00	700.00	700.00	2.27	2.27	89.62	0.20	30.10	30.10	25.56	4.54	6.627	
750.00	750.00	750.00	750.00	2.45	2.45	89.62	0.20	30.10	30.10	25.20	4.90	6.143	
800.00	800.00	800.00	800.00	2.63	2.63	89.62	0.20	30.10	30.10	24.84	5.26	5.724	
850.00	850.00	850.00	850.00	2.81	2.81	89.62	0.20	30.10	30.10	24.48	5.62	5.359	
900.00	900.00	900.00	900.00	2.99	2.99	89.62	0.20	30.10	30.10	24.12	5.98	5.037	
950.00	950.00	950.00	950.00	3.17	3.17	89.62	0.20	30.10	30.10	23.77	6.33	4.752	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	89.62	0.20	30.10	30.10	23.41	6.69	4.498	
1,050.00	1,050.00	1,050.00	1,050.00	3.53	3.53	89.62	0.20	30.10	30.10	23.05	7.05	4.269	
1,100.00	1,100.00	1,100.00	1,100.00	3.70	3.70	89.62	0.20	30.10	30.10	22.69	7.41	4.062	
1,150.00	1,150.00	1,150.00	1,150.00	3.88	3.88	89.62	0.20	30.10	30.10	22.33	7.77	3.875	
1,200.00	1,200.00	1,200.00	1,200.00	4.06	4.06	89.62	0.20	30.10	30.10	21.97	8.13	3.704	
1,250.00	1,250.00	1,250.08	1,250.08	4.24	4.23	90.23	-0.12	30.03	30.03	21.56	8.48	3.543	
1,300.00	1,300.00	1,300.15	1,300.13	4.42	4.40	92.08	-1.08	29.83	29.85	21.02	8.83	3.382	
1,350.00	1,350.00	1,350.18	1,350.14	4.60	4.57	95.21	-2.69	29.49	29.61	20.44	9.17	3.229	
1,400.00	1,400.00	1,400.16	1,400.06	4.78	4.73	99.64	-4.93	29.01	29.43	19.91	9.51	3.094	
1,421.96	1,421.96	1,422.09	1,421.96	4.86	4.81	102.00	-6.11	28.76	29.40	19.74	9.66	3.043 CC	
1,450.00	1,450.00	1,450.07	1,449.89	4.96	4.90	105.37	-7.80	28.40	29.45	19.60	9.86	2.988 ES	
1,500.00	1,500.00	1,499.89	1,499.58	5.14	5.06	112.24	-11.31	27.65	29.88	19.68	10.20	2.929	
1,550.00	1,550.00	1,549.65	1,549.17	5.32	5.23	119.91	-15.41	26.78	30.91	20.36	10.54	2.931	
1,600.00	1,600.00	1,599.46	1,598.79	5.50	5.40	127.22	-19.66	25.88	32.52	21.63	10.89	2.986	
1,650.00	1,650.00	1,649.27	1,648.41	5.68	5.57	133.74	-23.90	24.98	34.61	23.37	11.24	3.080	
1,700.00	1,700.00	1,699.08	1,698.03	5.86	5.74	139.46	-28.15	24.07	37.09	25.51	11.58	3.203	
1,750.00	1,750.00	1,748.89	1,747.65	6.03	5.92	144.42	-32.39	23.17	39.90	27.97	11.93	3.345	
1,800.00	1,800.00	1,798.70	1,797.27	6.21	6.09	148.71	-36.64	22.27	42.96	30.69	12.28	3.500	
1,850.00	1,850.00	1,848.51	1,846.89	6.39	6.27	152.41	-40.89	21.37	46.24	33.61	12.62	3.663	
1,900.00	1,900.00	1,898.32	1,896.51	6.57	6.45	155.61	-45.13	20.46	49.68	36.71	12.97	3.830	
1,950.00	1,950.00	1,948.13	1,946.13	6.75	6.62	158.39	-49.38	19.56	53.25	39.93	13.32	3.997	
2,000.00	2,000.00	1,997.94	1,995.75	6.93	6.80	160.81	-53.63	18.66	56.94	43.27	13.67	4.165	
2,050.00	2,050.00	2,047.75	2,045.37	7.11	6.98	162.94	-57.87	17.76	60.71	46.69	14.02	4.329	
2,100.00	2,100.00	2,097.56	2,094.99	7.29	7.16	164.82	-62.12	16.85	64.56	50.18	14.37	4.491	
2,150.00	2,150.00	2,147.37	2,144.61	7.47	7.34	166.49	-66.36	15.95	68.47	53.74	14.73	4.649	
2,200.00	2,200.00	2,197.18	2,194.23	7.65	7.52	167.97	-70.61	15.05	72.43	57.35	15.08	4.804	
2,250.00	2,250.00	2,246.99	2,243.85	7.83	7.71	169.30	-74.86	14.15	76.43	61.00	15.43	4.953	
2,300.00	2,300.00	2,296.80	2,293.47	8.01	7.89	170.50	-79.10	13.24	80.47	64.69	15.78	5.099	
2,350.00	2,350.00	2,346.61	2,343.09	8.19	8.07	171.58	-83.35	12.34	84.54	68.41	16.14	5.239	
2,400.00	2,400.00	2,396.42	2,392.71	8.36	8.25	172.56	-87.60	11.44	88.64	72.15	16.49	5.376	
2,450.00	2,450.00	2,446.23	2,442.33	8.54	8.44	173.46	-91.84	10.54	92.76	75.92	16.84	5.507	
2,500.00	2,500.00	2,496.04	2,491.95	8.72	8.62	174.28	-96.09	9.63	96.91	79.71	17.20	5.635	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD; 10724-MWD+IFR1+MS													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,550.00	2,550.00	2,545.85	2,541.57	8.90	8.81	175.03	-100.34	8.73	101.07	83.52	17.55	5.758	
2,600.00	2,600.00	2,595.66	2,591.19	9.08	8.99	175.72	-104.58	7.83	105.24	87.34	17.91	5.878	
2,650.00	2,650.00	2,645.47	2,640.81	9.26	9.18	176.36	-108.83	6.93	109.43	91.17	18.26	5.993	
2,700.00	2,700.00	2,695.28	2,690.43	9.44	9.36	176.95	-113.07	6.02	113.64	95.02	18.62	6.105	
2,750.00	2,750.00	2,745.09	2,740.05	9.62	9.55	177.50	-117.32	5.12	117.85	98.88	18.97	6.212	
2,800.00	2,800.00	2,794.90	2,789.67	9.80	9.73	178.01	-121.57	4.22	122.08	102.75	19.33	6.317	
2,850.00	2,850.00	2,844.71	2,839.29	9.98	9.92	178.49	-125.81	3.31	126.31	106.63	19.68	6.418	
2,900.00	2,900.00	2,894.52	2,888.91	10.16	10.11	178.94	-130.06	2.41	130.55	110.52	20.04	6.516	
2,950.00	2,950.00	2,944.33	2,938.03	10.34	10.29	179.36	-134.32	1.51	134.78	114.38	20.40	6.607	
3,000.00	3,000.00	2,994.14	2,987.24	10.52	10.49	179.72	-138.19	0.68	138.52	117.75	20.77	6.668	
3,050.00	3,050.00	3,043.95	3,036.45	10.69	10.67	180.00	-141.39	0.00	141.61	120.46	21.15	6.696	
3,100.00	3,100.00	3,100.08	3,093.96	10.87	10.86	-179.79	-143.90	-0.53	144.03	122.52	21.52	6.694	
3,150.00	3,150.00	3,151.97	3,145.82	11.05	11.05	-179.64	-145.73	-0.92	145.80	123.91	21.88	6.663	
3,200.00	3,200.00	3,203.91	3,197.75	11.23	11.23	-179.55	-146.87	-1.16	146.90	124.65	22.24	6.604	
3,250.00	3,250.00	3,255.87	3,249.71	11.41	11.41	-179.51	-147.32	-1.26	147.33	124.73	22.60	6.519	
3,300.00	3,300.00	3,306.16	3,300.00	11.59	11.59	-179.51	-147.33	-1.26	147.34	124.38	22.96	6.418	
3,350.00	3,350.00	3,356.16	3,350.00	11.77	11.76	-179.51	-147.33	-1.26	147.34	124.03	23.31	6.320	
3,400.00	3,400.00	3,406.16	3,400.00	11.95	11.94	-179.51	-147.33	-1.26	147.34	123.67	23.67	6.226	
3,450.00	3,450.00	3,456.16	3,450.00	12.13	12.11	-179.51	-147.33	-1.26	147.34	123.31	24.02	6.134	
3,500.00	3,500.00	3,506.16	3,500.00	12.31	12.28	-179.51	-147.33	-1.26	147.34	122.96	24.38	6.044	
3,550.00	3,550.00	3,556.16	3,550.00	12.49	12.46	-179.51	-147.33	-1.26	147.34	122.60	24.73	5.957	
3,600.00	3,600.00	3,606.16	3,600.00	12.67	12.63	-179.51	-147.33	-1.26	147.34	122.25	25.09	5.873	
3,650.00	3,650.00	3,656.16	3,650.00	12.85	12.81	-179.51	-147.33	-1.26	147.34	121.89	25.44	5.791	
3,700.00	3,700.00	3,706.16	3,700.00	13.03	12.98	-179.51	-147.33	-1.26	147.34	121.54	25.80	5.711	
3,750.00	3,750.00	3,756.16	3,750.00	13.20	13.16	-179.51	-147.33	-1.26	147.34	121.18	26.15	5.633	
3,800.00	3,800.00	3,806.16	3,800.00	13.38	13.33	-179.51	-147.33	-1.26	147.34	120.83	26.51	5.558	
3,850.00	3,850.00	3,856.16	3,850.00	13.56	13.50	-179.51	-147.33	-1.26	147.34	120.47	26.87	5.484	
3,900.00	3,900.00	3,906.16	3,900.00	13.74	13.68	-179.51	-147.33	-1.26	147.34	120.11	27.22	5.413	
3,950.00	3,950.00	3,956.16	3,950.00	13.92	13.85	-179.51	-147.33	-1.26	147.34	119.76	27.58	5.343	
4,000.00	4,000.00	4,006.16	4,000.00	14.10	14.03	-179.51	-147.33	-1.26	147.34	119.40	27.93	5.275	
4,050.00	4,050.00	4,056.16	4,050.00	14.28	14.21	-179.51	-147.33	-1.26	147.34	119.05	28.29	5.208	
4,100.00	4,100.00	4,106.16	4,100.00	14.46	14.38	-179.51	-147.33	-1.26	147.34	118.69	28.65	5.143	
4,150.00	4,150.00	4,156.16	4,150.00	14.64	14.56	-179.51	-147.33	-1.26	147.34	118.33	29.00	5.080	
4,200.00	4,200.00	4,206.16	4,200.00	14.82	14.73	-179.51	-147.33	-1.26	147.34	117.98	29.36	5.019	
4,250.00	4,250.00	4,256.16	4,250.00	15.00	14.91	-179.51	-147.33	-1.26	147.34	117.62	29.71	4.958	
4,300.00	4,300.00	4,306.16	4,300.00	15.18	15.08	-179.51	-147.33	-1.26	147.34	117.27	30.07	4.900	
4,350.00	4,350.00	4,356.16	4,350.00	15.36	15.26	-179.51	-147.33	-1.26	147.34	116.91	30.43	4.842	
4,400.00	4,400.00	4,406.16	4,400.00	15.53	15.43	-179.51	-147.33	-1.26	147.34	116.55	30.78	4.786	
4,450.00	4,450.00	4,456.16	4,450.00	15.71	15.61	-179.51	-147.33	-1.26	147.34	116.20	31.14	4.731	
4,500.00	4,500.00	4,506.16	4,500.00	15.89	15.79	-179.51	-147.33	-1.26	147.34	115.84	31.50	4.678	
4,550.00	4,550.00	4,556.16	4,550.00	16.07	15.96	-179.51	-147.33	-1.26	147.34	115.48	31.85	4.626	
4,600.00	4,600.00	4,606.16	4,600.00	16.25	16.14	-179.51	-147.33	-1.26	147.34	115.13	32.21	4.574	
4,650.00	4,650.00	4,656.16	4,650.00	16.43	16.31	-179.51	-147.33	-1.26	147.34	114.77	32.57	4.524	
4,700.00	4,700.00	4,706.16	4,700.00	16.61	16.49	-179.51	-147.33	-1.26	147.34	114.41	32.92	4.475	
4,750.00	4,750.00	4,756.16	4,750.00	16.79	16.67	-179.51	-147.33	-1.26	147.34	114.06	33.28	4.427	
4,800.00	4,800.00	4,806.16	4,800.00	16.97	16.84	-179.51	-147.33	-1.26	147.34	113.70	33.64	4.380	
4,850.00	4,850.00	4,856.16	4,850.00	17.15	17.02	-179.51	-147.33	-1.26	147.34	113.34	33.99	4.334	
4,900.00	4,900.00	4,906.16	4,900.00	17.33	17.20	-179.51	-147.33	-1.26	147.34	112.99	34.35	4.289	
4,950.00	4,950.00	4,956.16	4,950.00	17.51	17.37	-179.51	-147.33	-1.26	147.34	112.63	34.71	4.245	
5,000.00	5,000.00	5,006.16	5,000.00	17.69	17.55	-179.51	-147.33	-1.26	147.34	112.27	35.06	4.202	
5,050.00	5,050.00	5,056.16	5,050.00	17.86	17.73	-179.51	-147.33	-1.26	147.34	111.92	35.42	4.160	
5,100.00	5,100.00	5,106.16	5,100.00	18.04	17.90	-179.51	-147.33	-1.26	147.34	111.56	35.78	4.118	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD 10724-MWD+HFR1+MS														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi-Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,150.00	5,150.00	5,156.16	5,150.00	18.22	18.08	-179.51	-147.33	-1.26	147.34	111.20	36.13	4.077			
5,200.00	5,200.00	5,206.16	5,200.00	18.40	18.26	-179.51	-147.33	-1.26	147.34	110.84	36.49	4.038			
5,250.00	5,250.00	5,256.16	5,250.00	18.58	18.43	-179.51	-147.33	-1.26	147.34	110.49	36.85	3.998			
5,300.00	5,300.00	5,306.16	5,300.00	18.76	18.61	-179.51	-147.33	-1.26	147.34	110.13	37.21	3.960			
5,350.00	5,350.00	5,356.16	5,350.00	18.94	18.79	-179.51	-147.33	-1.26	147.34	109.77	37.56	3.922			
5,400.00	5,400.00	5,406.16	5,400.00	19.12	18.97	-179.51	-147.33	-1.26	147.34	109.42	37.92	3.885			
5,450.00	5,450.00	5,456.16	5,450.00	19.30	19.14	-179.51	-147.33	-1.26	147.34	109.06	38.28	3.849			
5,500.00	5,500.00	5,506.16	5,500.00	19.48	19.32	-179.51	-147.33	-1.26	147.34	108.70	38.63	3.814			
5,550.00	5,550.00	5,556.16	5,550.00	19.66	19.50	-179.51	-147.33	-1.26	147.34	108.34	38.99	3.779			
5,600.00	5,600.00	5,606.16	5,600.00	19.84	19.67	-179.51	-147.33	-1.26	147.34	107.99	39.35	3.744			
5,650.00	5,650.00	5,656.16	5,650.00	20.02	19.85	-179.51	-147.33	-1.26	147.34	107.63	39.71	3.711			
5,700.00	5,700.00	5,706.16	5,700.00	20.19	20.03	-179.51	-147.33	-1.26	147.34	107.27	40.06	3.678			
5,750.00	5,750.00	5,756.16	5,750.00	20.37	20.21	-179.51	-147.33	-1.26	147.34	106.92	40.42	3.645			
5,800.00	5,800.00	5,806.16	5,800.00	20.55	20.38	-179.51	-147.33	-1.26	147.34	106.56	40.78	3.613			
5,850.00	5,850.00	5,856.16	5,850.00	20.73	20.56	-179.51	-147.33	-1.26	147.34	106.20	41.14	3.582			
5,900.00	5,900.00	5,906.16	5,900.00	20.91	20.74	-179.51	-147.33	-1.26	147.34	105.84	41.49	3.551			
5,950.00	5,950.00	5,956.16	5,950.00	21.09	20.91	-179.51	-147.33	-1.26	147.34	105.49	41.85	3.521			
6,000.00	6,000.00	6,006.16	6,000.00	21.27	21.09	-179.51	-147.33	-1.26	147.34	105.13	42.21	3.491			
6,050.00	6,050.00	6,056.16	6,050.00	21.45	21.27	-179.51	-147.33	-1.26	147.34	104.77	42.57	3.461			
6,100.00	6,100.00	6,106.16	6,100.00	21.63	21.45	-179.51	-147.33	-1.26	147.34	104.41	42.92	3.433			
6,150.00	6,150.00	6,156.16	6,150.00	21.81	21.62	-179.51	-147.33	-1.26	147.34	104.06	43.28	3.404			
6,200.00	6,200.00	6,206.16	6,200.00	21.99	21.80	-179.51	-147.33	-1.26	147.34	103.70	43.64	3.376			
6,250.00	6,250.00	6,256.16	6,250.00	22.17	21.98	-179.51	-147.33	-1.26	147.34	103.34	44.00	3.349			
6,300.00	6,300.00	6,306.16	6,300.00	22.35	22.16	-179.51	-147.33	-1.26	147.34	102.98	44.35	3.322			
6,350.00	6,350.00	6,356.16	6,350.00	22.52	22.34	-179.51	-147.33	-1.26	147.34	102.63	44.71	3.295			
6,400.00	6,400.00	6,406.16	6,400.00	22.70	22.51	-179.51	-147.33	-1.26	147.34	102.27	45.07	3.269			
6,450.00	6,450.00	6,456.16	6,450.00	22.88	22.69	-179.51	-147.33	-1.26	147.34	101.91	45.43	3.243			
6,500.00	6,500.00	6,506.16	6,500.00	23.06	22.87	-179.51	-147.33	-1.26	147.34	101.55	45.78	3.218			
6,550.00	6,550.00	6,556.16	6,550.00	23.24	23.05	-179.51	-147.33	-1.26	147.34	101.20	46.14	3.193			
6,600.00	6,600.00	6,606.16	6,600.00	23.42	23.22	-179.51	-147.33	-1.26	147.34	100.84	46.50	3.169			
6,650.00	6,650.00	6,656.16	6,650.00	23.60	23.40	-179.51	-147.33	-1.26	147.34	100.48	46.86	3.144			
6,700.00	6,700.00	6,706.16	6,700.00	23.78	23.58	-179.51	-147.33	-1.26	147.34	100.12	47.21	3.121			
6,750.00	6,750.00	6,756.16	6,750.00	23.96	23.76	-179.51	-147.33	-1.26	147.34	99.77	47.57	3.097			
6,800.00	6,800.00	6,806.16	6,800.00	24.14	23.93	-179.51	-147.33	-1.26	147.34	99.41	47.93	3.074			
6,850.00	6,850.00	6,856.16	6,850.00	24.32	24.11	-179.51	-147.33	-1.26	147.34	99.05	48.29	3.051			
6,900.00	6,900.00	6,906.16	6,900.00	24.50	24.29	-179.51	-147.33	-1.26	147.34	98.69	48.64	3.029			
6,950.00	6,950.00	6,956.16	6,950.00	24.68	24.47	-179.51	-147.33	-1.26	147.34	98.33	49.00	3.007			
7,000.00	7,000.00	7,006.16	7,000.00	24.85	24.65	-179.51	-147.33	-1.26	147.34	97.98	49.36	2.985			
7,050.00	7,050.00	7,056.16	7,050.00	25.03	24.82	-179.51	-147.33	-1.26	147.34	97.62	49.72	2.964			
7,100.00	7,100.00	7,106.16	7,100.00	25.21	25.00	-179.51	-147.33	-1.26	147.34	97.26	50.07	2.942			
7,150.00	7,150.00	7,156.16	7,150.00	25.39	25.18	-179.51	-147.33	-1.26	147.34	96.90	50.43	2.921			
7,200.00	7,200.00	7,206.16	7,200.00	25.57	25.36	-179.51	-147.33	-1.26	147.34	96.55	50.79	2.901			
7,250.00	7,250.00	7,256.16	7,250.00	25.75	25.54	-179.51	-147.33	-1.26	147.34	96.19	51.15	2.881			
7,300.00	7,300.00	7,306.16	7,300.00	25.93	25.71	-179.51	-147.33	-1.26	147.34	95.83	51.51	2.861			
7,350.00	7,350.00	7,356.16	7,350.00	26.11	25.89	-179.51	-147.33	-1.26	147.34	95.47	51.86	2.841			
7,400.00	7,400.00	7,406.16	7,400.00	26.29	26.07	-179.51	-147.33	-1.26	147.34	95.12	52.22	2.821			
7,450.00	7,450.00	7,456.16	7,450.00	26.47	26.25	-179.51	-147.33	-1.26	147.34	94.76	52.58	2.802			
7,500.00	7,500.00	7,506.16	7,500.00	26.65	26.43	-179.51	-147.33	-1.26	147.34	94.40	52.94	2.783			
7,550.00	7,550.00	7,556.16	7,550.00	26.83	26.60	-179.51	-147.33	-1.26	147.34	94.04	53.29	2.765			
7,600.00	7,600.00	7,606.16	7,600.00	27.01	26.78	-179.51	-147.33	-1.26	147.34	93.68	53.65	2.746			
7,650.00	7,650.00	7,656.16	7,650.00	27.18	26.96	-179.51	-147.33	-1.26	147.34	93.33	54.01	2.728			
7,700.00	7,700.00	7,706.16	7,700.00	27.36	27.14	-179.51	-147.33	-1.26	147.34	92.97	54.37	2.710			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10724-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,750.00	7,750.00	7,756.16	7,750.00	27.54	27.32	-179.51	-147.33	-1.26	147.34	92.61	54.73	2.692	
7,800.00	7,800.00	7,806.16	7,800.00	27.72	27.50	-179.51	-147.33	-1.26	147.34	92.25	55.08	2.675	
7,850.00	7,850.00	7,856.16	7,850.00	27.90	27.67	-179.51	-147.33	-1.26	147.34	91.89	55.44	2.658	
7,900.00	7,900.00	7,906.16	7,900.00	28.08	27.85	-179.51	-147.33	-1.26	147.34	91.54	55.80	2.640	
7,950.00	7,950.00	7,956.16	7,950.00	28.26	28.03	-179.51	-147.33	-1.26	147.34	91.18	56.16	2.624	
8,000.00	8,000.00	8,006.16	8,000.00	28.44	28.21	-179.51	-147.33	-1.26	147.34	90.82	56.51	2.607	
8,050.00	8,050.00	8,056.16	8,050.00	28.62	28.39	-179.51	-147.33	-1.26	147.34	90.46	56.87	2.591	
8,100.00	8,100.00	8,106.16	8,100.00	28.80	28.57	-179.51	-147.33	-1.26	147.34	90.11	57.23	2.574	
8,150.00	8,150.00	8,156.16	8,150.00	28.98	28.74	-179.51	-147.33	-1.26	147.34	89.75	57.59	2.558	
8,200.00	8,200.00	8,206.16	8,200.00	29.16	28.92	-179.51	-147.33	-1.26	147.34	89.39	57.95	2.543	
8,250.00	8,250.00	8,256.16	8,250.00	29.34	29.10	-179.51	-147.33	-1.26	147.34	89.03	58.30	2.527	
8,300.00	8,300.00	8,306.16	8,300.00	29.51	29.28	-179.51	-147.33	-1.26	147.34	88.67	58.66	2.512	
8,350.00	8,350.00	8,356.16	8,350.00	29.69	29.46	-179.51	-147.33	-1.26	147.34	88.32	59.02	2.496	
8,400.00	8,400.00	8,406.16	8,400.00	29.87	29.63	-179.51	-147.33	-1.26	147.34	87.96	59.38	2.481	
8,450.00	8,450.00	8,456.16	8,450.00	30.05	29.81	-179.51	-147.33	-1.26	147.34	87.60	59.74	2.466	
8,500.00	8,500.00	8,506.16	8,500.00	30.23	29.99	-179.51	-147.33	-1.26	147.34	87.24	60.09	2.452	
8,550.00	8,550.00	8,556.16	8,550.00	30.41	30.17	-179.51	-147.33	-1.26	147.34	86.88	60.45	2.437	
8,600.00	8,600.00	8,606.16	8,600.00	30.59	30.35	-179.51	-147.33	-1.26	147.34	86.53	60.81	2.423	
8,650.00	8,650.00	8,656.16	8,650.00	30.77	30.53	-179.51	-147.33	-1.26	147.34	86.17	61.17	2.409	
8,700.00	8,700.00	8,706.16	8,700.00	30.95	30.71	-179.51	-147.33	-1.26	147.34	85.81	61.53	2.395	
8,750.00	8,750.00	8,756.16	8,750.00	31.13	30.88	-179.51	-147.33	-1.26	147.34	85.45	61.88	2.381	
8,800.00	8,800.00	8,806.16	8,800.00	31.31	31.06	-179.51	-147.33	-1.26	147.34	85.09	62.24	2.367	
8,850.00	8,850.00	8,856.16	8,850.00	31.49	31.24	-179.51	-147.33	-1.26	147.34	84.74	62.60	2.354	
8,900.00	8,900.00	8,906.16	8,900.00	31.67	31.42	-179.51	-147.33	-1.26	147.34	84.38	62.96	2.340	
8,950.00	8,950.00	8,956.16	8,950.00	31.84	31.60	-179.51	-147.33	-1.26	147.34	84.02	63.32	2.327	
9,000.00	9,000.00	9,006.16	9,000.00	32.02	31.78	-179.51	-147.33	-1.26	147.34	83.66	63.67	2.314	
9,050.00	9,050.00	9,056.16	9,050.00	32.20	31.95	-179.51	-147.33	-1.26	147.34	83.30	64.03	2.301	
9,100.00	9,100.00	9,106.16	9,100.00	32.38	32.13	-179.51	-147.33	-1.26	147.34	82.95	64.39	2.288	
9,150.00	9,150.00	9,156.16	9,150.00	32.56	32.31	-179.51	-147.33	-1.26	147.34	82.59	64.75	2.276	
9,200.00	9,200.00	9,206.16	9,200.00	32.74	32.49	-179.51	-147.33	-1.26	147.34	82.23	65.11	2.263	
9,250.00	9,250.00	9,256.16	9,250.00	32.92	32.67	-179.51	-147.33	-1.26	147.34	81.87	65.46	2.251	
9,300.00	9,300.00	9,306.16	9,300.00	33.10	32.85	-179.51	-147.33	-1.26	147.34	81.51	65.82	2.238	
9,350.00	9,350.00	9,356.16	9,350.00	33.28	33.03	-179.51	-147.33	-1.26	147.34	81.16	66.18	2.226	
9,400.00	9,400.00	9,406.16	9,400.00	33.46	33.20	-179.51	-147.33	-1.26	147.34	80.80	66.54	2.214	
9,450.00	9,450.00	9,456.16	9,450.00	33.64	33.38	-179.51	-147.33	-1.26	147.34	80.44	66.90	2.202	
9,500.00	9,500.00	9,506.16	9,500.00	33.82	33.56	-179.51	-147.33	-1.26	147.34	80.08	67.25	2.191	
9,550.00	9,550.00	9,556.16	9,550.00	34.00	33.74	-179.51	-147.33	-1.26	147.34	79.72	67.61	2.179	
9,600.00	9,600.00	9,606.16	9,600.00	34.17	33.92	-179.51	-147.33	-1.26	147.34	79.37	67.97	2.168	
9,650.00	9,650.00	9,656.16	9,650.00	34.35	34.10	-179.51	-147.33	-1.26	147.34	79.01	68.33	2.156	
9,700.00	9,700.00	9,706.16	9,700.00	34.53	34.27	-179.51	-147.33	-1.26	147.34	78.65	68.69	2.145	
9,750.00	9,750.00	9,756.16	9,750.00	34.71	34.45	-179.51	-147.33	-1.26	147.34	78.29	69.04	2.134	
9,800.00	9,800.00	9,806.16	9,800.00	34.89	34.63	-179.51	-147.33	-1.26	147.34	77.93	69.40	2.123	
9,850.00	9,850.00	9,856.16	9,850.00	35.07	34.81	-179.51	-147.33	-1.26	147.34	77.58	69.76	2.112	
9,900.00	9,900.00	9,906.16	9,900.00	35.25	34.99	-179.51	-147.33	-1.26	147.34	77.22	70.12	2.101	
9,950.00	9,950.00	9,956.16	9,950.00	35.43	35.17	-179.51	-147.33	-1.26	147.34	76.86	70.48	2.091	
10,000.00	10,000.00	10,006.16	10,000.00	35.61	35.35	-179.51	-147.33	-1.26	147.34	76.50	70.84	2.080	
10,050.00	10,050.00	10,056.16	10,050.00	35.79	35.52	-179.51	-147.33	-1.26	147.34	76.14	71.19	2.070	
10,100.00	10,100.00	10,106.16	10,100.00	35.97	35.70	-179.51	-147.33	-1.26	147.34	75.79	71.55	2.059	
10,150.00	10,150.00	10,156.16	10,150.00	36.15	35.88	-179.51	-147.33	-1.26	147.34	75.43	71.91	2.049	
10,200.00	10,200.00	10,206.16	10,200.00	36.33	36.06	-179.51	-147.33	-1.26	147.34	75.07	72.27	2.039	
10,250.00	10,250.00	10,256.16	10,250.00	36.50	36.24	-179.51	-147.33	-1.26	147.34	74.71	72.63	2.029	
10,300.00	10,300.00	10,306.16	10,300.00	36.68	36.42	-179.51	-147.33	-1.26	147.34	74.35	72.98	2.019	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										Offset Site Error:		0.00 usft	
Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1													
Survey Program: 0-MWD, 10724-MWD, IFR1+MS										Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N-S	+E-W	Between	Between	Minimum	Separation	
Depth	Depth	Depth	Depth	Depth	Depth	Toolface	(usft)	(usft)	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
10,350.00	10,350.00	10,356.16	10,350.00	36.86	36.60	-179.51	-147.33	-1.26	147.34	73.99	73.34	2.009	
10,400.00	10,400.00	10,406.16	10,400.00	37.04	36.78	-179.51	-147.33	-1.26	147.34	73.64	73.70	1.999	
10,450.00	10,450.00	10,456.16	10,450.00	37.22	36.95	-179.51	-147.33	-1.26	147.34	73.28	74.06	1.989	
10,500.00	10,500.00	10,506.16	10,500.00	37.40	37.13	-179.51	-147.33	-1.26	147.34	72.92	74.42	1.980	
10,550.00	10,550.00	10,556.16	10,550.00	37.58	37.31	-179.51	-147.33	-1.26	147.34	72.56	74.77	1.970	
10,600.00	10,600.00	10,606.16	10,600.00	37.76	37.49	-179.51	-147.33	-1.26	147.34	72.20	75.13	1.961	
10,650.00	10,650.00	10,656.16	10,650.00	37.94	37.67	-179.51	-147.33	-1.26	147.34	71.85	75.49	1.952	
10,700.00	10,700.00	10,706.16	10,700.00	38.12	37.85	-179.51	-147.33	-1.26	147.34	71.49	75.85	1.943 SF	
10,750.00	10,750.00	10,750.00	10,743.83	38.30	37.96	-179.51	-147.91	-1.26	148.05	71.95	76.10	1.945	
10,800.00	10,800.00	10,789.12	10,782.82	38.48	37.96	-179.51	-151.00	-1.29	151.98	76.05	75.94	2.001	
10,850.00	10,850.00	10,828.02	10,821.29	38.66	37.98	-179.51	-156.71	-1.34	159.32	83.84	75.49	2.111	
10,900.00	10,900.00	10,865.98	10,858.37	38.84	38.06	-179.51	-164.78	-1.41	169.96	95.16	74.80	2.272	
10,950.00	10,950.00	10,900.00	10,891.09	39.01	38.13	-179.51	-174.09	-1.49	183.79	110.15	73.64	2.496	
11,000.00	11,000.00	10,937.98	10,926.89	39.19	38.21	-179.51	-186.75	-1.60	200.56	127.57	72.98	2.748	
11,050.00	11,050.00	10,971.64	10,957.85	39.37	38.28	-179.51	-199.93	-1.72	220.15	148.19	71.96	3.059	
11,100.00	11,100.00	11,000.00	10,983.31	39.55	38.34	-179.51	-212.44	-1.83	242.38	171.89	70.49	3.438	
11,150.00	11,150.00	11,033.71	11,012.72	39.73	38.40	-179.51	-228.91	-1.97	266.93	197.09	69.85	3.822	
11,200.00	11,200.00	11,062.07	11,036.67	39.91	38.46	-179.51	-244.09	-2.10	293.71	224.90	68.80	4.269	
11,250.00	11,250.00	11,088.67	11,058.42	40.09	38.50	-179.51	-259.39	-2.24	322.48	254.68	67.79	4.757	
11,300.00	11,300.00	11,113.57	11,078.12	40.27	38.54	-179.51	-274.61	-2.37	353.06	286.23	66.83	5.283	
11,350.00	11,350.00	11,136.83	11,095.91	40.45	38.58	-179.51	-289.59	-2.50	385.27	319.36	65.90	5.846	
11,400.00	11,399.96	11,150.00	11,105.71	40.57	38.60	-0.14	-298.39	-2.58	417.99	353.85	64.14	6.517	
11,450.00	11,449.61	11,181.59	11,128.37	40.66	38.65	-0.13	-320.40	-2.77	448.54	384.65	63.89	7.021	
11,500.00	11,498.55	11,200.00	11,141.01	40.76	38.67	-0.12	-333.79	-2.89	477.37	414.78	62.59	7.626	
11,550.00	11,546.43	11,225.92	11,158.69	40.87	38.71	-0.12	-354.07	-3.06	504.16	442.27	61.89	8.146	
11,600.00	11,592.87	11,250.00	11,173.08	40.96	38.74	-0.12	-372.12	-3.22	528.94	468.03	60.91	8.684	
11,650.00	11,637.53	11,272.67	11,186.50	41.06	38.76	-0.11	-390.39	-3.38	551.64	491.74	59.90	9.209	
11,700.00	11,680.06	11,300.00	11,201.70	41.14	38.79	-0.11	-413.10	-3.58	572.25	513.06	59.18	9.669	
11,750.00	11,720.14	11,318.74	11,211.48	41.22	38.81	-0.11	-429.08	-3.72	590.62	532.63	58.00	10.184	
11,800.00	11,757.46	11,350.00	11,226.63	41.30	38.84	-0.11	-456.42	-3.96	606.94	549.42	57.51	10.553	
11,850.00	11,791.74	11,365.03	11,233.37	41.36	38.85	-0.11	-469.86	-4.07	620.80	564.55	56.25	11.036	
11,900.00	11,822.72	11,400.00	11,247.69	41.42	38.87	-0.12	-501.75	-4.35	632.74	576.75	55.99	11.300	
11,950.00	11,850.17	11,400.00	11,247.69	41.47	38.87	-0.11	-501.75	-4.35	642.16	587.88	54.27	11.832	
12,000.00	11,873.87	11,434.75	11,259.96	41.51	38.89	-0.12	-534.26	-4.64	649.07	594.97	54.10	11.998	
12,050.00	11,893.64	11,450.00	11,264.72	41.54	38.90	-0.12	-548.74	-4.76	653.98	600.72	53.27	12.277	
12,100.00	11,909.34	11,481.33	11,273.28	41.56	38.91	-0.13	-578.87	-5.02	656.37	603.29	53.08	12.366	
12,150.00	11,920.84	11,500.00	11,277.59	41.58	38.92	-0.13	-597.04	-5.18	656.56	603.97	52.58	12.486	
12,200.00	11,928.06	11,527.92	11,282.93	41.59	38.93	-0.14	-624.44	-5.42	654.35	601.91	52.45	12.477	
12,250.00	11,930.94	11,550.00	11,286.20	41.60	38.94	-0.14	-646.28	-5.61	649.86	597.59	52.27	12.433	
12,300.00	11,931.00	11,574.55	11,288.85	41.61	38.94	-0.05	-670.68	-5.83	644.57	592.48	52.09	12.374	
12,350.00	11,931.00	11,600.00	11,290.49	41.61	38.95	-0.03	-696.07	-6.05	641.27	589.24	52.04	12.324	
12,400.00	11,931.00	11,624.20	11,291.00	41.62	38.95	0.00	-720.27	-6.26	640.02	588.01	52.01	12.306	
12,407.68	11,931.00	11,626.49	11,291.00	41.62	38.95	0.00	-722.56	-6.28	640.00	587.99	52.01	12.305	
12,450.00	11,931.00	11,668.82	11,291.00	41.62	38.95	0.00	-764.88	-6.28	640.00	587.87	52.13	12.278	
12,500.00	11,931.00	11,718.82	11,291.00	41.63	38.96	0.00	-814.88	-6.20	640.00	587.73	52.27	12.245	
12,550.00	11,931.00	11,768.82	11,291.00	41.64	38.96	0.00	-864.88	-6.11	640.00	587.57	52.43	12.207	
12,600.00	11,931.00	11,818.82	11,291.00	41.65	38.97	0.00	-914.88	-6.02	640.00	587.41	52.59	12.169	
12,650.00	11,931.00	11,868.82	11,291.00	41.65	38.98	0.00	-964.88	-5.93	640.00	587.22	52.78	12.127	
12,700.00	11,931.00	11,918.82	11,291.00	41.66	38.98	0.00	-1,014.88	-5.84	640.00	587.04	52.96	12.084	
12,750.00	11,931.00	11,968.82	11,291.00	41.66	39.00	0.00	-1,064.88	-5.75	640.00	586.83	53.17	12.037	
12,800.00	11,931.00	12,018.82	11,291.00	41.69	39.08	0.00	-1,114.88	-5.66	640.00	586.62	53.38	11.990	
12,850.00	11,931.00	12,068.82	11,291.00	41.72	39.17	0.00	-1,164.88	-5.57	640.00	586.39	53.61	11.939	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD, 10724-1AWD+IFR1+MS														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		N-S (usft)	E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
12,900.00	11,931.00	12,118.82	11,291.00	41.77	39.27	0.00	-1,214.88	-5.48	640.00	586.16	53.84	11.888			
12,950.00	11,931.00	12,168.82	11,291.00	41.84	39.37	0.00	-1,264.88	-5.39	640.00	585.92	54.08	11.833			
13,000.00	11,931.00	12,218.82	11,291.00	41.93	39.48	0.00	-1,314.88	-5.30	640.00	585.66	54.34	11.778			
13,050.00	11,931.00	12,268.82	11,291.00	42.03	39.59	0.00	-1,364.88	-5.21	640.00	585.40	54.60	11.721			
13,100.00	11,931.00	12,318.82	11,291.00	42.12	39.70	0.00	-1,414.88	-5.12	640.00	585.12	54.88	11.663			
13,150.00	11,931.00	12,368.82	11,291.00	42.23	39.81	0.00	-1,464.88	-5.03	640.00	584.84	55.16	11.602			
13,200.00	11,931.00	12,418.82	11,291.00	42.33	39.93	0.00	-1,514.88	-4.94	640.00	584.54	55.46	11.541			
13,250.00	11,931.00	12,468.82	11,291.00	42.44	40.06	0.00	-1,564.88	-4.85	640.00	584.24	55.76	11.477			
13,300.00	11,931.00	12,518.82	11,291.00	42.56	40.18	0.00	-1,614.88	-4.77	640.00	583.93	56.07	11.414			
13,350.00	11,931.00	12,568.82	11,291.00	42.67	40.31	0.00	-1,664.88	-4.68	640.00	583.60	56.40	11.348			
13,400.00	11,931.00	12,618.82	11,291.00	42.79	40.44	0.00	-1,714.88	-4.59	640.00	583.27	56.73	11.282			
13,450.00	11,931.00	12,668.82	11,291.00	42.92	40.58	0.00	-1,764.88	-4.50	640.00	582.93	57.07	11.214			
13,500.00	11,931.00	12,718.82	11,291.00	43.04	40.71	0.00	-1,814.88	-4.41	640.00	582.58	57.42	11.147			
13,550.00	11,931.00	12,768.82	11,291.00	43.17	40.85	0.00	-1,864.88	-4.32	640.00	582.22	57.78	11.077			
13,600.00	11,931.00	12,818.82	11,291.00	43.30	41.00	0.00	-1,914.88	-4.23	640.00	581.86	58.14	11.008			
13,650.00	11,931.00	12,868.82	11,291.00	43.44	41.15	0.00	-1,964.88	-4.14	640.00	581.48	58.52	10.937			
13,700.00	11,931.00	12,918.82	11,291.00	43.58	41.30	0.00	-2,014.88	-4.05	640.00	581.11	58.90	10.867			
13,750.00	11,931.00	12,968.82	11,291.00	43.72	41.45	0.00	-2,064.88	-3.96	640.00	580.71	59.29	10.795			
13,800.00	11,931.00	13,018.82	11,291.00	43.86	41.61	0.00	-2,114.88	-3.87	640.00	580.32	59.68	10.723			
13,850.00	11,931.00	13,068.82	11,291.00	44.01	41.77	0.00	-2,164.88	-3.78	640.00	579.91	60.09	10.651			
13,900.00	11,931.00	13,118.82	11,291.00	44.16	41.93	-0.01	-2,214.88	-3.69	640.00	579.50	60.50	10.578			
13,950.00	11,931.00	13,168.82	11,291.00	44.31	42.09	-0.01	-2,264.88	-3.60	640.00	579.08	60.92	10.505			
14,000.00	11,931.00	13,218.82	11,291.00	44.47	42.26	-0.01	-2,314.88	-3.51	640.00	578.65	61.35	10.432			
14,050.00	11,931.00	13,268.82	11,291.00	44.63	42.43	-0.01	-2,364.88	-3.42	640.00	578.21	61.79	10.358			
14,100.00	11,931.00	13,318.82	11,291.00	44.79	42.60	-0.01	-2,414.88	-3.34	640.00	577.78	62.23	10.285			
14,150.00	11,931.00	13,368.82	11,291.00	44.95	42.78	-0.01	-2,464.88	-3.25	640.00	577.32	62.68	10.211			
14,200.00	11,931.00	13,418.82	11,291.00	45.12	42.96	-0.01	-2,514.88	-3.16	640.00	576.87	63.13	10.138			
14,250.00	11,931.00	13,468.82	11,291.00	45.29	43.14	-0.01	-2,564.88	-3.07	640.00	576.41	63.59	10.064			
14,300.00	11,931.00	13,518.82	11,291.00	45.46	43.32	-0.01	-2,614.88	-2.98	640.00	575.94	64.06	9.991			
14,350.00	11,931.00	13,568.82	11,291.00	45.63	43.51	-0.01	-2,664.88	-2.89	640.00	575.47	64.53	9.918			
14,400.00	11,931.00	13,618.82	11,291.00	45.81	43.70	-0.01	-2,714.88	-2.80	640.00	574.99	65.01	9.845			
14,450.00	11,931.00	13,668.82	11,291.00	45.99	43.89	-0.01	-2,764.88	-2.71	640.00	574.50	65.50	9.772			
14,500.00	11,931.00	13,718.82	11,291.00	46.17	44.09	-0.01	-2,814.88	-2.62	640.00	574.02	65.99	9.699			
14,550.00	11,931.00	13,768.82	11,291.00	46.35	44.28	-0.01	-2,864.88	-2.53	640.00	573.52	66.48	9.626			
14,600.00	11,931.00	13,818.82	11,291.00	46.54	44.48	-0.01	-2,914.88	-2.44	640.00	573.02	66.98	9.554			
14,650.00	11,931.00	13,868.82	11,291.00	46.73	44.68	-0.01	-2,964.88	-2.35	640.00	572.51	67.49	9.482			
14,700.00	11,931.00	13,918.82	11,291.00	46.92	44.89	-0.01	-3,014.88	-2.26	640.00	572.00	68.01	9.411			
14,750.00	11,931.00	13,968.82	11,291.00	47.11	45.09	-0.01	-3,064.88	-2.17	640.00	571.48	68.53	9.340			
14,800.00	11,931.00	14,018.82	11,291.00	47.31	45.30	-0.01	-3,114.88	-2.08	640.00	570.95	69.05	9.269			
14,850.00	11,931.00	14,068.82	11,291.00	47.51	45.51	-0.01	-3,164.88	-2.00	640.00	570.42	69.58	9.199			
14,900.00	11,931.00	14,118.82	11,291.00	47.71	45.72	-0.01	-3,214.88	-1.91	640.00	569.89	70.11	9.129			
14,950.00	11,931.00	14,168.82	11,291.00	47.91	45.94	-0.01	-3,264.88	-1.82	640.00	569.35	70.65	9.059			
15,000.00	11,931.00	14,218.82	11,291.00	48.11	46.16	-0.01	-3,314.88	-1.73	640.00	568.81	71.19	8.990			
15,050.00	11,931.00	14,268.82	11,291.00	48.32	46.38	-0.01	-3,364.88	-1.64	640.00	568.27	71.74	8.922			
15,100.00	11,931.00	14,318.82	11,291.00	48.53	46.60	-0.01	-3,414.88	-1.55	640.00	567.72	72.28	8.854			
15,150.00	11,931.00	14,368.82	11,291.00	48.74	46.82	-0.01	-3,464.88	-1.46	640.00	567.16	72.84	8.786			
15,200.00	11,931.00	14,418.82	11,291.00	48.95	47.05	-0.01	-3,514.88	-1.37	640.00	566.60	73.40	8.719			
15,250.00	11,931.00	14,468.82	11,291.00	49.17	47.28	-0.01	-3,564.88	-1.28	640.00	566.04	73.96	8.653			
15,300.00	11,931.00	14,518.82	11,291.00	49.39	47.50	-0.01	-3,614.88	-1.19	640.00	565.47	74.53	8.587			
15,350.00	11,931.00	14,568.82	11,291.00	49.61	47.74	-0.02	-3,664.88	-1.10	640.00	564.90	75.10	8.522			
15,400.00	11,931.00	14,618.82	11,291.00	49.83	47.97	-0.02	-3,714.88	-1.01	640.00	564.32	75.68	8.457			
15,450.00	11,931.00	14,668.82	11,291.00	50.05	48.21	-0.02	-3,764.88	-0.92	640.00	563.74	76.26	8.393			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County - NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD, 10724-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.00	11,931.00	14,718.82	11,291.00	50.28	48.44	-0.02	-3,814.88	-0.83	640.00	563.16	76.84	8.329	
15,550.00	11,931.00	14,768.82	11,291.00	50.50	48.68	-0.02	-3,864.88	-0.74	640.00	562.58	77.43	8.266	
15,600.00	11,931.00	14,818.82	11,291.00	50.73	48.92	-0.02	-3,914.88	-0.65	640.00	561.99	78.01	8.204	
15,650.00	11,931.00	14,868.82	11,291.00	50.96	49.17	-0.02	-3,964.88	-0.57	640.00	561.39	78.61	8.142	
15,700.00	11,931.00	14,918.82	11,291.00	51.20	49.41	-0.02	-4,014.88	-0.48	640.00	560.80	79.20	8.080	
15,750.00	11,931.00	14,968.82	11,291.00	51.43	49.66	-0.02	-4,064.88	-0.39	640.00	560.20	79.80	8.020	
15,800.00	11,931.00	15,018.82	11,291.00	51.67	49.90	-0.02	-4,114.88	-0.30	640.00	559.59	80.41	7.960	
15,850.00	11,931.00	15,068.82	11,291.00	51.91	50.15	-0.02	-4,164.88	-0.21	640.00	558.99	81.01	7.900	
15,900.00	11,931.00	15,118.82	11,291.00	52.14	50.41	-0.02	-4,214.88	-0.12	640.00	558.38	81.62	7.841	
15,950.00	11,931.00	15,168.82	11,291.00	52.39	50.66	-0.02	-4,264.88	-0.03	640.00	557.77	82.23	7.783	
16,000.00	11,931.00	15,218.82	11,291.00	52.63	50.91	-0.02	-4,314.88	0.06	640.00	557.15	82.85	7.725	
16,050.00	11,931.00	15,268.82	11,291.00	52.87	51.17	-0.02	-4,364.88	0.15	640.00	556.53	83.47	7.668	
16,100.00	11,931.00	15,318.82	11,291.00	53.12	51.43	-0.02	-4,414.88	0.24	640.00	555.91	84.09	7.611	
16,150.00	11,931.00	15,368.82	11,291.00	53.37	51.69	-0.02	-4,464.88	0.33	640.00	555.29	84.71	7.555	
16,200.00	11,931.00	15,418.82	11,291.00	53.62	51.95	-0.02	-4,514.88	0.42	640.00	554.67	85.34	7.500	
16,250.00	11,931.00	15,468.82	11,291.00	53.87	52.21	-0.02	-4,564.88	0.51	640.00	554.04	85.97	7.445	
16,300.00	11,931.00	15,518.82	11,291.00	54.12	52.47	-0.02	-4,614.88	0.60	640.00	553.41	86.60	7.391	
16,350.00	11,931.00	15,568.82	11,291.00	54.38	52.74	-0.02	-4,664.88	0.69	640.00	552.77	87.23	7.337	
16,400.00	11,931.00	15,618.82	11,291.00	54.63	53.01	-0.02	-4,714.88	0.78	640.00	552.14	87.87	7.284	
16,450.00	11,931.00	15,668.82	11,291.00	54.89	53.28	-0.02	-4,764.88	0.86	640.00	551.50	88.50	7.231	
16,500.00	11,931.00	15,718.82	11,291.00	55.15	53.54	-0.02	-4,814.88	0.95	640.00	550.86	89.14	7.179	
16,550.00	11,931.00	15,768.82	11,291.00	55.41	53.82	-0.02	-4,864.88	1.04	640.00	550.21	89.79	7.128	
16,600.00	11,931.00	15,818.82	11,291.00	55.67	54.09	-0.02	-4,914.88	1.13	640.00	549.57	90.43	7.077	
16,650.00	11,931.00	15,868.82	11,291.00	55.93	54.36	-0.02	-4,964.88	1.22	640.00	548.92	91.08	7.027	
16,700.00	11,931.00	15,918.82	11,291.00	56.20	54.64	-0.02	-5,014.88	1.31	640.00	548.27	91.73	6.977	
16,750.00	11,931.00	15,968.82	11,291.00	56.46	54.91	-0.02	-5,064.88	1.40	640.00	547.62	92.38	6.928	
16,800.00	11,931.00	16,018.82	11,291.00	56.73	55.19	-0.03	-5,114.88	1.49	640.00	546.97	93.03	6.879	
16,850.00	11,931.00	16,068.82	11,291.00	57.00	55.47	-0.03	-5,164.88	1.58	640.00	546.31	93.69	6.831	
16,900.00	11,931.00	16,118.82	11,291.00	57.27	55.75	-0.03	-5,214.88	1.67	640.00	545.65	94.35	6.783	
16,950.00	11,931.00	16,168.82	11,291.00	57.54	56.03	-0.03	-5,264.88	1.76	640.00	544.99	95.01	6.736	
17,000.00	11,931.00	16,218.82	11,291.00	57.81	56.31	-0.03	-5,314.87	1.85	640.00	544.33	95.67	6.690	
17,050.00	11,931.00	16,268.82	11,291.00	58.08	56.60	-0.03	-5,364.87	1.94	640.00	543.67	96.33	6.644	
17,100.00	11,931.00	16,318.82	11,291.00	58.36	56.88	-0.03	-5,414.87	2.03	640.00	543.00	97.00	6.598	
17,150.00	11,931.00	16,368.82	11,291.00	58.63	57.17	-0.03	-5,464.87	2.12	640.00	542.34	97.67	6.553	
17,200.00	11,931.00	16,418.82	11,291.00	58.91	57.45	-0.03	-5,514.87	2.20	640.00	541.67	98.33	6.509	
17,250.00	11,931.00	16,468.82	11,291.00	59.19	57.74	-0.03	-5,564.87	2.29	640.00	541.00	99.00	6.464	
17,300.00	11,931.00	16,518.82	11,291.00	59.47	58.03	-0.03	-5,614.87	2.38	640.00	540.33	99.68	6.421	
17,350.00	11,931.00	16,568.82	11,291.00	59.75	58.32	-0.03	-5,664.87	2.47	640.00	539.65	100.35	6.378	
17,400.00	11,931.00	16,618.82	11,291.00	60.03	58.61	-0.03	-5,714.87	2.56	640.00	538.98	101.02	6.335	
17,450.00	11,931.00	16,668.82	11,291.00	60.31	58.91	-0.03	-5,764.87	2.65	640.00	538.30	101.70	6.293	
17,500.00	11,931.00	16,718.82	11,291.00	60.60	59.20	-0.03	-5,814.87	2.74	640.00	537.62	102.38	6.251	
17,550.00	11,931.00	16,768.82	11,291.00	60.88	59.49	-0.03	-5,864.87	2.83	640.00	536.94	103.06	6.210	
17,600.00	11,931.00	16,818.82	11,291.00	61.17	59.79	-0.03	-5,914.87	2.92	640.00	536.26	103.74	6.169	
17,650.00	11,931.00	16,868.82	11,291.00	61.45	60.09	-0.03	-5,964.87	3.01	640.00	535.58	104.42	6.129	
17,700.00	11,931.00	16,918.82	11,291.00	61.74	60.38	-0.03	-6,014.87	3.10	640.00	534.89	105.11	6.089	
17,750.00	11,931.00	16,968.82	11,291.00	62.03	60.68	-0.03	-6,064.87	3.19	640.00	534.21	105.79	6.050	
17,800.00	11,931.00	17,018.82	11,291.00	62.32	60.98	-0.03	-6,114.87	3.28	640.00	533.52	106.48	6.011	
17,850.00	11,931.00	17,068.82	11,291.00	62.61	61.28	-0.03	-6,164.87	3.37	640.00	532.83	107.17	5.972	
17,900.00	11,931.00	17,118.82	11,291.00	62.90	61.58	-0.03	-6,214.87	3.46	640.00	532.14	107.86	5.934	
17,950.00	11,931.00	17,168.82	11,291.00	63.20	61.88	-0.03	-6,264.87	3.55	640.00	531.45	108.55	5.896	
18,000.00	11,931.00	17,218.82	11,291.00	63.49	62.19	-0.03	-6,314.87	3.63	640.00	530.76	109.24	5.859	
18,050.00	11,931.00	17,268.82	11,291.00	63.79	62.49	-0.03	-6,364.87	3.72	640.00	530.07	109.93	5.822	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error
Survey Program: 0-MWD, 10724-MWD+IFR1+MS														0.00 usft
Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1														Offset Well Error
														0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	11,931.00	17,318.82	11,291.00	64.08	62.80	-0.03	-0.03	-6,414.87	3.81	640.00	529.37	110.63	5.785	
18,150.00	11,931.00	17,368.82	11,291.00	64.38	63.10	-0.03	-0.03	-6,464.87	3.90	640.00	528.68	111.33	5.749	
18,200.00	11,931.00	17,418.82	11,291.00	64.68	63.41	-0.03	-0.03	-6,514.87	3.99	640.00	527.98	112.02	5.713	
18,250.00	11,931.00	17,468.82	11,291.00	64.97	63.72	-0.04	-0.04	-6,564.87	4.08	640.00	527.28	112.72	5.678	
18,300.00	11,931.00	17,518.82	11,291.00	65.27	64.02	-0.04	-0.04	-6,614.87	4.17	640.00	526.58	113.42	5.643	
18,350.00	11,931.00	17,568.82	11,291.00	65.57	64.33	-0.04	-0.04	-6,664.87	4.26	640.00	525.88	114.12	5.608	
18,400.00	11,931.00	17,618.82	11,291.00	65.87	64.64	-0.04	-0.04	-6,714.87	4.35	640.00	525.18	114.82	5.574	
18,450.00	11,931.00	17,668.82	11,291.00	66.18	64.95	-0.04	-0.04	-6,764.87	4.44	640.00	524.48	115.52	5.540	
18,500.00	11,931.00	17,718.82	11,291.00	66.48	65.26	-0.04	-0.04	-6,814.87	4.53	640.00	523.78	116.23	5.506	
18,550.00	11,931.00	17,768.82	11,291.00	66.78	65.58	-0.04	-0.04	-6,864.87	4.62	640.00	523.07	116.93	5.473	
18,600.00	11,931.00	17,818.82	11,291.00	67.09	65.89	-0.04	-0.04	-6,914.87	4.71	640.00	522.36	117.64	5.440	
18,650.00	11,931.00	17,868.82	11,291.00	67.39	66.20	-0.04	-0.04	-6,964.87	4.80	640.00	521.66	118.34	5.408	
18,700.00	11,931.00	17,918.82	11,291.00	67.70	66.52	-0.04	-0.04	-7,014.87	4.89	640.00	520.95	119.05	5.376	
18,750.00	11,931.00	17,968.82	11,291.00	68.01	66.83	-0.04	-0.04	-7,064.87	4.98	640.00	520.24	119.76	5.344	
18,800.00	11,931.00	18,018.82	11,291.00	68.31	67.15	-0.04	-0.04	-7,114.87	5.06	640.00	519.53	120.47	5.313	
18,850.00	11,931.00	18,068.82	11,291.00	68.62	67.46	-0.04	-0.04	-7,164.87	5.15	640.00	518.82	121.18	5.281	
18,900.00	11,931.00	18,118.82	11,291.00	68.93	67.78	-0.04	-0.04	-7,214.87	5.24	640.00	518.11	121.89	5.251	
18,950.00	11,931.00	18,168.82	11,291.00	69.24	68.10	-0.04	-0.04	-7,264.87	5.33	640.00	517.40	122.60	5.220	
19,000.00	11,931.00	18,218.82	11,291.00	69.55	68.41	-0.04	-0.04	-7,314.87	5.42	640.00	516.69	123.32	5.190	
19,050.00	11,931.00	18,268.82	11,291.00	69.86	68.73	-0.04	-0.04	-7,364.87	5.51	640.00	515.97	124.03	5.160	
19,100.00	11,931.00	18,318.82	11,291.00	70.17	69.05	-0.04	-0.04	-7,414.87	5.60	640.00	515.26	124.75	5.130	
19,150.00	11,931.00	18,368.82	11,291.00	70.49	69.37	-0.04	-0.04	-7,464.87	5.69	640.00	514.54	125.46	5.101	
19,200.00	11,931.00	18,418.82	11,291.00	70.80	69.69	-0.04	-0.04	-7,514.87	5.78	640.00	513.82	126.18	5.072	
19,250.00	11,931.00	18,468.82	11,291.00	71.12	70.02	-0.04	-0.04	-7,564.87	5.87	640.00	513.11	126.90	5.044	
19,300.00	11,931.00	18,518.82	11,291.00	71.43	70.34	-0.04	-0.04	-7,614.87	5.96	640.00	512.39	127.61	5.015	
19,350.00	11,931.00	18,568.82	11,291.00	71.75	70.66	-0.04	-0.04	-7,664.87	6.05	640.00	511.67	128.33	4.987	
19,400.00	11,931.00	18,618.82	11,291.00	72.06	70.98	-0.04	-0.04	-7,714.87	6.14	640.00	510.95	129.05	4.959	
19,450.00	11,931.00	18,668.82	11,291.00	72.38	71.31	-0.04	-0.04	-7,764.87	6.23	640.00	510.23	129.77	4.932	
19,500.00	11,931.00	18,718.82	11,291.00	72.69	71.63	-0.04	-0.04	-7,814.87	6.32	640.00	509.51	130.49	4.904	
19,550.00	11,931.00	18,768.82	11,291.00	73.01	71.96	-0.04	-0.04	-7,864.87	6.40	640.00	508.79	131.22	4.877	
19,600.00	11,931.00	18,818.82	11,291.00	73.33	72.28	-0.04	-0.04	-7,914.87	6.49	640.00	508.06	131.94	4.851	
19,650.00	11,931.00	18,868.82	11,291.00	73.65	72.61	-0.05	-0.05	-7,964.87	6.58	640.00	507.34	132.66	4.824	
19,700.00	11,931.00	18,918.82	11,291.00	73.97	72.94	-0.05	-0.05	-8,014.87	6.67	640.00	506.62	133.39	4.798	
19,750.00	11,931.00	18,968.82	11,291.00	74.29	73.26	-0.05	-0.05	-8,064.87	6.76	640.00	505.89	134.11	4.772	
19,800.00	11,931.00	19,018.82	11,291.00	74.61	73.59	-0.05	-0.05	-8,114.87	6.85	640.00	505.17	134.84	4.747	
19,850.00	11,931.00	19,068.82	11,291.00	74.93	73.92	-0.05	-0.05	-8,164.87	6.94	640.00	504.44	135.56	4.721	
19,900.00	11,931.00	19,118.82	11,291.00	75.26	74.25	-0.05	-0.05	-8,214.87	7.03	640.00	503.71	136.29	4.696	
19,950.00	11,931.00	19,168.82	11,291.00	75.58	74.58	-0.05	-0.05	-8,264.87	7.12	640.00	502.99	137.02	4.671	
20,000.00	11,931.00	19,218.82	11,291.00	75.90	74.91	-0.05	-0.05	-8,314.87	7.21	640.00	502.26	137.74	4.646	
20,050.00	11,931.00	19,268.82	11,291.00	76.23	75.24	-0.05	-0.05	-8,364.87	7.30	640.00	501.53	138.47	4.622	
20,100.00	11,931.00	19,318.82	11,291.00	76.55	75.57	-0.05	-0.05	-8,414.87	7.39	640.00	500.80	139.20	4.598	
20,150.00	11,931.00	19,368.82	11,291.00	76.87	75.90	-0.05	-0.05	-8,464.87	7.48	640.00	500.07	139.93	4.574	
20,200.00	11,931.00	19,418.82	11,291.00	77.20	76.23	-0.05	-0.05	-8,514.87	7.57	640.00	499.34	140.66	4.550	
20,250.00	11,931.00	19,468.82	11,291.00	77.53	76.56	-0.05	-0.05	-8,564.87	7.66	640.00	498.61	141.39	4.526	
20,300.00	11,931.00	19,518.82	11,291.00	77.85	76.90	-0.05	-0.05	-8,614.87	7.75	640.00	497.88	142.12	4.503	
20,350.00	11,931.00	19,568.82	11,291.00	78.18	77.23	-0.05	-0.05	-8,664.87	7.83	640.00	497.15	142.86	4.480	
20,400.00	11,931.00	19,618.82	11,291.00	78.51	77.56	-0.05	-0.05	-8,714.87	7.92	640.00	496.41	143.59	4.457	
20,450.00	11,931.00	19,668.82	11,291.00	78.83	77.90	-0.05	-0.05	-8,764.87	8.01	640.00	495.68	144.32	4.435	
20,500.00	11,931.00	19,718.82	11,291.00	79.16	78.23	-0.05	-0.05	-8,814.87	8.10	640.00	494.95	145.06	4.412	
20,550.00	11,931.00	19,768.82	11,291.00	79.49	78.57	-0.05	-0.05	-8,864.87	8.19	640.00	494.21	145.79	4.390	
20,600.00	11,931.00	19,818.82	11,291.00	79.82	78.90	-0.05	-0.05	-8,914.87	8.28	640.00	493.48	146.52	4.368	
20,650.00	11,931.00	19,868.82	11,291.00	80.15	79.24	-0.05	-0.05	-8,964.87	8.37	640.00	492.74	147.26	4.346	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 21 BD 703H - Slot PLU 21 BD 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3228+33 @ 3261.00usft (X34)
Reference Site:	Poker Lake Unit 21 BD	MD Reference:	3228+33 @ 3261.00usft (X34)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	21 BD 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	703H Lateral	Database:	PREDATOR EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Poker Lake Unit 21 BD - 21 BD 903H - 903H Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD, 10724-MWD+IFR1+MS														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
20,700.00	11,931.00	19,918.82	11,291.00	80.48	79.57	-0.05	-9,014.87	8.46	640.00	492.01	148.00	4.324			
20,750.00	11,931.00	19,968.82	11,291.00	80.81	79.91	-0.05	-9,064.87	8.55	640.00	491.27	148.73	4.303			
20,800.00	11,931.00	20,018.82	11,291.00	81.14	80.25	-0.05	-9,114.87	8.64	640.00	490.53	149.47	4.282			
20,850.00	11,931.00	20,068.82	11,291.00	81.48	80.59	-0.05	-9,164.87	8.73	640.00	489.80	150.21	4.261			
20,900.00	11,931.00	20,118.82	11,291.00	81.81	80.92	-0.05	-9,214.87	8.82	640.00	489.06	150.94	4.240			
20,950.00	11,931.00	20,168.82	11,291.00	82.14	81.26	-0.05	-9,264.87	8.91	640.00	488.32	151.68	4.219			
21,000.00	11,931.00	20,218.82	11,291.00	82.47	81.60	-0.05	-9,314.87	9.00	640.00	487.58	152.42	4.199			
21,050.00	11,931.00	20,268.82	11,291.00	82.81	81.94	-0.05	-9,364.87	9.09	640.00	486.84	153.16	4.179			
21,100.00	11,931.00	20,318.82	11,291.00	83.14	82.28	-0.06	-9,414.87	9.18	640.00	486.10	153.90	4.159			
21,150.00	11,931.00	20,368.82	11,291.00	83.47	82.62	-0.06	-9,464.87	9.26	640.00	485.36	154.64	4.139			
21,200.00	11,931.00	20,418.82	11,291.00	83.81	82.96	-0.06	-9,514.87	9.35	640.00	484.62	155.38	4.119			
21,250.00	11,931.00	20,468.82	11,291.00	84.14	83.30	-0.06	-9,564.87	9.44	640.00	483.88	156.12	4.099			
21,300.00	11,931.00	20,518.82	11,291.00	84.48	83.64	-0.06	-9,614.87	9.53	640.00	483.14	156.86	4.080			
21,350.00	11,931.00	20,568.82	11,291.00	84.82	83.98	-0.06	-9,664.87	9.62	640.00	482.40	157.60	4.061			
21,400.00	11,931.00	20,618.82	11,291.00	85.15	84.32	-0.06	-9,714.87	9.71	640.00	481.66	158.35	4.042			
21,450.00	11,931.00	20,668.82	11,291.00	85.49	84.67	-0.06	-9,764.87	9.80	640.00	480.92	159.09	4.023			
21,500.00	11,931.00	20,718.82	11,291.00	85.83	85.01	-0.06	-9,814.87	9.89	640.00	480.17	159.83	4.004			
21,550.00	11,931.00	20,768.82	11,291.00	86.16	85.35	-0.06	-9,864.87	9.98	640.00	479.43	160.57	3.986			
21,600.00	11,931.00	20,818.82	11,291.00	86.50	85.70	-0.06	-9,914.87	10.07	640.00	478.69	161.32	3.967			
21,650.00	11,931.00	20,868.82	11,291.00	86.84	86.04	-0.06	-9,964.87	10.16	640.00	477.94	162.06	3.949			
21,700.00	11,931.00	20,918.82	11,291.00	87.18	86.38	-0.06	-10,014.87	10.25	640.00	477.20	162.81	3.931			
21,750.00	11,931.00	20,968.82	11,291.00	87.52	86.73	-0.06	-10,064.87	10.34	640.00	476.45	163.55	3.913			
21,800.00	11,931.00	21,018.82	11,291.00	87.86	87.07	-0.06	-10,114.87	10.43	640.00	475.71	164.30	3.895			
21,850.00	11,931.00	21,068.82	11,291.00	88.20	87.42	-0.06	-10,164.87	10.52	640.00	474.96	165.04	3.878			
21,900.00	11,931.00	21,118.82	11,291.00	88.54	87.76	-0.06	-10,214.87	10.60	640.00	474.22	165.79	3.860			
21,950.00	11,931.00	21,168.82	11,291.00	88.88	88.11	-0.06	-10,264.87	10.69	640.00	473.47	166.53	3.843			
22,000.00	11,931.00	21,218.82	11,291.00	89.22	88.45	-0.06	-10,314.87	10.78	640.00	472.72	167.28	3.826			
22,050.00	11,931.00	21,268.82	11,291.00	89.56	88.80	-0.06	-10,364.87	10.87	640.00	471.98	168.03	3.809			
22,100.00	11,931.00	21,318.82	11,291.00	89.90	89.14	-0.06	-10,414.87	10.96	640.00	471.23	168.78	3.792			
22,150.00	11,931.00	21,368.82	11,291.00	90.24	89.49	-0.06	-10,464.87	11.05	640.00	470.48	169.52	3.775			
22,200.00	11,931.00	21,418.82	11,291.00	90.58	89.84	-0.06	-10,514.87	11.14	640.00	469.73	170.27	3.759			
22,250.00	11,931.00	21,468.82	11,291.00	90.93	90.18	-0.06	-10,564.87	11.23	640.00	468.98	171.02	3.742			
22,300.00	11,931.00	21,518.82	11,291.00	91.27	90.53	-0.06	-10,614.87	11.32	640.00	468.24	171.77	3.726			
22,350.00	11,931.00	21,568.82	11,291.00	91.61	90.88	-0.06	-10,664.87	11.41	640.00	467.49	172.52	3.710			
22,400.00	11,931.00	21,618.82	11,291.00	91.95	91.23	-0.06	-10,714.87	11.50	640.00	466.74	173.27	3.694			
22,450.00	11,931.00	21,668.82	11,291.00	92.30	91.57	-0.06	-10,764.87	11.59	640.00	465.99	174.01	3.678			
22,500.00	11,931.00	21,718.82	11,291.00	92.64	91.92	-0.06	-10,814.87	11.68	640.00	465.24	174.76	3.662			
22,527.33	11,931.00	21,746.15	11,291.00	92.83	92.11	-0.06	-10,842.20	11.73	640.00	464.83	175.17	3.654			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC.
LEASE NO.:	NMNM-05039A
WELL NAME & NO.:	Poker Lake Unit 21 BD 703H
SURFACE HOLE FOOTAGE:	0395' FSL & 1659 FWL
BOTTOM HOLE FOOTAGE:	0200' FSL & 1650' FWL Sec. 33, T.25 S., R.30 E.
LOCATION:	Section 21, T.25 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit

Possibility of water flows in the Castile and Salado.

Possibility of lost circulation in the Red Beds and Delaware.

Abnormal pressures may be encountered when penetrating the 3rd Bone Spring and all subsequent formations.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 1050 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool:
 - Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 22% - Additional cement may be required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 121719



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292



Notice of Change to Procedure – Please Read

To All Operators,

This is to notify you that the Bureau of Land Management (BLM) Carlsbad Field Office will no longer be supplying copies of sundries (3160-5), applications for permit to drill (APDs), or completion reports (3160-4) to the New Mexico Oil Conservation Division (NMOCD).

Effective immediately, to be in compliance with C-104 requirements, the NMOCD is requiring operators to submit a copy of any sundries, APDs, or completion reports processed by the BLM to the appropriate NMOCD office. This change will affect all BLM sundries, APDs, and completion reports in Eddy and Lea counties.

If a copy of a previously processed sundry, APD, or completion report is needed for submission to NMOCD, the Carlsbad Field Office will send a copy to the operator.

If you have any questions, please contact Jonathon Shepard (BLM) 575-234-2237.

Thank you

Note: This notice is being included in multiple communications from the BLM Carlsbad Field Office and you may receive multiple copies.