

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTRECEIVED
OperatorFORM 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) for5. Lease Serial No.
NMLC061634B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000303X8. Well Name and No.
POKER LAKE UNIT 29 BS 901H9. API Well No.
30-015-45936-00-X110. Field and Pool or Exploratory Area
WILDCAT11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

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

Sec 29 T25S R31E SWNW 2310FNL 630FWL
32.102200 N Lat, 103.806854 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

- ☐
- Acidize
-
- ☐
- Alter Casing
-
- ☐
- Casing Repair
-
- ☐
- Change Plans
-
- ☐
- Convert to Injection

- ☐
- Deepen
-
- ☐
- Hydraulic Fracturing
-
- ☐
- New Construction
-
- ☐
- Plug and Abandon
-
- ☐
- Plug Back

TYPE OF ACTION

- ☐
- Production (Start/Resume)
-
- ☐
- Reclamation
-
- ☐
- Recomplete
-
- ☐
- Temporarily Abandon
-
- ☐
- Water Disposal

- ☐
- Water Shut-Off
-
- ☐
- Well Integrity
-
- ☒
- Other
-
- Change to Original A
-
- PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 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 Operation, LLC requests permission to make the following changes to the original APD:

Change the BHL from 200' FSL & 330' FWL in Sec. 5-T26S-R31E to 200' FSL & 330' FWL in Sec. 32-T25S-R31E.

Change target formation from Bone Spring (oil) to Purple Sage; Wolfcamp (Gas).

Change the casing/cement program per the attached procedure.

XTO requests to not utilize centralizers in the curve and lateral

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set

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

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

Electronic Submission #493139 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 11/20/2019 (20PP0475SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

APPROVED

Signature (Electronic Submission)

Date 11/20/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE DEC 05 2019

Approved By

Title

BUREAU OF LAND MANAGEMENT

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.

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 **

1/28/20 KS

Additional data for EC transaction #493139 that would not fit on the form

32. Additional remarks, continued

?? casing 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 both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

Poker Lake Unit 29 BS 701H ? 30-015-45918

Poker Lake Unit 29 BS 901H ? 30-015-45936

Poker Lake Unit 29 BS 121H ? 30-015-45935

Poker Lake Unit 29 BS 122H ? 30-015-45916

Poker Lake Unit 29 BS 102H ? 30-015-46175

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 30-015-45936	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 29 BS	⁶ Well Number 901H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,364'

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
E	29	25 S	31 E		2,310	NORTH	630	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
M	32	25 S	31 E		200	SOUTH	330	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	16 GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 401,315.2 X= 704,360.7 LAT.= 32.102201°N LONG.= 103.806850°W FIRST TAKE POINT NAD 83 NME Y= 400,621.4 X= 704,058.3 LAT.= 32.100298°N LONG.= 103.807838°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,966.5 N, X= 703,729.5 E B - Y= 400,975.3 N, X= 705,056.4 E C - Y= 398,308.0 N, X= 703,719.7 E D - Y= 398,321.1 N, X= 705,044.2 E E - Y= 395,652.0 N, X= 703,732.0 E F - Y= 395,661.7 N, X= 705,058.7 E G - Y= 392,996.2 N, X= 703,742.0 E H - Y= 393,006.1 N, X= 705,072.1 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 401,257.3 X= 663,175.2 LAT.= 32.102076°N LONG.= 103.806371°W FIRST TAKE POINT NAD 27 NME Y= 400,563.5 X= 662,872.8 LAT.= 32.100173°N LONG.= 103.807359°W	LAST TAKE POINT NAD 83 NME Y= 393,328.7 X= 704,070.7 LAT.= 32.080251°N LONG.= 103.807912°W BOTTOM HOLE LOCATION NAD 83 NME Y= 393,198.7 X= 704,071.2 LAT.= 32.079893°N LONG.= 103.807913°W LAST TAKE POINT NAD 27 NME Y= 393,271.0 X= 662,884.9 LAT.= 32.080126°N LONG.= 103.807435°W BOTTOM HOLE LOCATION NAD 27 NME Y= 393,141.0 X= 662,885.4 LAT.= 32.079769°N LONG.= 103.807435°W	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 11/20/19 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. 07-08-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number	MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR RR 2017071007	

Intent ☒ As Drilled ☐

API #
30-015-45936

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 29 BS	Well Number 901H
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Kick Off Point (KOP)

UL E	Section 29	Township 25S	Range 31E	Lot	Feet 2310	From N/S NORTH	Feet 630	From E/W WEST	County EDDY
Latitude 32.102201					Longitude -103.806850			NAD 83	

First Take Point (FTP)

UL L	Section 29	Township 25S	Range 31E	Lot	Feet 2310	From N/S SOUTH	Feet 330	From E/W WEST	County EDDY
Latitude 32.100298					Longitude -103.807838			NAD 83	

Last Take Point (LTP)

UL M	Section 32	Township 25S	Range 31E	Lot	Feet 330	From N/S SOUTH	Feet 330	From E/W WEST	County EDDY
Latitude 32.080251					Longitude -103.807912			NAD 83	

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

☒

Is this well an infill well?

☐

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

API #
30-015-45918

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 29 BS	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 29 Big Sinks 901H
Projected TD: 19512' MD / 11739' TVD
SHL: 2310' FNL & 630' FWL , Section 29, T25S, R31E
BHL: 200' FSL & 330' FWL , Section 32, T25S, R31E
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	811'	Water
Top of Salt	1174'	Water
Base of Salt	3910'	Water
Delaware	4124'	Water
Bone Spring	8066'	Water
1st Bone Spring Ss	9063'	Water/Oil/Gas
2nd Bone Spring Ss	9924'	Water/Oil/Gas
3rd Bone Spring Ss	11018'	Water/Oil/Gas
Wolfcamp Shale	11429'	Water/Oil/Gas
Wolfcamp X	11458'	Water/Oil/Gas
Wolfcamp Y	11553'	Water/Oil/Gas
Wolfcamp A	11587'	Water/Oil/Gas
Target/Land Curve	11739'	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' (124' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8" inch casing at 4050' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7-0" inch casing through the curve at 12900' and bringing TOC back 200' inside the previous shoe. A 6-0" inch curve and lateral hole will be drilled to MD/TD and a 4-1/2 inch liner will be set at TD and cemented.

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"	54.5	STC	J-55	New	2.17	2.38	8.98
12-1/4"	0' - 4050'	9-5/8"	40	STC	J-55	New	1.12	2.02	2.79
8-3/4"	0' - 12900'	7-0"	32	BTC	P-110	New	1.31	1.69	2.17
6-0"	10,750' - 19512'	4-1/2"	13.5	BTC	P-110	New	1.31	1.59	2.13

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 4-1/2" 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 7-0" 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", 54.5 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

1st Intermediate Casing: 9-5/8", 40 New J-55, STC casing to be set at +/- 4050'

Lead: 1080 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 370 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

2nd Intermediate Casing: 7-0", 32 New P-110, BTC casing to be set at +/- 12900'

Lead: 1310 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 220 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 @ 3800'

Production Liner: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 19512'

Tail: 600 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 5M 3-Ram BOP. MASP should not exceed 4132 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 50% of the working pressure. When nipping up on the 13 3/8", 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7-0", the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M 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 7" casing 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 both 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' - 4050'	12-1/4"	Brine	9.8-10.2	30-32	NC
4050' to 12900'	8-3/4"	FW / Cut Brine	8.7-10.0	32-36	NC
12900' to 19512'	6-0"	Cut Brine / Polymer / OBM	10.7 - 11	32-50	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times. Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8-10.2 ppg brine mud will be used while drilling through the salt formation. 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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program

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

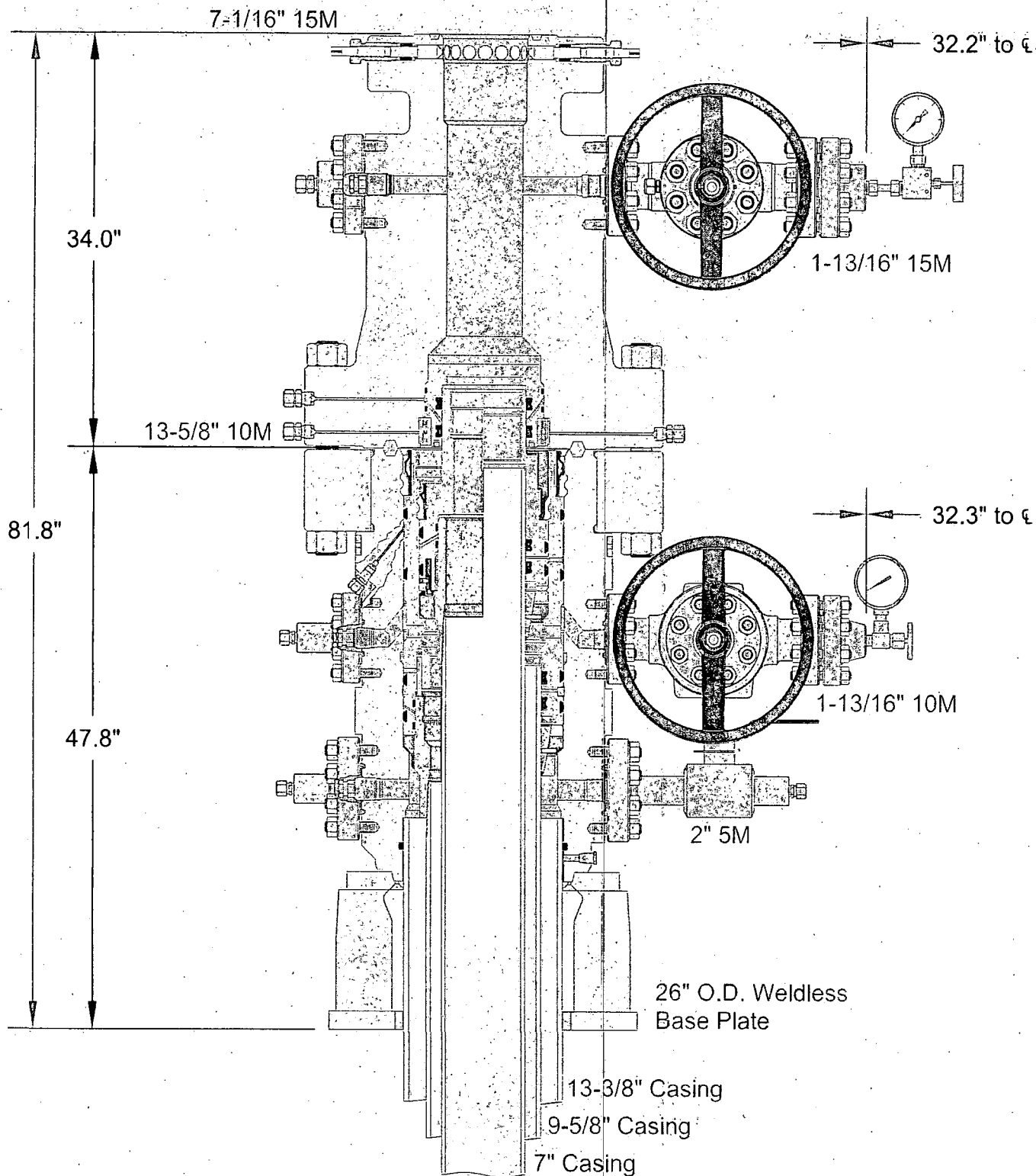
Open hole logging will not be done on this well.

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 6715 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.



**BAKER
HUGHES**
a GE company



Pressure Control

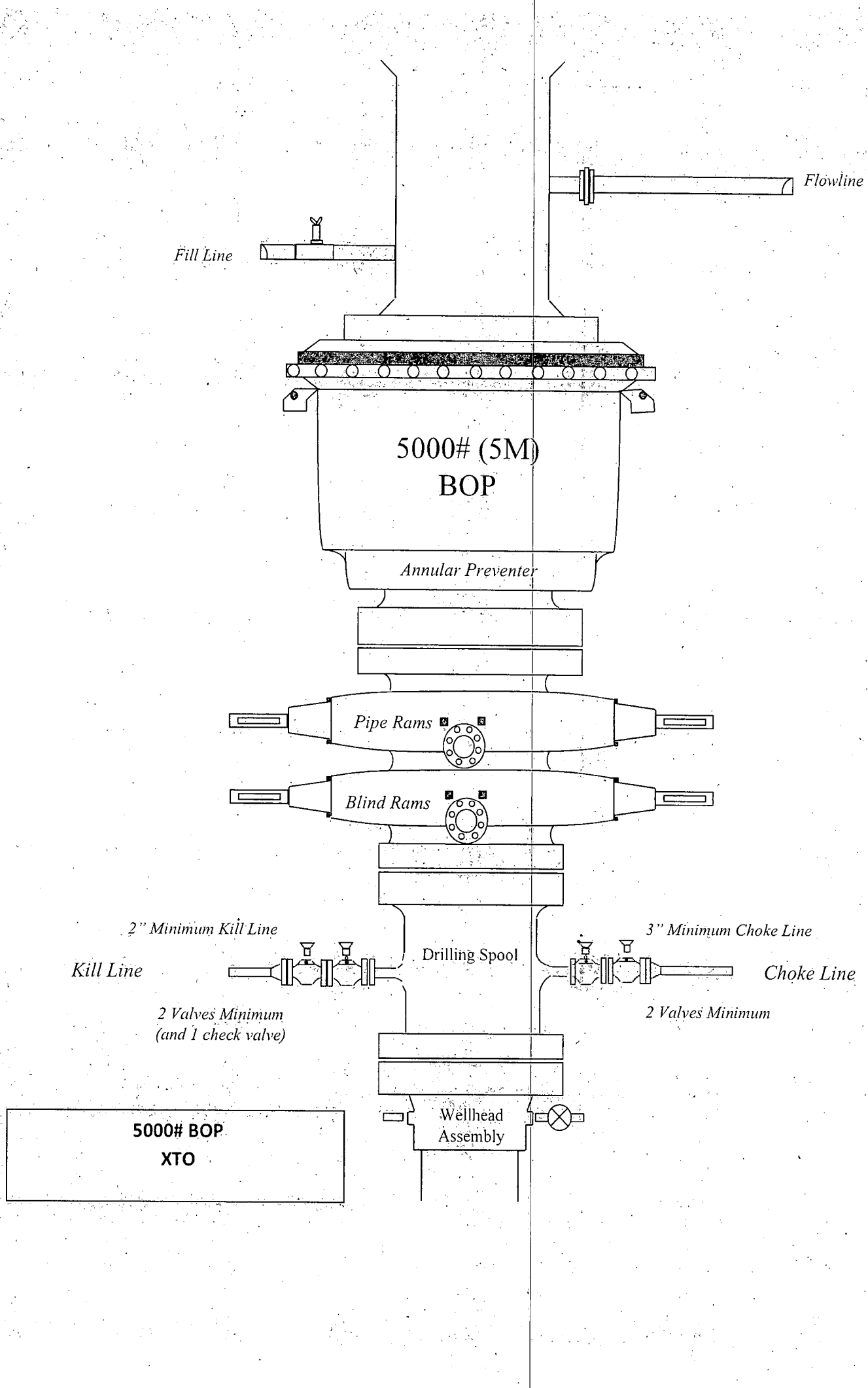
13-3/8" x 9-5/8" x 7" 15M RSH-2 Wellhead
Assembly, With T-EBS-F-HP Tubing Head

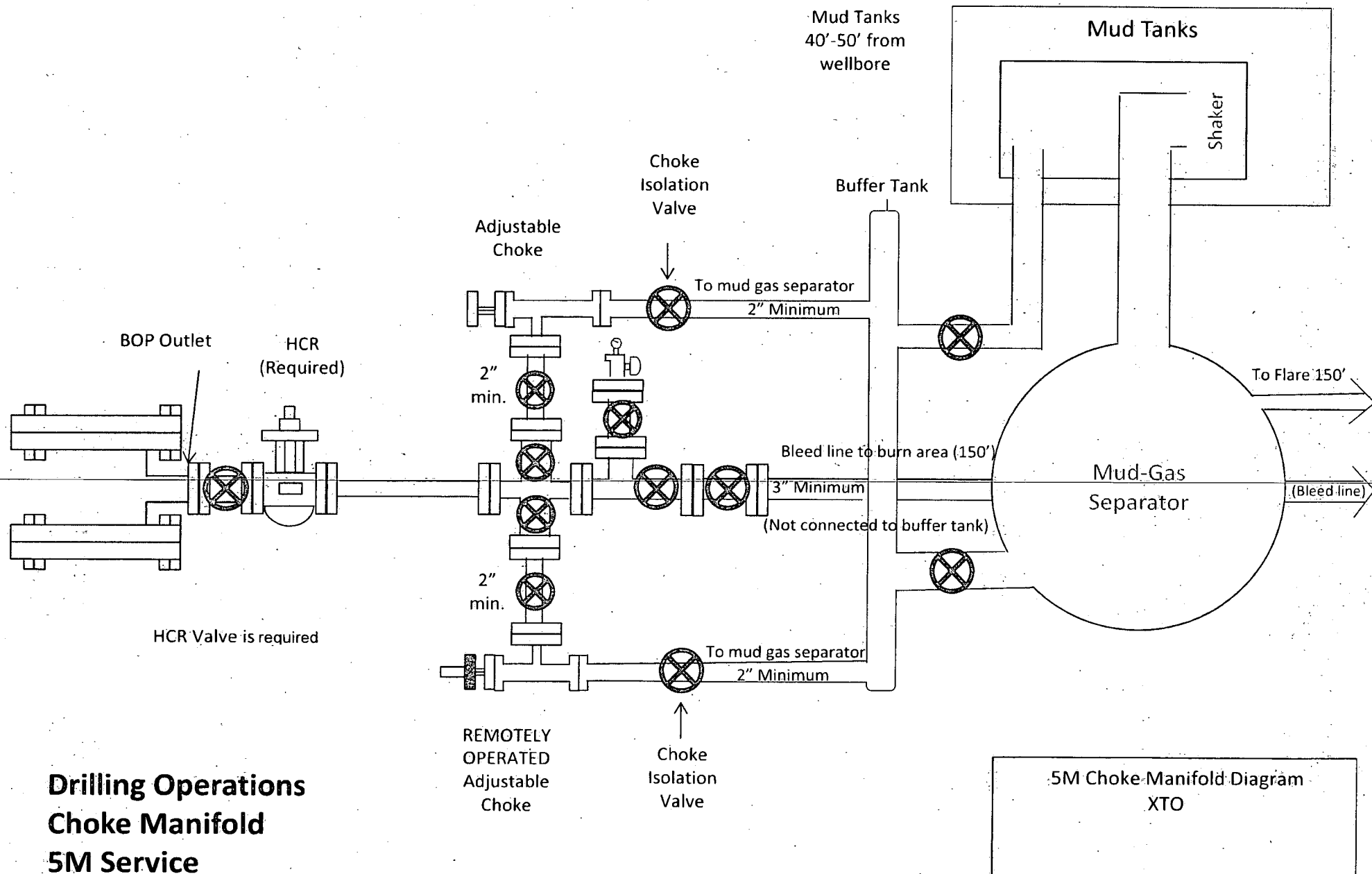
COPYRIGHT & PROPRIETARY NOTICE
Copyright 2017 Baker Hughes, a GE company, LLC (unpublished work). All rights reserved. The information contained in this document is company confidential and proprietary property of Baker Hughes and its affiliates. It is to be used only for the benefit of Baker Hughes and may not be distributed, transmitted, reproduced, altered or used for any purpose without the express written consent of Baker Hughes.

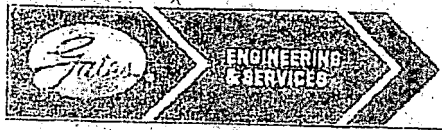
ALL DIMENSIONS ARE APPROXIMATE. NOT FOR MANUFACTURING USE.

DRAWN BY:	VJK	DRAWING NO.	HP180197
REVIEWED BY:		Rev.	NC
APPROVED BY:		Sht.	1 of 1
		DATE:	31OCT18

XTO ENERGY, INC.







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

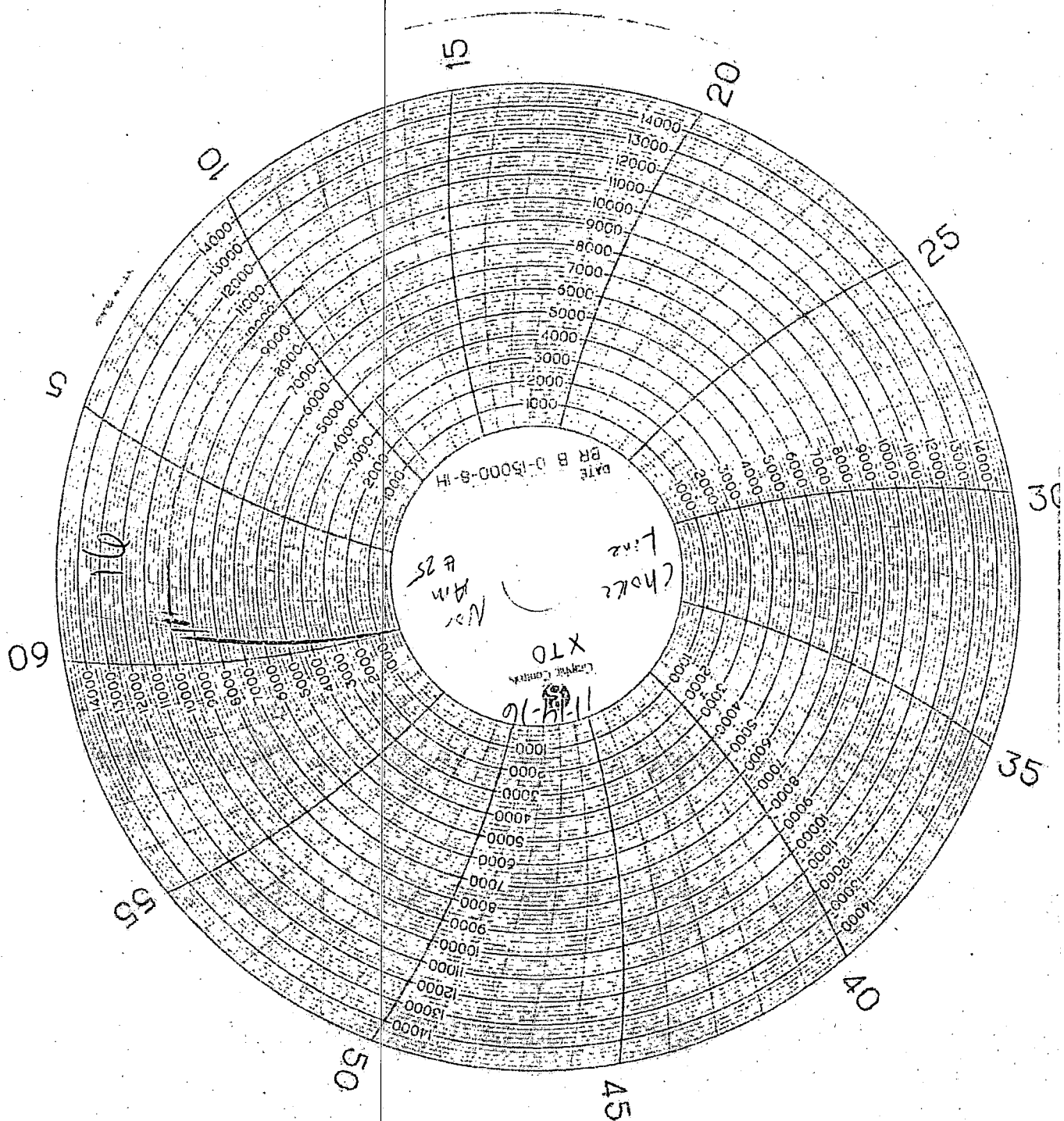
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

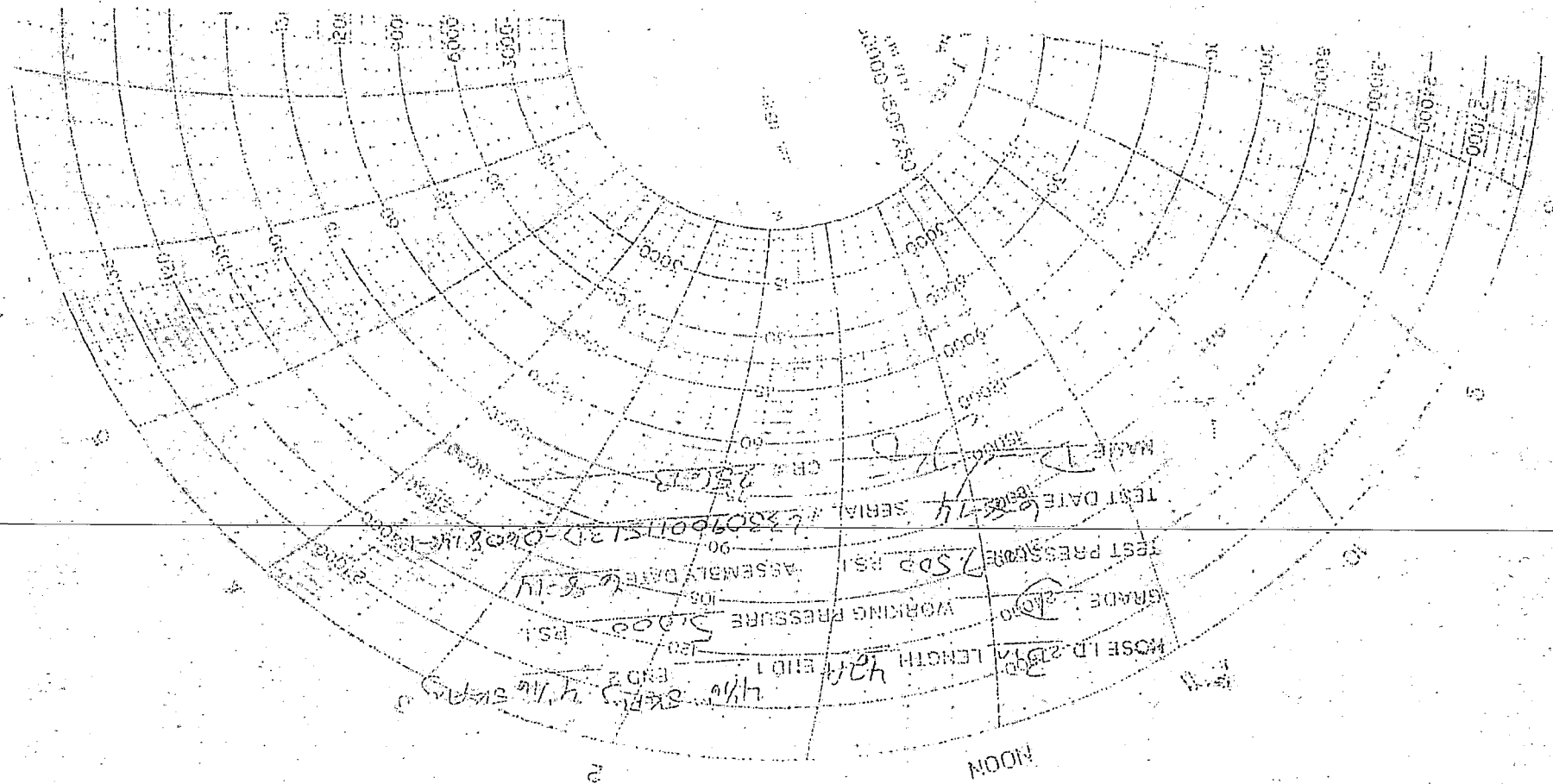
GRADE D PRESSURE TEST CERTIFICATE

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:	FD3.042.0R41/16 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 :	





MOON

TEST PRESSURE 7500 PSI

WORKING PRESSURE 5000 PSI

GRADE 1.000

HOSE I.D. 2 1/2" LENGTH 47' END 1

END 2

SUN

TEST DATE 6-8-14

SERIAL # 638096011317

CH # 25013

MADE IN CHINA

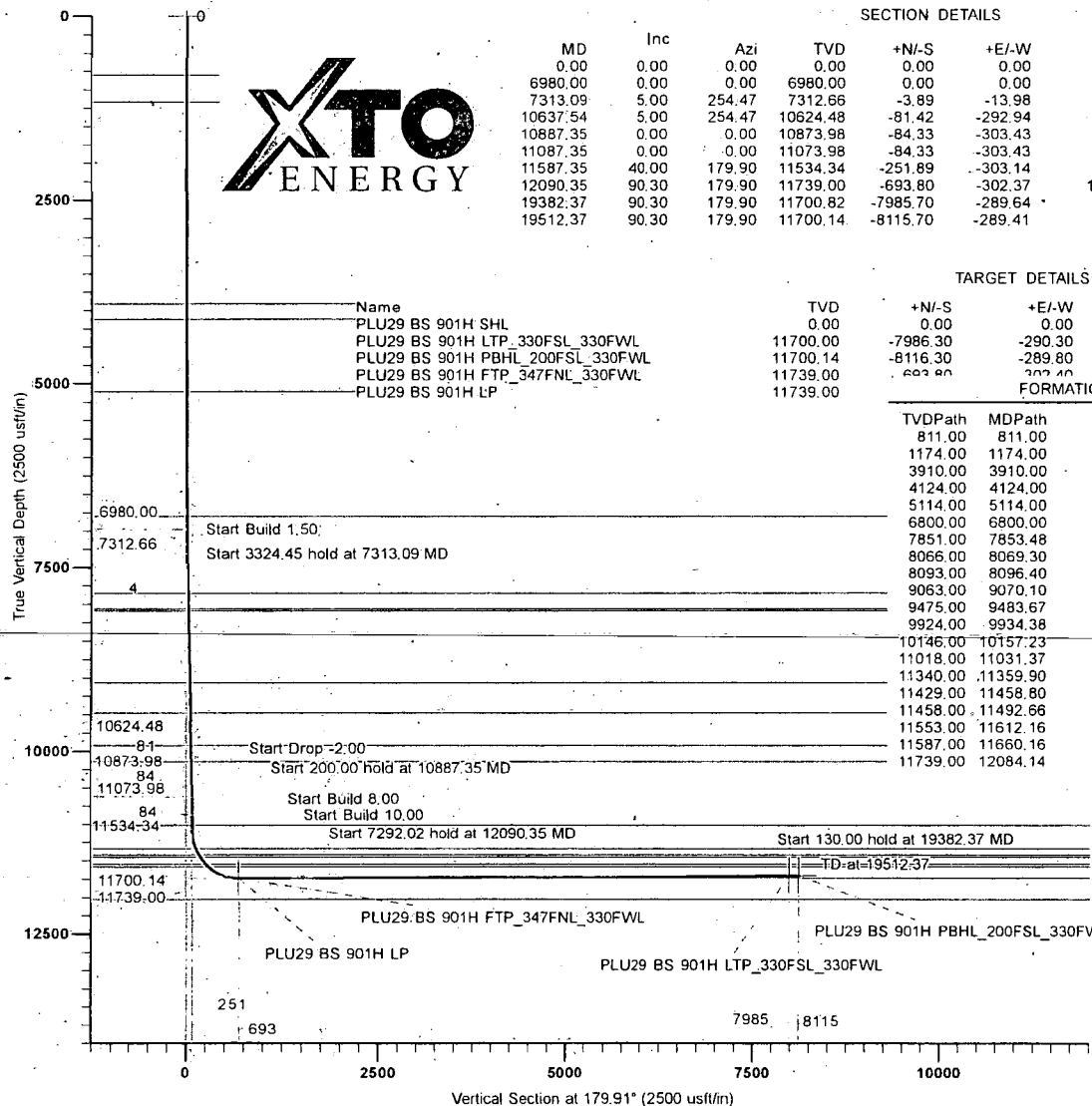
XTO Enerav

Project: Eddy County, NM (NAD27) NMEZ' Grid
Site: PLU 29 BS
Well: 901H
Wellbore: 901H Lateral
Design: Plan #1

3364+25 @ 3389.00usft (T E101)
NAD 1927 (NADCON CONUS)

To convert a Magnetic Direction to a True Direction, Add 6.79° East
To convert a Magnetic Direction to a Grid Direction, Add 6.51°
Magnetic North is 6.79° East of True North (Magnetic Declination)
Magnetic North is 6.51° East of Grid North (Magnetic Convergence)

West(-)/East(+) (1500 usft/in)
-4500 -3000 -1500 0



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
6980.00	0.00	0.00	6980.00	0.00	0.00	0.00	0.00	0.00
7313.09	5.00	254.47	7312.66	-3.89	-13.98	1.50	254.47	3.86
10637.54	5.00	254.47	10624.48	-81.42	-292.94	0.00	0.00	80.95
10887.35	0.00	0.00	10873.98	-84.33	-303.43	2.00	180.00	83.85
11087.35	0.00	0.00	11073.98	-84.33	-303.43	0.00	0.00	83.85
11587.35	40.00	179.90	11534.34	-251.89	-303.14	8.00	179.90	251.41
12090.35	90.30	179.90	11739.00	-693.80	-302.37	10.00	0.00	693.32
19382.37	90.30	179.90	11700.82	-7985.70	-289.64	0.00	0.00	7985.24
19512.37	90.30	179.90	11700.14	-8115.70	-289.41	0.00	0.00	8115.24

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PLU29 BS 901H SHL	0.00	0.00	0.00	401257.30	663175.20	Point
PLU29 BS 901H LTP_330FSL_330FWL	11700.00	-7986.30	-290.30	393271.00	662884.90	Point
PLU29 BS 901H PBHL_200FSL_330FWL	11700.14	-8116.30	-289.80	393141.00	662885.40	Point
PLU29 BS 901H FTP_347FNL_330FWL	11739.00	-8115.70	-289.41	393141.00	662885.40	Point
PLU29 BS 901H LP	11739.00	-8115.70	-289.41	393141.00	662885.40	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
811.00	811.00	Rustler
1174.00	1174.00	Salado
3910.00	3910.00	Base of Salt
4124.00	4124.00	Delaware
5114.00	5114.00	Cherry Canyon
6800.00	6800.00	Brushy Canyon
7851.00	7853.48	Basal Brushy Canyon
8066.00	8069.30	Bone Spring
8093.00	8096.40	Bone Spring Lime
9063.00	9070.10	1st Bone Sand
9475.00	9483.67	2nd Bone Lime
9924.00	9934.38	2nd Bone Sand
10146.00	10157.23	3rd Bone Lime
11018.00	11031.37	3rd Bone Sand
11340.00	11359.90	Red Hills
11429.00	11458.80	Wolfcamp
11458.00	11492.66	Wolfcamp X
11553.00	11612.16	Wolfcamp Y
11587.00	11660.16	Wolfcamp A
11739.00	12084.14	LP



Azimuths to Grid North
True North: -0.28°
Magnetic North: 6.51°

Magnetic Field
Strength: 47596.1nT
Dip Angle: 59.88°
Date: 11/07/2019
Model: IGRF2015

Plan: Plan #1 (901H/901H Lateral)
Created By: Mekka Williams
eSovina Well Design
mekka@esominawell.com
14:36, November 07 2019

STRYKER DIRECTIONAL
6701 FM 307
Midland, Texas 79706 - 432-687-1121

STRYKER
DIRECTIONAL

Planning Report

Database:	STRYKER_EDM		Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL	
Company:	XTO Energy		TVD Reference:	3364+25 @ 3389.00usft (T E101)	
Project:	Eddy County, NM (NAD27) NMEZ Grid		MD Reference:	3364+25 @ 3389.00usft (T E101)	
Site:	PLU 29 BS		North Reference:	Grid	
Well:	901H		Survey Calculation Method:	Minimum Curvature	
Wellbore:	901H Lateral				
Design:	Plan #1				

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

Site	PLU 29 BS				
Site Position:	Northing:	401,257.20 usft	Latitude:	32° 6' 7.47468126 N	
From: Map	Easting:	663,145.30 usft	Longitude:	103° 48' 23.28438096 W	
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.28 °

Well	901H - Slot PLU29 BS 901H SHL					
Well Position	+N/-S	0.10 usft	Northing:	401,257.30 usft	Latitude:	32° 6' 7.47422473 N
	+E/-W	29.90 usft	Easting:	663,175.20 usft	Longitude:	103° 48' 22.93677261 W
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level:	3,364.00 usft	

Wellbore	901H Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/07/19	6.79	59.88	47,596.14696665

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.91	

Plan Survey Tool Program	Date	11/07/19			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,512.37 Plan #1.(901H Lateral)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-Sl		

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H Lateral		
Design:	Plan #1		

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	
6,980.00	0.00	0.00	6,980.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,313.09	5.00	254.47	7,312.66	-3.89	-13.98	1.50	1.50	0.00	254.47	
10,637.54	5.00	254.47	10,624.48	-81.42	-292.94	0.00	0.00	0.00	0.00	
10,887.35	0.00	0.00	10,873.98	-84.33	-303.43	2.00	-2.00	0.00	180.00	
11,087.35	0.00	0.00	11,073.98	-84.33	-303.43	0.00	0.00	0.00	0.00	
11,587.35	40.00	179.90	11,534.34	-251.89	-303.14	8.00	8.00	0.00	179.90	
12,090.35	90.30	179.90	11,739.00	-693.80	-302.37	10.00	10.00	0.00	0.00	
19,382.37	90.30	179.90	11,700.82	-7,985.70	-289.64	0.00	0.00	0.00	0.00	
19,512.37	90.30	179.90	11,700.14	-8,115.70	-289.41	0.00	0.00	0.00	0.00	

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H 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
811.00	0.00	0.00	811.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,174.00	0.00	0.00	1,174.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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
2,400.00	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
3,600.00	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
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,910.00	0.00	0.00	3,910.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
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
4,124.00	0.00	0.00	4,124.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
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

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Spot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H 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)	
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	
4,800.00	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	
5,114.00	0.00	0.00	5,114.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cherry Canyon										
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	
6,400.00	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	
Brushy Canyon										
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,980.00	0.00	0.00	6,980.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.30	254.47	7,000.00	-0.01	-0.05	0.01	1.50	1.50	0.00	
7,100.00	1.80	254.47	7,099.98	-0.50	-1.82	0.50	1.50	1.50	0.00	
7,200.00	3.30	254.47	7,199.88	-1.70	-6.10	1.69	1.50	1.50	0.00	
7,300.00	4.80	254.47	7,299.63	-3.59	-12.91	3.57	1.50	1.50	0.00	
7,313.09	5.00	254.47	7,312.66	-3.89	-13.98	3.86	1.50	1.50	0.00	
7,400.00	5.00	254.47	7,399.25	-5.91	-21.28	5.88	0.00	0.00	0.00	
7,500.00	5.00	254.47	7,498.87	-8.25	-29.67	8.20	0.00	0.00	0.00	
7,600.00	5.00	254.47	7,598.49	-10.58	-38.06	10.52	0.00	0.00	0.00	
7,700.00	5.00	254.47	7,698.11	-12.91	-46.45	12.84	0.00	0.00	0.00	
7,800.00	5.00	254.47	7,797.73	-15.24	-54.84	15.16	0.00	0.00	0.00	
7,853.48	5.00	254.47	7,851.00	-16.49	-59.33	16.40	0.00	0.00	0.00	
Basal Brushy Canyon										
7,900.00	5.00	254.47	7,897.35	-17.57	-63.23	17.47	0.00	0.00	0.00	
8,000.00	5.00	254.47	7,996.97	-19.91	-71.62	19.79	0.00	0.00	0.00	
8,069.30	5.00	254.47	8,066.00	-21.52	-77.44	21.40	0.00	0.00	0.00	
Bone Spring										
8,096.40	5.00	254.47	8,093.00	-22.15	-79.71	22.03	0.00	0.00	0.00	
Bone Spring Lime										
8,100.00	5.00	254.47	8,096.59	-22.24	-80.01	22.11	0.00	0.00	0.00	
8,200.00	5.00	254.47	8,196.21	-24.57	-88.41	24.43	0.00	0.00	0.00	
8,300.00	5.00	254.47	8,295.83	-26.90	-96.80	26.75	0.00	0.00	0.00	
8,400.00	5.00	254.47	8,395.45	-29.23	-105.19	29.07	0.00	0.00	0.00	
8,500.00	5.00	254.47	8,495.07	-31.57	-113.58	31.39	0.00	0.00	0.00	
8,600.00	5.00	254.47	8,594.69	-33.90	-121.97	33.71	0.00	0.00	0.00	
8,700.00	5.00	254.47	8,694.31	-36.23	-130.36	36.03	0.00	0.00	0.00	

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H 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)
8,800.00	5.00	254.47	8,793.93	-38.56	-138.75	38.34	0.00	0.00	0.00
8,900.00	5.00	254.47	8,893.55	-40.89	-147.14	40.66	0.00	0.00	0.00
9,000.00	5.00	254.47	8,993.17	-43.23	-155.53	42.98	0.00	0.00	0.00
9,070.10	5.00	254.47	9,063.00	-44.86	-161.42	44.61	0.00	0.00	0.00
1st Bone Sand									
9,100.00	5.00	254.47	9,092.79	-45.56	-163.93	45.30	0.00	0.00	0.00
9,200.00	5.00	254.47	9,192.41	-47.89	-172.32	47.62	0.00	0.00	0.00
9,300.00	5.00	254.47	9,292.03	-50.22	-180.71	49.94	0.00	0.00	0.00
9,400.00	5.00	254.47	9,391.65	-52.55	-189.10	52.26	0.00	0.00	0.00
9,483.67	5.00	254.47	9,475.00	-54.51	-196.12	54.20	0.00	0.00	0.00
2nd Bone Lime									
9,500.00	5.00	254.47	9,491.27	-54.89	-197.49	54.58	0.00	0.00	0.00
9,600.00	5.00	254.47	9,590.89	-57.22	-205.88	56.90	0.00	0.00	0.00
9,700.00	5.00	254.47	9,690.51	-59.55	-214.27	59.21	0.00	0.00	0.00
9,800.00	5.00	254.47	9,790.13	-61.88	-222.66	61.53	0.00	0.00	0.00
9,900.00	5.00	254.47	9,889.75	-64.22	-231.05	63.85	0.00	0.00	0.00
9,934.38	5.00	254.47	9,924.00	-65.02	-233.94	64.65	0.00	0.00	0.00
2nd Bone Sand									
10,000.00	5.00	254.47	9,989.37	-66.55	-239.45	66.17	0.00	0.00	0.00
10,100.00	5.00	254.47	10,088.99	-68.88	-247.84	68.49	0.00	0.00	0.00
10,157.23	5.00	254.47	10,146.00	-70.21	-252.64	69.82	0.00	0.00	0.00
3rd Bone Lime									
10,200.00	5.00	254.47	10,188.61	-71.21	-256.23	70.81	0.00	0.00	0.00
10,300.00	5.00	254.47	10,288.23	-73.54	-264.62	73.13	0.00	0.00	0.00
10,400.00	5.00	254.47	10,387.85	-75.88	-273.01	75.45	0.00	0.00	0.00
10,500.00	5.00	254.47	10,487.47	-78.21	-281.40	77.77	0.00	0.00	0.00
10,600.00	5.00	254.47	10,587.09	-80.54	-289.79	80.08	0.00	0.00	0.00
10,637.54	5.00	254.47	10,624.48	-81.42	-292.94	80.95	0.00	0.00	0.00
10,700.00	3.75	254.47	10,686.76	-82.69	-297.53	82.22	2.00	-2.00	0.00
10,800.00	1.75	254.47	10,786.64	-83.97	-302.15	83.50	2.00	-2.00	0.00
10,887.35	0.00	0.00	10,873.98	-84.33	-303.43	83.85	2.00	-2.00	0.00
10,900.00	0.00	0.00	10,886.63	-84.33	-303.43	83.85	0.00	0.00	0.00
11,000.00	0.00	0.00	10,986.63	-84.33	-303.43	83.85	0.00	0.00	0.00
11,031.37	0.00	0.00	11,018.00	-84.33	-303.43	83.85	0.00	0.00	0.00
3rd Bone Sand									
11,087.35	0.00	0.00	11,073.98	-84.33	-303.43	83.85	0.00	0.00	0.00
11,100.00	1.01	179.90	11,086.63	-84.44	-303.43	83.96	8.00	8.00	0.00
11,150.00	5.01	179.90	11,136.55	-87.07	-303.43	86.59	8.00	8.00	0.00
11,200.00	9.01	179.90	11,186.17	-93.17	-303.41	92.69	8.00	8.00	0.00
11,250.00	13.01	179.90	11,235.24	-102.72	-303.40	102.24	8.00	8.00	0.00
11,300.00	17.01	179.90	11,283.52	-115.67	-303.38	115.19	8.00	8.00	0.00
11,350.00	21.01	179.90	11,330.78	-131.95	-303.35	131.48	8.00	8.00	0.00
11,359.90	21.80	179.90	11,340.00	-135.57	-303.34	135.09	8.00	8.00	0.00
Red Hills									
11,400.00	25.01	179.90	11,376.79	-151.50	-303.31	151.02	8.00	8.00	0.00
11,450.00	29.01	179.90	11,421.33	-174.20	-303.27	173.72	8.00	8.00	0.00
11,458.80	29.72	179.90	11,429.00	-178.52	-303.27	178.04	8.00	8.00	0.00
Wolfcamp									
11,492.66	32.42	179.90	11,458.00	-195.99	-303.24	195.51	8.00	8.00	0.00
Wolfcamp X									
11,500.00	33.01	179.90	11,464.17	-199.96	-303.23	199.48	8.00	8.00	0.00
11,550.00	37.01	179.90	11,505.12	-228.64	-303.18	228.16	8.00	8.00	0.00
11,587.35	40.00	179.90	11,534.34	-251.89	-303.14	251.41	8.00	8.00	0.00

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H 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)
11,600.00	41.27	179.90	11,543.94	-260.13	-303.12	259.65	10.00	10.00	0.00
11,612.16	42.48	179.90	11,553.00	-268.25	-303.11	267.77	10.00	10.00	0.00
Wolfcamp Y									
11,650.00	46.27	179.90	11,580.04	-294.70	-303.05	294.22	10.00	10.00	0.00
11,660.16	47.28	179.90	11,587.00	-302.10	-303.05	301.63	10.00	10.00	0.00
Wolfcamp A									
11,700.00	51.27	179.90	11,612.99	-332.29	-303.00	331.81	10.00	10.00	0.00
11,750.00	56.27	179.90	11,642.53	-372.61	-302.98	372.13	10.00	10.00	0.00
11,800.00	61.27	179.90	11,668.45	-415.34	-302.85	414.87	10.00	10.00	0.00
11,850.00	66.27	179.90	11,690.55	-460.18	-302.77	459.70	10.00	10.00	0.00
11,900.00	71.27	179.90	11,708.65	-506.77	-302.69	506.29	10.00	10.00	0.00
11,950.00	76.27	179.90	11,722.63	-554.76	-302.61	554.28	10.00	10.00	0.00
12,000.00	81.27	179.90	11,732.36	-603.79	-302.52	603.31	10.00	10.00	0.00
12,050.00	86.27	179.90	11,737.79	-653.48	-302.44	653.00	10.00	10.00	0.00
12,084.14	89.68	179.90	11,739.00	-687.58	-302.38	687.11	10.00	10.00	0.00
LP									
12,090.35	90.30	179.90	11,739.00	-693.80	-302.37	693.32	10.00	10.00	0.00
12,100.00	90.30	179.90	11,738.95	-703.45	-302.35	702.97	0.00	0.00	0.00
12,200.00	90.30	179.90	11,738.43	-803.45	-302.17	802.97	0.00	0.00	0.00
12,300.00	90.30	179.90	11,737.90	-903.45	-302.00	902.97	0.00	0.00	0.00
12,400.00	90.30	179.90	11,737.38	-1,003.44	-301.83	1,002.97	0.00	0.00	0.00
12,500.00	90.30	179.90	11,736.86	-1,103.44	-301.65	1,102.97	0.00	0.00	0.00
12,600.00	90.30	179.90	11,736.33	-1,203.44	-301.48	1,202.97	0.00	0.00	0.00
12,700.00	90.30	179.90	11,735.81	-1,303.44	-301.30	1,302.96	0.00	0.00	0.00
12,800.00	90.30	179.90	11,735.29	-1,403.44	-301.13	1,402.96	0.00	0.00	0.00
12,900.00	90.30	179.90	11,734.76	-1,503.44	-300.95	1,502.96	0.00	0.00	0.00
13,000.00	90.30	179.90	11,734.24	-1,603.44	-300.78	1,602.96	0.00	0.00	0.00
13,100.00	90.30	179.90	11,733.71	-1,703.43	-300.60	1,702.96	0.00	0.00	0.00
13,200.00	90.30	179.90	11,733.19	-1,803.43	-300.43	1,802.96	0.00	0.00	0.00
13,300.00	90.30	179.90	11,732.67	-1,903.43	-300.26	1,902.96	0.00	0.00	0.00
13,400.00	90.30	179.90	11,732.14	-2,003.43	-300.08	2,002.96	0.00	0.00	0.00
13,500.00	90.30	179.90	11,731.62	-2,103.43	-299.91	2,102.95	0.00	0.00	0.00
13,600.00	90.30	179.90	11,731.10	-2,203.43	-299.73	2,202.95	0.00	0.00	0.00
13,700.00	90.30	179.90	11,730.57	-2,303.42	-299.56	2,302.95	0.00	0.00	0.00
13,800.00	90.30	179.90	11,730.05	-2,403.42	-299.38	2,402.95	0.00	0.00	0.00
13,900.00	90.30	179.90	11,729.53	-2,503.42	-299.21	2,502.95	0.00	0.00	0.00
14,000.00	90.30	179.90	11,729.00	-2,603.42	-299.03	2,602.95	0.00	0.00	0.00
14,100.00	90.30	179.90	11,728.48	-2,703.42	-298.86	2,702.95	0.00	0.00	0.00
14,200.00	90.30	179.90	11,727.96	-2,803.42	-298.68	2,802.94	0.00	0.00	0.00
14,300.00	90.30	179.90	11,727.43	-2,903.42	-298.51	2,902.94	0.00	0.00	0.00
14,400.00	90.30	179.90	11,726.91	-3,003.41	-298.34	3,002.94	0.00	0.00	0.00
14,500.00	90.30	179.90	11,726.38	-3,103.41	-298.16	3,102.94	0.00	0.00	0.00
14,600.00	90.30	179.90	11,725.86	-3,203.41	-297.99	3,202.94	0.00	0.00	0.00
14,700.00	90.30	179.90	11,725.34	-3,303.41	-297.81	3,302.94	0.00	0.00	0.00
14,800.00	90.30	179.90	11,724.81	-3,403.41	-297.64	3,402.94	0.00	0.00	0.00
14,900.00	90.30	179.90	11,724.29	-3,503.41	-297.46	3,502.93	0.00	0.00	0.00
15,000.00	90.30	179.90	11,723.77	-3,603.40	-297.29	3,602.93	0.00	0.00	0.00
15,100.00	90.30	179.90	11,723.24	-3,703.40	-297.11	3,702.93	0.00	0.00	0.00
15,200.00	90.30	179.90	11,722.72	-3,803.40	-296.94	3,802.93	0.00	0.00	0.00
15,300.00	90.30	179.90	11,722.20	-3,903.40	-296.76	3,902.93	0.00	0.00	0.00
15,400.00	90.30	179.90	11,721.67	-4,003.40	-296.59	4,002.93	0.00	0.00	0.00
15,500.00	90.30	179.90	11,721.15	-4,103.40	-296.42	4,102.93	0.00	0.00	0.00
15,600.00	90.30	179.90	11,720.63	-4,203.40	-296.24	4,202.93	0.00	0.00	0.00

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H 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)
15,700.00	90.30	179.90	11,720.10	-4,303.39	-296.07	4,302.92	0.00	0.00	0.00
15,800.00	90.30	179.90	11,719.58	-4,403.39	-295.89	4,402.92	0.00	0.00	0.00
15,900.00	90.30	179.90	11,719.05	-4,503.39	-295.72	4,502.92	0.00	0.00	0.00
16,000.00	90.30	179.90	11,718.53	-4,603.39	-295.54	4,602.92	0.00	0.00	0.00
16,100.00	90.30	179.90	11,718.01	-4,703.39	-295.37	4,702.92	0.00	0.00	0.00
16,200.00	90.30	179.90	11,717.48	-4,803.39	-295.19	4,802.92	0.00	0.00	0.00
16,300.00	90.30	179.90	11,716.96	-4,903.38	-295.02	4,902.92	0.00	0.00	0.00
16,400.00	90.30	179.90	11,716.44	-5,003.38	-294.84	5,002.91	0.00	0.00	0.00
16,500.00	90.30	179.90	11,715.91	-5,103.38	-294.67	5,102.91	0.00	0.00	0.00
16,600.00	90.30	179.90	11,715.39	-5,203.38	-294.50	5,202.91	0.00	0.00	0.00
16,700.00	90.30	179.90	11,714.87	-5,303.38	-294.32	5,302.91	0.00	0.00	0.00
16,800.00	90.30	179.90	11,714.34	-5,403.38	-294.15	5,402.91	0.00	0.00	0.00
16,900.00	90.30	179.90	11,713.82	-5,503.38	-293.97	5,502.91	0.00	0.00	0.00
17,000.00	90.30	179.90	11,713.29	-5,603.37	-293.80	5,602.91	0.00	0.00	0.00
17,100.00	90.30	179.90	11,712.77	-5,703.37	-293.62	5,702.90	0.00	0.00	0.00
17,200.00	90.30	179.90	11,712.25	-5,803.37	-293.45	5,802.90	0.00	0.00	0.00
17,300.00	90.30	179.90	11,711.72	-5,903.37	-293.27	5,902.90	0.00	0.00	0.00
17,400.00	90.30	179.90	11,711.20	-6,003.37	-293.10	6,002.90	0.00	0.00	0.00
17,500.00	90.30	179.90	11,710.68	-6,103.37	-292.92	6,102.90	0.00	0.00	0.00
17,600.00	90.30	179.90	11,710.15	-6,203.37	-292.75	6,202.90	0.00	0.00	0.00
17,700.00	90.30	179.90	11,709.63	-6,303.36	-292.58	6,302.90	0.00	0.00	0.00
17,800.00	90.30	179.90	11,709.11	-6,403.36	-292.40	6,402.89	0.00	0.00	0.00
17,900.00	90.30	179.90	11,708.58	-6,503.36	-292.23	6,502.89	0.00	0.00	0.00
18,000.00	90.30	179.90	11,708.06	-6,603.36	-292.05	6,602.89	0.00	0.00	0.00
18,100.00	90.30	179.90	11,707.54	-6,703.36	-291.88	6,702.89	0.00	0.00	0.00
18,200.00	90.30	179.90	11,707.01	-6,803.36	-291.70	6,802.89	0.00	0.00	0.00
18,300.00	90.30	179.90	11,706.49	-6,903.35	-291.53	6,902.89	0.00	0.00	0.00
18,400.00	90.30	179.90	11,705.96	-7,003.35	-291.35	7,002.89	0.00	0.00	0.00
18,500.00	90.30	179.90	11,705.44	-7,103.35	-291.18	7,102.89	0.00	0.00	0.00
18,600.00	90.30	179.90	11,704.92	-7,203.35	-291.00	7,202.88	0.00	0.00	0.00
18,700.00	90.30	179.90	11,704.39	-7,303.35	-290.83	7,302.88	0.00	0.00	0.00
18,800.00	90.30	179.90	11,703.87	-7,403.35	-290.66	7,402.88	0.00	0.00	0.00
18,900.00	90.30	179.90	11,703.35	-7,503.35	-290.48	7,502.88	0.00	0.00	0.00
19,000.00	90.30	179.90	11,702.82	-7,603.34	-290.31	7,602.88	0.00	0.00	0.00
19,100.00	90.30	179.90	11,702.30	-7,703.34	-290.13	7,702.88	0.00	0.00	0.00
19,200.00	90.30	179.90	11,701.78	-7,803.34	-289.96	7,802.88	0.00	0.00	0.00
19,300.00	90.30	179.90	11,701.25	-7,903.34	-289.78	7,902.87	0.00	0.00	0.00
19,382.37	90.30	179.90	11,700.82	-7,985.70	-289.64	7,985.24	0.00	0.00	0.00
19,400.00	90.30	179.90	11,700.73	-8,003.34	-289.61	8,002.87	0.00	0.00	0.00
19,500.00	90.30	179.90	11,700.20	-8,103.34	-289.43	8,102.87	0.00	0.00	0.00
19,512.37	90.30	179.90	11,700.14	-8,115.70	-289.41	8,115.24	0.00	0.00	0.00

Planning Report

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Company:	XTO Energy	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site:	PLU 29 BS	North Reference:	Grid
Well:	901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	901H Lateral		
Design:	Plan #1		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
PLU29 BS 901H SHL	- plan hits target center	0.00	0.00	0.00	0.00	0.00	401,257.30	663,175.20	32° 6' 7.47422473 N 3° 48' 22.93677261 W
	- Point								
PLU29 BS 901H LTP_3:	- plan misses target center by 1.05usft at 19382.97usft MD (11700.82 TVD, -7986.30 N, -289.64 E)	0.00	0.00	11,700.00	-7,986.30	-290.30	393,271.00	662,884.90	32° 4' 48.45442866 N 3° 48' 26.76441168 W
	- Point								
PLU29 BS 901H PBHL_	- plan misses target center by 0.71usft at 19512.37usft MD (11700.14 TVD, -8115.70 N, -289.41 E)	0.00	0.00	11,700.14	-8,116.30	-289.80	393,141.00	662,885.40	32° 4' 47.16789942 N 3° 48' 26.76596614 W
	- Rectangle (sides W100.00 H7,425.00 D0.00)								
PLU29 BS 901H LP	- plan hits target center	0.00	0.00	11,739.00	-693.80	-302.37	400,563.50	662,872.83	32° 6' 0.62288152 N 3° 48' 26.49132664 W
	- Point								
PLU29 BS 901H FTP_3:	- plan misses target center by 0.03usft at 12090.35usft MD (11739.00 TVD, -693.80 N, -302.37 E)	0.00	0.00	11,739.00	-693.80	-302.40	400,563.50	662,872.80	32° 6' 0.62288297 N 3° 48' 26.49167540 W
	- Point								

Formations									
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction				
(usft)	(usft)			(°)	(°)				
811.00	811.00	Rustler							
1,174.00	1,174.00	Salado							
3,910.00	3,910.00	Base of Salt							
4,124.00	4,124.00	Delaware							
5,114.00	5,114.00	Cherry Canyon							
6,800.00	6,800.00	Brushy Canyon							
7,853.48	7,851.00	Basal Brushy Canyon							
8,069.30	8,066.00	Bone Spring							
8,096.40	8,093.00	Bone Spring Lime							
9,070.10	9,063.00	1st Bone Sand							
9,483.67	9,475.00	2nd Bone Lime							
9,934.38	9,924.00	2nd Bone Sand							
10,157.23	10,146.00	3rd Bone Lime							
11,031.37	11,018.00	3rd Bone Sand							
11,359.90	11,340.00	Red Hills							
11,458.80	11,429.00	Wolfcamp							
11,492.66	11,458.00	Wolfcamp X							
11,612.16	11,553.00	Wolfcamp Y							
11,660.16	11,587.00	Wolfcamp A							
12,084.14	11,739.00	LP							

Anticollision Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well 901H - Slot PLU29 BS 901H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Reference Site:	PLU 29 BS	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	901H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	901H Lateral	Database:	STRYKER_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1	Error Model:	ISCWSA
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria	Scan Method:	Closest Approach 3D
Interpolation Method:	MD Interval 50.00usft	Error Surface:	Ellipsoid Separation
Depth Range:	Unlimited	Casing Method:	Not applied
Results Limited by:	Maximum separation factor of 4.00		
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	11/07/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,512.37	Plan #1 (901H Lateral)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary		Reference	Offset	Distance		Warning
Site Name	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
Offset Well - Wellbore - Design						
PLU 29 BS						
102H - 102H Lateral - Plan #1	5,453.33	5,453.33	89.90	50.28	2.269 CC	
102H - 102H Lateral - Plan #1	5,500.00	5,499.31	90.02	50.07	2.253 ES	
102H - 102H Lateral - Plan #1	5,550.00	5,548.16	90.71	50.42	2.251 SF	
121H - 121H Lateral - Plan #1	2,000.00	2,000.00	29.90	15.11	2.022 CC	
121H - 121H Lateral - Plan #1	2,050.00	2,049.71	30.14	15.00	1.991 ES, SF	
122H - 122H Lateral - Plan #1	6,950.00	6,950.00	60.00	9.65	1.192 Level 2, CC	
122H - 122H Lateral - Plan #1	7,000.00	7,000.00	60.05	9.35	1.184 Level 2, ES, SF	
701H - 701H Lateral - Plan #1	7,486.77	7,485.70	7.89	-45.68	0.147 Level 1, CC, SF	
701H - 701H Lateral - Plan #1	7,550.00	7,548.85	8.72	-45.94	0.159 Level 1, ES	
Petirrojo Mon1 Offset - 1 OH - 1 OH AsDrilled					Out of range	

Offset Design										PLU 29 BS - 102H - 102H Lateral - Plan #1				Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+IFR1+MS														Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
3,100.00	3,100.00	3,100.00	3,100.00	11.84	11.84	89.62	0.60	89.90	89.90	67.15	22.74	3.954			
3,150.00	3,150.00	3,150.00	3,150.00	12.02	12.02	89.62	0.60	89.90	89.90	66.80	23.10	3.892			
3,200.00	3,200.00	3,200.00	3,200.00	12.20	12.20	89.62	0.60	89.90	89.90	66.44	23.46	3.833			
3,250.00	3,250.00	3,250.00	3,250.00	12.38	12.38	89.62	0.60	89.90	89.90	66.09	23.82	3.775			
3,300.00	3,300.00	3,300.00	3,300.00	12.56	12.56	89.62	0.60	89.90	89.90	65.73	24.18	3.719			
3,350.00	3,350.00	3,350.00	3,350.00	12.74	12.74	89.62	0.60	89.90	89.90	65.37	24.53	3.664			
3,400.00	3,400.00	3,400.00	3,400.00	12.92	12.92	89.62	0.60	89.90	89.90	65.01	24.89	3.612			
3,450.00	3,450.00	3,450.00	3,450.00	13.10	13.10	89.62	0.60	89.90	89.90	64.65	25.25	3.560			
3,500.00	3,500.00	3,500.00	3,500.00	13.28	13.28	89.62	0.60	89.90	89.90	64.29	25.61	3.510			
3,550.00	3,550.00	3,550.00	3,550.00	13.46	13.46	89.62	0.60	89.90	89.90	63.93	25.97	3.462			
3,600.00	3,600.00	3,600.00	3,600.00	13.64	13.64	89.62	0.60	89.90	89.90	63.57	26.33	3.415			
3,650.00	3,650.00	3,650.00	3,650.00	13.82	13.82	89.62	0.60	89.90	89.90	63.21	26.69	3.369			
3,700.00	3,700.00	3,700.00	3,700.00	14.00	14.00	89.62	0.60	89.90	89.90	62.85	27.05	3.324			
3,750.00	3,750.00	3,750.00	3,750.00	14.18	14.18	89.62	0.60	89.90	89.90	62.50	27.41	3.280			
3,800.00	3,800.00	3,800.00	3,800.00	14.35	14.36	89.62	0.60	89.90	89.90	62.14	27.76	3.238			
3,850.00	3,850.00	3,850.00	3,850.00	14.54	14.54	89.62	0.60	89.90	89.90	61.78	28.12	3.197			
3,900.00	3,900.00	3,900.00	3,900.00	14.72	14.72	89.62	0.60	89.90	89.90	61.42	28.48	3.156			

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 102H - 102H Lateral - Plan #1										Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+IFR1+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)		
3,950.00	3,950.00	3,950.00	3,950.00	14.90	14.90	89.62	0.60	89.90	89.90	61.05	28.84	3.117
4,000.00	4,000.00	4,000.00	4,000.00	15.08	15.08	89.62	0.60	89.90	89.90	60.70	29.20	3.079
4,050.00	4,050.00	4,050.00	4,050.00	15.26	15.26	89.62	0.60	89.90	89.90	60.34	29.56	3.041
4,100.00	4,100.00	4,100.00	4,100.00	15.44	15.44	89.62	0.60	89.90	89.90	59.98	29.92	3.005
4,150.00	4,150.00	4,150.00	4,150.00	15.62	15.62	89.62	0.60	89.90	89.90	59.63	30.28	2.969
4,200.00	4,200.00	4,200.00	4,200.00	15.80	15.80	89.62	0.60	89.90	89.90	59.27	30.63	2.935
4,250.00	4,250.00	4,250.00	4,250.00	15.98	15.98	89.62	0.60	89.90	89.90	58.91	30.99	2.901
4,300.00	4,300.00	4,300.00	4,300.00	16.15	16.16	89.62	0.60	89.90	89.90	58.55	31.35	2.867
4,350.00	4,350.00	4,350.00	4,350.00	16.33	16.33	89.62	0.60	89.90	89.90	58.19	31.71	2.835
4,400.00	4,400.00	4,400.00	4,400.00	16.51	16.51	89.62	0.60	89.90	89.90	57.83	32.07	2.803
4,450.00	4,450.00	4,450.00	4,450.00	16.69	16.69	89.62	0.60	89.90	89.90	57.47	32.43	2.772
4,500.00	4,500.00	4,500.00	4,500.00	16.87	16.87	89.62	0.60	89.90	89.90	57.11	32.79	2.742
4,550.00	4,550.00	4,550.00	4,550.00	17.05	17.05	89.62	0.60	89.90	89.90	56.76	33.15	2.712
4,600.00	4,600.00	4,600.00	4,600.00	17.23	17.23	89.62	0.60	89.90	89.90	56.40	33.51	2.683
4,650.00	4,650.00	4,650.00	4,650.00	17.41	17.41	89.62	0.60	89.90	89.90	56.04	33.86	2.655
4,700.00	4,700.00	4,700.00	4,700.00	17.59	17.59	89.62	0.60	89.90	89.90	55.68	34.22	2.627
4,750.00	4,750.00	4,750.00	4,750.00	17.77	17.77	89.62	0.60	89.90	89.90	55.32	34.58	2.600
4,800.00	4,800.00	4,800.00	4,800.00	17.95	17.95	89.62	0.60	89.90	89.90	54.96	34.94	2.573
4,850.00	4,850.00	4,850.00	4,850.00	18.13	18.13	89.62	0.60	89.90	89.90	54.60	35.30	2.547
4,900.00	4,900.00	4,900.00	4,900.00	18.31	18.31	89.62	0.60	89.90	89.90	54.24	35.66	2.521
4,950.00	4,950.00	4,950.00	4,950.00	18.49	18.49	89.62	0.60	89.90	89.90	53.89	36.02	2.496
5,000.00	5,000.00	5,000.00	5,000.00	18.67	18.67	89.62	0.60	89.90	89.90	53.53	36.37	2.472
5,050.00	5,050.00	5,050.00	5,050.00	18.85	18.85	89.62	0.60	89.90	89.90	53.17	36.73	2.447
5,100.00	5,100.00	5,100.00	5,100.00	19.03	19.03	89.62	0.60	89.90	89.90	52.81	37.09	2.424
5,150.00	5,150.00	5,150.00	5,150.00	19.21	19.21	89.62	0.60	89.90	89.90	52.45	37.45	2.401
5,200.00	5,200.00	5,200.00	5,200.00	19.39	19.39	89.62	0.60	89.90	89.90	52.09	37.81	2.378
5,250.00	5,250.00	5,250.00	5,250.00	19.57	19.57	89.62	0.60	89.90	89.90	51.73	38.17	2.355
5,300.00	5,300.00	5,300.00	5,300.00	19.75	19.75	89.62	0.60	89.90	89.90	51.37	38.53	2.333
5,350.00	5,350.00	5,350.00	5,350.00	19.93	19.93	89.62	0.60	89.90	89.90	51.02	38.89	2.312
5,400.00	5,400.00	5,400.00	5,400.00	20.11	20.11	89.62	0.60	89.90	89.90	50.66	39.24	2.291
5,450.00	5,450.00	5,450.00	5,450.00	20.29	20.28	89.62	0.60	89.90	89.90	50.30	39.60	2.270
5,453.33	5,453.33	5,453.33	5,453.33	20.30	20.29	89.62	0.60	89.90	89.90	50.28	39.62	2.269 CC
5,500.00	5,500.00	5,499.31	5,499.31	20.47	20.45	89.63	0.59	90.01	90.02	50.07	39.95	2.253 ES
5,550.00	5,550.00	5,548.16	5,548.16	20.65	20.61	89.68	0.51	90.69	90.71	50.42	40.29	2.251 SF
5,600.00	5,600.00	5,596.98	5,596.98	20.83	20.77	89.77	0.37	92.00	92.05	51.42	40.63	2.266
5,650.00	5,650.00	5,645.76	5,645.76	21.00	20.93	89.91	0.15	93.92	94.02	53.05	40.97	2.295
5,700.00	5,700.00	5,694.49	5,694.36	21.18	21.10	90.08	-0.13	96.45	96.62	55.32	41.30	2.339
5,750.00	5,750.00	5,743.14	5,742.91	21.35	21.26	90.27	-0.48	99.60	99.66	58.23	41.63	2.399
5,800.00	5,800.00	5,791.70	5,791.32	21.54	21.42	90.49	-0.89	103.36	103.72	61.77	41.95	2.473
5,850.00	5,850.00	5,841.20	5,840.63	21.72	21.59	90.73	-1.37	107.62	108.04	65.75	42.29	2.554
5,900.00	5,900.00	5,891.01	5,890.25	21.90	21.75	90.94	-1.84	111.94	112.38	69.73	42.65	2.635
5,950.00	5,950.00	5,940.82	5,939.87	22.08	21.91	91.14	-2.32	116.25	116.71	73.72	42.99	2.715
6,000.00	6,000.00	5,990.63	5,989.50	22.26	22.08	91.33	-2.80	120.56	121.05	77.71	43.34	2.793
6,050.00	6,050.00	6,040.44	6,039.12	22.44	22.24	91.50	-3.28	124.87	125.39	81.71	43.68	2.870
6,100.00	6,100.00	6,090.25	6,088.74	22.62	22.40	91.67	-3.76	129.19	129.73	85.70	44.03	2.947
6,150.00	6,150.00	6,140.06	6,138.36	22.80	22.57	91.82	-4.24	133.50	134.07	89.70	44.37	3.021
6,200.00	6,200.00	6,189.87	6,187.98	22.98	22.73	91.96	-4.72	137.81	138.42	93.70	44.72	3.095
6,250.00	6,250.00	6,239.66	6,237.60	23.16	22.90	92.09	-5.19	142.12	142.76	97.69	45.07	3.168
6,300.00	6,300.00	6,289.49	6,287.22	23.34	23.06	92.22	-5.67	146.44	147.10	101.69	45.41	3.239
6,350.00	6,350.00	6,339.30	6,336.84	23.52	23.22	92.34	-6.15	150.75	151.45	105.69	45.76	3.310
6,400.00	6,400.00	6,389.11	6,386.46	23.70	23.39	92.45	-6.63	155.06	155.79	109.69	46.11	3.379
6,450.00	6,450.00	6,438.92	6,436.08	23.88	23.55	92.55	-7.11	159.37	160.14	113.68	46.45	3.447

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 102H - 102H Lateral - Plan #1

Survey Program: 0-MWD+IFR1+MS

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)			
6,500.00	6,500.00	6,488.73	6,485.70	24.05	23.72	92.65	-7.59	163.69	164.48	117.68	46.80	3.514	
6,550.00	6,550.00	6,538.54	6,535.32	24.24	23.89	92.75	-8.06	168.00	168.83	121.68	47.15	3.581	
6,600.00	6,600.00	6,588.35	6,584.94	24.41	24.05	92.84	-8.54	172.31	173.18	125.68	47.50	3.646	
6,650.00	6,650.00	6,638.16	6,634.56	24.59	24.22	92.92	-9.02	176.62	177.53	129.68	47.85	3.710	
6,700.00	6,700.00	6,687.97	6,684.18	24.77	24.38	93.01	-9.50	180.94	181.87	133.68	48.20	3.774	
6,750.00	6,750.00	6,737.78	6,733.80	24.95	24.55	93.08	-9.98	185.25	186.22	137.68	48.54	3.836	
6,800.00	6,800.00	6,787.59	6,783.43	25.13	24.72	93.16	-10.46	189.56	190.57	141.68	48.89	3.898	
6,850.00	6,850.00	6,837.40	6,833.05	25.31	24.88	93.23	-10.94	193.87	194.92	145.68	49.24	3.958	

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 121H - 121H Lateral - Plan #1														Offset Site Error: 0.00 usft
Survey Program: 0-MWD-HFR1+MS														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	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)				
1,000.00	1,000.00	1,000.00	1,000.00	4.21	4.21	89.81	0.10	29.90	29.90	22.33	7.57	3.949		
1,050.00	1,050.00	1,050.00	1,050.00	4.39	4.39	89.81	0.10	29.90	29.90	21.97	7.93	3.768		
1,100.00	1,100.00	1,100.00	1,100.00	4.53	4.58	89.81	0.10	29.90	29.90	21.60	8.30	3.604		
1,150.00	1,150.00	1,150.00	1,150.00	4.75	4.76	89.81	0.10	29.90	29.90	21.24	8.66	3.453		
1,200.00	1,200.00	1,200.00	1,200.00	4.95	4.95	89.81	0.10	29.90	29.90	20.89	9.02	3.314		
1,250.00	1,250.00	1,250.00	1,250.00	5.13	5.13	89.81	0.10	29.90	29.90	20.52	9.38	3.187		
1,300.00	1,300.00	1,300.00	1,300.00	5.31	5.31	89.81	0.10	29.90	29.90	20.16	9.74	3.089		
1,350.00	1,350.00	1,350.00	1,350.00	5.50	5.50	89.81	0.10	29.90	29.90	19.79	10.11	2.959		
1,400.00	1,400.00	1,400.00	1,400.00	5.58	5.58	89.81	0.10	29.90	29.90	19.43	10.47	2.857		
1,450.00	1,450.00	1,450.00	1,450.00	5.85	5.86	89.81	0.10	29.90	29.90	19.07	10.83	2.762		
1,500.00	1,500.00	1,500.00	1,500.00	6.05	6.05	89.81	0.10	29.90	29.90	18.71	11.19	2.673		
1,550.00	1,550.00	1,550.00	1,550.00	6.23	6.23	89.81	0.10	29.90	29.90	18.35	11.55	2.589		
1,600.00	1,600.00	1,600.00	1,600.00	6.41	6.41	89.81	0.10	29.90	29.90	17.99	11.91	2.511		
1,650.00	1,650.00	1,650.00	1,650.00	6.59	6.59	89.81	0.10	29.90	29.90	17.63	12.27	2.437		
1,700.00	1,700.00	1,700.00	1,700.00	6.78	6.78	89.81	0.10	29.90	29.90	17.27	12.63	2.368		
1,750.00	1,750.00	1,750.00	1,750.00	6.95	6.96	89.81	0.10	29.90	29.90	16.91	12.99	2.302		
1,800.00	1,800.00	1,800.00	1,800.00	7.14	7.14	89.81	0.10	29.90	29.90	16.55	13.35	2.240		
1,850.00	1,850.00	1,850.00	1,850.00	7.32	7.32	89.81	0.10	29.90	29.90	16.19	13.71	2.181		
1,900.00	1,900.00	1,900.00	1,900.00	7.50	7.50	89.81	0.10	29.90	29.90	15.83	14.07	2.125		
1,950.00	1,950.00	1,950.00	1,950.00	7.68	7.68	89.81	0.10	29.90	29.90	15.47	14.43	2.072		
2,000.00	2,000.00	2,000.00	2,000.00	7.87	7.87	89.81	0.10	29.90	29.90	15.11	14.79	2.022 CC		
2,050.00	2,050.00	2,049.71	2,049.71	8.05	8.02	90.23	-0.12	30.14	30.14	15.00	15.13	1.991 ES, SF		
2,100.00	2,100.00	2,099.41	2,099.40	8.23	8.17	91.46	-0.78	30.84	30.86	15.40	15.46	1.997		
2,150.00	2,150.00	2,149.08	2,149.04	8.41	8.32	93.38	-1.89	32.02	32.09	16.35	15.74	2.038		
2,200.00	2,200.00	2,198.91	2,198.83	8.59	8.47	95.70	-3.35	33.58	33.77	17.75	16.02	2.108		
2,250.00	2,250.00	2,248.86	2,248.73	8.77	8.52	97.84	-4.84	35.17	35.53	19.23	16.30	2.179		
2,300.00	2,300.00	2,298.82	2,298.64	8.95	8.78	99.78	-6.34	36.76	37.33	20.74	16.59	2.250		
2,350.00	2,350.00	2,348.77	2,348.54	9.13	8.94	101.54	-7.83	38.35	39.17	22.29	16.89	2.320		
2,400.00	2,400.00	2,398.72	2,398.45	9.31	9.10	103.13	-9.32	39.95	41.05	23.86	17.19	2.388		
2,450.00	2,450.00	2,448.67	2,448.35	9.49	9.27	104.59	-10.81	41.54	42.95	25.45	17.50	2.455		
2,500.00	2,500.00	2,498.63	2,498.26	9.67	9.43	105.92	-12.31	43.13	44.88	27.07	17.82	2.519		
2,550.00	2,550.00	2,548.58	2,548.16	9.85	9.60	107.15	-13.80	44.72	46.84	28.70	18.14	2.583		
2,600.00	2,600.00	2,598.53	2,598.07	10.03	9.76	108.27	-15.29	46.31	48.81	30.35	18.46	2.644		
2,650.00	2,650.00	2,648.48	2,647.97	10.22	9.93	109.31	-16.78	47.90	50.80	32.01	18.79	2.704		
2,700.00	2,700.00	2,698.44	2,697.87	10.40	10.10	110.27	-18.28	49.50	52.81	33.69	19.12	2.762		
2,750.00	2,750.00	2,748.39	2,747.78	10.58	10.27	111.15	-19.77	51.09	54.82	35.37	19.45	2.819		
2,800.00	2,800.00	2,798.34	2,797.68	10.75	10.44	111.98	-21.26	52.68	56.86	37.07	19.79	2.873		
2,850.00	2,850.00	2,848.29	2,847.59	10.94	10.60	112.75	-22.75	54.27	58.90	38.77	20.12	2.927		
2,900.00	2,900.00	2,898.24	2,897.49	11.12	10.77	113.46	-24.25	55.86	60.95	40.48	20.46	2.978		
2,950.00	2,950.00	2,948.20	2,947.40	11.30	10.95	114.13	-25.74	57.45	63.01	42.20	20.81	3.028		
3,000.00	3,000.00	2,998.15	2,997.30	11.48	11.12	114.76	-27.23	59.05	65.08	43.93	21.15	3.077		
3,050.00	3,050.00	3,048.10	3,047.21	11.65	11.29	115.35	-28.72	60.64	67.16	45.66	21.49	3.124		
3,100.00	3,100.00	3,098.05	3,097.11	11.84	11.46	115.90	-30.22	62.23	69.24	47.40	21.84	3.170		
3,150.00	3,150.00	3,148.01	3,147.02	12.02	11.63	116.42	-31.71	63.82	71.33	49.14	22.19	3.215		
3,200.00	3,200.00	3,197.96	3,196.92	12.20	11.81	116.91	-33.20	65.41	73.42	50.89	22.53	3.258		
3,250.00	3,250.00	3,247.91	3,246.83	12.38	11.98	117.37	-34.69	67.00	75.52	52.64	22.88	3.300		
3,300.00	3,300.00	3,297.86	3,296.73	12.56	12.15	117.81	-36.19	68.60	77.62	54.39	23.23	3.341		
3,350.00	3,350.00	3,347.81	3,346.63	12.74	12.33	118.23	-37.68	70.19	79.73	56.15	23.58	3.381		
3,400.00	3,400.00	3,397.77	3,396.54	12.92	12.50	118.62	-39.17	71.78	81.85	57.91	23.93	3.420		
3,450.00	3,450.00	3,447.72	3,446.44	13.10	12.67	119.00	-40.66	73.37	83.96	59.68	24.28	3.458		
3,500.00	3,500.00	3,497.67	3,496.35	13.28	12.85	119.35	-42.16	74.96	86.08	61.45	24.63	3.494		
3,550.00	3,550.00	3,547.62	3,546.25	13.45	13.02	119.69	-43.65	76.55	88.20	63.22	24.99	3.530		

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 901H - Slot PLU29 BS 901H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3364+25 @ 3389.00usft (T E101)
Reference Site:	PLU 29 BS	MD Reference:	3364+25 @ 3389.00usft (T E101)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	901H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	901H Lateral	Database:	STRYKER_EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design PLU 29 BS - 121H - 121H Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-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)					
3,600.00	3,600.00	3,597.58	3,596.16	13.64	13.20	120.01	-45.14	78.15	90.33	64.99	25.34	3.565			
3,650.00	3,650.00	3,647.53	3,646.06	13.82	13.37	120.32	-46.63	79.74	92.46	66.77	25.69	3.599			
3,700.00	3,700.00	3,697.48	3,695.97	14.00	13.55	120.61	-48.13	81.33	94.59	68.54	26.05	3.632			
3,750.00	3,750.00	3,747.43	3,745.87	14.18	13.73	120.90	-49.62	82.92	96.72	70.32	26.40	3.664			
3,800.00	3,800.00	3,797.39	3,795.78	14.36	13.90	121.16	-51.11	84.51	98.86	72.10	26.75	3.695			
3,850.00	3,850.00	3,847.34	3,845.68	14.54	14.08	121.42	-52.60	86.10	100.99	73.89	27.11	3.726			
3,900.00	3,900.00	3,897.29	3,895.59	14.72	14.25	121.67	-54.10	87.70	103.13	75.67	27.46	3.756			
3,950.00	3,950.00	3,947.24	3,945.49	14.90	14.43	121.91	-55.59	89.29	105.28	77.46	27.82	3.785			
4,000.00	4,000.00	3,997.19	3,995.39	15.08	14.61	122.13	-57.08	90.88	107.42	79.25	28.17	3.813			
4,050.00	4,050.00	4,047.15	4,045.30	15.26	14.78	122.35	-58.57	92.47	109.56	81.04	28.53	3.841			
4,100.00	4,100.00	4,097.10	4,095.20	15.44	14.96	122.56	-60.07	94.06	111.71	82.83	28.88	3.868			
4,150.00	4,150.00	4,147.05	4,145.11	15.62	15.14	122.76	-61.56	95.65	113.86	84.62	29.24	3.894			
4,200.00	4,200.00	4,197.00	4,195.01	15.80	15.31	122.96	-63.05	97.25	116.01	86.41	29.59	3.920			
4,250.00	4,250.00	4,246.96	4,244.92	15.98	15.49	123.15	-64.54	98.84	118.16	88.21	29.95	3.945			
4,300.00	4,300.00	4,296.91	4,294.82	16.16	15.67	123.33	-66.04	100.43	120.31	90.00	30.31	3.970			
4,350.00	4,350.00	4,346.86	4,344.73	16.33	15.85	123.50	-67.53	102.02	122.46	91.80	30.66	3.994			
5,000.00	5,000.00	5,002.52	5,000.00	18.67	18.17	124.76	-80.14	115.47	140.56	105.20	35.35	3.976			
5,050.00	5,050.00	5,052.52	5,050.00	18.85	18.34	124.76	-80.14	115.47	140.56	104.85	35.70	3.937			
5,100.00	5,100.00	5,102.52	5,100.00	19.03	18.52	124.76	-80.14	115.47	140.56	104.50	36.05	3.899			
5,150.00	5,150.00	5,152.52	5,150.00	19.21	18.69	124.76	-80.14	115.47	140.56	104.15	36.40	3.861			
5,200.00	5,200.00	5,202.52	5,200.00	19.39	18.86	124.76	-80.14	115.47	140.56	103.80	36.75	3.824			
5,250.00	5,250.00	5,252.52	5,250.00	19.57	19.04	124.76	-80.14	115.47	140.56	103.45	37.11	3.788			
5,300.00	5,300.00	5,302.52	5,300.00	19.75	19.21	124.76	-80.14	115.47	140.56	103.10	37.46	3.752			
5,350.00	5,350.00	5,352.52	5,350.00	19.93	19.39	124.76	-80.14	115.47	140.56	102.75	37.81	3.718			
5,400.00	5,400.00	5,402.52	5,400.00	20.11	19.56	124.76	-80.14	115.47	140.56	102.39	38.16	3.683			
5,450.00	5,450.00	5,452.52	5,450.00	20.29	19.74	124.76	-80.14	115.47	140.56	102.04	38.51	3.650			
5,500.00	5,500.00	5,502.52	5,500.00	20.47	19.91	124.76	-80.14	115.47	140.56	101.69	38.86	3.617			
5,550.00	5,550.00	5,552.52	5,550.00	20.65	20.09	124.76	-80.14	115.47	140.56	101.34	39.22	3.584			
5,600.00	5,600.00	5,602.52	5,600.00	20.83	20.26	124.76	-80.14	115.47	140.56	100.99	39.57	3.552			
5,650.00	5,650.00	5,652.52	5,650.00	21.00	20.44	124.76	-80.14	115.47	140.56	100.63	39.92	3.521			
5,700.00	5,700.00	5,702.52	5,700.00	21.18	20.61	124.76	-80.14	115.47	140.56	100.28	40.27	3.490			
5,750.00	5,750.00	5,752.52	5,750.00	21.36	20.79	124.76	-80.14	115.47	140.56	99.93	40.63	3.460			
5,800.00	5,800.00	5,802.52	5,800.00	21.54	20.96	124.76	-80.14	115.47	140.56	99.58	40.98	3.430			
5,850.00	5,850.00	5,852.52	5,850.00	21.72	21.14	124.76	-80.14	115.47	140.56	99.22	41.33	3.401			
5,900.00	5,900.00	5,902.52	5,900.00	21.90	21.32	124.76	-80.14	115.47	140.56	98.87	41.68	3.372			
5,950.00	5,950.00	5,952.52	5,950.00	22.08	21.49	124.76	-80.14	115.47	140.56	98.52	42.04	3.344			
6,000.00	6,000.00	6,002.52	6,000.00	22.26	21.67	124.76	-80.14	115.47	140.56	98.16	42.39	3.316			
6,050.00	6,050.00	6,052.52	6,050.00	22.44	21.84	124.76	-80.14	115.47	140.56	97.81	42.74	3.288			
6,100.00	6,100.00	6,102.52	6,100.00	22.62	22.02	124.76	-80.14	115.47	140.56	97.46	43.10	3.261			
6,150.00	6,150.00	6,152.52	6,150.00	22.80	22.20	124.76	-80.14	115.47	140.56	97.11	43.45	3.235			
6,200.00	6,200.00	6,202.52	6,200.00	22.98	22.37	124.76	-80.14	115.47	140.56	96.75	43.80	3.209			
6,250.00	6,250.00	6,252.52	6,250.00	23.16	22.55	124.76	-80.14	115.47	140.56	96.40	44.16	3.183			
6,300.00	6,300.00	6,302.52	6,300.00	23.34	22.72	124.76	-80.14	115.47	140.56	96.05	44.51	3.158			
6,350.00	6,350.00	6,352.52	6,350.00	23.52	22.90	124.76	-80.14	115.47	140.56	95.69	44.86	3.133			
6,400.00	6,400.00	6,402.52	6,400.00	23.70	23.08	124.76	-80.14	115.47	140.56	95.34	45.22	3.108			
6,450.00	6,450.00	6,452.52	6,450.00	23.88	23.25	124.76	-80.14	115.47	140.56	94.98	45.57	3.084			
6,500.00	6,500.00	6,502.52	6,500.00	24.06	23.43	124.76	-80.14	115.47	140.56	94.63	45.92	3.061			
6,550.00	6,550.00	6,552.52	6,550.00	24.24	23.61	124.76	-80.14	115.47	140.56	94.28	46.28	3.037			
6,600.00	6,600.00	6,602.52	6,600.00	24.41	23.78	124.76	-80.14	115.47	140.56	93.92	46.63	3.014			
6,650.00	6,650.00	6,652.52	6,650.00	24.59	23.96	124.76	-80.14	115.47	140.56	93.57	46.99	2.991			
6,700.00	6,700.00	6,702.52	6,700.00	24.77	24.14	124.76	-80.14	115.47	140.56	93.21	47.34	2.969			
6,750.00	6,750.00	6,752.52	6,750.00	24.95	24.32	124.76	-80.14	115.47	140.56	92.86	47.70	2.947			

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 121H - 121H Lateral - Plan #1											Offset Site Error: 0.00 usft		
Survey Program: 0-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)			
6,800.00	6,800.00	6,802.52	6,800.00	25.13	24.49	124.76	-80.14	115.47	140.56	92.51	48.05	2.925	
6,850.00	6,850.00	6,852.52	6,850.00	25.31	24.67	124.76	-80.14	115.47	140.56	92.15	48.40	2.904	
6,900.00	6,900.00	6,902.52	6,900.00	25.49	24.85	124.76	-80.14	115.47	140.56	91.80	48.76	2.883	
6,950.00	6,950.00	6,952.52	6,950.00	25.57	25.02	124.76	-80.14	115.47	140.56	91.44	49.11	2.862	
6,950.03	6,950.03	6,952.54	6,950.03	25.57	25.02	124.76	-80.14	115.47	140.56	91.44	49.11	2.862	
7,000.00	7,000.00	7,002.52	7,000.00	25.84	25.20	-129.72	-80.14	115.47	140.59	91.12	49.46	2.842	
7,050.00	7,050.00	7,052.51	7,050.00	26.01	25.38	-129.90	-80.14	115.47	140.97	91.15	49.82	2.830	
7,100.00	7,099.98	7,102.50	7,099.98	26.17	25.56	-130.28	-80.14	115.47	141.77	91.60	50.17	2.826	
7,150.00	7,149.94	7,152.46	7,149.94	26.35	25.73	-130.84	-80.14	115.47	143.00	92.46	50.54	2.829	
7,200.00	7,199.88	7,202.40	7,199.88	26.53	25.91	-131.59	-80.14	115.47	144.68	93.77	50.91	2.842	
7,250.00	7,249.78	7,252.29	7,249.78	26.71	26.09	-132.50	-80.14	115.47	146.83	95.55	51.28	2.863	
7,300.00	7,299.63	7,302.14	7,299.63	26.88	26.26	-133.56	-80.14	115.47	149.47	97.81	51.66	2.893	
7,350.00	7,349.44	7,351.95	7,349.44	27.05	26.44	-134.73	-80.14	115.47	152.49	100.48	52.01	2.932	
7,400.00	7,399.25	7,401.76	7,399.25	27.21	26.62	-135.87	-80.14	115.47	155.59	103.22	52.37	2.971	
7,450.00	7,449.06	7,451.57	7,449.06	27.37	26.79	-136.96	-80.14	115.47	158.75	106.02	52.73	3.011	
7,500.00	7,498.87	7,501.38	7,498.87	27.53	26.97	-138.01	-80.14	115.47	161.97	108.88	53.09	3.051	
7,550.00	7,548.68	7,551.19	7,548.68	27.70	27.15	-139.02	-80.14	115.47	165.24	111.78	53.45	3.091	
7,600.00	7,598.49	7,601.00	7,598.49	27.85	27.33	-139.99	-80.14	115.47	168.55	114.74	53.81	3.132	
7,650.00	7,648.30	7,650.81	7,648.30	28.03	27.50	-140.92	-80.14	115.47	171.92	117.74	54.18	3.173	
7,700.00	7,698.11	7,700.62	7,698.11	28.19	27.68	-141.81	-80.14	115.47	175.32	120.78	54.54	3.215	
7,750.00	7,747.92	7,750.43	7,747.92	28.35	27.86	-142.68	-80.14	115.47	178.77	123.87	54.90	3.256	
7,800.00	7,797.73	7,800.24	7,797.73	28.52	28.03	-143.50	-80.14	115.47	182.26	126.99	55.26	3.298	
7,850.00	7,847.54	7,850.05	7,847.54	28.68	28.21	-144.30	-80.14	115.47	185.78	130.16	55.63	3.340	
7,900.00	7,897.35	7,899.86	7,897.35	28.85	28.39	-145.07	-80.14	115.47	189.34	133.35	55.99	3.382	
7,950.00	7,947.16	7,949.67	7,947.16	29.01	28.56	-145.81	-80.14	115.47	192.93	136.58	56.35	3.424	
8,000.00	7,996.97	7,999.48	7,996.97	29.18	28.74	-146.52	-80.14	115.47	196.55	139.84	56.71	3.466	
8,050.00	8,046.78	8,049.29	8,046.78	29.34	28.92	-147.21	-80.14	115.47	200.20	143.13	57.07	3.508	
8,100.00	8,096.59	8,099.10	8,096.59	29.51	29.10	-147.87	-80.14	115.47	203.88	146.44	57.44	3.550	
8,150.00	8,146.40	8,148.91	8,146.40	29.68	29.27	-148.51	-80.14	115.47	207.58	149.79	57.80	3.592	
8,200.00	8,196.21	8,198.72	8,196.21	29.84	29.45	-149.13	-80.14	115.47	211.31	153.15	58.16	3.633	
8,250.00	8,246.02	8,248.54	8,246.02	30.01	29.63	-149.72	-80.14	115.47	215.07	156.55	58.52	3.675	
8,300.00	8,295.83	8,298.35	8,295.83	30.17	29.81	-150.29	-80.14	115.47	218.84	159.96	58.88	3.717	
8,350.00	8,345.64	8,348.16	8,345.64	30.34	29.98	-150.85	-80.14	115.47	222.64	163.40	59.24	3.758	
8,400.00	8,395.45	8,397.97	8,395.45	30.51	30.16	-151.39	-80.14	115.47	226.45	166.85	59.60	3.799	
8,450.00	8,445.26	8,447.78	8,445.26	30.67	30.34	-151.90	-80.14	115.47	230.29	170.33	59.96	3.840	
8,500.00	8,495.07	8,497.59	8,495.07	30.84	30.51	-152.41	-80.14	115.47	234.14	173.82	60.32	3.881	
8,550.00	8,544.88	8,547.40	8,544.88	31.01	30.69	-152.89	-80.14	115.47	238.01	177.33	60.68	3.922	
8,600.00	8,594.69	8,597.21	8,594.69	31.18	30.87	-153.36	-80.14	115.47	241.90	180.85	61.04	3.963	
17,000.00	11,713.29	16,826.00	11,548.28	59.59	58.93	-68.94	-5,601.01	134.74	459.22	343.97	115.24	3.985	
17,050.00	11,713.03	16,875.00	11,548.02	59.85	59.20	-68.94	-5,651.01	134.92	459.30	343.49	115.81	3.966	
17,100.00	11,712.77	16,926.00	11,547.76	60.13	59.48	-68.95	-5,701.01	135.09	459.38	343.00	116.37	3.947	
17,150.00	11,712.51	16,976.00	11,547.50	60.41	59.76	-68.95	-5,751.01	135.27	459.46	342.52	116.94	3.929	
17,200.00	11,712.25	17,026.00	11,547.24	60.69	60.04	-68.96	-5,801.01	135.44	459.54	342.03	117.51	3.911	
17,250.00	11,711.99	17,076.00	11,546.98	60.96	60.32	-68.96	-5,851.01	135.61	459.62	341.54	118.09	3.892	
17,300.00	11,711.72	17,126.00	11,546.71	61.24	60.60	-68.96	-5,901.01	135.79	459.70	341.04	118.66	3.874	
17,350.00	11,711.46	17,176.00	11,546.45	61.52	60.89	-68.97	-5,951.01	135.96	459.79	340.55	119.24	3.856	
17,400.00	11,711.20	17,226.00	11,546.19	61.80	61.17	-68.97	-6,001.01	136.14	459.87	340.05	119.82	3.838	
17,450.00	11,710.94	17,276.00	11,545.93	62.09	61.46	-68.98	-6,051.00	136.31	459.95	339.55	120.40	3.820	
17,500.00	11,710.68	17,326.00	11,545.67	62.37	61.74	-68.98	-6,101.00	136.49	460.03	339.04	120.99	3.802	
17,550.00	11,710.41	17,376.00	11,545.41	62.55	62.03	-68.98	-6,151.00	136.66	460.11	338.54	121.57	3.785	
17,600.00	11,710.15	17,426.00	11,545.14	62.94	62.32	-68.99	-6,201.00	136.84	460.19	338.03	122.16	3.767	
17,650.00	11,709.89	17,476.00	11,544.88	63.23	62.61	-68.99	-6,251.00	137.01	460.27	337.52	122.75	3.750	

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design										PLU 29 BS - 121H - 121H Lateral - Plan #1		Offset Site Error: 0.00 usft			
Survey Program: 0-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)					
17,700.00	11,709.63	17,526.00	11,544.62	63.51	62.90	-69.99	-6,301.00	137.18	460.36	337.01	123.34	3.732			
17,750.00	11,709.37	17,576.00	11,544.36	63.80	63.19	-69.00	-6,351.00	137.36	460.44	336.50	123.94	3.715			
17,800.00	11,709.11	17,626.00	11,544.10	64.09	63.48	-69.00	-6,401.00	137.53	460.52	335.99	124.53	3.698			
17,850.00	11,708.84	17,676.00	11,543.83	64.38	63.78	-69.01	-6,451.00	137.71	460.60	335.47	125.13	3.681			
17,900.00	11,708.58	17,726.00	11,543.57	64.67	64.07	-69.01	-6,501.00	137.88	460.68	334.95	125.73	3.664			
17,950.00	11,708.32	17,776.00	11,543.31	64.97	64.36	-69.01	-6,550.99	138.06	460.76	334.43	126.33	3.647			
18,000.00	11,708.06	17,826.00	11,543.05	65.26	64.66	-69.02	-6,600.99	138.23	460.85	333.91	126.93	3.631			
18,050.00	11,707.80	17,876.00	11,542.79	65.55	64.96	-69.02	-6,650.99	138.41	460.93	333.39	127.54	3.614			
18,100.00	11,707.54	17,926.00	11,542.53	65.85	65.26	-69.03	-6,700.99	138.58	461.01	332.86	128.15	3.598			
18,150.00	11,707.27	17,976.00	11,542.26	66.15	65.56	-69.03	-6,750.99	138.76	461.09	332.34	128.75	3.581			
18,200.00	11,707.01	18,026.00	11,542.00	66.44	65.85	-69.03	-6,800.99	138.93	461.17	331.81	129.36	3.565			
18,250.00	11,706.75	18,076.00	11,541.74	66.74	66.16	-69.04	-6,850.99	139.10	461.25	331.28	129.98	3.549			
18,300.00	11,706.49	18,126.00	11,541.48	67.04	66.46	-69.04	-6,900.99	139.28	461.33	330.74	130.59	3.533			
18,350.00	11,706.23	18,176.00	11,541.22	67.34	66.76	-69.05	-6,950.99	139.45	461.42	330.21	131.21	3.517			
18,400.00	11,705.96	18,226.00	11,540.95	67.64	67.06	-69.05	-7,000.98	139.63	461.50	329.68	131.82	3.501			
18,450.00	11,705.70	18,276.00	11,540.69	67.94	67.37	-69.05	-7,050.98	139.80	461.58	329.14	132.44	3.485			
18,500.00	11,705.44	18,326.00	11,540.43	68.24	67.67	-69.06	-7,100.98	139.98	461.66	328.60	133.06	3.470			
18,550.00	11,705.18	18,376.00	11,540.17	68.55	67.98	-69.06	-7,150.98	140.15	461.74	328.06	133.68	3.454			
18,600.00	11,704.92	18,426.00	11,539.91	68.85	68.28	-69.06	-7,200.98	140.33	461.82	327.52	134.30	3.439			
18,650.00	11,704.66	18,476.00	11,539.65	69.15	68.59	-69.07	-7,250.98	140.50	461.90	326.98	134.93	3.423			
18,700.00	11,704.39	18,526.00	11,539.38	69.46	68.90	-69.07	-7,300.98	140.68	461.99	326.43	135.55	3.408			
18,750.00	11,704.13	18,576.00	11,539.12	69.77	69.21	-69.08	-7,350.98	140.85	462.07	325.89	136.18	3.393			
18,800.00	11,703.87	18,626.00	11,538.86	70.07	69.52	-69.08	-7,400.98	141.02	462.15	325.34	136.81	3.378			
18,850.00	11,703.61	18,676.00	11,538.60	70.38	69.83	-69.08	-7,450.97	141.20	462.23	324.79	137.44	3.363			
18,900.00	11,703.35	18,726.00	11,538.34	70.69	70.14	-69.09	-7,500.97	141.37	462.31	324.24	138.07	3.348			
18,950.00	11,703.08	18,776.00	11,538.07	71.00	70.45	-69.09	-7,550.97	141.55	462.39	323.69	138.71	3.334			
19,000.00	11,702.82	18,826.00	11,537.81	71.31	70.76	-69.10	-7,600.97	141.72	462.48	323.14	139.34	3.319			
19,050.00	11,702.56	18,876.00	11,537.55	71.62	71.07	-69.10	-7,650.97	141.90	462.56	322.58	139.98	3.305			
19,100.00	11,702.30	18,926.00	11,537.29	71.93	71.39	-69.10	-7,700.97	142.07	462.64	322.03	140.61	3.290			
19,150.00	11,702.04	18,976.00	11,537.03	72.24	71.70	-69.11	-7,750.97	142.25	462.72	321.47	141.25	3.276			
19,200.00	11,701.78	19,026.00	11,536.77	72.55	72.02	-69.11	-7,800.97	142.42	462.80	320.91	141.89	3.262			
19,250.00	11,701.51	19,076.00	11,536.50	72.85	72.33	-69.11	-7,850.97	142.60	462.88	320.35	142.53	3.248			
19,300.00	11,701.25	19,126.00	11,536.24	73.18	72.65	-69.12	-7,900.97	142.77	462.96	319.79	143.17	3.234			
19,350.00	11,700.99	19,176.00	11,535.98	73.49	72.96	-69.12	-7,950.96	142.94	463.05	319.23	143.82	3.220			
19,400.00	11,700.73	19,226.00	11,535.72	73.81	73.28	-69.13	-8,000.96	143.12	463.13	318.67	144.46	3.206			
19,450.00	11,700.47	19,276.00	11,535.46	74.12	73.60	-69.13	-8,050.96	143.29	463.21	318.10	145.10	3.192			
19,500.00	11,700.20	19,326.00	11,535.20	74.44	73.92	-69.13	-8,100.96	143.47	463.29	317.54	145.75	3.179			
19,512.37	11,700.14	19,338.37	11,535.13	74.51	74.00	-69.14	-8,113.33	143.51	463.31	317.40	145.91	3.175			

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design										PLU 29 BS - 122H - 122H Lateral - Plan #1				Offset Site Error: 0.00 usft			
Survey Program: 0-MWD+IFR1+MS														Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Reference	Offset	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)					
2,050.00	2,050.00	2,050.00	2,050.00	8.05	8.05	89.62		0.40	60.00	60.00	44.82	15.18	3.952				
2,100.00	2,100.00	2,100.00	2,100.00	8.23	8.23	89.62		0.40	60.00	60.00	44.45	15.54	3.860				
2,150.00	2,150.00	2,150.00	2,150.00	8.41	8.41	89.62		0.40	60.00	60.00	44.10	15.90	3.773				
2,200.00	2,200.00	2,200.00	2,200.00	8.59	8.59	89.62		0.40	60.00	60.00	43.74	16.26	3.690				
2,250.00	2,250.00	2,250.00	2,250.00	8.77	8.77	89.62		0.40	60.00	60.00	43.38	16.62	3.610				
2,300.00	2,300.00	2,300.00	2,300.00	8.95	8.95	89.62		0.40	60.00	60.00	43.02	16.98	3.533				
2,350.00	2,350.00	2,350.00	2,350.00	9.13	9.13	89.62		0.40	60.00	60.00	42.66	17.34	3.460				
2,400.00	2,400.00	2,400.00	2,400.00	9.31	9.31	89.62		0.40	60.00	60.00	42.30	17.70	3.390				
2,450.00	2,450.00	2,450.00	2,450.00	9.49	9.49	89.62		0.40	60.00	60.00	41.94	18.06	3.322				
2,500.00	2,500.00	2,500.00	2,500.00	9.67	9.67	89.62		0.40	60.00	60.00	41.58	18.42	3.258				
2,550.00	2,550.00	2,550.00	2,550.00	9.85	9.85	89.62		0.40	60.00	60.00	41.22	18.78	3.195				
2,600.00	2,600.00	2,600.00	2,600.00	10.03	10.03	89.62		0.40	60.00	60.00	40.86	19.14	3.135				
2,650.00	2,650.00	2,650.00	2,650.00	10.22	10.22	89.62		0.40	60.00	60.00	40.50	19.50	3.078				
2,700.00	2,700.00	2,700.00	2,700.00	10.40	10.40	89.62		0.40	60.00	60.00	40.15	19.86	3.022				
2,750.00	2,750.00	2,750.00	2,750.00	10.58	10.58	89.62		0.40	60.00	60.00	39.79	20.22	2.968				
2,800.00	2,800.00	2,800.00	2,800.00	10.75	10.75	89.62		0.40	60.00	60.00	39.43	20.57	2.916				
2,850.00	2,850.00	2,850.00	2,850.00	10.94	10.94	89.62		0.40	60.00	60.00	39.07	20.93	2.866				
2,900.00	2,900.00	2,900.00	2,900.00	11.12	11.12	89.62		0.40	60.00	60.00	38.71	21.29	2.818				
2,950.00	2,950.00	2,950.00	2,950.00	11.30	11.30	89.62		0.40	60.00	60.00	38.35	21.65	2.771				
3,000.00	3,000.00	3,000.00	3,000.00	11.48	11.48	89.62		0.40	60.00	60.00	37.99	22.01	2.726				
3,050.00	3,050.00	3,050.00	3,050.00	11.66	11.66	89.62		0.40	60.00	60.00	37.63	22.37	2.682				
3,100.00	3,100.00	3,100.00	3,100.00	11.84	11.84	89.62		0.40	60.00	60.00	37.27	22.73	2.640				
3,150.00	3,150.00	3,150.00	3,150.00	12.02	12.02	89.62		0.40	60.00	60.00	36.91	23.09	2.599				
3,200.00	3,200.00	3,200.00	3,200.00	12.20	12.20	89.62		0.40	60.00	60.00	36.55	23.45	2.559				
3,250.00	3,250.00	3,250.00	3,250.00	12.38	12.38	89.62		0.40	60.00	60.00	36.20	23.81	2.520				
3,300.00	3,300.00	3,300.00	3,300.00	12.56	12.56	89.62		0.40	60.00	60.00	35.84	24.17	2.483				
3,350.00	3,350.00	3,350.00	3,350.00	12.74	12.74	89.62		0.40	60.00	60.00	35.48	24.52	2.447				
3,400.00	3,400.00	3,400.00	3,400.00	12.92	12.92	89.62		0.40	60.00	60.00	35.12	24.88	2.411				
3,450.00	3,450.00	3,450.00	3,450.00	13.10	13.10	89.62		0.40	60.00	60.00	34.76	25.24	2.377				
3,500.00	3,500.00	3,500.00	3,500.00	13.28	13.28	89.62		0.40	60.00	60.00	34.40	25.60	2.344				
3,550.00	3,550.00	3,550.00	3,550.00	13.46	13.46	89.62		0.40	60.00	60.00	34.04	25.96	2.311				
3,600.00	3,600.00	3,600.00	3,600.00	13.64	13.64	89.62		0.40	60.00	60.00	33.68	26.32	2.280				
3,650.00	3,650.00	3,650.00	3,650.00	13.82	13.82	89.62		0.40	60.00	60.00	33.32	26.68	2.249				
3,700.00	3,700.00	3,700.00	3,700.00	14.00	14.00	89.62		0.40	60.00	60.00	32.96	27.04	2.219				
3,750.00	3,750.00	3,750.00	3,750.00	14.18	14.18	89.62		0.40	60.00	60.00	32.61	27.40	2.190				
3,800.00	3,800.00	3,800.00	3,800.00	14.35	14.35	89.62		0.40	60.00	60.00	32.25	27.75	2.162				
3,850.00	3,850.00	3,850.00	3,850.00	14.54	14.54	89.62		0.40	60.00	60.00	31.89	28.11	2.134				
3,900.00	3,900.00	3,900.00	3,900.00	14.72	14.72	89.62		0.40	60.00	60.00	31.53	28.47	2.107				
3,950.00	3,950.00	3,950.00	3,950.00	14.90	14.90	89.62		0.40	60.00	60.00	31.17	28.83	2.081				
4,000.00	4,000.00	4,000.00	4,000.00	15.08	15.08	89.62		0.40	60.00	60.00	30.81	29.19	2.056				
4,050.00	4,050.00	4,050.00	4,050.00	15.26	15.26	89.62		0.40	60.00	60.00	30.45	29.55	2.031				
4,100.00	4,100.00	4,100.00	4,100.00	15.44	15.44	89.62		0.40	60.00	60.00	30.09	29.91	2.006				
4,150.00	4,150.00	4,150.00	4,150.00	15.62	15.62	89.62		0.40	60.00	60.00	29.74	30.27	1.982				
4,200.00	4,200.00	4,200.00	4,200.00	15.80	15.80	89.62		0.40	60.00	60.00	29.38	30.62	1.959				
4,250.00	4,250.00	4,250.00	4,250.00	15.98	15.98	89.62		0.40	60.00	60.00	29.02	30.98	1.937				
4,300.00	4,300.00	4,300.00	4,300.00	16.16	16.16	89.62		0.40	60.00	60.00	28.66	31.34	1.914				
4,350.00	4,350.00	4,350.00	4,350.00	16.33	16.33	89.62		0.40	60.00	60.00	28.30	31.70	1.893				
4,400.00	4,400.00	4,400.00	4,400.00	16.51	16.51	89.62		0.40	60.00	60.00	27.94	32.06	1.872				
4,450.00	4,450.00	4,450.00	4,450.00	16.69	16.69	89.62		0.40	60.00	60.00	27.58	32.42	1.851				
4,500.00	4,500.00	4,500.00	4,500.00	16.87	16.87	89.62		0.40	60.00	60.00	27.22	32.78	1.831				
4,550.00	4,550.00	4,550.00	4,550.00	17.05	17.05	89.62		0.40	60.00	60.00	26.87	33.14	1.811				
4,600.00	4,600.00	4,600.00	4,600.00	17.23	17.23	89.62		0.40	60.00	60.00	26.51	33.49	1.791				

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 122H - 122H Lateral - Plan #1											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+IFR1+MS											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			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)	Highside Toolface (°)	+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,650.00	4,650.00	4,650.00	4,650.00	17.41	17.41	89.62	0.40	60.00	60.00	26.15	33.85	1.772	
4,700.00	4,700.00	4,700.00	4,700.00	17.59	17.59	89.62	0.40	60.00	60.00	25.79	34.21	1.754	
4,750.00	4,750.00	4,750.00	4,750.00	17.77	17.77	89.62	0.40	60.00	60.00	25.43	34.57	1.736	
4,800.00	4,800.00	4,800.00	4,800.00	17.95	17.95	89.62	0.40	60.00	60.00	25.07	34.93	1.718	
4,850.00	4,850.00	4,850.00	4,850.00	18.13	18.13	89.62	0.40	60.00	60.00	24.71	35.29	1.700	
4,900.00	4,900.00	4,900.00	4,900.00	18.31	18.31	89.62	0.40	60.00	60.00	24.35	35.65	1.683	
4,950.00	4,950.00	4,950.00	4,950.00	18.49	18.49	89.62	0.40	60.00	60.00	24.00	36.01	1.666	
5,000.00	5,000.00	5,000.00	5,000.00	18.67	18.67	89.62	0.40	60.00	60.00	23.64	36.36	1.650	
5,050.00	5,050.00	5,050.00	5,050.00	18.85	18.85	89.62	0.40	60.00	60.00	23.28	36.72	1.634	
5,100.00	5,100.00	5,100.00	5,100.00	19.03	19.03	89.62	0.40	60.00	60.00	22.92	37.08	1.618	
5,150.00	5,150.00	5,150.00	5,150.00	19.21	19.21	89.62	0.40	60.00	60.00	22.56	37.44	1.603	
5,200.00	5,200.00	5,200.00	5,200.00	19.39	19.39	89.62	0.40	60.00	60.00	22.20	37.80	1.587	
5,250.00	5,250.00	5,250.00	5,250.00	19.57	19.57	89.62	0.40	60.00	60.00	21.84	38.16	1.572	
5,300.00	5,300.00	5,300.00	5,300.00	19.75	19.75	89.62	0.40	60.00	60.00	21.48	38.52	1.558	
5,350.00	5,350.00	5,350.00	5,350.00	19.93	19.93	89.62	0.40	60.00	60.00	21.13	38.88	1.543	
5,400.00	5,400.00	5,400.00	5,400.00	20.11	20.11	89.62	0.40	60.00	60.00	20.77	39.23	1.529	
5,450.00	5,450.00	5,450.00	5,450.00	20.29	20.29	89.62	0.40	60.00	60.00	20.41	39.59	1.515	
5,500.00	5,500.00	5,500.00	5,500.00	20.47	20.47	89.62	0.40	60.00	60.00	20.05	39.95	1.502	
5,550.00	5,550.00	5,550.00	5,550.00	20.65	20.65	89.62	0.40	60.00	60.00	19.69	40.31	1.489 Level 3	
5,600.00	5,600.00	5,600.00	5,600.00	20.83	20.83	89.62	0.40	60.00	60.00	19.33	40.67	1.475 Level 3	
5,650.00	5,650.00	5,650.00	5,650.00	21.00	21.00	89.62	0.40	60.00	60.00	18.97	41.03	1.462 Level 3	
5,700.00	5,700.00	5,700.00	5,700.00	21.18	21.18	89.62	0.40	60.00	60.00	18.62	41.39	1.450 Level 3	
5,750.00	5,750.00	5,750.00	5,750.00	21.36	21.36	89.62	0.40	60.00	60.00	18.26	41.74	1.437 Level 3	
5,800.00	5,800.00	5,800.00	5,800.00	21.54	21.54	89.62	0.40	60.00	60.00	17.90	42.10	1.425 Level 3	
5,850.00	5,850.00	5,850.00	5,850.00	21.72	21.72	89.62	0.40	60.00	60.00	17.54	42.46	1.413 Level 3	
5,900.00	5,900.00	5,900.00	5,900.00	21.90	21.90	89.62	0.40	60.00	60.00	17.18	42.82	1.401 Level 3	
5,950.00	5,950.00	5,950.00	5,950.00	22.08	22.08	89.62	0.40	60.00	60.00	16.82	43.18	1.390 Level 3	
6,000.00	6,000.00	6,000.00	6,000.00	22.26	22.26	89.62	0.40	60.00	60.00	16.46	43.54	1.378 Level 3	
6,050.00	6,050.00	6,050.00	6,050.00	22.44	22.44	89.62	0.40	60.00	60.00	16.11	43.90	1.367 Level 3	
6,100.00	6,100.00	6,100.00	6,100.00	22.62	22.62	89.62	0.40	60.00	60.00	15.75	44.25	1.356 Level 3	
6,150.00	6,150.00	6,150.00	6,150.00	22.80	22.80	89.62	0.40	60.00	60.00	15.39	44.61	1.345 Level 3	
6,200.00	6,200.00	6,200.00	6,200.00	22.98	22.98	89.62	0.40	60.00	60.00	15.03	44.97	1.334 Level 3	
6,250.00	6,250.00	6,250.00	6,250.00	23.16	23.16	89.62	0.40	60.00	60.00	14.67	45.33	1.324 Level 3	
6,300.00	6,300.00	6,300.00	6,300.00	23.34	23.34	89.62	0.40	60.00	60.00	14.31	45.69	1.313 Level 3	
6,350.00	6,350.00	6,350.00	6,350.00	23.52	23.52	89.62	0.40	60.00	60.00	13.95	46.05	1.303 Level 3	
6,400.00	6,400.00	6,400.00	6,400.00	23.70	23.70	89.62	0.40	60.00	60.00	13.59	46.41	1.293 Level 3	
6,450.00	6,450.00	6,450.00	6,450.00	23.88	23.88	89.62	0.40	60.00	60.00	13.24	46.77	1.283 Level 3	
6,500.00	6,500.00	6,500.00	6,500.00	24.06	24.06	89.62	0.40	60.00	60.00	12.88	47.12	1.273 Level 3	
6,550.00	6,550.00	6,550.00	6,550.00	24.24	24.24	89.62	0.40	60.00	60.00	12.52	47.48	1.264 Level 3	
6,600.00	6,600.00	6,600.00	6,600.00	24.41	24.41	89.62	0.40	60.00	60.00	12.16	47.84	1.254 Level 3	
6,650.00	6,650.00	6,650.00	6,650.00	24.59	24.59	89.62	0.40	60.00	60.00	11.80	48.20	1.245 Level 2	
6,700.00	6,700.00	6,700.00	6,700.00	24.77	24.77	89.62	0.40	60.00	60.00	11.44	48.56	1.236 Level 2	
6,750.00	6,750.00	6,750.00	6,750.00	24.95	24.95	89.62	0.40	60.00	60.00	11.08	48.92	1.227 Level 2	
6,800.00	6,800.00	6,800.00	6,800.00	25.13	25.13	89.62	0.40	60.00	60.00	10.73	49.28	1.218 Level 2	
6,850.00	6,850.00	6,850.00	6,850.00	25.31	25.31	89.62	0.40	60.00	60.00	10.37	49.63	1.209 Level 2	
6,900.00	6,900.00	6,900.00	6,900.00	25.49	25.49	89.62	0.40	60.00	60.00	10.01	49.99	1.200 Level 2	
6,950.00	6,950.00	6,950.00	6,950.00	25.67	25.67	89.62	0.40	60.00	60.00	9.65	50.35	1.192 Level 2, CC	
6,950.02	6,950.02	6,950.02	6,950.02	25.67	25.67	89.62	0.40	60.00	60.00	9.65	50.35	1.192 Level 2	
7,000.00	7,000.00	7,000.00	7,000.00	25.84	25.85	-164.86	0.40	60.00	60.05	9.35	50.70	1.184 Level 2, ES, SF	
7,050.00	7,050.00	7,050.00	7,050.00	26.01	26.03	-165.01	0.40	60.00	60.62	9.56	51.07	1.187 Level 2	
7,100.00	7,099.98	7,099.98	7,099.98	26.17	26.21	-165.30	0.40	60.00	61.82	10.39	51.43	1.202 Level 2	
7,150.00	7,149.94	7,149.94	7,149.94	26.35	26.39	-165.73	0.40	60.00	63.66	11.84	51.82	1.228 Level 2	

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 122H - 122H Lateral - Plan #1												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+IFR1+MS												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Tooface (')	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)			
7,200.00	7,199.88	7,199.88	7,199.88	26.53	26.57	-166.26	0.40	60.00	66.14	13.92	52.22	1.266 Level 3	
7,250.00	7,249.78	7,249.78	7,249.78	26.71	26.75	-166.88	0.40	60.00	69.25	16.64	52.62	1.316 Level 3	
7,300.00	7,299.63	7,299.63	7,299.63	26.88	26.93	-167.56	0.40	60.00	73.02	20.00	53.01	1.377 Level 3	
7,350.00	7,349.44	7,349.44	7,349.44	27.05	27.10	-168.25	0.40	60.00	77.25	23.87	53.38	1.447 Level 3	
7,400.00	7,399.25	7,399.25	7,399.25	27.21	27.28	-168.87	0.40	60.00	81.52	27.77	53.75	1.517	
7,450.00	7,449.06	7,449.06	7,449.06	27.37	27.46	-169.43	0.40	60.00	85.80	31.69	54.11	1.586	
7,500.00	7,498.87	7,498.87	7,498.87	27.53	27.64	-169.94	0.40	60.00	90.08	35.61	54.48	1.654	
7,550.00	7,548.68	7,548.68	7,548.68	27.70	27.82	-170.40	0.40	60.00	94.37	39.54	54.84	1.721	
7,600.00	7,598.49	7,598.49	7,598.49	27.86	28.00	-170.82	0.40	60.00	98.67	43.47	55.20	1.788	
7,650.00	7,648.30	7,648.30	7,648.30	28.03	28.18	-171.21	0.40	60.00	102.97	47.41	55.56	1.853	
7,700.00	7,698.11	7,698.11	7,698.11	28.19	28.36	-171.56	0.40	60.00	107.28	51.36	55.92	1.919	
7,750.00	7,747.92	7,747.92	7,747.92	28.35	28.53	-171.89	0.40	60.00	111.59	55.31	56.27	1.983	
7,800.00	7,797.73	7,797.73	7,797.73	28.52	28.71	-172.19	0.40	60.00	115.90	59.27	56.63	2.047	
7,850.00	7,847.54	7,847.54	7,847.54	28.68	28.89	-172.48	0.40	60.00	120.22	63.23	56.99	2.110	
7,900.00	7,897.35	7,896.55	7,896.55	28.85	29.06	-172.72	0.38	60.09	124.62	67.29	57.33	2.174	
7,950.00	7,947.16	7,944.83	7,944.82	29.01	29.21	-172.84	0.21	60.71	129.55	71.90	57.66	2.247	
8,000.00	7,996.97	7,992.99	7,992.97	29.18	29.37	-172.86	-0.10	61.91	135.06	77.09	57.97	2.330	
8,050.00	8,046.78	8,041.02	8,040.67	29.34	29.53	-172.77	-0.57	63.70	141.14	82.86	58.28	2.422	
8,100.00	8,096.59	8,088.91	8,088.79	29.51	29.59	-172.60	-1.20	66.06	147.79	89.21	58.58	2.523	
8,150.00	8,146.40	8,136.64	8,136.42	29.68	29.84	-172.36	-1.97	69.00	155.02	96.15	58.87	2.633	
8,200.00	8,196.21	8,184.19	8,183.84	29.84	30.00	-172.06	-2.89	72.49	162.82	103.67	59.15	2.753	
8,250.00	8,246.02	8,232.73	8,232.20	30.01	30.16	-171.72	-3.95	76.53	171.09	111.63	59.46	2.877	
8,300.00	8,295.83	8,282.02	8,281.30	30.17	30.32	-171.39	-5.05	80.69	179.41	119.62	59.79	3.001	
8,350.00	8,345.64	8,331.32	8,330.41	30.34	30.48	-171.10	-6.14	84.84	187.74	127.62	60.12	3.123	
8,400.00	8,395.45	8,380.61	8,379.51	30.51	30.64	-170.83	-7.24	88.99	196.07	135.62	60.45	3.244	
8,450.00	8,445.26	8,429.90	8,428.62	30.67	30.80	-170.59	-8.33	93.15	204.41	143.63	60.78	3.363	
8,500.00	8,495.07	8,479.20	8,477.72	30.84	30.97	-170.36	-9.42	97.30	212.75	151.64	61.11	3.481	
8,550.00	8,544.88	8,528.49	8,526.63	31.01	31.13	-170.15	-10.52	101.46	221.09	159.65	61.44	3.598	
8,600.00	8,594.69	8,577.78	8,575.93	31.18	31.29	-169.95	-11.61	105.61	229.44	167.66	61.77	3.714	
8,650.00	8,644.50	8,627.07	8,625.04	31.34	31.45	-169.77	-12.71	109.76	237.78	175.68	62.10	3.829	
8,700.00	8,694.31	8,676.37	8,674.14	31.51	31.62	-169.60	-13.80	113.92	246.13	183.70	62.44	3.942	

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design										Offset Site Error: 0.00 usft			
Survey Program: 0-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	
1,000.00	1,000.00	1,000.00	1,000.00	4.21	4.21	-90.19	-0.10	-29.90	29.90	22.33	7.57	3.949	
1,050.00	1,050.00	1,050.00	1,050.00	4.39	4.39	-90.19	-0.10	-29.90	29.90	21.97	7.93	3.768	
1,100.00	1,100.00	1,100.00	1,100.00	4.58	4.58	-90.19	-0.10	-29.90	29.90	21.60	8.30	3.604	
1,150.00	1,150.00	1,150.00	1,150.00	4.75	4.76	-90.19	-0.10	-29.90	29.90	21.24	8.66	3.453	
1,200.00	1,200.00	1,200.00	1,200.00	4.95	4.95	-90.19	-0.10	-29.90	29.90	20.88	9.02	3.314	
1,250.00	1,250.00	1,250.00	1,250.00	5.13	5.13	-90.19	-0.10	-29.90	29.90	20.52	9.38	3.187	
1,300.00	1,300.00	1,300.00	1,300.00	5.31	5.31	-90.19	-0.10	-29.90	29.90	20.16	9.74	3.069	
1,350.00	1,350.00	1,350.00	1,350.00	5.50	5.50	-90.19	-0.10	-29.90	29.90	19.79	10.11	2.959	
1,400.00	1,400.00	1,400.00	1,400.00	5.68	5.68	-90.19	-0.10	-29.90	29.90	19.43	10.47	2.857	
1,450.00	1,450.00	1,450.00	1,450.00	5.86	5.86	-90.19	-0.10	-29.90	29.90	19.07	10.83	2.762	
1,500.00	1,500.00	1,500.00	1,500.00	6.05	6.05	-90.19	-0.10	-29.90	29.90	18.71	11.19	2.673	
1,550.00	1,550.00	1,550.00	1,550.00	6.23	6.23	-90.19	-0.10	-29.90	29.90	18.35	11.55	2.589	
1,600.00	1,600.00	1,600.00	1,600.00	6.41	6.41	-90.19	-0.10	-29.90	29.90	17.99	11.91	2.511	
1,650.00	1,650.00	1,650.00	1,650.00	6.59	6.59	-90.19	-0.10	-29.90	29.90	17.63	12.27	2.437	
1,700.00	1,700.00	1,700.00	1,700.00	6.78	6.78	-90.19	-0.10	-29.90	29.90	17.27	12.63	2.368	
1,750.00	1,750.00	1,750.00	1,750.00	6.96	6.96	-90.19	-0.10	-29.90	29.90	16.91	12.99	2.302	
1,800.00	1,800.00	1,800.00	1,800.00	7.14	7.14	-90.19	-0.10	-29.90	29.90	16.55	13.35	2.240	
1,850.00	1,850.00	1,850.00	1,850.00	7.32	7.32	-90.19	-0.10	-29.90	29.90	16.19	13.71	2.181	
1,900.00	1,900.00	1,900.00	1,900.00	7.50	7.50	-90.19	-0.10	-29.90	29.90	15.83	14.07	2.125	
1,950.00	1,950.00	1,950.00	1,950.00	7.68	7.68	-90.19	-0.10	-29.90	29.90	15.47	14.43	2.072	
2,000.00	2,000.00	2,000.00	2,000.00	7.87	7.87	-90.19	-0.10	-29.90	29.90	15.11	14.79	2.022	
2,050.00	2,050.00	2,050.00	2,050.00	8.05	8.05	-90.19	-0.10	-29.90	29.90	14.75	15.15	1.974	
2,100.00	2,100.00	2,100.00	2,100.00	8.23	8.23	-90.19	-0.10	-29.90	29.90	14.39	15.51	1.928	
2,150.00	2,150.00	2,150.00	2,150.00	8.41	8.41	-90.19	-0.10	-29.90	29.90	14.03	15.87	1.884	
2,200.00	2,200.00	2,200.00	2,200.00	8.59	8.59	-90.19	-0.10	-29.90	29.90	13.67	16.23	1.843	
2,250.00	2,250.00	2,250.00	2,250.00	8.77	8.77	-90.19	-0.10	-29.90	29.90	13.31	16.59	1.803	
2,300.00	2,300.00	2,300.00	2,300.00	8.95	8.95	-90.19	-0.10	-29.90	29.90	12.95	16.95	1.764	
2,350.00	2,350.00	2,350.00	2,350.00	9.13	9.13	-90.19	-0.10	-29.90	29.90	12.59	17.31	1.728	
2,400.00	2,400.00	2,400.00	2,400.00	9.31	9.31	-90.19	-0.10	-29.90	29.90	12.24	17.66	1.693	
2,450.00	2,450.00	2,450.00	2,450.00	9.49	9.49	-90.19	-0.10	-29.90	29.90	11.88	18.02	1.659	
2,500.00	2,500.00	2,500.00	2,500.00	9.67	9.67	-90.19	-0.10	-29.90	29.90	11.52	18.38	1.626	
2,550.00	2,550.00	2,550.00	2,550.00	9.85	9.85	-90.19	-0.10	-29.90	29.90	11.16	18.74	1.595	
2,600.00	2,600.00	2,600.00	2,600.00	10.03	10.03	-90.19	-0.10	-29.90	29.90	10.80	19.10	1.565	
2,650.00	2,650.00	2,650.00	2,650.00	10.22	10.22	-90.19	-0.10	-29.90	29.90	10.44	19.46	1.536	
2,700.00	2,700.00	2,700.00	2,700.00	10.40	10.40	-90.19	-0.10	-29.90	29.90	10.08	19.82	1.509	
2,750.00	2,750.00	2,750.00	2,750.00	10.58	10.58	-90.19	-0.10	-29.90	29.90	9.72	20.18	1.482 Level 3	
2,800.00	2,800.00	2,800.00	2,800.00	10.76	10.76	-90.19	-0.10	-29.90	29.90	9.36	20.54	1.456 Level 3	
2,850.00	2,850.00	2,850.00	2,850.00	10.94	10.94	-90.19	-0.10	-29.90	29.90	9.00	20.90	1.431 Level 3	
2,900.00	2,900.00	2,900.00	2,900.00	11.12	11.12	-90.19	-0.10	-29.90	29.90	8.64	21.26	1.407 Level 3	
2,950.00	2,950.00	2,950.00	2,950.00	11.30	11.30	-90.19	-0.10	-29.90	29.90	8.28	21.62	1.383 Level 3	
3,000.00	3,000.00	3,000.00	3,000.00	11.48	11.48	-90.19	-0.10	-29.90	29.90	7.93	21.97	1.361 Level 3	
3,050.00	3,050.00	3,050.00	3,050.00	11.66	11.66	-90.19	-0.10	-29.90	29.90	7.57	22.33	1.339 Level 3	
3,100.00	3,100.00	3,100.00	3,100.00	11.84	11.84	-90.19	-0.10	-29.90	29.90	7.21	22.69	1.318 Level 3	
3,150.00	3,150.00	3,150.00	3,150.00	12.02	12.02	-90.19	-0.10	-29.90	29.90	6.85	23.05	1.297 Level 3	
3,200.00	3,200.00	3,200.00	3,200.00	12.20	12.20	-90.19	-0.10	-29.90	29.90	6.49	23.41	1.277 Level 3	
3,250.00	3,250.00	3,250.00	3,250.00	12.38	12.38	-90.19	-0.10	-29.90	29.90	6.13	23.77	1.258 Level 3	
3,300.00	3,300.00	3,300.00	3,300.00	12.56	12.56	-90.19	-0.10	-29.90	29.90	5.77	24.13	1.239 Level 2	
3,350.00	3,350.00	3,350.00	3,350.00	12.74	12.74	-90.19	-0.10	-29.90	29.90	5.41	24.49	1.221 Level 2	
3,400.00	3,400.00	3,400.00	3,400.00	12.92	12.92	-90.19	-0.10	-29.90	29.90	5.05	24.85	1.203 Level 2	
3,450.00	3,450.00	3,450.00	3,450.00	13.10	13.10	-90.19	-0.10	-29.90	29.90	4.70	25.20	1.186 Level 2	
3,500.00	3,500.00	3,500.00	3,500.00	13.28	13.28	-90.19	-0.10	-29.90	29.90	4.34	25.56	1.170 Level 2	
3,550.00	3,550.00	3,550.00	3,550.00	13.46	13.46	-90.19	-0.10	-29.90	29.90	3.98	25.92	1.153 Level 2	

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design										Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+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)
3,600.00	3,600.00	3,600.00	3,600.00	13.64	13.64	-90.19	-0.10	-29.90	29.90	3.52	26.28	1.138 Level 2
3,650.00	3,650.00	3,650.00	3,650.00	13.82	13.82	-90.19	-0.10	-29.90	29.90	3.26	26.64	1.122 Level 2
3,700.00	3,700.00	3,700.00	3,700.00	14.00	14.00	-90.19	-0.10	-29.90	29.90	2.90	27.00	1.107 Level 2
3,750.00	3,750.00	3,750.00	3,750.00	14.18	14.18	-90.19	-0.10	-29.90	29.90	2.54	27.36	1.093 Level 2
3,800.00	3,800.00	3,800.00	3,800.00	14.36	14.36	-90.19	-0.10	-29.90	29.90	2.18	27.72	1.079 Level 2
3,850.00	3,850.00	3,850.00	3,850.00	14.54	14.54	-90.19	-0.10	-29.90	29.90	1.82	28.08	1.065 Level 2
3,900.00	3,900.00	3,900.00	3,900.00	14.72	14.72	-90.19	-0.10	-29.90	29.90	1.47	28.43	1.052 Level 2
3,950.00	3,950.00	3,950.00	3,950.00	14.90	14.90	-90.19	-0.10	-29.90	29.90	1.11	28.79	1.038 Level 2
4,000.00	4,000.00	4,000.00	4,000.00	15.08	15.08	-90.19	-0.10	-29.90	29.90	0.75	29.15	1.026 Level 2
4,050.00	4,050.00	4,050.00	4,050.00	15.25	15.25	-90.19	-0.10	-29.90	29.90	0.39	29.51	1.013 Level 2
4,100.00	4,100.00	4,100.00	4,100.00	15.44	15.44	-90.19	-0.10	-29.90	29.90	0.03	29.87	1.001 Level 2
4,150.00	4,150.00	4,150.00	4,150.00	15.62	15.62	-90.19	-0.10	-29.90	29.90	-0.33	30.23	0.989 Level 1
4,200.00	4,200.00	4,200.00	4,200.00	15.80	15.80	-90.19	-0.10	-29.90	29.90	-0.69	30.59	0.978 Level 1
4,250.00	4,250.00	4,250.00	4,250.00	15.98	15.98	-90.19	-0.10	-29.90	29.90	-1.05	30.95	0.966 Level 1
4,300.00	4,300.00	4,300.00	4,300.00	16.16	16.16	-90.19	-0.10	-29.90	29.90	-1.40	31.30	0.955 Level 1
4,350.00	4,350.00	4,350.00	4,350.00	16.33	16.33	-90.19	-0.10	-29.90	29.90	-1.75	31.66	0.944 Level 1
4,400.00	4,400.00	4,400.00	4,400.00	16.51	16.51	-90.19	-0.10	-29.90	29.90	-2.12	32.02	0.934 Level 1
4,450.00	4,450.00	4,450.00	4,450.00	16.69	16.69	-90.19	-0.10	-29.90	29.90	-2.48	32.38	0.923 Level 1
4,500.00	4,500.00	4,500.00	4,500.00	16.87	16.87	-90.19	-0.10	-29.90	29.90	-2.84	32.74	0.913 Level 1
4,550.00	4,550.00	4,550.00	4,550.00	17.05	17.05	-90.19	-0.10	-29.90	29.90	-3.20	33.10	0.903 Level 1
4,600.00	4,600.00	4,600.00	4,600.00	17.23	17.23	-90.19	-0.10	-29.90	29.90	-3.56	33.46	0.894 Level 1
4,650.00	4,650.00	4,650.00	4,650.00	17.41	17.41	-90.19	-0.10	-29.90	29.90	-3.92	33.82	0.884 Level 1
4,700.00	4,700.00	4,700.00	4,700.00	17.59	17.59	-90.19	-0.10	-29.90	29.90	-4.28	34.18	0.875 Level 1
4,750.00	4,750.00	4,750.00	4,750.00	17.77	17.77	-90.19	-0.10	-29.90	29.90	-4.63	34.53	0.866 Level 1
4,800.00	4,800.00	4,800.00	4,800.00	17.95	17.95	-90.19	-0.10	-29.90	29.90	-4.99	34.89	0.857 Level 1
4,850.00	4,850.00	4,850.00	4,850.00	18.13	18.13	-90.19	-0.10	-29.90	29.90	-5.35	35.25	0.848 Level 1
4,900.00	4,900.00	4,900.00	4,900.00	18.31	18.31	-90.19	-0.10	-29.90	29.90	-5.71	35.61	0.840 Level 1
4,950.00	4,950.00	4,950.00	4,950.00	18.49	18.49	-90.19	-0.10	-29.90	29.90	-6.07	35.97	0.831 Level 1
5,000.00	5,000.00	5,000.00	5,000.00	18.67	18.67	-90.19	-0.10	-29.90	29.90	-6.43	36.33	0.823 Level 1
5,050.00	5,050.00	5,050.00	5,050.00	18.85	18.85	-90.19	-0.10	-29.90	29.90	-6.79	36.69	0.815 Level 1
5,100.00	5,100.00	5,100.00	5,100.00	19.03	19.03	-90.19	-0.10	-29.90	29.90	-7.15	37.05	0.807 Level 1
5,150.00	5,150.00	5,150.00	5,150.00	19.21	19.21	-90.19	-0.10	-29.90	29.90	-7.51	37.41	0.799 Level 1
5,200.00	5,200.00	5,200.00	5,200.00	19.39	19.39	-90.19	-0.10	-29.90	29.90	-7.86	37.76	0.792 Level 1
5,250.00	5,250.00	5,250.00	5,250.00	19.57	19.57	-90.19	-0.10	-29.90	29.90	-8.22	38.12	0.784 Level 1
5,300.00	5,300.00	5,300.00	5,300.00	19.75	19.75	-90.19	-0.10	-29.90	29.90	-8.58	38.48	0.777 Level 1
5,350.00	5,350.00	5,350.00	5,350.00	19.93	19.93	-90.19	-0.10	-29.90	29.90	-8.94	38.84	0.770 Level 1
5,400.00	5,400.00	5,400.00	5,400.00	20.11	20.11	-90.19	-0.10	-29.90	29.90	-9.30	39.20	0.763 Level 1
5,450.00	5,450.00	5,450.00	5,450.00	20.29	20.29	-90.19	-0.10	-29.90	29.90	-9.66	39.56	0.756 Level 1
5,500.00	5,500.00	5,500.00	5,500.00	20.47	20.47	-90.19	-0.10	-29.90	29.90	-10.02	39.92	0.749 Level 1
5,550.00	5,550.00	5,550.00	5,550.00	20.65	20.65	-90.19	-0.10	-29.90	29.90	-10.38	40.28	0.742 Level 1
5,600.00	5,600.00	5,600.00	5,600.00	20.83	20.83	-90.19	-0.10	-29.90	29.90	-10.73	40.63	0.736 Level 1
5,650.00	5,650.00	5,650.00	5,650.00	21.00	21.00	-90.19	-0.10	-29.90	29.90	-11.09	40.99	0.729 Level 1
5,700.00	5,700.00	5,700.00	5,700.00	21.18	21.18	-90.19	-0.10	-29.90	29.90	-11.45	41.35	0.723 Level 1
5,750.00	5,750.00	5,750.00	5,750.00	21.36	21.36	-90.19	-0.10	-29.90	29.90	-11.81	41.71	0.717 Level 1
5,800.00	5,800.00	5,800.00	5,800.00	21.54	21.54	-90.19	-0.10	-29.90	29.90	-12.17	42.07	0.711 Level 1
5,850.00	5,850.00	5,850.00	5,850.00	21.72	21.72	-90.19	-0.10	-29.90	29.90	-12.53	42.43	0.705 Level 1
5,900.00	5,900.00	5,900.00	5,900.00	21.90	21.90	-90.19	-0.10	-29.90	29.90	-12.89	42.79	0.699 Level 1
5,950.00	5,950.00	5,950.00	5,950.00	22.08	22.08	-90.19	-0.10	-29.90	29.90	-13.25	43.15	0.693 Level 1
6,000.00	6,000.00	6,000.00	6,000.00	22.26	22.26	-90.19	-0.10	-29.90	29.90	-13.61	43.51	0.687 Level 1
6,050.00	6,050.00	6,050.00	6,050.00	22.44	22.44	-90.19	-0.10	-29.90	29.90	-13.96	43.86	0.682 Level 1
6,100.00	6,100.00	6,100.00	6,100.00	22.62	22.62	-90.19	-0.10	-29.90	29.90	-14.32	44.22	0.676 Level 1
6,150.00	6,150.00	6,150.00	6,150.00	22.80	22.80	-90.19	-0.10	-29.90	29.90	-14.68	44.58	0.671 Level 1

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 701H - 701H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-MWD+IFR1+MS										Offset Well Error: 0.00 usft			
Reference				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
6,200.00	6,200.00	6,200.00	6,200.00	22.98	22.98	-90.19	-0.10	-29.90	29.90	-15.04	44.94	0.665 Level 1	
6,250.00	6,250.00	6,250.00	6,250.00	23.16	23.16	-90.19	-0.10	-29.90	29.90	-15.40	45.30	0.660 Level 1	
6,300.00	6,300.00	6,300.00	6,300.00	23.34	23.34	-90.19	-0.10	-29.90	29.90	-15.76	45.66	0.655 Level 1	
6,350.00	6,350.00	6,350.00	6,350.00	23.52	23.52	-90.19	-0.10	-29.90	29.90	-16.12	46.02	0.650 Level 1	
6,400.00	6,400.00	6,400.00	6,400.00	23.70	23.70	-90.19	-0.10	-29.90	29.90	-16.48	46.38	0.645 Level 1	
6,450.00	6,450.00	6,450.00	6,450.00	23.88	23.88	-90.19	-0.10	-29.90	29.90	-16.83	46.74	0.640 Level 1	
6,500.00	6,500.00	6,500.00	6,500.00	24.05	24.06	-90.19	-0.10	-29.90	29.90	-17.19	47.09	0.635 Level 1	
6,550.00	6,550.00	6,550.00	6,550.00	24.24	24.24	-90.19	-0.10	-29.90	29.90	-17.55	47.45	0.630 Level 1	
6,600.00	6,600.00	6,600.00	6,600.00	24.41	24.41	-90.19	-0.10	-29.90	29.90	-17.91	47.81	0.625 Level 1	
6,650.00	6,650.00	6,650.00	6,650.00	24.59	24.59	-90.19	-0.10	-29.90	29.90	-18.27	48.17	0.621 Level 1	
6,700.00	6,700.00	6,700.00	6,700.00	24.77	24.77	-90.19	-0.10	-29.90	29.90	-18.63	48.53	0.616 Level 1	
6,750.00	6,750.00	6,750.00	6,750.00	24.95	24.95	-90.19	-0.10	-29.90	29.90	-18.99	48.89	0.612 Level 1	
6,800.00	6,800.00	6,800.00	6,800.00	25.13	25.13	-90.19	-0.10	-29.90	29.90	-19.35	49.25	0.607 Level 1	
6,850.00	6,850.00	6,850.00	6,850.00	25.31	25.31	-90.19	-0.10	-29.90	29.90	-19.70	49.61	0.603 Level 1	
6,900.00	6,900.00	6,900.00	6,900.00	25.49	25.49	-90.19	-0.10	-29.90	29.90	-20.06	49.96	0.598 Level 1	
6,950.00	6,950.00	6,950.00	6,950.00	25.67	25.67	-90.19	-0.10	-29.90	29.90	-20.42	50.32	0.594 Level 1	
7,000.00	7,000.00	7,000.00	7,000.00	25.84	25.85	15.37	-0.10	-29.90	29.85	-20.83	50.68	0.589 Level 1	
7,050.00	7,050.00	7,050.00	7,050.00	26.01	26.03	15.67	-0.10	-29.90	29.28	-21.74	51.02	0.574 Level 1	
7,100.00	7,099.98	7,099.98	7,099.98	26.17	26.21	16.37	-0.10	-29.90	28.09	-23.27	51.35	0.547 Level 1	
7,150.00	7,149.94	7,149.94	7,149.94	26.35	26.39	17.54	-0.10	-29.90	26.27	-25.42	51.69	0.508 Level 1	
7,200.00	7,199.88	7,199.88	7,199.88	26.53	26.57	19.40	-0.10	-29.90	23.85	-28.15	52.00	0.459 Level 1	
7,250.00	7,249.78	7,249.78	7,249.78	26.71	26.75	22.34	-0.10	-29.90	20.85	-31.43	52.28	0.399 Level 1	
7,300.00	7,299.63	7,299.63	7,299.63	26.88	26.93	27.21	-0.10	-29.90	17.35	-35.16	52.50	0.330 Level 1	
7,350.00	7,349.44	7,349.44	7,349.44	27.05	27.11	35.56	-0.10	-29.90	13.64	-38.98	52.62	0.259 Level 1	
7,400.00	7,399.25	7,399.25	7,399.25	27.21	27.29	49.62	-0.10	-29.90	10.40	-42.29	52.69	0.197 Level 1	
7,450.00	7,449.06	7,449.03	7,449.03	27.37	27.45	71.87	-0.16	-30.09	8.32	-44.67	52.99	0.157 Level 1	
7,486.77	7,485.69	7,485.70	7,485.69	27.49	27.58	90.40	-0.32	-30.62	7.89	-45.68	53.57	0.147 Level 1, CC, SF	
7,500.00	7,498.87	7,498.90	7,498.89	27.53	27.62	96.67	-0.40	-30.89	7.94	-45.89	53.83	0.147 Level 1	
7,550.00	7,548.68	7,548.85	7,548.82	27.70	27.80	115.76	-0.83	-32.31	8.72	-45.94	54.66	0.159 Level 1, ES	
7,600.00	7,598.49	7,598.87	7,598.79	27.86	27.97	127.60	-1.46	-34.37	9.84	-45.19	55.03	0.179 Level 1	
7,650.00	7,648.30	7,648.94	7,648.78	28.03	28.14	134.39	-2.28	-37.05	10.82	-44.30	55.11	0.196 Level 1	
7,700.00	7,698.11	7,698.99	7,698.72	28.19	28.31	138.16	-3.26	-40.29	11.46	-43.77	55.23	0.208 Level 1	
7,750.00	7,747.92	7,748.98	7,748.59	28.35	28.47	141.22	-4.28	-43.62	12.07	-43.45	55.53	0.217 Level 1	
7,800.00	7,797.73	7,798.97	7,798.46	28.52	28.63	143.98	-5.29	-46.96	12.72	-43.17	55.88	0.228 Level 1	
7,850.00	7,847.54	7,848.96	7,848.33	28.68	28.80	146.47	-6.31	-50.29	13.38	-42.83	56.22	0.238 Level 1	
7,900.00	7,897.35	7,898.96	7,898.20	28.85	28.96	148.72	-7.32	-53.63	14.07	-42.45	56.53	0.249 Level 1	
7,950.00	7,947.16	7,948.95	7,948.07	29.01	29.12	150.76	-8.34	-56.96	14.79	-42.07	56.86	0.260 Level 1	
8,000.00	7,996.97	7,998.94	7,997.54	29.18	29.29	152.61	-9.35	-60.30	15.51	-41.67	57.19	0.271 Level 1	
8,050.00	8,046.78	8,048.93	8,047.81	29.34	29.45	154.29	-10.36	-63.63	16.26	-41.27	57.53	0.283 Level 1	
8,100.00	8,096.59	8,098.93	8,097.68	29.51	29.62	155.82	-11.38	-66.96	17.01	-40.85	57.86	0.294 Level 1	
8,150.00	8,146.40	8,148.92	8,147.55	29.68	29.78	157.22	-12.39	-70.30	17.78	-40.42	58.20	0.305 Level 1	
8,200.00	8,196.21	8,198.91	8,197.42	29.84	29.95	158.50	-13.41	-73.63	18.55	-39.99	58.55	0.317 Level 1	
8,250.00	8,246.02	8,248.90	8,247.29	30.01	30.11	159.69	-14.42	-76.97	19.34	-39.54	58.88	0.328 Level 1	
8,300.00	8,295.83	8,298.89	8,297.16	30.17	30.27	160.77	-15.44	-80.30	20.13	-39.12	59.26	0.340 Level 1	
8,350.00	8,345.64	8,348.89	8,347.03	30.34	30.44	161.78	-16.45	-83.64	20.93	-38.67	59.60	0.351 Level 1	
8,400.00	8,395.45	8,398.88	8,396.91	30.51	30.60	162.71	-17.47	-86.97	21.74	-38.19	59.92	0.363 Level 1	
8,450.00	8,445.26	8,448.87	8,445.78	30.67	30.77	163.58	-18.48	-90.30	22.55	-37.75	60.30	0.374 Level 1	
8,500.00	8,495.07	8,498.86	8,496.65	30.84	30.94	164.38	-19.50	-93.64	23.36	-37.31	60.67	0.385 Level 1	
8,550.00	8,544.88	8,548.86	8,546.52	31.01	31.10	165.13	-20.51	-96.97	24.18	-36.83	61.01	0.396 Level 1	
8,600.00	8,594.69	8,598.85	8,596.39	31.18	31.27	165.83	-21.53	-100.31	25.00	-36.35	61.36	0.408 Level 1	
8,650.00	8,644.50	8,648.84	8,645.26	31.34	31.43	166.49	-22.54	-103.64	25.83	-35.91	61.74	0.418 Level 1	
8,700.00	8,694.31	8,698.83	8,695.13	31.51	31.60	167.10	-23.56	-106.98	26.66	-35.42	62.08	0.429 Level 1	

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 701H - 701H Lateral - Plan #1										Offset Site Error: 0.00 usft			
Survey Program: 0-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
8,750.00	8,744.12	8,748.83	8,748.00	31.68	31.77	167.68	-24.57	-110.31	27.49	-34.95	62.44	0.440	Level 1
8,800.00	8,793.93	8,798.82	8,795.87	31.85	31.93	168.22	-25.58	-113.65	28.33	-34.48	62.81	0.451	Level 1
8,850.00	8,843.74	8,848.81	8,845.74	32.02	32.10	168.74	-26.60	-116.98	29.17	-33.99	63.16	0.462	Level 1
8,900.00	8,893.55	8,898.80	8,895.61	32.18	32.27	169.22	-27.61	-120.31	30.01	-33.51	63.51	0.472	Level 1
8,950.00	8,943.36	8,948.79	8,945.46	32.35	32.43	169.68	-28.63	-123.65	30.85	-33.03	63.88	0.483	Level 1
9,000.00	8,993.17	8,998.79	8,995.35	32.52	32.60	170.11	-29.64	-126.98	31.69	-32.53	64.22	0.494	Level 1
9,050.00	9,042.98	9,048.78	9,045.22	32.69	32.77	170.52	-30.66	-130.32	32.54	-32.05	64.59	0.504	Level 1
9,100.00	9,092.79	9,098.77	9,095.10	32.86	32.93	170.91	-31.67	-133.65	33.39	-31.56	64.95	0.514	Level 1
9,150.00	9,142.60	9,148.76	9,144.97	33.03	33.10	171.28	-32.69	-136.99	34.24	-31.06	65.30	0.524	Level 1
9,200.00	9,192.41	9,198.76	9,194.84	33.20	33.27	171.64	-33.70	-140.32	35.09	-30.58	65.66	0.534	Level 1
9,250.00	9,242.22	9,248.75	9,244.71	33.37	33.44	171.97	-34.72	-143.65	35.94	-30.07	66.01	0.544	Level 1
9,300.00	9,292.03	9,298.74	9,294.58	33.54	33.61	172.29	-35.73	-146.99	36.79	-29.59	66.38	0.554	Level 1
9,350.00	9,341.84	9,348.73	9,344.45	33.71	33.77	172.60	-36.75	-150.32	37.64	-29.08	66.72	0.564	Level 1
9,400.00	9,391.65	9,398.73	9,394.32	33.87	33.94	172.89	-37.76	-153.66	38.50	-28.59	67.09	0.574	Level 1
9,450.00	9,441.46	9,448.72	9,444.19	34.04	34.11	173.17	-38.78	-156.99	39.35	-28.09	67.45	0.583	Level 1
9,500.00	9,491.27	9,498.71	9,494.06	34.21	34.28	173.44	-39.79	-160.33	40.21	-27.59	67.81	0.593	Level 1
9,550.00	9,541.08	9,548.70	9,543.93	34.38	34.45	173.70	-40.81	-163.66	41.07	-27.09	68.15	0.603	Level 1
9,600.00	9,590.89	9,598.70	9,593.80	34.55	34.62	173.94	-41.82	-166.99	41.93	-26.58	68.50	0.612	Level 1
9,650.00	9,640.70	9,648.69	9,643.67	34.73	34.79	174.18	-42.83	-170.33	42.79	-26.09	68.88	0.621	Level 1
9,700.00	9,690.51	9,698.68	9,693.54	34.90	34.95	174.41	-43.85	-173.66	43.65	-25.58	69.23	0.630	Level 1
9,750.00	9,740.32	9,748.67	9,743.41	35.07	35.12	174.62	-44.86	-177.00	44.51	-25.07	69.57	0.640	Level 1
9,800.00	9,790.13	9,798.66	9,793.28	35.24	35.29	174.83	-45.88	-180.33	45.37	-24.57	69.94	0.649	Level 1
9,850.00	9,839.94	9,848.66	9,843.16	35.41	35.46	175.04	-46.89	-183.67	46.23	-24.06	70.29	0.658	Level 1
9,900.00	9,889.75	9,898.65	9,893.03	35.58	35.63	175.23	-47.91	-187.00	47.09	-23.56	70.65	0.667	Level 1
9,950.00	9,939.56	9,948.64	9,942.90	35.75	35.80	175.42	-48.92	-190.33	47.95	-23.05	71.00	0.675	Level 1
10,000.00	9,989.37	9,998.63	9,992.77	35.92	35.97	175.60	-49.94	-193.67	48.82	-22.54	71.36	0.684	Level 1
10,050.00	10,039.18	10,048.63	10,042.64	36.09	36.14	175.77	-50.95	-197.00	49.68	-22.04	71.72	0.693	Level 1
10,100.00	10,088.99	10,098.62	10,092.51	36.25	36.31	175.94	-51.97	-200.34	50.54	-21.52	72.06	0.701	Level 1
10,150.00	10,138.80	10,148.61	10,142.38	36.44	36.48	176.11	-52.98	-203.67	51.41	-21.01	72.42	0.710	Level 1
10,200.00	10,188.61	10,198.60	10,192.25	36.61	36.65	176.26	-54.00	-207.01	52.27	-20.51	72.78	0.718	Level 1
10,250.00	10,238.42	10,248.60	10,242.12	36.78	36.82	176.42	-55.01	-210.34	53.14	-19.99	73.13	0.727	Level 1
10,300.00	10,288.23	10,298.59	10,291.99	36.95	36.99	176.56	-56.03	-213.67	54.00	-19.49	73.49	0.735	Level 1
10,350.00	10,338.04	10,348.58	10,341.86	37.12	37.16	176.71	-57.04	-217.01	54.87	-18.97	73.84	0.743	Level 1
10,400.00	10,387.85	10,398.57	10,391.73	37.29	37.33	176.84	-58.05	-220.34	55.74	-18.46	74.19	0.751	Level 1
10,450.00	10,437.66	10,448.56	10,441.60	37.47	37.50	176.98	-59.07	-223.68	56.60	-17.95	74.56	0.759	Level 1
10,500.00	10,487.47	10,498.56	10,491.47	37.64	37.67	177.11	-60.08	-227.01	57.47	-17.44	74.91	0.767	Level 1
10,550.00	10,537.28	10,548.55	10,541.34	37.81	37.85	177.24	-61.10	-230.35	58.34	-16.93	75.26	0.775	Level 1
10,600.00	10,587.09	10,598.54	10,591.22	37.98	38.02	177.36	-62.11	-233.68	59.20	-16.41	75.61	0.783	Level 1
10,650.00	10,636.90	10,648.53	10,641.09	38.15	38.19	177.48	-63.13	-237.01	60.04	-15.92	75.96	0.790	Level 1
10,700.00	10,686.76	10,698.53	10,690.96	38.33	38.36	177.57	-64.14	-240.35	60.26	-16.05	76.31	0.790	Level 1
10,750.00	10,736.68	10,748.53	10,740.84	38.52	38.53	177.62	-65.16	-243.68	59.60	-17.08	76.68	0.777	Level 1
10,800.00	10,786.64	10,798.50	10,790.69	38.71	38.70	177.64	-66.17	-247.02	58.07	-18.97	77.04	0.754	Level 1
10,850.00	10,836.63	10,848.45	10,840.51	38.88	38.87	177.62	-67.19	-250.35	55.67	-21.71	77.38	0.719	Level 1
10,900.00	10,886.63	10,898.34	10,890.28	39.05	39.04	172.04	-68.20	-253.68	52.43	-25.28	77.71	0.675	Level 1
10,950.00	10,936.63	10,948.22	10,940.04	39.23	39.22	171.96	-69.21	-257.00	48.95	-29.08	78.03	0.627	Level 1
11,000.00	10,986.63	10,998.10	10,989.80	39.41	39.39	171.88	-70.22	-260.33	45.46	-32.92	78.38	0.580	Level 1
11,050.00	11,036.63	11,047.98	11,039.56	39.58	39.56	171.78	-71.24	-263.66	41.98	-36.73	78.71	0.533	Level 1
11,100.00	11,086.63	11,097.85	11,089.31	39.75	39.73	108.46	-72.25	-266.98	38.53	-40.51	79.04	0.487	Level 1
11,150.00	11,136.55	11,147.71	11,139.05	39.93	39.90	-112.78	-73.26	-270.31	35.97	-43.42	79.39	0.453	Level 1
11,186.82	11,173.13	11,184.29	11,175.53	40.07	40.03	-119.45	-74.00	-272.75	35.26	-44.41	79.67	0.443	Level 1
11,200.00	11,186.17	11,197.33	11,188.54	40.11	40.07	-122.48	-74.27	-273.62	35.37	-44.41	79.78	0.443	Level 1
11,250.00	11,235.24	11,246.47	11,237.57	40.30	40.24	-135.72	-75.26	-276.89	38.23	-41.97	80.20	0.477	Level 1

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

Anticollision Report

Company: XTO Energy
 Project: Eddy County, NM (NAD27) NMEZ Grid
 Reference Site: PLU 29 BS
 Site Error: 0.00 usft
 Reference Well: 901H
 Well Error: 0.00 usft
 Reference Wellbore: 901H Lateral
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 901H - Slot PLU29 BS 901H SHL
 TVD Reference: 3364+25 @ 3389.00usft (T E101)
 MD Reference: 3364+25 @ 3389.00usft (T E101)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: STRYKER_EDM
 Offset TVD Reference: Offset Datum

Offset Design PLU 29 BS - 701H - 701H Lateral - Plan #1

Survey Program: 0-MWD+IFR1+MS

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	
11,300.00	11,283.52	11,294.90	11,285.88	40.49	40.41	-148.70	-76.25	-280.12	45.83	-34.76	80.59	0.569 Level 1	
11,350.00	11,330.78	11,342.37	11,333.24	40.69	40.57	-158.80	-77.21	-283.29	58.35	-22.61	80.96	0.721 Level 1	
11,400.00	11,376.79	11,388.67	11,379.42	40.87	40.73	-165.82	-78.15	-286.38	75.32	-5.98	81.30	0.926 Level 1	
11,450.00	11,421.33	11,433.55	11,424.20	41.05	40.89	-170.56	-79.06	-289.37	96.19	14.56	81.63	1.178 Level 2	
11,500.00	11,464.17	11,476.81	11,467.35	41.23	41.04	-173.77	-79.94	-292.26	120.56	38.62	81.93	1.471 Level 3	
11,550.00	11,505.12	11,518.24	11,508.67	41.39	41.18	-175.99	-80.78	-295.02	148.12	65.90	82.23	1.801	
11,600.00	11,543.94	11,557.33	11,547.67	41.52	41.31	-177.55	-81.56	-297.60	178.69	96.20	82.48	2.166	
11,650.00	11,580.04	11,593.19	11,583.47	41.64	41.44	-178.54	-82.18	-299.61	212.58	129.85	82.72	2.570	
11,700.00	11,612.99	11,625.81	11,618.06	41.78	41.56	-179.15	-82.62	-301.08	249.69	166.73	82.96	3.010	
11,750.00	11,642.53	11,654.95	11,645.17	41.89	41.67	-179.53	-82.93	-302.08	289.69	206.52	83.17	3.483	
11,800.00	11,668.45	11,680.38	11,670.59	41.98	41.76	-179.75	-83.13	-302.73	332.23	248.88	83.35	3.986	

Offset Site Error: 0.00 usft
 Offset Well Error: 0.00 usft

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-0061634B
WELL NAME & NO.:	Poker Lake Unit 29 BS 901H
SURFACE HOLE FOOTAGE:	2310' FNL & 0630' FWL
BOTTOM HOLE FOOTAGE	0200' FSL & 0330' FWL Sec. 32, T. 25 S., R 31 E.
LOCATION:	Section 29, T. 25 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Commercial Well Determination

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

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.

A. DRILLING OPERATIONS 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. **Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. 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. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**

3. 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.
4. 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 is located, this does not include the dog house or stairway area.
5. 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.

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile:

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately 1050 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - 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 is to include the lead cement slurry.**
 - 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

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

- ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required through the curve and a minimum of one every other joint.

3. The minimum required fill of cement behind the 7 inch production casing is:

- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 4-1/2 inch production Liner is:

- ☒ Cement as proposed. Operator shall provide method of verification.

5. 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.

C. 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 53.
2. Variance approved to use flex line from BOP to choke manifold. 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.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. 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 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. Operator shall perform the 9-5/8" and 7" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - e. 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.

5M 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.

4. 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

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