District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 1 1 2019

RECEIVED

GAS CAPTURE PLAN

Date: 11-30-18

☐ Original

☒ Amended - Reason for Amendment: SHL & Name Change

Operator & OGRID No.: XTO Energy, Inc [005380]

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Corral Canyon 10 East CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location	Footages	Expected MCF/D	Flared or Vented	Comments
Corral Canyo 3-34 Fed 128H	30-015-45428	A-10-25S-29E	185'FNL & 854'FEL	2500	Flared/Sold	CTB Connected to P/L

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ENLINK and will be connected to ENLINK low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO ENERGY, INC provides (periodically) to ENLINK a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO ENERGY, INC and ENLINK have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ENLINK Processing Plant located in Block 27, Section 4, Loving County TX. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ENLINK's system at that time. Based on current information, it is XTO ENERGY, INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

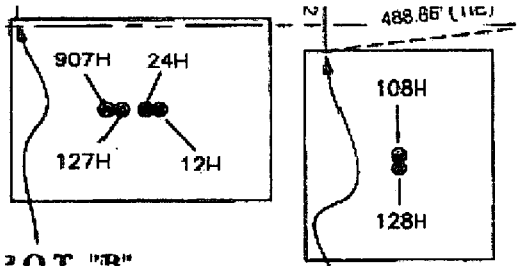
- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

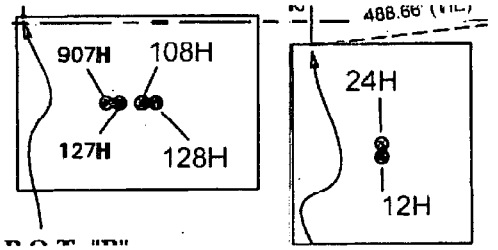
PERMITTED PLAN

Current Well Name	Formation	Permitted SHL	Permitted BHL
CORRAL CANYON 3-34 FED 907H	BONESPRING	A -10-25S-29E 185 FNL & 944 FEL	A -34-24S-29E 200 FNL & 952 FEL
CORRAL CANYON 3-34 FED 127H	WOLFCAMP	A -10-25S-29E 185 FNL & 914 FEL	A -34-24S-29E 200 FNL & 952 FEL
CORRAL CANYON 3-34 FED 108H	WOLFCAMP	A -10-25S-29E 285 FNL & 330 FEL	A -34-24S-29E 200 FNL & 330 FEL
CORRAL CANYON FEDERAL 24H	BONESPRING	A -10-25S-29E 185 FNL & 885 FEL	A -34-24S-29E 200 FNL & 660 FEL
CORRAL CANYON FEDERAL 12H	BONESPRING	A -10-25S-29E 185 FNL & 835 FEL	P -15-25S-29E 200 FSL & 660 FEL
CORRAL CANYON 3-34 FED 128H	WOLFCAMP	A -10-25S-29E 315 FNL & 330 FEL	A -34-24S-29E 200 FNL & 330 FEL

SUNDRY CHANGES

Well Name Change	Formation	Updated SHL		Updated BHL
CORRAL CANYON 3-34 FED 907H	BONESPRING	A -10-25S-29E	185 FNL & 944 FEL	L1 -3-25S-29E 50 FNL & 961 FEL
CORRAL CANYON 3-34 FED 127H	WOLFCAMP	A -10-25S-29E	185 FNL & 914 FEL	L1 -3-25S-29E 200 FNL & 961 FEL
CORRAL CANYON FEDERAL 24H	BONESPRING	A -10-25S-29E	285 FNL & 330 FEL	L1 -3-25S-29E 50 FNL & 660 FEL
CORRAL CANYON 3-34 FED 108H	WOLFCAMP	A -10-25S-29E	185'FNL & 884'FEL	L1 -3-25S-29E 200 FNL & 330 FEL
CORRAL CANYON 3-34 FED 128H	WOLFCAMP	A -10-25S-29E	185'FNL & 854'FEL	L1 -3-25S-29E 200 FNL & 330 FEL
CORRAL CANYON 10-15 FED 12H	BONESPRING	A -10-25S-29E	315'FNL & 330'FEL	P -15-25S-29E 50 FSL & 660 FEL





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

XTO Energy Inc.
Corral Canyon 3-34 Federal 128H
Projected TD: 15547' MD / 10419' TVD
SHL: 185' FNL & 854' FEL , Section 10, T25S, R29E
BHL: 200' FNL & 330' FEL , Section 3, T25S, R29E
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	585'	Water
Top of Salt	854'	Water
Base of Salt	2968'	Water
Delaware	3151'	Water
Bone Spring Lm	6892'	Water/Oil/Gas
1st Bone Spring Ss	7825'	Water/Oil/Gas
2nd Bone Spring Ss	8697'	Water/Oil/Gas
3rd Bone Spring Ss	9749'	Water/Oil/Gas
Target/Land Curve	10419'	Water/Oil/Gas

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 @ 647' (100' into the Rustler) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 9100'. A DV tool will be set @ 697' (100' below the surface shoe). Cement will be circulated to surface. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back at least 500' into the intermediate casing.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 647'	13-3/8"	54.5	STC	J-55	New	0.98	3.91	14.58
12-1/4"	0' – 9100'	9-5/8"	40	LTC	HCL-80	New	1.84	1.50	2.30
8-3/4" x 8-1/2"	0' – 15547'	5-1/2"	17	BTC	P-110	New	1.12	1.38	2.58

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

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

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Manufacturer will witness installation of test plug for initial test.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, STC casing to be set at +/- 647'

Lead: 250 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

Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 9100'

First Stage

Lead: 2610 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 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

If losses are severe, a DV tool will be set @ 697' (100' below the surface shoe).

Second Stage

Lead: 230 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 180 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

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 15547'

Lead: 150 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)

Tail: 1160 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

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3126 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 nippling up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 9-5/8", 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 647'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
647' to 9100'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
9100' to 15547'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer	9.7 - 10	29-32	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 9.8ppg-10.2ppg 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. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. Logging, Coring and Testing Program

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

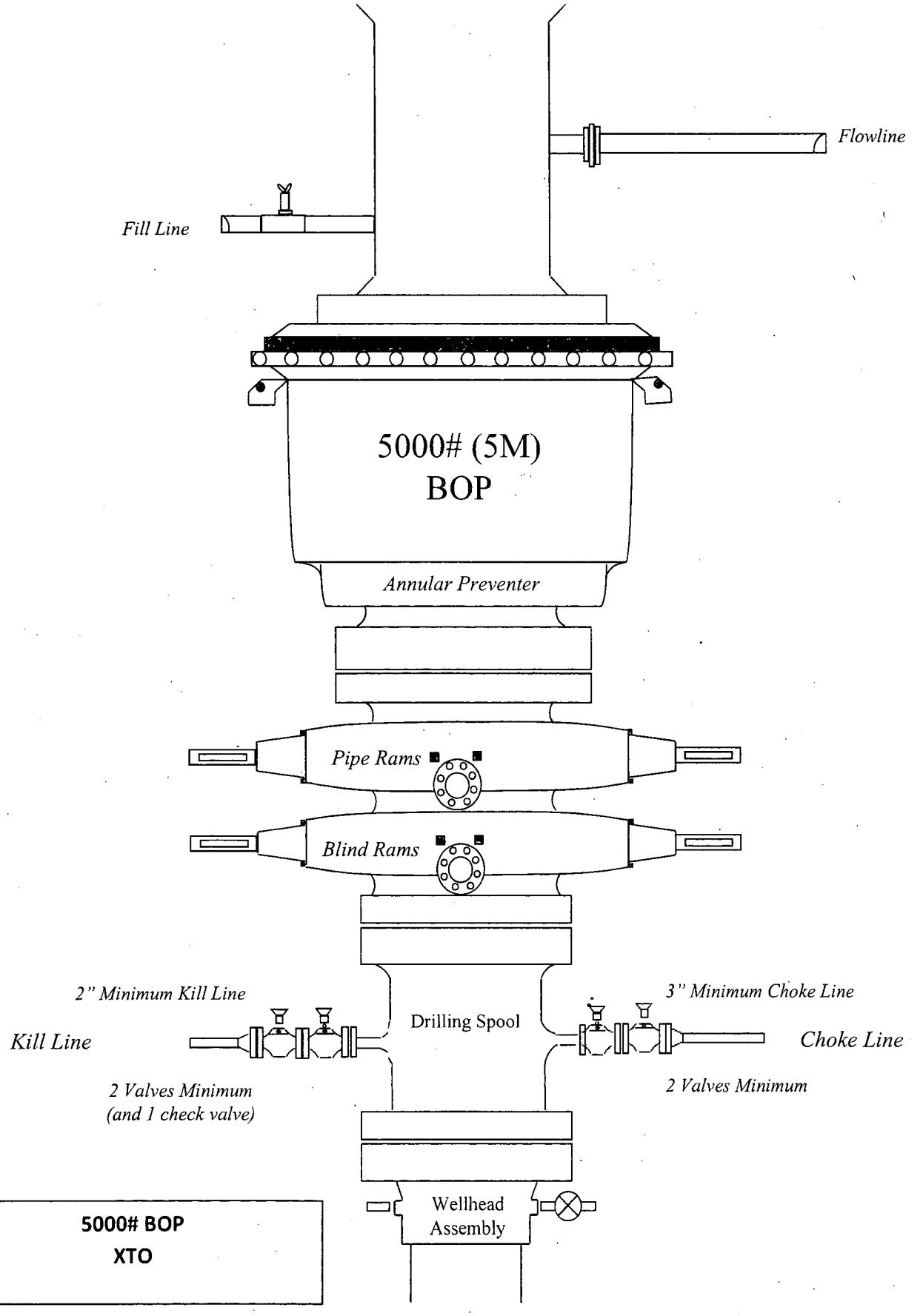
Open hole logging will not be done on this well.

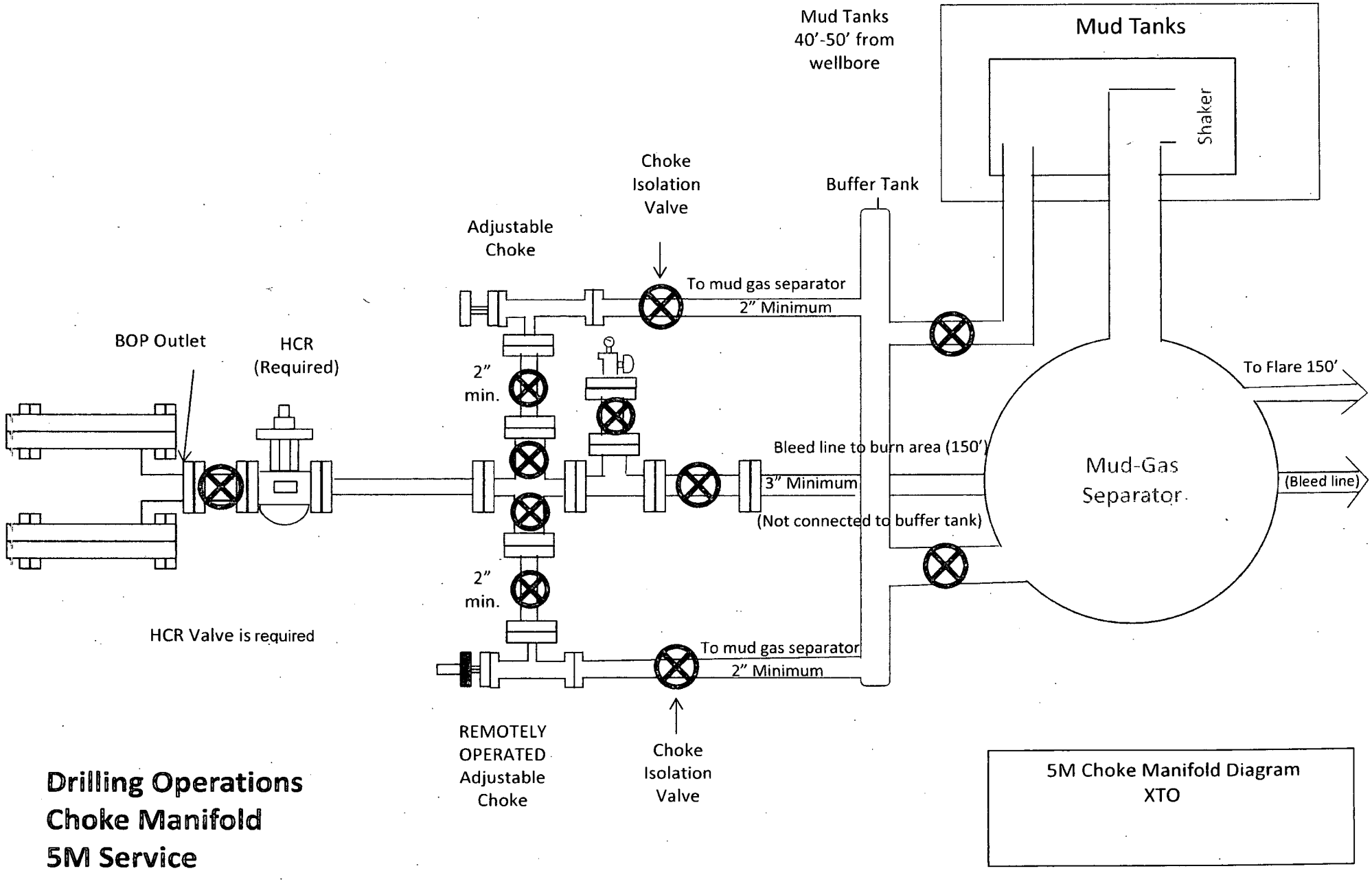
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 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 5418 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 40 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.


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
3" Minimum Choke Line
Kill Line
Drilling Spool
Choke Line
2 Valves Minimum
(and 1 check valve)
2 Valves Minimum
Wellhead
Assembly
5000# BOP
XTO



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO

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

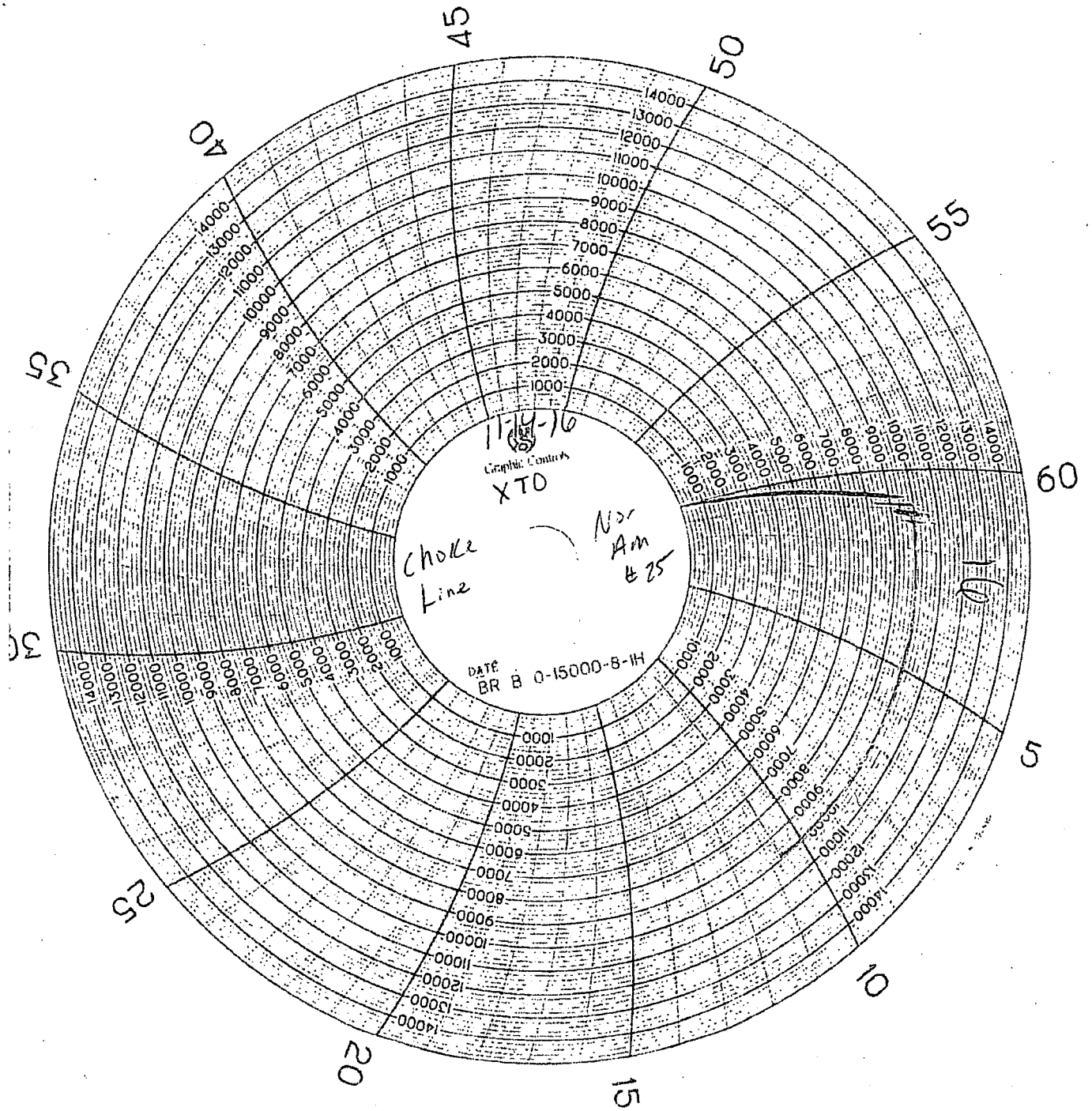
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/6/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA

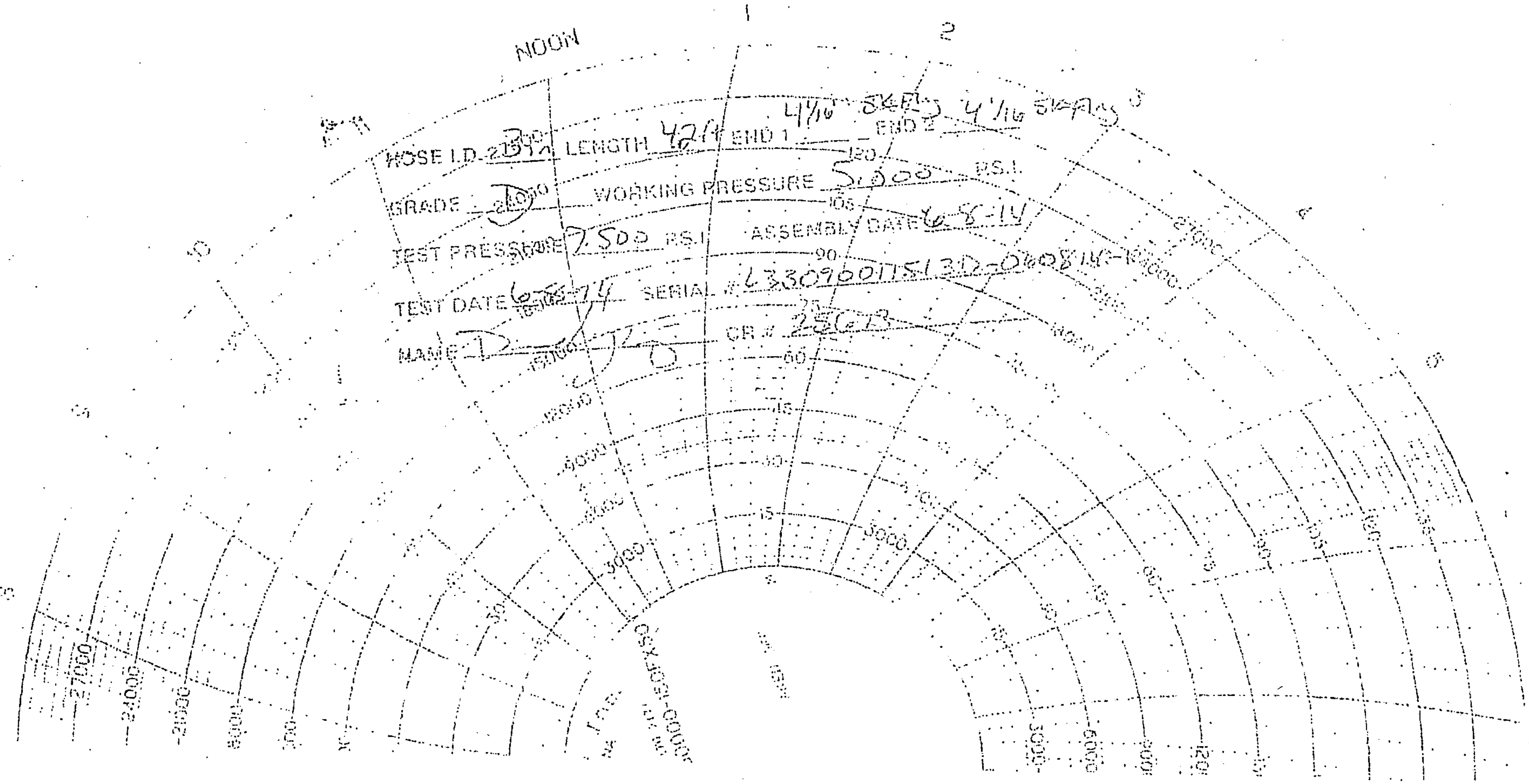
Product Description:	FD3.042.0R41/16.5KFLGE/E LE

End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K 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 :	


11-14-16
Graphic Controls
XTO
Choke Line
DATE
BR B 0-15000-8-IH



HOSE I.D. 2 9/16 LENGTH 42ft END 1 4 1/16 5K FLG END 2 4 1/16 5K FLG
GRADE D
WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7500 P.S.I.
ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14
SERIAL # L330960115130-0608 14
CR # 25G13
NAME
NOON

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid
Site: Corral Canyon 3-34 Fed
Well: CORRAL CANYON 3-34 FED 128H
Wellbore: CORRAL CANYON 3-34 FED 128H
Design: Plan #2

3034+27 @ 3061.00usft (ScanProducer)
NAD 1927 (NADCON CONUS)

Azimuths to Grid North
True North: -0.20°
Magnetic North: 6.78°

Magnetic Field
Strength: 47709.5nT
Dip Angle: 59.91°
Date: 11/20/2018
Model: IGRF2015

FORMATION TOP DETAILS

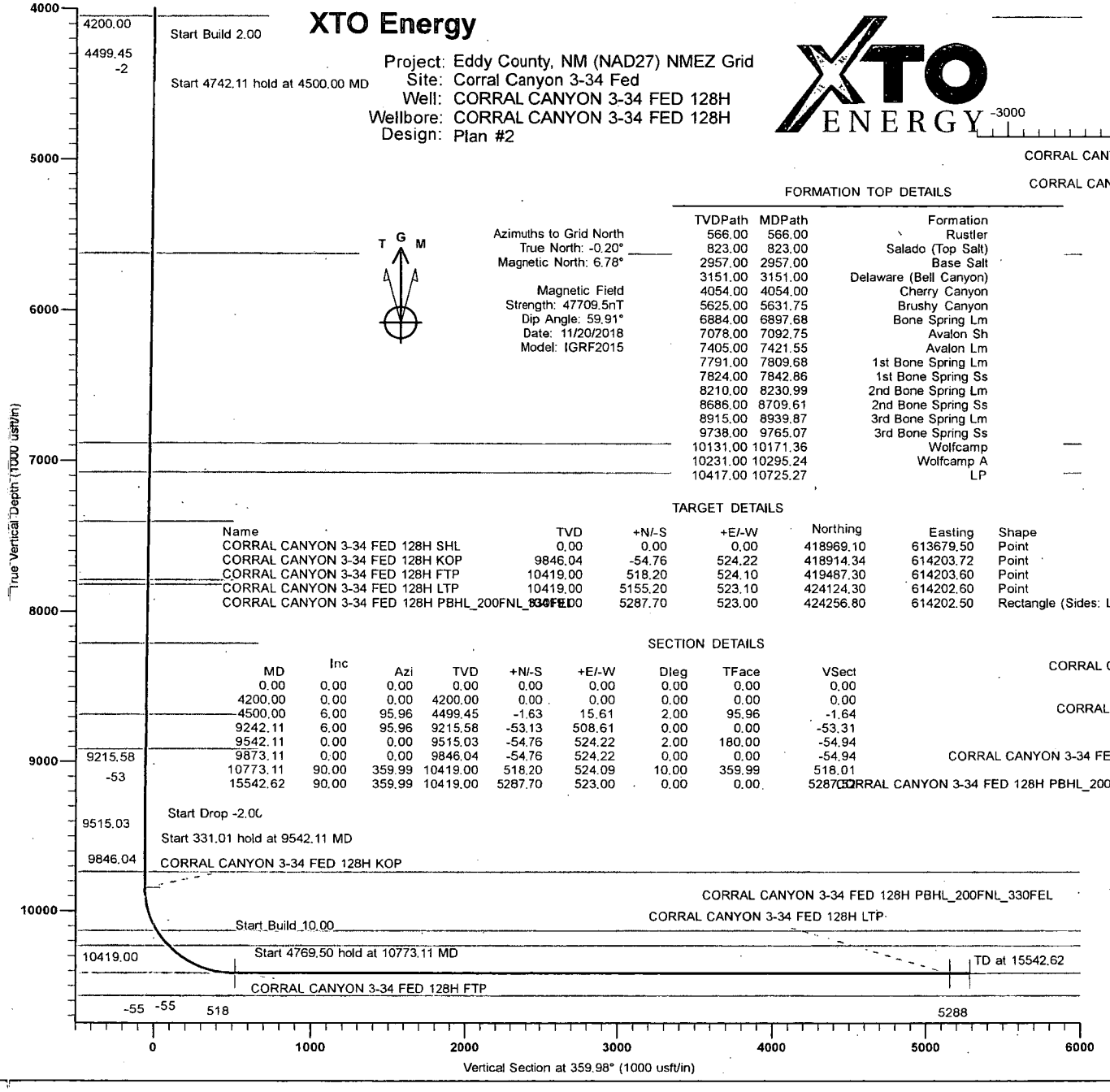
TVDPath	MDPath	Formation
566.00	566.00	Rustler
823.00	823.00	Salado (Top Salt)
2957.00	2957.00	Base Salt
3151.00	3151.00	Delaware (Bell Canyon)
4054.00	4054.00	Cherry Canyon
5625.00	5631.75	Brushy Canyon
6884.00	6897.68	Bone Spring Lm
7078.00	7092.75	Avalon Sh
7405.00	7421.55	Avalon Lm
7791.00	7809.68	1st Bone Spring Lm
7824.00	7842.86	1st Bone Spring Ss
8210.00	8230.99	2nd Bone Spring Lm
8686.00	8709.61	2nd Bone Spring Ss
8915.00	8939.87	3rd Bone Spring Lm
9738.00	9765.07	3rd Bone Spring Ss
10131.00	10171.36	Wolfcamp
10231.00	10295.24	Wolfcamp A
10417.00	10725.27	LP

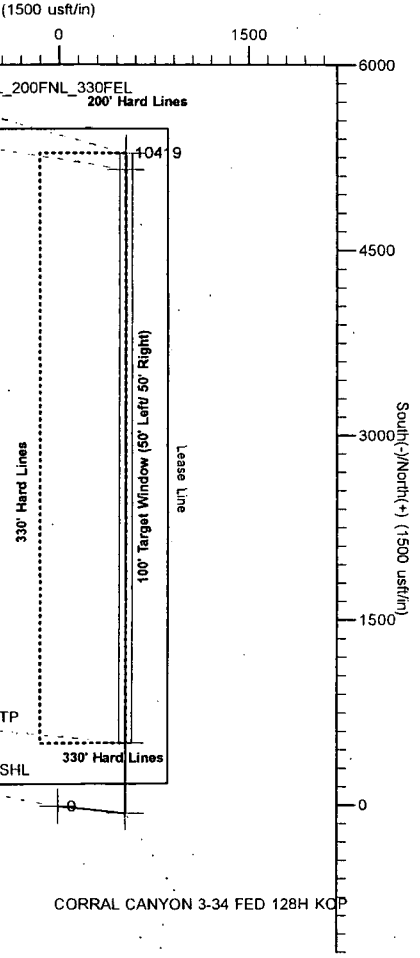
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
CORRAL CANYON 3-34 FED 128H SHL	0.00	0.00	0.00	418969.10	613679.50	Point
CORRAL CANYON 3-34 FED 128H KOP	9846.04	-54.76	524.22	418914.34	614203.72	Point
CORRAL CANYON 3-34 FED 128H FTP	10419.00	518.20	524.10	419487.30	614203.60	Point
CORRAL CANYON 3-34 FED 128H LTP	10419.00	5155.20	523.10	424124.30	614202.60	Point
CORRAL CANYON 3-34 FED 128H PBHL_200FNL_330FEL	10725.27	5287.70	523.00	424256.80	614202.50	Rectangle (Sides: L4770.60 W100.00)

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
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00
4500.00	6.00	95.96	4499.45	-1.63	15.61	2.00	95.96	-1.64
9242.11	6.00	95.96	9215.58	-53.13	508.61	0.00	0.00	-53.31
9542.11	0.00	0.00	9515.03	-54.76	524.22	2.00	180.00	-54.94
9873.11	0.00	0.00	9846.04	-54.76	524.22	0.00	0.00	-54.94
10773.11	90.00	359.99	10419.00	518.20	524.09	10.00	359.99	518.01
15542.62	90.00	359.99	10419.00	5287.70	523.00	0.00	0.00	5287.52





To convert a Magnetic Direction to a True Direction, Add 6.98° East
To convert a Magnetic Direction to a Grid Direction, Add 6.78°
Magnetic North is 6.98° East of True North (Magnetic Declination)
Magnetic North is 6.78° East of Grid North (Magnetic Convergence)

Plan: Plan #2 (CORRAL CANYON 3-34 FED 128H/CORRAL CANYON 3-34 FED 128H)
Created By: Mekka Williams
eSomina Well Design
mekka@esominawelldesign.com
19:37, November 30 2018

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

Database:	STRYKER_EDM	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	**North Reference:**	Grid
Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

Project Eddy County, NM (NAD27) NMEZ Grid

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Corral Canyon 3-34 Fed

Site Position:		**Northing:**	418,968.80 usft	**Latitude:**	32° 9' 4.787 N
From:	Map	**Easting:**	613,589.50 usft	**Longitude:**	103° 57' 58.703 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.20 °

Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL

Well Position	**+N/-S**	0.30 usft	**Northing:**	418,969.10 usft	**Latitude:**	32° 9' 4.787 N
	+E/-W	90.00 usft	**Easting:**	613,679.50 usft	**Longitude:**	103° 57' 57.656 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,034.00 usft

Wellbore CORRAL CANYON 3-34 FED 128H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/20/18	6.98	59.91	47,709.45083817

Design Plan #2

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	359.98

Plan Survey Tool Program **Date** 11/30/18

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,542.62	Plan #2 (CORRAL CANYON 3-34	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

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	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	6.00	95.96	4,499.45	-1.63	15.61	2.00	2.00	0.00	95.96	
9,242.11	6.00	95.96	9,215.58	-53.13	508.61	0.00	0.00	0.00	0.00	
9,542.11	0.00	0.00	9,515.03	-54.76	524.22	2.00	-2.00	0.00	180.00	
9,873.11	0.00	0.00	9,846.04	-54.76	524.22	0.00	0.00	0.00	0.00	CORRAL CANYON 3
10,773.11	90.00	359.99	10,419.00	518.20	524.09	10.00	10.00	0.00	359.99	
15,542.62	90.00	359.99	10,419.00	5,287.70	523.00	0.00	0.00	0.00	0.00	CORRAL CANYON 3

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	North Reference:	Grid
Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

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
566.00	0.00	0.00	566.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
823.00	0.00	0.00	823.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado (Top Salt)									
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
1,200.00	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
2,957.00	0.00	0.00	2,957.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
3,151.00	0.00	0.00	3,151.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware (Bell Canyon)									
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
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,054.00	0.00	0.00	4,054.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	North Reference:	Grid
Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

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)
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	2.00	95.96	4,299.98	-0.18	1.74	-0.18	2.00	2.00	0.00
4,400.00	4.00	95.96	4,399.84	-0.73	6.94	-0.73	2.00	2.00	0.00
4,500.00	6.00	95.96	4,499.45	-1.63	15.61	-1.64	2.00	2.00	0.00
4,600.00	6.00	95.96	4,598.90	-2.72	26.00	-2.73	0.00	0.00	0.00
4,700.00	6.00	95.96	4,698.36	-3.80	36.40	-3.82	0.00	0.00	0.00
4,800.00	6.00	95.96	4,797.81	-4.89	46.80	-4.90	0.00	0.00	0.00
4,900.00	6.00	95.96	4,897.26	-5.97	57.19	-5.99	0.00	0.00	0.00
5,000.00	6.00	95.96	4,996.71	-7.06	67.59	-7.08	0.00	0.00	0.00
5,100.00	6.00	95.96	5,096.17	-8.15	77.99	-8.17	0.00	0.00	0.00
5,200.00	6.00	95.96	5,195.62	-9.23	88.38	-9.26	0.00	0.00	0.00
5,300.00	6.00	95.96	5,295.07	-10.32	98.78	-10.35	0.00	0.00	0.00
5,400.00	6.00	95.96	5,394.52	-11.40	109.18	-11.44	0.00	0.00	0.00
5,500.00	6.00	95.96	5,493.97	-12.49	119.57	-12.53	0.00	0.00	0.00
5,600.00	6.00	95.96	5,593.43	-13.58	129.97	-13.62	0.00	0.00	0.00
5,631.75	6.00	95.96	5,625.00	-13.92	133.27	-13.97	0.00	0.00	0.00
Brushy Canyon									
5,700.00	6.00	95.96	5,692.88	-14.66	140.36	-14.71	0.00	0.00	0.00
5,800.00	6.00	95.96	5,792.33	-15.75	150.76	-15.80	0.00	0.00	0.00
5,900.00	6.00	95.96	5,891.78	-16.83	161.16	-16.89	0.00	0.00	0.00
6,000.00	6.00	95.96	5,991.23	-17.92	171.55	-17.98	0.00	0.00	0.00
6,100.00	6.00	95.96	6,090.69	-19.01	181.95	-19.07	0.00	0.00	0.00
6,200.00	6.00	95.96	6,190.14	-20.09	192.35	-20.16	0.00	0.00	0.00
6,300.00	6.00	95.96	6,289.59	-21.18	202.74	-21.25	0.00	0.00	0.00
6,400.00	6.00	95.96	6,389.04	-22.26	213.14	-22.34	0.00	0.00	0.00
6,500.00	6.00	95.96	6,488.50	-23.35	223.53	-23.43	0.00	0.00	0.00
6,600.00	6.00	95.96	6,587.95	-24.44	233.93	-24.52	0.00	0.00	0.00
6,700.00	6.00	95.96	6,687.40	-25.52	244.33	-25.61	0.00	0.00	0.00
6,800.00	6.00	95.96	6,786.85	-26.61	254.72	-26.70	0.00	0.00	0.00
6,897.68	6.00	95.96	6,884.00	-27.67	264.88	-27.76	0.00	0.00	0.00
Bone Spring Lm									
6,900.00	6.00	95.96	6,886.30	-27.69	265.12	-27.79	0.00	0.00	0.00
7,000.00	6.00	95.96	6,985.76	-28.78	275.52	-28.88	0.00	0.00	0.00
7,092.75	6.00	95.96	7,078.00	-29.79	285.16	-29.89	0.00	0.00	0.00
Avalon Sh									
7,100.00	6.00	95.96	7,085.21	-29.87	285.91	-29.97	0.00	0.00	0.00
7,200.00	6.00	95.96	7,184.66	-30.95	296.31	-31.06	0.00	0.00	0.00
7,300.00	6.00	95.96	7,284.11	-32.04	306.70	-32.15	0.00	0.00	0.00
7,400.00	6.00	95.96	7,383.57	-33.12	317.10	-33.24	0.00	0.00	0.00
7,421.55	6.00	95.96	7,405.00	-33.36	319.34	-33.47	0.00	0.00	0.00
Avalon Lm									
7,500.00	6.00	95.96	7,483.02	-34.21	327.50	-34.32	0.00	0.00	0.00
7,600.00	6.00	95.96	7,582.47	-35.30	337.89	-35.41	0.00	0.00	0.00
7,700.00	6.00	95.96	7,681.92	-36.38	348.29	-36.50	0.00	0.00	0.00
7,800.00	6.00	95.96	7,781.37	-37.47	358.69	-37.59	0.00	0.00	0.00
7,809.68	6.00	95.96	7,791.00	-37.57	359.69	-37.70	0.00	0.00	0.00
1st Bone Spring Lm									
7,842.86	6.00	95.96	7,824.00	-37.93	363.14	-38.06	0.00	0.00	0.00
1st Bone Spring Ss									
7,900.00	6.00	95.96	7,880.83	-38.55	369.08	-38.68	0.00	0.00	0.00
8,000.00	6.00	95.96	7,980.28	-39.64	379.48	-39.77	0.00	0.00	0.00
8,100.00	6.00	95.96	8,079.73	-40.73	389.87	-40.86	0.00	0.00	0.00

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	North Reference:	Grid
Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

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)
8,200.00	6.00	95.96	8,179.18	-41.81	400.27	-41.95	0.00	0.00	0.00
8,230.99	6.00	95.96	8,210.00	-42.15	403.49	-42.29	0.00	0.00	0.00
2nd Bone Spring Lm									
8,300.00	6.00	95.96	8,278.64	-42.90	410.67	-43.04	0.00	0.00	0.00
8,400.00	6.00	95.96	8,378.09	-43.98	421.06	-44.13	0.00	0.00	0.00
8,500.00	6.00	95.96	8,477.54	-45.07	431.46	-45.22	0.00	0.00	0.00
8,600.00	6.00	95.96	8,576.99	-46.16	441.86	-46.31	0.00	0.00	0.00
8,700.00	6.00	95.96	8,676.44	-47.24	452.25	-47.40	0.00	0.00	0.00
8,709.61	6.00	95.96	8,686.00	-47.35	453.25	-47.50	0.00	0.00	0.00
2nd Bone Spring Ss									
8,800.00	6.00	95.96	8,775.90	-48.33	462.65	-48.49	0.00	0.00	0.00
8,900.00	6.00	95.96	8,875.35	-49.41	473.04	-49.58	0.00	0.00	0.00
8,939.87	6.00	95.96	8,915.00	-49.85	477.19	-50.01	0.00	0.00	0.00
3rd Bone Spring Lm									
9,000.00	6.00	95.96	8,974.80	-50.50	483.44	-50.67	0.00	0.00	0.00
9,100.00	6.00	95.96	9,074.25	-51.59	493.84	-51.76	0.00	0.00	0.00
9,200.00	6.00	95.96	9,173.71	-52.67	504.23	-52.85	0.00	0.00	0.00
9,242.11	6.00	95.96	9,215.58	-53.13	508.61	-53.31	0.00	0.00	0.00
9,300.00	4.84	95.96	9,273.21	-53.70	514.05	-53.88	2.00	-2.00	0.00
9,400.00	2.84	95.96	9,372.98	-54.39	520.72	-54.58	2.00	-2.00	0.00
9,500.00	0.84	95.96	9,472.93	-54.73	523.91	-54.91	2.00	-2.00	0.00
9,542.11	0.00	0.00	9,515.03	-54.76	524.22	-54.94	2.00	-2.00	0.00
9,600.00	0.00	0.00	9,572.93	-54.76	524.22	-54.94	0.00	0.00	0.00
9,700.00	0.00	0.00	9,672.93	-54.76	524.22	-54.94	0.00	0.00	0.00
9,765.07	0.00	0.00	9,738.00	-54.76	524.22	-54.94	0.00	0.00	0.00
3rd Bone Spring Ss									
9,800.00	0.00	0.00	9,772.93	-54.76	524.22	-54.94	0.00	0.00	0.00
9,873.11	0.00	0.00	9,846.04	-54.76	524.22	-54.94	0.00	0.00	0.00
9,900.00	2.69	359.99	9,872.92	-54.13	524.22	-54.31	10.00	10.00	0.00
9,950.00	7.69	359.99	9,922.70	-49.61	524.22	-49.79	10.00	10.00	0.00
10,000.00	12.69	359.99	9,971.89	-40.77	524.22	-40.95	10.00	10.00	0.00
10,050.00	17.69	359.99	10,020.13	-27.67	524.21	-27.85	10.00	10.00	0.00
10,100.00	22.69	359.99	10,067.04	-10.42	524.21	-10.60	10.00	10.00	0.00
10,150.00	27.69	359.99	10,112.27	10.85	524.21	10.67	10.00	10.00	0.00
10,171.36	29.82	359.99	10,131.00	21.13	524.20	20.95	10.00	10.00	0.00
Wolfcamp									
10,200.00	32.69	359.99	10,155.48	35.99	524.20	35.80	10.00	10.00	0.00
10,250.00	37.69	359.99	10,196.33	64.79	524.19	64.61	10.00	10.00	0.00
10,295.24	42.21	359.99	10,231.00	93.83	524.19	93.65	10.00	10.00	0.00
Wolfcamp A									
10,300.00	42.69	359.99	10,234.51	97.05	524.19	96.86	10.00	10.00	0.00
10,350.00	47.69	359.99	10,269.74	132.51	524.18	132.32	10.00	10.00	0.00
10,400.00	52.69	359.99	10,301.74	170.90	524.17	170.72	10.00	10.00	0.00
10,450.00	57.69	359.99	10,330.28	211.94	524.16	211.76	10.00	10.00	0.00
10,500.00	62.69	359.99	10,355.13	255.31	524.15	255.13	10.00	10.00	0.00
10,550.00	67.69	359.99	10,376.10	300.68	524.14	300.50	10.00	10.00	0.00
10,600.00	72.69	359.99	10,393.04	347.71	524.13	347.52	10.00	10.00	0.00
10,650.00	77.69	359.99	10,405.82	396.03	524.12	395.85	10.00	10.00	0.00
10,700.00	82.69	359.99	10,414.34	445.28	524.11	445.10	10.00	10.00	0.00
10,725.27	85.22	359.99	10,417.00	470.41	524.10	470.22	10.00	10.00	0.00
LP									
10,750.00	87.69	359.99	10,418.53	495.09	524.09	494.91	10.00	10.00	0.00

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	North Reference:	Grid
Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

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)
10,773.11	90.00	359.99	10,419.00	518.20	524.09	518.01	10.00	10.00	0.00
10,800.00	90.00	359.99	10,419.00	545.08	524.08	544.90	0.00	0.00	0.00
10,900.00	90.00	359.99	10,419.00	645.08	524.06	644.90	0.00	0.00	0.00
11,000.00	90.00	359.99	10,419.00	745.08	524.04	744.90	0.00	0.00	0.00
11,100.00	90.00	359.99	10,419.00	845.08	524.01	844.90	0.00	0.00	0.00
11,200.00	90.00	359.99	10,419.00	945.08	523.99	944.90	0.00	0.00	0.00
11,300.00	90.00	359.99	10,419.00	1,045.08	523.97	1,044.90	0.00	0.00	0.00
11,400.00	90.00	359.99	10,419.00	1,145.08	523.95	1,144.90	0.00	0.00	0.00
11,500.00	90.00	359.99	10,419.00	1,245.08	523.92	1,244.90	0.00	0.00	0.00
11,600.00	90.00	359.99	10,419.00	1,345.08	523.90	1,344.90	0.00	0.00	0.00
11,700.00	90.00	359.99	10,419.00	1,445.08	523.88	1,444.90	0.00	0.00	0.00
11,800.00	90.00	359.99	10,419.00	1,545.08	523.85	1,544.90	0.00	0.00	0.00
11,900.00	90.00	359.99	10,419.00	1,645.08	523.83	1,644.90	0.00	0.00	0.00
12,000.00	90.00	359.99	10,419.00	1,745.08	523.81	1,744.90	0.00	0.00	0.00
12,100.00	90.00	359.99	10,419.00	1,845.08	523.79	1,844.90	0.00	0.00	0.00
12,200.00	90.00	359.99	10,419.00	1,945.08	523.76	1,944.90	0.00	0.00	0.00
12,300.00	90.00	359.99	10,419.00	2,045.08	523.74	2,044.90	0.00	0.00	0.00
12,400.00	90.00	359.99	10,419.00	2,145.08	523.72	2,144.90	0.00	0.00	0.00
12,500.00	90.00	359.99	10,419.00	2,245.08	523.69	2,244.90	0.00	0.00	0.00
12,600.00	90.00	359.99	10,419.00	2,345.08	523.67	2,344.90	0.00	0.00	0.00
12,700.00	90.00	359.99	10,419.00	2,445.08	523.65	2,444.90	0.00	0.00	0.00
12,800.00	90.00	359.99	10,419.00	2,545.08	523.63	2,544.90	0.00	0.00	0.00
12,900.00	90.00	359.99	10,419.00	2,645.08	523.60	2,644.90	0.00	0.00	0.00
13,000.00	90.00	359.99	10,419.00	2,745.08	523.58	2,744.90	0.00	0.00	0.00
13,100.00	90.00	359.99	10,419.00	2,845.08	523.56	2,844.90	0.00	0.00	0.00
13,200.00	90.00	359.99	10,419.00	2,945.08	523.53	2,944.90	0.00	0.00	0.00
13,300.00	90.00	359.99	10,419.00	3,045.08	523.51	3,044.90	0.00	0.00	0.00
13,400.00	90.00	359.99	10,419.00	3,145.08	523.49	3,144.90	0.00	0.00	0.00
13,500.00	90.00	359.99	10,419.00	3,245.08	523.47	3,244.90	0.00	0.00	0.00
13,600.00	90.00	359.99	10,419.00	3,345.08	523.44	3,344.90	0.00	0.00	0.00
13,700.00	90.00	359.99	10,419.00	3,445.08	523.42	3,444.90	0.00	0.00	0.00
13,800.00	90.00	359.99	10,419.00	3,545.08	523.40	3,544.90	0.00	0.00	0.00
13,900.00	90.00	359.99	10,419.00	3,645.08	523.38	3,644.90	0.00	0.00	0.00
14,000.00	90.00	359.99	10,419.00	3,745.08	523.35	3,744.90	0.00	0.00	0.00
14,100.00	90.00	359.99	10,419.00	3,845.08	523.33	3,844.90	0.00	0.00	0.00
14,200.00	90.00	359.99	10,419.00	3,945.08	523.31	3,944.90	0.00	0.00	0.00
14,300.00	90.00	359.99	10,419.00	4,045.08	523.28	4,044.90	0.00	0.00	0.00
14,400.00	90.00	359.99	10,419.00	4,145.08	523.26	4,144.90	0.00	0.00	0.00
14,500.00	90.00	359.99	10,419.00	4,245.08	523.24	4,244.90	0.00	0.00	0.00
14,600.00	90.00	359.99	10,419.00	4,345.08	523.22	4,344.90	0.00	0.00	0.00
14,700.00	90.00	359.99	10,419.00	4,445.08	523.19	4,444.90	0.00	0.00	0.00
14,800.00	90.00	359.99	10,419.00	4,545.08	523.17	4,544.90	0.00	0.00	0.00
14,900.00	90.00	359.99	10,419.00	4,645.08	523.15	4,644.90	0.00	0.00	0.00
15,000.00	90.00	359.99	10,419.00	4,745.08	523.12	4,744.90	0.00	0.00	0.00
15,100.00	90.00	359.99	10,419.00	4,845.08	523.10	4,844.90	0.00	0.00	0.00
15,200.00	90.00	359.99	10,419.00	4,945.08	523.08	4,944.90	0.00	0.00	0.00
15,300.00	90.00	359.99	10,419.00	5,045.08	523.06	5,044.90	0.00	0.00	0.00
15,400.00	90.00	359.99	10,419.00	5,145.08	523.03	5,144.90	0.00	0.00	0.00
15,500.00	90.00	359.99	10,419.00	5,245.08	523.01	5,244.90	0.00	0.00	0.00
15,542.62	90.00	359.99	10,419.00	5,287.70	523.00	5,287.52	0.00	0.00	0.00

Database:	STRYKER_EDM	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Company:	XTO Energy	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Project:	Eddy County, NM (NAD27) NMEZ Grid	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site:	Corral Canyon 3-34 Fed	North Reference:	Grid
Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	CORRAL CANYON 3-34 FED 128H		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CORRAL CANYON 3-34 - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	418,969.10	613,679.50	32° 9' 4.787 N	103° 57' 57.656 W
CORRAL CANYON 3-34 - plan hits target center - Point	0.00	0.00	9,846.04	-54.76	524.22	418,914.34	614,203.72	32° 9' 4.227 N	103° 57' 51.560 W
CORRAL CANYON 3-34 - plan misses target center by 0.07usft at 15410.12usft MD (10419.00 TVD, 5155.20 N, 523.03 E) - Point	0.00	0.01	10,419.00	5,155.20	523.10	424,124.30	614,202.60	32° 9' 55.787 N	103° 57' 51.366 W
CORRAL CANYON 3-34 - plan misses target center by 0.01usft at 10773.12usft MD (10419.00 TVD, 518.20 N, 524.09 E) - Point	0.00	0.00	10,419.00	518.20	524.10	419,487.30	614,203.60	32° 9' 9.898 N	103° 57' 51.539 W
CORRAL CANYON 3-34 - plan hits target center - Rectangle (sides W100.00 H4,770.60 D0.00)	0.00	0.00	10,419.00	5,287.70	523.00	424,256.80	614,202.50	32° 9' 57.098 N	103° 57' 51.361 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
566.00	566.00	Rustler			
823.00	823.00	Salado (Top Salt)			
2,957.00	2,957.00	Base Salt			
3,151.00	3,151.00	Delaware (Bell Canyon)			
4,054.00	4,054.00	Cherry Canyon			
5,631.75	5,625.00	Brushy Canyon			
6,897.68	6,884.00	Bone Spring Lm			
7,092.75	7,078.00	Avalon Sh			
7,421.55	7,405.00	Avalon Lm			
7,809.68	7,791.00	1st Bone Spring Lm			
7,842.86	7,824.00	1st Bone Spring Ss			
8,230.99	8,210.00	2nd Bone Spring Lm			
8,709.61	8,686.00	2nd Bone Spring Ss			
8,939.87	8,915.00	3rd Bone Spring Lm			
9,765.07	9,738.00	3rd Bone Spring Ss			
10,171.36	10,131.00	Wolfcamp			
10,295.24	10,231.00	Wolfcamp A			
10,725.27	10,417.00	LP			

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference Plan #2

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

Survey Tool Program **Date** 11/30/18

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,542.62	Plan #2 (CORRAL CANYON 3-34 FED 12	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Corral Canyon 3-34 Fed						
CORRAL CANYON 3-34 FED 108H - CORRAL CANYON	4,500.00	4,503.11	29.74	-1.03	0.966	Level 1, CC
CORRAL CANYON 3-34 FED 108H - CORRAL CANYON	9,050.00	9,053.08	29.90	-33.24	0.474	Level 1, SF
CORRAL CANYON 3-34 FED 108H - CORRAL CANYON	9,100.00	9,102.56	30.38	-33.45	0.476	Level 1, ES
CORRAL CANYON 3-34 FED 127H - CORRAL CANYON	4,200.00	4,200.00	59.90	30.24	2.020	CC, ES
CORRAL CANYON 3-34 FED 127H - CORRAL CANYON	4,250.00	4,250.00	60.33	30.32	2.010	SF
CORRAL CANYON 3-34 FED 907H - CORRAL CANYON	4,200.00	4,200.00	90.00	60.34	3.035	CC, ES
CORRAL CANYON 3-34 FED 907H - CORRAL CANYON	4,250.00	4,250.00	90.43	60.42	3.014	SF

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-29.90	29.90				
50.00	50.00	50.00	50.00	0.04	0.07	-90.00	0.00	-29.90	29.90	29.79	0.11	280.368	
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-29.90	29.90	29.64	0.26	114.260	
150.00	150.00	150.00	150.00	0.31	0.31	-90.00	0.00	-29.90	29.90	29.28	0.62	48.214	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-29.90	29.90	28.92	0.98	30.553	
250.00	250.00	250.00	250.00	0.67	0.67	-90.00	0.00	-29.90	29.90	28.56	1.34	22.362	
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-29.90	29.90	28.20	1.70	17.634	
350.00	350.00	350.00	350.00	1.03	1.03	-90.00	0.00	-29.90	29.90	27.85	2.05	14.557	
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-29.90	29.90	27.49	2.41	12.394	
450.00	450.00	450.00	450.00	1.39	1.39	-90.00	0.00	-29.90	29.90	27.13	2.77	10.790	
500.00	500.00	500.00	500.00	1.56	1.56	-90.00	0.00	-29.90	29.90	26.77	3.13	9.554	
550.00	550.00	550.00	550.00	1.74	1.74	-90.00	0.00	-29.90	29.90	26.41	3.49	8.572	
600.00	600.00	600.00	600.00	1.92	1.92	-90.00	0.00	-29.90	29.90	26.05	3.85	7.774	
650.00	650.00	650.00	650.00	2.10	2.10	-90.00	0.00	-29.90	29.90	25.70	4.20	7.111	
700.00	700.00	700.00	700.00	2.28	2.28	-90.00	0.00	-29.90	29.90	25.34	4.56	6.552	
750.00	750.00	750.00	750.00	2.46	2.46	-90.00	0.00	-29.90	29.90	24.98	4.92	6.075	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-29.90	29.90	24.62	5.28	5.663	
850.00	850.00	850.00	850.00	2.82	2.82	-90.00	0.00	-29.90	29.90	24.26	5.64	5.303	
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-29.90	29.90	23.90	6.00	4.986	
950.00	950.00	950.00	950.00	3.18	3.18	-90.00	0.00	-29.90	29.90	23.54	6.36	4.704	

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

Anticollision Report

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.00	0.00	-29.90	29.90	23.19	6.71	4.453	
1,050.00	1,050.00	1,050.00	1,050.00	3.54	3.54	-90.00	0.00	-29.90	29.90	22.83	7.07	4.228	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.00	0.00	-29.90	29.90	22.47	7.43	4.024	
1,150.00	1,150.00	1,150.00	1,150.00	3.89	3.89	-90.00	0.00	-29.90	29.90	22.11	7.79	3.838	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.00	0.00	-29.90	29.90	21.75	8.15	3.670	
1,250.00	1,250.00	1,250.00	1,250.00	4.25	4.25	-90.00	0.00	-29.90	29.90	21.39	8.51	3.515	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.00	0.00	-29.90	29.90	21.03	8.87	3.373	
1,350.00	1,350.00	1,350.00	1,350.00	4.61	4.61	-90.00	0.00	-29.90	29.90	20.68	9.22	3.242	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.00	0.00	-29.90	29.90	20.32	9.58	3.120	
1,450.00	1,450.00	1,450.00	1,450.00	4.97	4.97	-90.00	0.00	-29.90	29.90	19.96	9.94	3.008	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.00	0.00	-29.90	29.90	19.60	10.30	2.903	
1,550.00	1,550.00	1,550.00	1,550.00	5.33	5.33	-90.00	0.00	-29.90	29.90	19.24	10.66	2.806	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.00	0.00	-29.90	29.90	18.88	11.02	2.714	
1,650.00	1,650.00	1,650.00	1,650.00	5.69	5.69	-90.00	0.00	-29.90	29.90	18.53	11.37	2.629	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.00	0.00	-29.90	29.90	18.17	11.73	2.548	
1,750.00	1,750.00	1,750.00	1,750.00	6.05	6.05	-90.00	0.00	-29.90	29.90	17.81	12.09	2.473	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.00	0.00	-29.90	29.90	17.45	12.45	2.402	
1,850.00	1,850.00	1,850.00	1,850.00	6.40	6.40	-90.00	0.00	-29.90	29.90	17.09	12.81	2.334	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.00	0.00	-29.90	29.90	16.73	13.17	2.271	
1,950.00	1,950.00	1,950.00	1,950.00	6.76	6.76	-90.00	0.00	-29.90	29.90	16.37	13.53	2.211	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.00	0.00	-29.90	29.90	16.02	13.88	2.154	
2,050.00	2,050.00	2,050.00	2,050.00	7.12	7.12	-90.00	0.00	-29.90	29.90	15.66	14.24	2.099	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-90.00	0.00	-29.90	29.90	15.30	14.60	2.048	
2,150.00	2,150.00	2,150.00	2,150.00	7.48	7.48	-90.00	0.00	-29.90	29.90	14.94	14.96	1.999	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-90.00	0.00	-29.90	29.90	14.58	15.32	1.952	
2,250.00	2,250.00	2,250.00	2,250.00	7.84	7.84	-90.00	0.00	-29.90	29.90	14.22	15.68	1.907	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-90.00	0.00	-29.90	29.90	13.87	16.03	1.865	
2,350.00	2,350.00	2,350.00	2,350.00	8.20	8.20	-90.00	0.00	-29.90	29.90	13.51	16.39	1.824	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-90.00	0.00	-29.90	29.90	13.15	16.75	1.785	
2,450.00	2,450.00	2,450.00	2,450.00	8.55	8.55	-90.00	0.00	-29.90	29.90	12.79	17.11	1.748	
2,500.00	2,500.00	2,500.00	2,500.00	8.73	8.73	-90.00	0.00	-29.90	29.90	12.43	17.47	1.712	
2,550.00	2,550.00	2,550.00	2,550.00	8.91	8.91	-90.00	0.00	-29.90	29.90	12.07	17.83	1.677	
2,600.00	2,600.00	2,600.00	2,600.00	9.09	9.09	-90.00	0.00	-29.90	29.90	11.71	18.19	1.644	
2,650.00	2,650.00	2,650.00	2,650.00	9.27	9.27	-90.00	0.00	-29.90	29.90	11.36	18.54	1.612	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-90.00	0.00	-29.90	29.90	11.00	18.90	1.582	
2,750.00	2,750.00	2,750.00	2,750.00	9.63	9.63	-90.00	0.00	-29.90	29.90	10.64	19.26	1.552	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	-90.00	0.00	-29.90	29.90	10.28	19.62	1.524	
2,850.00	2,850.00	2,850.00	2,850.00	9.99	9.99	-90.00	0.00	-29.90	29.90	9.92	19.98	1.497	Level 3
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	-90.00	0.00	-29.90	29.90	9.56	20.34	1.470	Level 3
2,950.00	2,950.00	2,950.00	2,950.00	10.35	10.35	-90.00	0.00	-29.90	29.90	9.21	20.69	1.445	Level 3
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-90.00	0.00	-29.90	29.90	8.85	21.05	1.420	Level 3
3,050.00	3,050.00	3,050.00	3,050.00	10.71	10.71	-90.00	0.00	-29.90	29.90	8.49	21.41	1.396	Level 3
3,100.00	3,100.00	3,100.00	3,100.00	10.88	10.88	-90.00	0.00	-29.90	29.90	8.13	21.77	1.373	Level 3
3,150.00	3,150.00	3,150.00	3,150.00	11.06	11.06	-90.00	0.00	-29.90	29.90	7.77	22.13	1.351	Level 3
3,200.00	3,200.00	3,200.00	3,200.00	11.24	11.24	-90.00	0.00	-29.90	29.90	7.41	22.49	1.330	Level 3
3,250.00	3,250.00	3,250.00	3,250.00	11.42	11.42	-90.00	0.00	-29.90	29.90	7.05	22.85	1.309	Level 3
3,300.00	3,300.00	3,300.00	3,300.00	11.60	11.60	-90.00	0.00	-29.90	29.90	6.70	23.20	1.289	Level 3
3,350.00	3,350.00	3,350.00	3,350.00	11.78	11.78	-90.00	0.00	-29.90	29.90	6.34	23.56	1.269	Level 3
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	-90.00	0.00	-29.90	29.90	5.98	23.92	1.250	Level 2
3,450.00	3,450.00	3,450.00	3,450.00	12.14	12.14	-90.00	0.00	-29.90	29.90	5.62	24.28	1.232	Level 2
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	-90.00	0.00	-29.90	29.90	5.26	24.64	1.214	Level 2

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

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,550.00	3,550.00	3,550.00	3,550.00	12.50	12.50	-90.00	0.00	-29.90	29.90	4.90	25.00	1.196	Level 2
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	-90.00	0.00	-29.90	29.90	4.55	25.35	1.179	Level 2
3,650.00	3,650.00	3,650.00	3,650.00	12.86	12.86	-90.00	0.00	-29.90	29.90	4.19	25.71	1.163	Level 2
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	-90.00	0.00	-29.90	29.90	3.83	26.07	1.147	Level 2
3,750.00	3,750.00	3,750.00	3,750.00	13.22	13.22	-90.00	0.00	-29.90	29.90	3.47	26.43	1.131	Level 2
3,800.00	3,800.00	3,800.00	3,800.00	13.39	13.39	-90.00	0.00	-29.90	29.90	3.11	26.79	1.116	Level 2
3,850.00	3,850.00	3,850.00	3,850.00	13.57	13.57	-90.00	0.00	-29.90	29.90	2.75	27.15	1.101	Level 2
3,900.00	3,900.00	3,900.00	3,900.00	13.75	13.75	-90.00	0.00	-29.90	29.90	2.39	27.51	1.087	Level 2
3,950.00	3,950.00	3,950.00	3,950.00	13.93	13.93	-90.00	0.00	-29.90	29.90	2.04	27.86	1.073	Level 2
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	-90.00	0.00	-29.90	29.90	1.68	28.22	1.059	Level 2
4,050.00	4,050.00	4,050.00	4,050.00	14.29	14.29	-90.00	0.00	-29.90	29.90	1.32	28.58	1.046	Level 2
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	-90.00	0.00	-29.90	29.90	0.96	28.94	1.033	Level 2
4,150.00	4,150.00	4,150.00	4,150.00	14.65	14.65	-90.00	0.00	-29.90	29.90	0.60	29.30	1.021	Level 2
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	-90.00	0.00	-29.90	29.90	0.24	29.66	1.008	Level 2
4,250.00	4,250.00	4,250.52	4,250.52	15.00	15.00	174.03	-0.05	-29.46	29.90	-0.09	29.98	0.997	Level 1
4,300.00	4,299.98	4,301.05	4,301.03	15.18	15.18	174.02	-0.19	-28.13	29.88	-0.37	30.25	0.988	Level 1
4,350.00	4,349.93	4,351.57	4,351.50	15.35	15.35	174.01	-0.43	-25.91	29.86	-0.59	30.45	0.981	Level 1
4,400.00	4,399.84	4,402.10	4,401.93	15.52	15.52	173.99	-0.76	-22.82	29.83	-0.77	30.60	0.975	Level 1
4,450.00	4,449.68	4,452.62	4,452.29	15.69	15.70	173.96	-1.19	-18.83	29.79	-0.91	30.70	0.970	Level 1
4,499.63	4,499.08	4,502.74	4,502.17	15.86	15.87	173.92	-1.70	-14.01	29.74	-1.03	30.77	0.967	Level 1
4,500.00	4,499.45	4,503.11	4,502.54	15.86	15.87	173.92	-1.71	-13.97	29.74	-1.03	30.77	0.966	Level 1, CC
4,550.00	4,549.18	4,553.11	4,552.27	16.03	16.04	173.90	-2.26	-8.78	29.74	-1.34	31.09	0.957	Level 1
4,600.00	4,598.90	4,603.11	4,601.99	16.20	16.21	173.87	-2.82	-3.58	29.75	-1.66	31.41	0.947	Level 1
4,650.00	4,648.63	4,653.11	4,651.72	16.37	16.38	173.84	-3.38	1.62	29.75	-1.99	31.73	0.937	Level 1
4,700.00	4,698.36	4,703.11	4,701.45	16.54	16.55	173.82	-3.93	6.81	29.75	-2.31	32.06	0.928	Level 1
4,750.00	4,748.08	4,753.11	4,751.17	16.72	16.73	173.79	-4.49	12.01	29.75	-2.63	32.38	0.919	Level 1
4,800.00	4,797.81	4,803.11	4,800.90	16.89	16.90	173.77	-5.05	17.21	29.75	-2.96	32.71	0.910	Level 1
4,850.00	4,847.53	4,853.11	4,850.63	17.06	17.07	173.74	-5.60	22.40	29.75	-3.28	33.03	0.901	Level 1
4,900.00	4,897.26	4,903.11	4,900.35	17.23	17.24	173.71	-6.16	27.60	29.75	-3.62	33.37	0.892	Level 1
4,950.00	4,946.99	4,953.11	4,950.08	17.41	17.42	173.69	-6.72	32.80	29.76	-3.94	33.69	0.883	Level 1
5,000.00	4,996.71	5,003.11	4,999.80	17.58	17.59	173.66	-7.27	37.99	29.76	-4.28	34.04	0.874	Level 1
5,050.00	5,046.44	5,053.11	5,049.53	17.75	17.76	173.63	-7.83	43.19	29.76	-4.60	34.36	0.866	Level 1
5,100.00	5,096.17	5,103.11	5,099.26	17.93	17.94	173.61	-8.39	48.39	29.76	-4.93	34.69	0.858	Level 1
5,150.00	5,145.89	5,153.11	5,148.98	18.10	18.11	173.58	-8.94	53.58	29.76	-5.27	35.03	0.850	Level 1
5,200.00	5,195.62	5,203.11	5,198.71	18.27	18.28	173.56	-9.50	58.78	29.76	-5.61	35.37	0.841	Level 1
5,250.00	5,245.34	5,253.11	5,248.43	18.45	18.46	173.53	-10.06	63.98	29.77	-5.96	35.72	0.833	Level 1
5,300.00	5,295.07	5,303.11	5,298.16	18.62	18.63	173.50	-10.61	69.17	29.77	-6.30	36.06	0.825	Level 1
5,350.00	5,344.80	5,353.11	5,347.89	18.80	18.81	173.48	-11.17	74.37	29.77	-6.63	36.40	0.818	Level 1
5,400.00	5,394.52	5,403.11	5,397.61	18.97	18.98	173.45	-11.73	79.57	29.77	-6.97	36.74	0.810	Level 1
5,450.00	5,444.25	5,453.11	5,447.34	19.15	19.16	173.42	-12.28	84.76	29.77	-7.31	37.08	0.803	Level 1
5,500.00	5,493.97	5,503.11	5,497.06	19.32	19.33	173.40	-12.84	89.96	29.77	-7.65	37.42	0.796	Level 1
5,550.00	5,543.70	5,553.11	5,546.79	19.50	19.51	173.37	-13.40	95.16	29.77	-8.00	37.78	0.788	Level 1
5,600.00	5,593.43	5,603.11	5,596.52	19.67	19.68	173.35	-13.95	100.35	29.78	-8.35	38.12	0.781	Level 1
5,650.00	5,643.15	5,653.11	5,646.24	19.85	19.86	173.32	-14.51	105.55	29.78	-8.69	38.47	0.774	Level 1
5,700.00	5,692.88	5,703.11	5,695.97	20.02	20.03	173.29	-15.07	110.75	29.78	-9.03	38.81	0.767	Level 1
5,750.00	5,742.60	5,753.11	5,745.70	20.20	20.21	173.27	-15.62	115.94	29.78	-9.38	39.16	0.761	Level 1
5,800.00	5,792.33	5,803.11	5,795.42	20.37	20.38	173.24	-16.18	121.14	29.78	-9.73	39.52	0.754	Level 1
5,850.00	5,842.06	5,853.11	5,845.15	20.55	20.56	173.21	-16.74	126.34	29.78	-10.08	39.86	0.747	Level 1
5,900.00	5,891.78	5,903.11	5,894.87	20.72	20.73	173.19	-17.29	131.53	29.79	-10.43	40.22	0.741	Level 1
5,950.00	5,941.51	5,953.11	5,944.60	20.90	20.91	173.16	-17.85	136.73	29.79	-10.80	40.58	0.734	Level 1
6,000.00	5,991.23	6,003.11	5,994.33	21.08	21.09	173.14	-18.41	141.93	29.79	-11.14	40.93	0.728	Level 1

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

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,050.00	6,040.96	6,053.11	6,044.05	21.25	21.26	173.11	-18.96	147.12	29.79	-11.49	41.28	0.722	Level 1
6,100.00	6,090.69	6,103.11	6,093.78	21.43	21.44	173.08	-19.52	152.32	29.79	-11.83	41.62	0.716	Level 1
6,150.00	6,140.41	6,153.11	6,143.50	21.61	21.62	173.06	-20.08	157.52	29.79	-12.20	41.99	0.710	Level 1
6,200.00	6,190.14	6,203.11	6,193.23	21.78	21.79	173.03	-20.63	162.71	29.80	-12.54	42.33	0.704	Level 1
6,250.00	6,239.87	6,253.11	6,242.96	21.96	21.97	173.00	-21.19	167.91	29.80	-12.91	42.71	0.698	Level 1
6,300.00	6,289.59	6,303.11	6,292.68	22.14	22.15	172.98	-21.75	173.11	29.80	-13.24	43.04	0.692	Level 1
6,350.00	6,339.32	6,353.11	6,342.41	22.31	22.32	172.95	-22.30	178.31	29.80	-13.60	43.41	0.687	Level 1
6,400.00	6,389.04	6,403.11	6,392.13	22.49	22.50	172.93	-22.86	183.50	29.80	-13.97	43.78	0.681	Level 1
6,450.00	6,438.77	6,453.11	6,441.86	22.67	22.68	172.90	-23.42	188.70	29.80	-14.33	44.13	0.675	Level 1
6,500.00	6,488.50	6,503.11	6,491.59	22.84	22.85	172.87	-23.97	193.90	29.81	-14.67	44.47	0.670	Level 1
6,550.00	6,538.22	6,553.11	6,541.31	23.02	23.03	172.85	-24.53	199.09	29.81	-15.04	44.85	0.665	Level 1
6,600.00	6,587.95	6,603.11	6,591.04	23.20	23.21	172.82	-25.09	204.29	29.81	-15.41	45.22	0.659	Level 1
6,650.00	6,637.67	6,653.11	6,640.76	23.38	23.39	172.79	-25.64	209.49	29.81	-15.77	45.58	0.654	Level 1
6,700.00	6,687.40	6,703.11	6,690.49	23.55	23.56	172.77	-26.20	214.68	29.81	-16.12	45.93	0.649	Level 1
6,750.00	6,737.13	6,753.11	6,740.22	23.73	23.74	172.74	-26.76	219.88	29.82	-16.50	46.31	0.644	Level 1
6,800.00	6,786.85	6,803.11	6,789.94	23.91	23.92	172.72	-27.31	225.08	29.82	-16.84	46.66	0.639	Level 1
6,850.00	6,836.58	6,853.11	6,839.67	24.09	24.10	172.69	-27.87	230.27	29.82	-17.20	47.02	0.634	Level 1
6,900.00	6,886.30	6,903.11	6,889.40	24.26	24.27	172.66	-28.43	235.47	29.82	-17.54	47.36	0.630	Level 1
6,950.00	6,936.03	6,953.11	6,939.12	24.44	24.45	172.64	-28.98	240.67	29.82	-17.92	47.74	0.625	Level 1
7,000.00	6,985.76	7,003.11	6,988.85	24.62	24.63	172.61	-29.54	245.86	29.82	-18.27	48.09	0.620	Level 1
7,050.00	7,035.48	7,053.11	7,038.57	24.80	24.81	172.59	-30.10	251.06	29.83	-18.64	48.46	0.615	Level 1
7,100.00	7,085.21	7,103.11	7,088.30	24.98	24.99	172.56	-30.65	256.26	29.83	-18.99	48.82	0.611	Level 1
7,150.00	7,134.94	7,153.11	7,138.03	25.15	25.16	172.53	-31.21	261.45	29.83	-19.37	49.20	0.606	Level 1
7,200.00	7,184.66	7,203.11	7,187.75	25.33	25.34	172.51	-31.77	266.65	29.83	-19.72	49.55	0.602	Level 1
7,250.00	7,234.39	7,253.11	7,237.48	25.51	25.52	172.48	-32.32	271.85	29.83	-20.09	49.92	0.598	Level 1
7,300.00	7,284.11	7,303.11	7,287.20	25.69	25.70	172.45	-32.88	277.04	29.83	-20.44	50.28	0.593	Level 1
7,350.00	7,333.84	7,353.11	7,336.93	25.87	25.88	172.43	-33.44	282.24	29.84	-20.82	50.66	0.589	Level 1
7,400.00	7,383.57	7,403.11	7,386.66	26.05	26.06	172.40	-33.99	287.44	29.84	-21.18	51.02	0.585	Level 1
7,450.00	7,433.29	7,453.11	7,436.38	26.22	26.23	172.38	-34.55	292.63	29.84	-21.53	51.37	0.581	Level 1
7,500.00	7,483.02	7,503.11	7,486.11	26.40	26.41	172.35	-35.11	297.83	29.84	-21.91	51.76	0.577	Level 1
7,550.00	7,532.74	7,553.11	7,535.83	26.58	26.59	172.32	-35.66	303.03	29.84	-22.27	52.11	0.573	Level 1
7,600.00	7,582.47	7,603.11	7,585.56	26.76	26.77	172.30	-36.22	308.22	29.85	-22.65	52.49	0.569	Level 1
7,650.00	7,632.20	7,653.11	7,635.29	26.94	26.95	172.27	-36.78	313.42	29.85	-23.00	52.85	0.565	Level 1
7,700.00	7,681.92	7,703.11	7,685.01	27.12	27.13	172.25	-37.33	318.62	29.85	-23.37	53.22	0.561	Level 1
7,750.00	7,731.65	7,753.11	7,734.74	27.30	27.31	172.22	-37.89	323.81	29.85	-23.72	53.58	0.557	Level 1
7,800.00	7,781.37	7,803.11	7,784.46	27.48	27.49	172.19	-38.45	329.01	29.85	-24.08	53.93	0.554	Level 1
7,850.00	7,831.10	7,853.11	7,834.19	27.65	27.66	172.17	-39.00	334.21	29.86	-24.47	54.33	0.550	Level 1
7,900.00	7,880.83	7,903.11	7,883.92	27.83	27.84	172.14	-39.56	339.40	29.86	-24.82	54.68	0.546	Level 1
7,950.00	7,930.55	7,953.11	7,933.64	28.01	28.02	172.11	-40.12	344.60	29.86	-25.18	55.04	0.543	Level 1
8,000.00	7,980.28	8,003.11	7,983.37	28.19	28.20	172.09	-40.67	349.80	29.86	-25.53	55.39	0.539	Level 1
8,050.00	8,030.00	8,053.11	8,033.10	28.37	28.38	172.06	-41.23	354.99	29.86	-25.92	55.78	0.535	Level 1
8,100.00	8,079.73	8,103.11	8,082.82	28.55	28.56	172.04	-41.79	360.19	29.86	-26.29	56.16	0.532	Level 1
8,150.00	8,129.46	8,153.11	8,132.55	28.73	28.74	172.01	-42.34	365.39	29.87	-26.66	56.52	0.528	Level 1
8,200.00	8,179.18	8,203.11	8,182.27	28.91	28.92	171.98	-42.90	370.58	29.87	-27.01	56.88	0.525	Level 1
8,250.00	8,228.91	8,253.11	8,232.00	29.09	29.10	171.96	-43.46	375.78	29.87	-27.36	57.23	0.522	Level 1
8,300.00	8,278.64	8,303.11	8,281.73	29.27	29.28	171.93	-44.01	380.98	29.87	-27.75	57.62	0.518	Level 1
8,350.00	8,328.36	8,353.11	8,331.45	29.45	29.46	171.91	-44.57	386.17	29.87	-28.10	57.98	0.515	Level 1
8,400.00	8,378.09	8,403.11	8,381.18	29.63	29.64	171.88	-45.13	391.37	29.88	-28.46	58.34	0.512	Level 1
8,450.00	8,427.81	8,453.11	8,430.90	29.81	29.82	171.85	-45.68	396.57	29.88	-28.84	58.71	0.509	Level 1
8,500.00	8,477.54	8,503.11	8,480.63	29.99	30.00	171.83	-46.24	401.76	29.88	-29.19	59.07	0.506	Level 1
8,550.00	8,527.27	8,553.11	8,530.36	30.17	30.18	171.80	-46.80	406.96	29.88	-29.58	59.46	0.503	Level 1

Anticollision Report

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.00	8,576.99	8,603.11	8,580.08	30.34	30.36	171.78	-47.35	412.16	29.88	-29.93	59.82	0.500	Level 1
8,650.00	8,626.72	8,653.11	8,629.81	30.52	30.53	171.75	-47.91	417.35	29.89	-30.29	60.17	0.497	Level 1
8,700.00	8,676.44	8,703.11	8,679.53	30.70	30.71	171.72	-48.47	422.55	29.89	-30.68	60.57	0.493	Level 1
8,750.00	8,726.17	8,753.11	8,729.26	30.88	30.89	171.70	-49.02	427.75	29.89	-31.04	60.93	0.491	Level 1
8,800.00	8,775.90	8,803.11	8,778.99	31.06	31.07	171.67	-49.58	432.94	29.89	-31.40	61.29	0.488	Level 1
8,850.00	8,825.62	8,853.11	8,828.71	31.24	31.25	171.65	-50.14	438.14	29.89	-31.76	61.65	0.485	Level 1
8,900.00	8,875.35	8,903.11	8,878.44	31.42	31.43	171.62	-50.69	443.34	29.90	-32.13	62.02	0.482	Level 1
8,950.00	8,925.07	8,953.11	8,928.17	31.60	31.61	171.59	-51.25	448.53	29.90	-32.50	62.40	0.479	Level 1
9,000.00	8,974.80	9,003.11	8,977.89	31.78	31.79	171.57	-51.81	453.73	29.90	-32.86	62.76	0.476	Level 1
9,003.39	8,978.17	9,006.50	8,981.26	31.80	31.81	171.57	-51.84	454.08	29.90	-32.88	62.78	0.476	Level 1
9,050.00	9,024.53	9,053.08	9,027.59	31.96	31.97	171.54	-52.36	458.92	29.90	-33.24	63.15	0.474	Level 1, SF
9,100.00	9,074.25	9,102.56	9,076.85	32.14	32.15	171.65	-52.86	463.59	30.38	-33.45	63.84	0.476	Level 1, ES
9,150.00	9,123.98	9,152.01	9,126.15	32.32	32.33	171.98	-53.27	467.41	31.72	-32.68	64.40	0.493	Level 1
9,200.00	9,173.71	9,201.40	9,175.45	32.50	32.51	172.48	-53.59	470.38	33.91	-30.92	64.83	0.523	Level 1
9,250.00	9,223.43	9,250.71	9,224.70	32.68	32.68	173.09	-53.82	472.51	36.94	-28.19	65.13	0.567	Level 1
9,300.00	9,273.21	9,300.00	9,273.98	32.86	32.85	173.66	-53.95	473.78	40.28	-25.08	65.35	0.616	Level 1
9,350.00	9,323.07	9,349.11	9,323.09	33.04	33.03	174.14	-54.00	474.22	43.60	-21.85	65.45	0.666	Level 1
9,400.00	9,372.98	9,399.01	9,372.98	33.22	33.20	174.52	-54.00	474.22	46.50	-19.32	65.82	0.706	Level 1
9,450.00	9,422.94	9,448.96	9,422.94	33.40	33.38	174.75	-54.00	474.22	48.53	-17.66	66.19	0.733	Level 1
9,500.00	9,472.93	9,498.95	9,472.93	33.58	33.55	174.88	-54.00	474.22	49.70	-16.86	66.56	0.747	Level 1
9,550.00	9,522.93	9,548.95	9,522.93	33.75	33.73	-89.13	-54.00	474.22	50.01	-16.91	66.92	0.747	Level 1
9,600.00	9,572.93	9,598.95	9,572.93	33.93	33.90	-89.13	-54.00	474.22	50.01	-17.26	67.27	0.743	Level 1
9,650.00	9,622.93	9,648.95	9,622.93	34.10	34.08	-89.13	-54.00	474.22	50.01	-17.62	67.62	0.739	Level 1
9,700.00	9,672.93	9,699.11	9,673.07	34.28	34.26	-87.97	-52.99	474.30	49.95	-18.06	68.01	0.734	Level 1
9,728.05	9,700.97	9,727.12	9,700.98	34.38	34.35	-85.28	-50.65	474.50	49.89	-18.27	68.16	0.732	Level 1
9,750.00	9,722.93	9,748.84	9,722.52	34.45	34.43	-82.12	-47.91	474.73	49.97	-18.22	68.19	0.733	Level 1
9,800.00	9,772.93	9,797.34	9,770.15	34.63	34.60	-71.92	-38.85	475.48	51.35	-16.26	67.61	0.759	Level 1
9,850.00	9,822.93	9,843.99	9,815.07	34.80	34.76	-59.25	-26.38	476.51	56.06	-9.79	65.85	0.851	Level 1
9,900.00	9,872.92	9,888.52	9,856.88	34.98	34.90	-46.72	-11.12	477.78	65.29	1.44	63.85	1.023	Level 2
9,950.00	9,922.70	9,931.88	9,896.32	35.15	35.04	-37.09	6.80	479.27	76.80	14.51	62.29	1.233	Level 2
10,000.00	9,971.89	9,974.30	9,933.48	35.33	35.16	-30.06	27.17	480.96	89.22	28.56	60.67	1.471	Level 3
10,050.00	10,020.13	10,015.89	9,968.35	35.50	35.28	-24.80	49.74	482.84	101.90	42.93	58.98	1.728	
10,100.00	10,067.04	10,056.74	10,000.92	35.66	35.38	-20.76	74.30	484.88	114.44	57.23	57.21	2.000	
10,150.00	10,112.27	10,100.00	10,033.39	35.81	35.49	-17.37	102.77	487.25	126.64	70.46	56.17	2.254	
10,200.00	10,155.48	10,136.52	10,059.07	35.96	35.57	-14.97	128.64	489.40	138.17	84.61	53.56	2.580	
10,250.00	10,196.33	10,175.59	10,084.64	36.09	35.65	-12.82	158.06	491.84	149.06	97.34	51.73	2.882	
10,300.00	10,234.51	10,214.20	10,107.88	36.22	35.73	-10.99	188.78	494.39	159.18	109.25	49.93	3.188	
10,350.00	10,269.74	10,250.00	10,127.53	36.33	35.80	-9.50	218.60	496.87	168.46	120.66	47.80	3.524	
10,400.00	10,301.74	10,290.26	10,147.35	36.44	35.86	-8.03	253.51	499.77	176.80	130.23	46.57	3.797	
10,450.00	10,330.28	10,327.81	10,163.57	36.53	35.92	-6.79	287.25	502.58	184.20	139.13	45.06	4.087	
10,500.00	10,355.13	10,365.10	10,177.46	36.62	35.98	-5.67	321.74	505.44	190.60	146.88	43.72	4.359	
10,550.00	10,376.10	10,400.00	10,188.39	36.69	36.02	-4.69	354.76	508.19	196.00	153.62	42.38	4.625	
10,600.00	10,393.04	10,439.09	10,198.20	36.76	36.07	-3.67	392.46	511.32	200.32	158.68	41.65	4.810	
10,650.00	10,405.82	10,475.87	10,205.07	36.82	36.11	-2.76	428.46	514.31	203.59	162.63	40.96	4.971	
10,700.00	10,414.34	10,512.55	10,209.59	36.87	36.14	-1.89	464.73	517.32	205.78	165.25	40.53	5.077	
10,750.00	10,418.53	10,550.00	10,211.80	36.91	36.18	-1.02	501.98	520.42	206.88	166.48	40.40	5.121	
10,800.00	10,419.00	10,593.23	10,212.00	36.94	36.20	-0.21	545.11	523.31	207.00	166.48	40.53	5.108	
10,824.08	10,419.00	10,617.29	10,212.00	36.96	36.22	-0.12	569.17	523.63	207.00	166.39	40.61	5.097	
10,850.00	10,419.00	10,643.21	10,212.00	36.98	36.24	-0.12	595.08	523.63	207.00	166.30	40.70	5.086	
10,900.00	10,419.00	10,693.21	10,212.00	37.02	36.29	-0.12	645.08	523.62	207.00	166.12	40.88	5.064	
10,950.00	10,419.00	10,743.21	10,212.00	37.06	36.34	-0.12	695.08	523.62	207.00	165.92	41.08	5.039	

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

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,000.00	10,419.00	10,793.21	10,212.00	37.11	36.39	-0.12	745.08	523.61	207.00	165.72	41.28	5.014	
11,050.00	10,419.00	10,843.21	10,212.00	37.17	36.45	-0.12	795.08	523.60	207.00	165.49	41.51	4.987	
11,100.00	10,419.00	10,893.21	10,212.00	37.23	36.51	-0.12	845.08	523.60	207.00	165.26	41.74	4.960	
11,150.00	10,419.00	10,943.21	10,212.00	37.29	36.58	-0.11	895.08	523.59	207.00	165.01	41.99	4.929	
11,200.00	10,419.00	10,993.21	10,212.00	37.36	36.65	-0.11	945.08	523.58	207.00	164.75	42.25	4.900	
11,250.00	10,419.00	11,043.21	10,212.00	37.43	36.72	-0.11	995.08	523.58	207.00	164.47	42.53	4.867	
11,300.00	10,419.00	11,093.21	10,212.00	37.51	36.80	-0.11	1,045.08	523.57	207.00	164.19	42.81	4.835	
11,350.00	10,419.00	11,143.21	10,212.00	37.59	36.88	-0.11	1,095.08	523.56	207.00	163.89	43.11	4.801	
11,400.00	10,419.00	11,193.21	10,212.00	37.67	36.96	-0.11	1,145.08	523.56	207.00	163.58	43.42	4.767	
11,450.00	10,419.00	11,243.21	10,212.00	37.76	37.05	-0.11	1,195.08	523.55	207.00	163.25	43.75	4.732	
11,500.00	10,419.00	11,293.21	10,212.00	37.85	37.15	-0.11	1,245.08	523.54	207.00	162.92	44.08	4.696	
11,550.00	10,419.00	11,343.21	10,212.00	37.94	37.24	-0.10	1,295.08	523.54	207.00	162.57	44.43	4.659	
11,600.00	10,419.00	11,393.21	10,212.00	38.04	37.34	-0.10	1,345.08	523.53	207.00	162.22	44.78	4.623	
11,650.00	10,419.00	11,443.21	10,212.00	38.14	37.45	-0.10	1,395.08	523.52	207.00	161.85	45.15	4.584	
11,700.00	10,419.00	11,493.21	10,212.00	38.24	37.55	-0.10	1,445.08	523.52	207.00	161.47	45.53	4.547	
11,750.00	10,419.00	11,543.21	10,212.00	38.35	37.66	-0.10	1,495.08	523.51	207.00	161.08	45.92	4.508	
11,800.00	10,419.00	11,593.21	10,212.00	38.46	37.78	-0.10	1,545.08	523.50	207.00	160.69	46.31	4.469	
11,850.00	10,419.00	11,643.21	10,212.00	38.58	37.89	-0.10	1,595.08	523.50	207.00	160.27	46.73	4.430	
11,900.00	10,419.00	11,693.21	10,212.00	38.70	38.01	-0.10	1,645.08	523.49	207.00	159.86	47.14	4.391	
11,950.00	10,419.00	11,743.21	10,212.00	38.82	38.14	-0.09	1,695.08	523.48	207.00	159.43	47.57	4.351	
12,000.00	10,419.00	11,793.21	10,212.00	38.95	38.27	-0.09	1,745.08	523.48	207.00	159.00	48.00	4.312	
12,050.00	10,419.00	11,843.21	10,212.00	39.08	38.40	-0.09	1,795.08	523.47	207.00	158.55	48.45	4.272	
12,100.00	10,419.00	11,893.21	10,212.00	39.21	38.53	-0.09	1,845.08	523.46	207.00	158.10	48.90	4.233	
12,150.00	10,419.00	11,943.21	10,212.00	39.35	38.67	-0.09	1,895.08	523.45	207.00	157.63	49.37	4.193	
12,200.00	10,419.00	11,993.21	10,212.00	39.48	38.81	-0.09	1,945.08	523.45	207.00	157.17	49.83	4.154	
12,250.00	10,419.00	12,043.21	10,212.00	39.63	38.95	-0.09	1,995.08	523.44	207.00	156.69	50.31	4.114	
12,300.00	10,419.00	12,093.21	10,212.00	39.77	39.10	-0.08	2,045.08	523.43	207.00	156.21	50.79	4.075	
12,350.00	10,419.00	12,143.21	10,212.00	39.92	39.25	-0.08	2,095.08	523.43	207.00	155.71	51.29	4.036	
12,400.00	10,419.00	12,193.21	10,212.00	40.07	39.40	-0.08	2,145.08	523.42	207.00	155.21	51.79	3.997	
12,450.00	10,419.00	12,243.21	10,212.00	40.22	39.56	-0.08	2,195.08	523.41	207.00	154.70	52.30	3.958	
12,500.00	10,419.00	12,293.21	10,212.00	40.38	39.72	-0.08	2,245.08	523.41	207.00	154.19	52.81	3.920	
12,550.00	10,419.00	12,343.21	10,212.00	40.54	39.88	-0.08	2,295.08	523.40	207.00	153.67	53.33	3.882	
12,600.00	10,419.00	12,393.21	10,212.00	40.70	40.05	-0.08	2,345.08	523.39	207.00	153.15	53.85	3.844	
12,650.00	10,419.00	12,443.21	10,212.00	40.87	40.22	-0.08	2,395.08	523.39	207.00	152.61	54.39	3.806	
12,700.00	10,419.00	12,493.21	10,212.00	41.04	40.39	-0.07	2,445.08	523.38	207.00	152.08	54.92	3.769	
12,750.00	10,419.00	12,543.21	10,212.00	41.21	40.56	-0.07	2,495.08	523.37	207.00	151.53	55.47	3.732	
12,800.00	10,419.00	12,593.21	10,212.00	41.39	40.74	-0.07	2,545.08	523.37	207.00	150.98	56.02	3.695	
12,850.00	10,419.00	12,643.21	10,212.00	41.57	40.92	-0.07	2,595.08	523.36	207.00	150.42	56.58	3.659	
12,900.00	10,419.00	12,693.21	10,212.00	41.74	41.10	-0.07	2,645.08	523.35	207.00	149.87	57.14	3.623	
12,950.00	10,419.00	12,743.21	10,212.00	41.93	41.29	-0.07	2,695.08	523.35	207.00	149.30	57.70	3.587	
13,000.00	10,419.00	12,793.21	10,212.00	42.11	41.48	-0.07	2,745.08	523.34	207.00	148.73	58.27	3.552	
13,050.00	10,419.00	12,843.21	10,212.00	42.30	41.67	-0.07	2,795.08	523.33	207.00	148.15	58.85	3.517	
13,100.00	10,419.00	12,893.21	10,212.00	42.49	41.86	-0.06	2,845.08	523.33	207.00	147.57	59.43	3.483	
13,150.00	10,419.00	12,943.21	10,212.00	42.69	42.06	-0.06	2,895.08	523.32	207.00	146.98	60.02	3.449	
13,200.00	10,419.00	12,993.21	10,212.00	42.88	42.25	-0.06	2,945.08	523.31	207.00	146.39	60.61	3.416	
13,250.00	10,419.00	13,043.21	10,212.00	43.08	42.46	-0.06	2,995.08	523.31	207.00	145.80	61.20	3.382	
13,300.00	10,419.00	13,093.21	10,212.00	43.28	42.66	-0.06	3,045.08	523.30	207.00	145.20	61.80	3.350	
13,350.00	10,419.00	13,143.21	10,212.00	43.49	42.87	-0.06	3,095.08	523.29	207.00	144.60	62.40	3.317	
13,400.00	10,419.00	13,193.21	10,212.00	43.69	43.07	-0.06	3,145.08	523.29	207.00	143.99	63.01	3.285	
13,450.00	10,419.00	13,243.21	10,212.00	43.90	43.28	-0.05	3,195.08	523.28	207.00	143.38	63.62	3.254	
13,500.00	10,419.00	13,293.21	10,212.00	44.11	43.50	-0.05	3,245.08	523.27	207.00	142.77	64.23	3.223	

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 108H - CORRAL CANYON 3-34 FED 108H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,550.00	10,419.00	13,343.21	10,212.00	44.32	43.71	-0.05	3,295.08	523.27	207.00	142.15	64.85	3.192	
13,600.00	10,419.00	13,393.21	10,212.00	44.54	43.93	-0.05	3,345.08	523.26	207.00	141.53	65.47	3.162	
13,650.00	10,419.00	13,443.21	10,212.00	44.76	44.15	-0.05	3,395.08	523.25	207.00	140.90	66.10	3.132	
13,700.00	10,419.00	13,493.21	10,212.00	44.97	44.37	-0.05	3,445.08	523.25	207.00	140.27	66.73	3.102	
13,750.00	10,419.00	13,543.21	10,212.00	45.20	44.60	-0.05	3,495.08	523.24	207.00	139.64	67.36	3.073	
13,800.00	10,419.00	13,593.21	10,212.00	45.42	44.82	-0.05	3,545.08	523.23	207.00	139.01	67.99	3.044	
13,850.00	10,419.00	13,643.21	10,212.00	45.65	45.05	-0.04	3,595.08	523.23	207.00	138.37	68.63	3.016	
13,900.00	10,419.00	13,693.21	10,212.00	45.87	45.28	-0.04	3,645.08	523.22	207.00	137.73	69.27	2.988	
13,950.00	10,419.00	13,743.21	10,212.00	46.10	45.51	-0.04	3,695.08	523.21	207.00	137.08	69.92	2.961	
14,000.00	10,419.00	13,793.21	10,212.00	46.34	45.75	-0.04	3,745.08	523.21	207.00	136.44	70.56	2.934	
14,050.00	10,419.00	13,843.21	10,212.00	46.57	45.99	-0.04	3,795.08	523.20	207.00	135.79	71.21	2.907	
14,100.00	10,419.00	13,893.21	10,212.00	46.81	46.22	-0.04	3,845.08	523.19	207.00	135.14	71.86	2.880	
14,150.00	10,419.00	13,943.21	10,212.00	47.04	46.46	-0.04	3,895.08	523.19	207.00	134.48	72.52	2.854	
14,200.00	10,419.00	13,993.21	10,212.00	47.28	46.71	-0.04	3,945.08	523.18	207.00	133.82	73.18	2.829	
14,250.00	10,419.00	14,043.21	10,212.00	47.53	46.95	-0.03	3,995.08	523.17	207.00	133.16	73.84	2.803	
14,300.00	10,419.00	14,093.21	10,212.00	47.77	47.20	-0.03	4,045.08	523.17	207.00	132.50	74.50	2.779	
14,350.00	10,419.00	14,143.21	10,212.00	48.01	47.45	-0.03	4,095.08	523.16	207.00	131.84	75.16	2.754	
14,400.00	10,419.00	14,193.21	10,212.00	48.26	47.69	-0.03	4,145.08	523.15	207.00	131.17	75.83	2.730	
14,450.00	10,419.00	14,243.21	10,212.00	48.51	47.95	-0.03	4,195.08	523.15	207.00	130.50	76.50	2.706	
14,500.00	10,419.00	14,293.21	10,212.00	48.76	48.20	-0.03	4,245.08	523.14	207.00	129.83	77.17	2.682	
14,550.00	10,419.00	14,343.21	10,212.00	49.01	48.45	-0.03	4,295.08	523.13	207.00	129.16	77.84	2.659	
14,600.00	10,419.00	14,393.21	10,212.00	49.27	48.71	-0.02	4,345.08	523.13	207.00	128.48	78.52	2.636	
14,650.00	10,419.00	14,443.21	10,212.00	49.52	48.97	-0.02	4,395.08	523.12	207.00	127.80	79.20	2.614	
14,700.00	10,419.00	14,493.21	10,212.00	49.78	49.23	-0.02	4,445.08	523.11	207.00	127.12	79.88	2.592	
14,750.00	10,419.00	14,543.21	10,212.00	50.04	49.49	-0.02	4,495.08	523.11	207.00	126.44	80.56	2.570	
14,800.00	10,419.00	14,593.21	10,212.00	50.30	49.75	-0.02	4,545.08	523.10	207.00	125.76	81.24	2.548	
14,850.00	10,419.00	14,643.21	10,212.00	50.56	50.02	-0.02	4,595.08	523.09	207.00	125.07	81.93	2.527	
14,900.00	10,419.00	14,693.21	10,212.00	50.82	50.28	-0.02	4,645.08	523.09	207.00	124.39	82.61	2.506	
14,950.00	10,419.00	14,743.21	10,212.00	51.09	50.55	-0.02	4,695.08	523.08	207.00	123.70	83.30	2.485	
15,000.00	10,419.00	14,793.21	10,212.00	51.36	50.82	-0.01	4,745.08	523.07	207.00	123.01	83.99	2.465	
15,050.00	10,419.00	14,843.21	10,212.00	51.62	51.09	-0.01	4,795.08	523.07	207.00	122.32	84.68	2.444	
15,100.00	10,419.00	14,893.21	10,212.00	51.89	51.36	-0.01	4,845.08	523.06	207.00	121.62	85.38	2.425	
15,150.00	10,419.00	14,943.21	10,212.00	52.16	51.64	-0.01	4,895.08	523.05	207.00	120.93	86.07	2.405	
15,200.00	10,419.00	14,993.21	10,212.00	52.44	51.91	-0.01	4,945.08	523.05	207.00	120.23	86.77	2.386	
15,250.00	10,419.00	15,043.21	10,212.00	52.71	52.19	-0.01	4,995.08	523.04	207.00	119.53	87.47	2.367	
15,300.00	10,419.00	15,093.21	10,212.00	52.98	52.46	-0.01	5,045.08	523.03	207.00	118.84	88.16	2.348	
15,350.00	10,419.00	15,143.21	10,212.00	53.26	52.74	-0.01	5,095.08	523.03	207.00	118.13	88.87	2.329	
15,400.00	10,419.00	15,193.21	10,212.00	53.54	53.02	0.00	5,145.08	523.02	207.00	117.43	89.57	2.311	
15,450.00	10,419.00	15,243.21	10,212.00	53.82	53.30	0.00	5,195.08	523.01	207.00	116.73	90.27	2.293	
15,500.00	10,419.00	15,293.21	10,212.00	54.10	53.59	0.00	5,245.08	523.01	207.00	116.02	90.98	2.275	
15,528.53	10,419.00	15,321.74	10,212.00	54.26	53.75	0.00	5,273.61	523.00	207.00	115.62	91.38	2.265	
15,542.62	10,419.00	15,335.83	10,212.00	54.34	53.83	0.00	5,287.70	523.00	207.00	115.42	91.58	2.260	

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 127H - CORRAL CANYON 3-34 FED 127H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.10	-0.10	-59.90	59.90				
50.00	50.00	50.00	50.00	0.04	0.07	-90.10	-0.10	-59.90	59.90	59.79	0.11	561.675	
100.00	100.00	100.00	100.00	0.13	0.13	-90.10	-0.10	-59.90	59.90	59.64	0.26	228.902	
150.00	150.00	150.00	150.00	0.31	0.31	-90.10	-0.10	-59.90	59.90	59.28	0.62	96.589	
200.00	200.00	200.00	200.00	0.49	0.49	-90.10	-0.10	-59.90	59.90	58.92	0.98	61.208	
250.00	250.00	250.00	250.00	0.67	0.67	-90.10	-0.10	-59.90	59.90	58.56	1.34	44.799	
300.00	300.00	300.00	300.00	0.85	0.85	-90.10	-0.10	-59.90	59.90	58.20	1.70	35.327	
350.00	350.00	350.00	350.00	1.03	1.03	-90.10	-0.10	-59.90	59.90	57.85	2.05	29.162	
400.00	400.00	400.00	400.00	1.21	1.21	-90.10	-0.10	-59.90	59.90	57.49	2.41	24.829	
450.00	450.00	450.00	450.00	1.39	1.39	-90.10	-0.10	-59.90	59.90	57.13	2.77	21.617	
500.00	500.00	500.00	500.00	1.56	1.56	-90.10	-0.10	-59.90	59.90	56.77	3.13	19.141	
550.00	550.00	550.00	550.00	1.74	1.74	-90.10	-0.10	-59.90	59.90	56.41	3.49	17.174	
600.00	600.00	600.00	600.00	1.92	1.92	-90.10	-0.10	-59.90	59.90	56.05	3.85	15.573	
650.00	650.00	650.00	650.00	2.10	2.10	-90.10	-0.10	-59.90	59.90	55.70	4.20	14.245	
700.00	700.00	700.00	700.00	2.28	2.28	-90.10	-0.10	-59.90	59.90	55.34	4.56	13.126	
750.00	750.00	750.00	750.00	2.46	2.46	-90.10	-0.10	-59.90	59.90	54.98	4.92	12.170	
800.00	800.00	800.00	800.00	2.64	2.64	-90.10	-0.10	-59.90	59.90	54.62	5.28	11.344	
850.00	850.00	850.00	850.00	2.82	2.82	-90.10	-0.10	-59.90	59.90	54.26	5.64	10.623	
900.00	900.00	900.00	900.00	3.00	3.00	-90.10	-0.10	-59.90	59.90	53.90	6.00	9.988	
950.00	950.00	950.00	950.00	3.18	3.18	-90.10	-0.10	-59.90	59.90	53.54	6.36	9.425	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.10	-0.10	-59.90	59.90	53.19	6.71	8.921	
1,050.00	1,050.00	1,050.00	1,050.00	3.54	3.54	-90.10	-0.10	-59.90	59.90	52.83	7.07	8.469	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.10	-0.10	-59.90	59.90	52.47	7.43	8.061	
1,150.00	1,150.00	1,150.00	1,150.00	3.89	3.89	-90.10	-0.10	-59.90	59.90	52.11	7.79	7.690	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.10	-0.10	-59.90	59.90	51.75	8.15	7.351	
1,250.00	1,250.00	1,250.00	1,250.00	4.25	4.25	-90.10	-0.10	-59.90	59.90	51.39	8.51	7.042	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.10	-0.10	-59.90	59.90	51.04	8.87	6.757	
1,350.00	1,350.00	1,350.00	1,350.00	4.61	4.61	-90.10	-0.10	-59.90	59.90	50.68	9.22	6.494	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.10	-0.10	-59.90	59.90	50.32	9.58	6.251	
1,450.00	1,450.00	1,450.00	1,450.00	4.97	4.97	-90.10	-0.10	-59.90	59.90	49.96	9.94	6.026	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.10	-0.10	-59.90	59.90	49.60	10.30	5.816	
1,550.00	1,550.00	1,550.00	1,550.00	5.33	5.33	-90.10	-0.10	-59.90	59.90	49.24	10.66	5.621	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.10	-0.10	-59.90	59.90	48.88	11.02	5.438	
1,650.00	1,650.00	1,650.00	1,650.00	5.69	5.69	-90.10	-0.10	-59.90	59.90	48.53	11.37	5.266	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.10	-0.10	-59.90	59.90	48.17	11.73	5.105	
1,750.00	1,750.00	1,750.00	1,750.00	6.05	6.05	-90.10	-0.10	-59.90	59.90	47.81	12.09	4.954	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.10	-0.10	-59.90	59.90	47.45	12.45	4.811	
1,850.00	1,850.00	1,850.00	1,850.00	6.40	6.40	-90.10	-0.10	-59.90	59.90	47.09	12.81	4.677	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.10	-0.10	-59.90	59.90	46.73	13.17	4.549	
1,950.00	1,950.00	1,950.00	1,950.00	6.76	6.76	-90.10	-0.10	-59.90	59.90	46.37	13.53	4.429	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.10	-0.10	-59.90	59.90	46.02	13.88	4.314	
2,050.00	2,050.00	2,050.00	2,050.00	7.12	7.12	-90.10	-0.10	-59.90	59.90	45.66	14.24	4.206	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-90.10	-0.10	-59.90	59.90	45.30	14.60	4.103	
2,150.00	2,150.00	2,150.00	2,150.00	7.48	7.48	-90.10	-0.10	-59.90	59.90	44.94	14.96	4.004	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-90.10	-0.10	-59.90	59.90	44.58	15.32	3.911	
2,250.00	2,250.00	2,250.00	2,250.00	7.84	7.84	-90.10	-0.10	-59.90	59.90	44.22	15.68	3.821	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-90.10	-0.10	-59.90	59.90	43.87	16.03	3.736	
2,350.00	2,350.00	2,350.00	2,350.00	8.20	8.20	-90.10	-0.10	-59.90	59.90	43.51	16.39	3.654	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-90.10	-0.10	-59.90	59.90	43.15	16.75	3.576	
2,450.00	2,450.00	2,450.00	2,450.00	8.55	8.55	-90.10	-0.10	-59.90	59.90	42.79	17.11	3.501	
2,500.00	2,500.00	2,500.00	2,500.00	8.73	8.73	-90.10	-0.10	-59.90	59.90	42.43	17.47	3.429	

Anticollision Report

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 127H - CORRAL CANYON 3-34 FED 127H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,550.00	2,550.00	2,550.00	2,550.00	8.91	8.91	-90.10	-0.10	-59.90	59.90	42.07	17.83	3.360	
2,600.00	2,600.00	2,600.00	2,600.00	9.09	9.09	-90.10	-0.10	-59.90	59.90	41.71	18.19	3.294	
2,650.00	2,650.00	2,650.00	2,650.00	9.27	9.27	-90.10	-0.10	-59.90	59.90	41.36	18.54	3.230	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-90.10	-0.10	-59.90	59.90	41.00	18.90	3.169	
2,750.00	2,750.00	2,750.00	2,750.00	9.63	9.63	-90.10	-0.10	-59.90	59.90	40.64	19.26	3.110	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	-90.10	-0.10	-59.90	59.90	40.28	19.62	3.053	
2,850.00	2,850.00	2,850.00	2,850.00	9.99	9.99	-90.10	-0.10	-59.90	59.90	39.92	19.98	2.998	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	-90.10	-0.10	-59.90	59.90	39.56	20.34	2.946	
2,950.00	2,950.00	2,950.00	2,950.00	10.35	10.35	-90.10	-0.10	-59.90	59.90	39.21	20.69	2.894	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-90.10	-0.10	-59.90	59.90	38.85	21.05	2.845	
3,050.00	3,050.00	3,050.00	3,050.00	10.71	10.71	-90.10	-0.10	-59.90	59.90	38.49	21.41	2.798	
3,100.00	3,100.00	3,100.00	3,100.00	10.88	10.88	-90.10	-0.10	-59.90	59.90	38.13	21.77	2.751	
3,150.00	3,150.00	3,150.00	3,150.00	11.06	11.06	-90.10	-0.10	-59.90	59.90	37.77	22.13	2.707	
3,200.00	3,200.00	3,200.00	3,200.00	11.24	11.24	-90.10	-0.10	-59.90	59.90	37.41	22.49	2.664	
3,250.00	3,250.00	3,250.00	3,250.00	11.42	11.42	-90.10	-0.10	-59.90	59.90	37.05	22.85	2.622	
3,300.00	3,300.00	3,300.00	3,300.00	11.60	11.60	-90.10	-0.10	-59.90	59.90	36.70	23.20	2.581	
3,350.00	3,350.00	3,350.00	3,350.00	11.78	11.78	-90.10	-0.10	-59.90	59.90	36.34	23.56	2.542	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	-90.10	-0.10	-59.90	59.90	35.98	23.92	2.504	
3,450.00	3,450.00	3,450.00	3,450.00	12.14	12.14	-90.10	-0.10	-59.90	59.90	35.62	24.28	2.467	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	-90.10	-0.10	-59.90	59.90	35.26	24.64	2.431	
3,550.00	3,550.00	3,550.00	3,550.00	12.50	12.50	-90.10	-0.10	-59.90	59.90	34.90	25.00	2.396	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	-90.10	-0.10	-59.90	59.90	34.55	25.35	2.362	
3,650.00	3,650.00	3,650.00	3,650.00	12.86	12.86	-90.10	-0.10	-59.90	59.90	34.19	25.71	2.330	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	-90.10	-0.10	-59.90	59.90	33.83	26.07	2.298	
3,750.00	3,750.00	3,750.00	3,750.00	13.22	13.22	-90.10	-0.10	-59.90	59.90	33.47	26.43	2.266	
3,800.00	3,800.00	3,800.00	3,800.00	13.39	13.39	-90.10	-0.10	-59.90	59.90	33.11	26.79	2.236	
3,850.00	3,850.00	3,850.00	3,850.00	13.57	13.57	-90.10	-0.10	-59.90	59.90	32.75	27.15	2.207	
3,900.00	3,900.00	3,900.00	3,900.00	13.75	13.75	-90.10	-0.10	-59.90	59.90	32.39	27.51	2.178	
3,950.00	3,950.00	3,950.00	3,950.00	13.93	13.93	-90.10	-0.10	-59.90	59.90	32.04	27.86	2.150	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	-90.10	-0.10	-59.90	59.90	31.68	28.22	2.122	
4,050.00	4,050.00	4,050.00	4,050.00	14.29	14.29	-90.10	-0.10	-59.90	59.90	31.32	28.58	2.096	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	-90.10	-0.10	-59.90	59.90	30.96	28.94	2.070	
4,150.00	4,150.00	4,150.00	4,150.00	14.65	14.65	-90.10	-0.10	-59.90	59.90	30.60	29.30	2.045	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	-90.10	-0.10	-59.90	59.90	30.24	29.66	2.020	CC, ES
4,250.00	4,250.00	4,250.00	4,250.00	15.00	15.01	173.98	-0.10	-59.90	60.33	30.32	30.01	2.010	SF
4,300.00	4,299.98	4,299.98	4,299.98	15.18	15.19	174.11	-0.10	-59.90	61.64	31.27	30.36	2.030	
4,350.00	4,349.93	4,349.93	4,349.93	15.35	15.37	174.31	-0.10	-59.90	63.81	33.09	30.71	2.078	
4,400.00	4,399.84	4,399.84	4,399.84	15.52	15.54	174.56	-0.10	-59.90	66.84	35.78	31.06	2.152	
4,450.00	4,449.68	4,449.68	4,449.68	15.69	15.72	174.85	-0.10	-59.90	70.75	39.34	31.41	2.253	
4,500.00	4,499.45	4,499.45	4,499.45	15.86	15.90	175.17	-0.10	-59.90	75.52	43.77	31.76	2.378	
4,550.00	4,549.18	4,549.18	4,549.18	16.03	16.08	175.48	-0.10	-59.90	80.73	48.63	32.10	2.515	
4,600.00	4,598.90	4,598.90	4,598.90	16.20	16.26	175.76	-0.10	-59.90	85.94	53.49	32.45	2.649	
4,650.00	4,648.63	4,648.63	4,648.63	16.37	16.44	176.00	-0.10	-59.90	91.16	58.36	32.80	2.779	
4,700.00	4,698.36	4,698.36	4,698.36	16.54	16.61	176.22	-0.10	-59.90	96.37	63.23	33.15	2.908	
4,750.00	4,748.08	4,748.13	4,748.13	16.72	16.78	176.24	-0.40	-59.90	101.58	68.09	33.48	3.034	
4,800.00	4,797.81	4,797.91	4,797.90	16.89	16.95	175.91	-1.35	-59.90	106.76	72.93	33.82	3.156	
4,850.00	4,847.53	4,847.67	4,847.63	17.06	17.11	175.28	-2.95	-59.90	111.92	77.77	34.15	3.277	
4,900.00	4,897.26	4,897.39	4,897.30	17.23	17.27	174.39	-5.20	-59.90	117.10	82.61	34.48	3.396	
4,950.00	4,946.99	4,947.06	4,946.89	17.41	17.44	173.26	-8.09	-59.90	122.30	87.49	34.82	3.513	
5,000.00	4,996.71	4,996.66	4,996.36	17.58	17.60	171.95	-11.61	-59.90	127.57	92.43	35.15	3.630	
5,050.00	5,046.44	5,046.20	5,045.73	17.75	17.76	170.46	-15.76	-59.90	132.94	97.46	35.48	3.747	

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

Anticollision Report

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 127H - CORRAL CANYON 3-34 FED 127H - P — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+MS — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,096.17	5,095.78	5,095.12	17.93	17.92	169.02	-20.08	-59.90	138.41	102.60	35.81	3.865	
5,150.00	5,145.89	5,145.37	5,144.52	18.10	18.08	167.69	-24.40	-59.90	143.95	107.81	36.14	3.983	
5,200.00	5,195.62	5,194.95	5,193.91	18.27	18.24	166.46	-28.72	-59.90	149.57	113.10	36.47	4.101	
5,250.00	5,245.34	5,244.53	5,243.31	18.45	18.40	165.32	-33.04	-59.90	155.25	118.44	36.80	4.218	
5,300.00	5,295.07	5,294.12	5,292.70	18.62	18.56	164.26	-37.36	-59.90	160.98	123.85	37.14	4.335	
5,350.00	5,344.80	5,343.70	5,342.10	18.80	18.73	163.27	-41.69	-59.90	166.77	129.30	37.47	4.451	
5,400.00	5,394.52	5,393.29	5,391.49	18.97	18.89	162.35	-46.01	-59.90	172.61	134.80	37.80	4.566	
5,450.00	5,444.25	5,442.87	5,440.89	19.15	19.05	161.49	-50.33	-59.90	178.48	140.34	38.14	4.680	
5,500.00	5,493.97	5,492.46	5,490.29	19.32	19.21	160.68	-54.65	-59.90	184.39	145.92	38.47	4.793	
5,550.00	5,543.70	5,542.04	5,539.68	19.50	19.38	159.92	-58.97	-59.90	190.34	151.53	38.81	4.904	
5,600.00	5,593.43	5,591.62	5,589.08	19.67	19.54	159.21	-63.29	-59.90	196.32	157.17	39.15	5.015	
5,650.00	5,643.15	5,641.21	5,638.47	19.85	19.71	158.54	-67.61	-59.90	202.32	162.84	39.48	5.124	
5,700.00	5,692.88	5,690.79	5,687.87	20.02	19.87	157.91	-71.94	-59.90	208.35	168.53	39.82	5.232	
5,750.00	5,742.60	5,740.38	5,737.26	20.20	20.03	157.32	-76.26	-59.90	214.41	174.25	40.16	5.339	
5,800.00	5,792.33	5,789.96	5,786.66	20.37	20.20	156.76	-80.58	-59.90	220.48	179.99	40.50	5.444	
5,850.00	5,842.06	5,839.54	5,836.05	20.55	20.36	156.22	-84.90	-59.90	226.58	185.74	40.84	5.548	
5,900.00	5,891.78	5,889.13	5,885.45	20.72	20.53	155.72	-89.22	-59.90	232.69	191.52	41.18	5.651	
5,950.00	5,941.51	5,938.71	5,934.85	20.90	20.70	155.24	-93.54	-59.90	238.82	197.31	41.52	5.752	
6,000.00	5,991.23	5,989.29	5,985.25	21.08	20.86	154.84	-97.66	-59.90	244.88	203.01	41.87	5.849	
6,050.00	6,040.96	6,040.02	6,035.86	21.25	21.03	154.61	-101.12	-59.90	250.72	208.51	42.22	5.939	
6,100.00	6,090.69	6,090.82	6,086.58	21.43	21.21	154.53	-103.91	-59.90	256.35	213.78	42.57	6.022	
6,150.00	6,140.41	6,141.66	6,137.39	21.61	21.38	154.59	-106.02	-59.90	261.76	218.84	42.92	6.099	
6,200.00	6,190.14	6,192.54	6,188.25	21.78	21.55	154.79	-107.46	-59.90	266.96	223.69	43.27	6.170	
6,250.00	6,239.87	6,243.44	6,239.14	21.96	21.72	155.12	-108.23	-59.90	271.94	228.31	43.62	6.234	
6,300.00	6,289.59	6,293.89	6,289.59	22.14	21.90	155.56	-108.36	-59.90	276.73	232.76	43.98	6.293	
6,350.00	6,339.32	6,343.62	6,339.32	22.31	22.08	155.99	-108.36	-59.90	281.50	237.18	44.33	6.350	
6,400.00	6,389.04	6,393.35	6,389.04	22.49	22.25	156.42	-108.36	-59.90	286.29	241.61	44.68	6.407	
6,450.00	6,438.77	6,443.07	6,438.77	22.67	22.43	156.83	-108.36	-59.90	291.09	246.06	45.03	6.464	
6,500.00	6,488.50	6,492.80	6,488.50	22.84	22.61	157.23	-108.36	-59.90	295.91	250.52	45.39	6.520	
6,550.00	6,538.22	6,542.53	6,538.22	23.02	22.78	157.61	-108.36	-59.90	300.74	255.00	45.74	6.575	
6,600.00	6,587.95	6,592.25	6,587.95	23.20	22.96	157.99	-108.36	-59.90	305.58	259.49	46.09	6.630	
6,650.00	6,637.67	6,641.98	6,637.67	23.38	23.14	158.35	-108.36	-59.90	310.44	263.99	46.45	6.684	
6,700.00	6,687.40	6,691.70	6,687.40	23.55	23.32	158.70	-108.36	-59.90	315.30	268.50	46.80	6.737	
6,750.00	6,737.13	6,741.43	6,737.13	23.73	23.49	159.04	-108.36	-59.90	320.18	273.03	47.15	6.790	
6,800.00	6,786.85	6,791.16	6,786.85	23.91	23.67	159.37	-108.36	-59.90	325.07	277.57	47.51	6.843	
6,850.00	6,836.58	6,840.88	6,836.58	24.09	23.85	159.69	-108.36	-59.90	329.97	282.11	47.86	6.895	
6,900.00	6,886.30	6,890.61	6,886.30	24.26	24.03	160.00	-108.36	-59.90	334.88	286.67	48.21	6.946	
6,950.00	6,936.03	6,940.33	6,936.03	24.44	24.20	160.30	-108.36	-59.90	339.80	291.23	48.57	6.997	
7,000.00	6,985.76	6,990.06	6,985.76	24.62	24.38	160.59	-108.36	-59.90	344.73	295.81	48.92	7.047	
7,050.00	7,035.48	7,039.79	7,035.48	24.80	24.56	160.88	-108.36	-59.90	349.66	300.39	49.27	7.096	
7,100.00	7,085.21	7,089.51	7,085.21	24.98	24.73	161.15	-108.36	-59.90	354.61	304.98	49.63	7.145	
7,150.00	7,134.94	7,139.24	7,134.94	25.15	24.91	161.42	-108.36	-59.90	359.56	309.58	49.98	7.194	
7,200.00	7,184.66	7,188.96	7,184.66	25.33	25.09	161.68	-108.36	-59.90	364.52	314.18	50.34	7.242	
7,250.00	7,234.39	7,238.69	7,234.39	25.51	25.27	161.94	-108.36	-59.90	369.49	318.80	50.69	7.289	
7,300.00	7,284.11	7,288.42	7,284.11	25.69	25.44	162.18	-108.36	-59.90	374.46	323.42	51.05	7.336	
7,350.00	7,333.84	7,338.14	7,333.84	25.87	25.62	162.43	-108.36	-59.90	379.45	328.05	51.40	7.382	
7,400.00	7,383.57	7,387.87	7,383.57	26.05	25.80	162.66	-108.36	-59.90	384.43	332.68	51.76	7.428	
7,450.00	7,433.29	7,437.60	7,433.29	26.22	25.98	162.89	-108.36	-59.90	389.43	337.32	52.11	7.473	
7,500.00	7,483.02	7,487.32	7,483.02	26.40	26.15	163.11	-108.36	-59.90	394.43	341.96	52.47	7.518	
7,550.00	7,532.74	7,537.05	7,532.74	26.58	26.33	163.33	-108.36	-59.90	399.44	346.62	52.82	7.562	
7,600.00	7,582.47	7,586.77	7,582.47	26.76	26.51	163.54	-108.36	-59.90	404.45	351.27	53.18	7.606	

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

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design — Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 127H - CORRAL CANYON 3-34 FED 127H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,650.00	7,632.20	7,636.50	7,632.20	26.94	26.69	163.75	-108.36	-59.90	409.46	355.93	53.53	7.649	
7,700.00	7,681.92	7,686.23	7,681.92	27.12	26.86	163.95	-108.36	-59.90	414.49	360.60	53.89	7.692	
7,750.00	7,731.65	7,735.95	7,731.65	27.30	27.04	164.15	-108.36	-59.90	419.51	365.27	54.24	7.734	
7,800.00	7,781.37	7,785.68	7,781.37	27.48	27.22	164.34	-108.36	-59.90	424.55	369.95	54.60	7.776	
7,850.00	7,831.10	7,835.40	7,831.10	27.65	27.40	164.53	-108.36	-59.90	429.58	374.63	54.95	7.817	
7,900.00	7,880.83	7,885.13	7,880.83	27.83	27.57	164.71	-108.36	-59.90	434.62	379.32	55.31	7.858	
7,950.00	7,930.55	7,934.86	7,930.55	28.01	27.75	164.89	-108.36	-59.90	439.67	384.01	55.66	7.899	
8,000.00	7,980.28	7,984.58	7,980.28	28.19	27.93	165.07	-108.36	-59.90	444.72	388.70	56.02	7.939	
8,050.00	8,030.00	8,034.31	8,030.00	28.37	28.11	165.24	-108.36	-59.90	449.77	393.40	56.37	7.978	
8,100.00	8,079.73	8,084.03	8,079.73	28.55	28.28	165.41	-108.36	-59.90	454.83	398.10	56.73	8.018	
8,150.00	8,129.46	8,133.76	8,129.46	28.73	28.46	165.57	-108.36	-59.90	459.89	402.81	57.09	8.056	
8,200.00	8,179.18	8,183.49	8,179.18	28.91	28.64	165.73	-108.36	-59.90	464.96	407.52	57.44	8.094	
8,250.00	8,228.91	8,233.21	8,228.91	29.09	28.82	165.89	-108.36	-59.90	470.03	412.23	57.80	8.132	
8,300.00	8,278.64	8,282.94	8,278.64	29.27	28.99	166.04	-108.36	-59.90	475.10	416.95	58.15	8.170	
8,350.00	8,328.36	8,332.66	8,328.36	29.45	29.17	166.19	-108.36	-59.90	480.17	421.66	58.51	8.207	
8,400.00	8,378.09	8,382.39	8,378.09	29.63	29.35	166.34	-108.36	-59.90	485.25	426.39	58.87	8.243	
8,450.00	8,427.81	8,432.12	8,427.81	29.81	29.53	166.49	-108.36	-59.90	490.33	431.11	59.22	8.280	
8,500.00	8,477.54	8,481.84	8,477.54	29.99	29.70	166.63	-108.36	-59.90	495.42	435.84	59.58	8.315	

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 907H - CORRAL CANYON 3-34 FED 907H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.19	-0.30	-90.00	90.00				
50.00	50.00	50.00	50.00	0.04	0.07	-90.19	-0.30	-90.00	90.00	89.89	0.11	843.923	
100.00	100.00	100.00	100.00	0.13	0.13	-90.19	-0.30	-90.00	90.00	89.74	0.26	343.927	
150.00	150.00	150.00	150.00	0.31	0.31	-90.19	-0.30	-90.00	90.00	89.38	0.62	145.126	
200.00	200.00	200.00	200.00	0.49	0.49	-90.19	-0.30	-90.00	90.00	89.02	0.98	91.966	
250.00	250.00	250.00	250.00	0.67	0.67	-90.19	-0.30	-90.00	90.00	88.66	1.34	67.310	
300.00	300.00	300.00	300.00	0.85	0.85	-90.19	-0.30	-90.00	90.00	88.30	1.70	53.080	
350.00	350.00	350.00	350.00	1.03	1.03	-90.19	-0.30	-90.00	90.00	87.95	2.05	43.816	
400.00	400.00	400.00	400.00	1.21	1.21	-90.19	-0.30	-90.00	90.00	87.59	2.41	37.306	
450.00	450.00	450.00	450.00	1.39	1.39	-90.19	-0.30	-90.00	90.00	87.23	2.77	32.480	
500.00	500.00	500.00	500.00	1.56	1.56	-90.19	-0.30	-90.00	90.00	86.87	3.13	28.759	
550.00	550.00	550.00	550.00	1.74	1.74	-90.19	-0.30	-90.00	90.00	86.51	3.49	25.803	
600.00	600.00	600.00	600.00	1.92	1.92	-90.19	-0.30	-90.00	90.00	86.15	3.85	23.399	
650.00	650.00	650.00	650.00	2.10	2.10	-90.19	-0.30	-90.00	90.00	85.80	4.20	21.404	
700.00	700.00	700.00	700.00	2.28	2.28	-90.19	-0.30	-90.00	90.00	85.44	4.56	19.722	
750.00	750.00	750.00	750.00	2.46	2.46	-90.19	-0.30	-90.00	90.00	85.08	4.92	18.286	
800.00	800.00	800.00	800.00	2.64	2.64	-90.19	-0.30	-90.00	90.00	84.72	5.28	17.045	
850.00	850.00	850.00	850.00	2.82	2.82	-90.19	-0.30	-90.00	90.00	84.36	5.64	15.961	
900.00	900.00	900.00	900.00	3.00	3.00	-90.19	-0.30	-90.00	90.00	84.00	6.00	15.007	
950.00	950.00	950.00	950.00	3.18	3.18	-90.19	-0.30	-90.00	90.00	83.64	6.36	14.161	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.19	-0.30	-90.00	90.00	83.29	6.71	13.405	
1,050.00	1,050.00	1,050.00	1,050.00	3.54	3.54	-90.19	-0.30	-90.00	90.00	82.93	7.07	12.725	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.19	-0.30	-90.00	90.00	82.57	7.43	12.111	
1,150.00	1,150.00	1,150.00	1,150.00	3.89	3.89	-90.19	-0.30	-90.00	90.00	82.21	7.79	11.554	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.19	-0.30	-90.00	90.00	81.85	8.15	11.046	
1,250.00	1,250.00	1,250.00	1,250.00	4.25	4.25	-90.19	-0.30	-90.00	90.00	81.49	8.51	10.580	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.19	-0.30	-90.00	90.00	81.14	8.87	10.152	
1,350.00	1,350.00	1,350.00	1,350.00	4.61	4.61	-90.19	-0.30	-90.00	90.00	80.78	9.22	9.758	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.19	-0.30	-90.00	90.00	80.42	9.58	9.393	
1,450.00	1,450.00	1,450.00	1,450.00	4.97	4.97	-90.19	-0.30	-90.00	90.00	80.06	9.94	9.054	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.19	-0.30	-90.00	90.00	79.70	10.30	8.739	
1,550.00	1,550.00	1,550.00	1,550.00	5.33	5.33	-90.19	-0.30	-90.00	90.00	79.34	10.66	8.445	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.19	-0.30	-90.00	90.00	78.98	11.02	8.170	
1,650.00	1,650.00	1,650.00	1,650.00	5.69	5.69	-90.19	-0.30	-90.00	90.00	78.63	11.37	7.913	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.19	-0.30	-90.00	90.00	78.27	11.73	7.671	
1,750.00	1,750.00	1,750.00	1,750.00	6.05	6.05	-90.19	-0.30	-90.00	90.00	77.91	12.09	7.443	
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.19	-0.30	-90.00	90.00	77.55	12.45	7.229	
1,850.00	1,850.00	1,850.00	1,850.00	6.40	6.40	-90.19	-0.30	-90.00	90.00	77.19	12.81	7.027	
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.19	-0.30	-90.00	90.00	76.83	13.17	6.835	
1,950.00	1,950.00	1,950.00	1,950.00	6.76	6.76	-90.19	-0.30	-90.00	90.00	76.48	13.53	6.654	
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.19	-0.30	-90.00	90.00	76.12	13.88	6.483	
2,050.00	2,050.00	2,050.00	2,050.00	7.12	7.12	-90.19	-0.30	-90.00	90.00	75.76	14.24	6.319	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-90.19	-0.30	-90.00	90.00	75.40	14.60	6.164	
2,150.00	2,150.00	2,150.00	2,150.00	7.48	7.48	-90.19	-0.30	-90.00	90.00	75.04	14.96	6.016	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-90.19	-0.30	-90.00	90.00	74.68	15.32	5.876	
2,250.00	2,250.00	2,250.00	2,250.00	7.84	7.84	-90.19	-0.30	-90.00	90.00	74.32	15.68	5.741	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-90.19	-0.30	-90.00	90.00	73.97	16.03	5.613	
2,350.00	2,350.00	2,350.00	2,350.00	8.20	8.20	-90.19	-0.30	-90.00	90.00	73.61	16.39	5.490	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-90.19	-0.30	-90.00	90.00	73.25	16.75	5.373	
2,450.00	2,450.00	2,450.00	2,450.00	8.55	8.55	-90.19	-0.30	-90.00	90.00	72.89	17.11	5.260	
2,500.00	2,500.00	2,500.00	2,500.00	8.73	8.73	-90.19	-0.30	-90.00	90.00	72.53	17.47	5.152	

Anticollision Report

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	**TVD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	**MD Reference:**	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at:**	2.00 sigma
Reference Wellbore:	CORRAL CANYON 3-34 FED 128H	**Database:**	STRYKER_EDM
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 907H - CORRAL CANYON 3-34 FED 907H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,550.00	2,550.00	2,550.00	2,550.00	8.91	8.91	-90.19	-0.30	-90.00	90.00	72.17	17.83	5.049	
2,600.00	2,600.00	2,600.00	2,600.00	9.09	9.09	-90.19	-0.30	-90.00	90.00	71.82	18.19	4.949	
2,650.00	2,650.00	2,650.00	2,650.00	9.27	9.27	-90.19	-0.30	-90.00	90.00	71.46	18.54	4.853	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-90.19	-0.30	-90.00	90.00	71.10	18.90	4.761	
2,750.00	2,750.00	2,750.00	2,750.00	9.63	9.63	-90.19	-0.30	-90.00	90.00	70.74	19.26	4.673	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	-90.19	-0.30	-90.00	90.00	70.38	19.62	4.587	
2,850.00	2,850.00	2,850.00	2,850.00	9.99	9.99	-90.19	-0.30	-90.00	90.00	70.02	19.98	4.505	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	-90.19	-0.30	-90.00	90.00	69.66	20.34	4.426	
2,950.00	2,950.00	2,950.00	2,950.00	10.35	10.35	-90.19	-0.30	-90.00	90.00	69.31	20.69	4.349	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-90.19	-0.30	-90.00	90.00	68.95	21.05	4.275	
3,050.00	3,050.00	3,050.00	3,050.00	10.71	10.71	-90.19	-0.30	-90.00	90.00	68.59	21.41	4.203	
3,100.00	3,100.00	3,100.00	3,100.00	10.88	10.88	-90.19	-0.30	-90.00	90.00	68.23	21.77	4.134	
3,150.00	3,150.00	3,150.00	3,150.00	11.06	11.06	-90.19	-0.30	-90.00	90.00	67.87	22.13	4.067	
3,200.00	3,200.00	3,200.00	3,200.00	11.24	11.24	-90.19	-0.30	-90.00	90.00	67.51	22.49	4.002	
3,250.00	3,250.00	3,250.00	3,250.00	11.42	11.42	-90.19	-0.30	-90.00	90.00	67.16	22.85	3.940	
3,300.00	3,300.00	3,300.00	3,300.00	11.60	11.60	-90.19	-0.30	-90.00	90.00	66.80	23.20	3.879	
3,350.00	3,350.00	3,350.00	3,350.00	11.78	11.78	-90.19	-0.30	-90.00	90.00	66.44	23.56	3.820	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	-90.19	-0.30	-90.00	90.00	66.08	23.92	3.762	
3,450.00	3,450.00	3,450.00	3,450.00	12.14	12.14	-90.19	-0.30	-90.00	90.00	65.72	24.28	3.707	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	-90.19	-0.30	-90.00	90.00	65.36	24.64	3.653	
3,550.00	3,550.00	3,550.00	3,550.00	12.50	12.50	-90.19	-0.30	-90.00	90.00	65.00	25.00	3.601	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	-90.19	-0.30	-90.00	90.00	64.65	25.35	3.550	
3,650.00	3,650.00	3,650.00	3,650.00	12.86	12.86	-90.19	-0.30	-90.00	90.00	64.29	25.71	3.500	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	-90.19	-0.30	-90.00	90.00	63.93	26.07	3.452	
3,750.00	3,750.00	3,750.00	3,750.00	13.22	13.22	-90.19	-0.30	-90.00	90.00	63.57	26.43	3.405	
3,800.00	3,800.00	3,800.00	3,800.00	13.39	13.39	-90.19	-0.30	-90.00	90.00	63.21	26.79	3.360	
3,850.00	3,850.00	3,850.00	3,850.00	13.57	13.57	-90.19	-0.30	-90.00	90.00	62.85	27.15	3.315	
3,900.00	3,900.00	3,900.00	3,900.00	13.75	13.75	-90.19	-0.30	-90.00	90.00	62.49	27.51	3.272	
3,950.00	3,950.00	3,950.00	3,950.00	13.93	13.93	-90.19	-0.30	-90.00	90.00	62.14	27.86	3.230	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	-90.19	-0.30	-90.00	90.00	61.78	28.22	3.189	
4,050.00	4,050.00	4,050.00	4,050.00	14.29	14.29	-90.19	-0.30	-90.00	90.00	61.42	28.58	3.149	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	-90.19	-0.30	-90.00	90.00	61.06	28.94	3.110	
4,150.00	4,150.00	4,150.00	4,150.00	14.65	14.65	-90.19	-0.30	-90.00	90.00	60.70	29.30	3.072	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	-90.19	-0.30	-90.00	90.00	60.34	29.66	3.035 CC, ES	
4,250.00	4,250.00	4,250.00	4,250.00	15.00	15.01	173.87	-0.30	-90.00	90.43	60.42	30.01	3.014 SF	
4,300.00	4,299.98	4,299.98	4,299.98	15.18	15.19	173.96	-0.30	-90.00	91.74	61.37	30.36	3.021	
4,350.00	4,349.93	4,349.93	4,349.93	15.35	15.37	174.09	-0.30	-90.00	93.90	63.19	30.71	3.058	
4,400.00	4,399.84	4,399.84	4,399.84	15.52	15.54	174.27	-0.30	-90.00	96.94	65.88	31.06	3.121	
4,450.00	4,449.68	4,449.68	4,449.68	15.69	15.72	174.49	-0.30	-90.00	100.85	69.44	31.41	3.211	
4,500.00	4,499.45	4,499.45	4,499.45	15.86	15.90	174.73	-0.30	-90.00	105.62	73.86	31.76	3.326	
4,550.00	4,549.18	4,548.81	4,548.81	16.03	16.07	174.82	-0.60	-90.09	110.90	78.81	32.09	3.456	
4,600.00	4,598.90	4,598.13	4,598.11	16.20	16.24	174.60	-1.51	-90.35	116.36	83.93	32.43	3.588	
4,650.00	4,648.63	4,647.38	4,647.35	16.37	16.40	174.10	-3.03	-90.78	121.99	89.23	32.75	3.724	
4,700.00	4,698.36	4,696.57	4,696.48	16.54	16.56	173.38	-5.16	-91.39	127.81	94.73	33.08	3.864	
4,750.00	4,748.08	4,745.67	4,745.50	16.72	16.72	172.46	-7.90	-92.16	133.84	100.43	33.41	4.006	
4,800.00	4,797.81	4,794.67	4,794.37	16.89	16.87	171.37	-11.22	-93.11	140.10	106.37	33.73	4.154	
4,850.00	4,847.53	4,843.67	4,843.21	17.06	17.03	170.15	-15.15	-94.23	146.61	112.56	34.05	4.306	
4,900.00	4,897.26	4,893.13	4,892.48	17.23	17.19	168.95	-19.29	-95.41	153.26	118.88	34.38	4.458	
4,950.00	4,946.99	4,942.59	4,941.75	17.41	17.36	167.86	-23.44	-96.59	159.97	125.26	34.71	4.609	
5,000.00	4,996.71	4,992.05	4,991.02	17.58	17.52	166.85	-27.58	-97.78	166.73	131.69	35.04	4.758	
5,050.00	5,046.44	5,041.51	5,040.29	17.75	17.68	165.92	-31.73	-98.96	173.54	138.17	35.37	4.906	

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

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 907H - CORRAL CANYON 3-34 FED 907H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,096.17	5,090.96	5,089.56	17.93	17.84	165.05	-35.87	-100.14	180.39	144.69	35.70	5.053	
5,150.00	5,145.89	5,140.42	5,138.83	18.10	18.00	164.26	-40.02	-101.32	187.28	151.25	36.03	5.197	
5,200.00	5,195.62	5,189.88	5,188.10	18.27	18.17	163.52	-44.16	-102.50	194.20	157.83	36.37	5.340	
5,250.00	5,245.34	5,240.49	5,238.54	18.45	18.33	162.89	-48.12	-103.63	201.02	164.30	36.71	5.475	
5,300.00	5,295.07	5,291.28	5,289.21	18.62	18.50	162.46	-51.44	-104.58	207.55	170.49	37.06	5.600	
5,350.00	5,344.80	5,342.18	5,340.03	18.80	18.67	162.23	-54.12	-105.34	213.79	176.38	37.41	5.715	
5,400.00	5,394.52	5,393.16	5,390.98	18.97	18.84	162.17	-56.14	-105.92	219.73	181.97	37.76	5.820	
5,450.00	5,444.25	5,444.23	5,442.02	19.15	19.01	162.26	-57.52	-106.31	225.35	187.25	38.10	5.914	
5,500.00	5,493.97	5,495.34	5,493.13	19.32	19.18	162.50	-58.24	-106.52	230.67	192.22	38.45	5.999	
5,550.00	5,543.70	5,545.91	5,543.70	19.50	19.36	162.86	-58.36	-106.55	235.72	196.92	38.80	6.075	
5,600.00	5,593.43	5,595.64	5,593.43	19.67	19.53	163.23	-58.36	-106.55	240.72	201.57	39.15	6.148	
5,650.00	5,643.15	5,645.36	5,643.15	19.85	19.71	163.58	-58.36	-106.55	245.73	206.23	39.50	6.221	
5,700.00	5,692.88	5,695.09	5,692.88	20.02	19.89	163.92	-58.36	-106.55	250.75	210.90	39.85	6.292	
5,750.00	5,742.60	5,744.82	5,742.60	20.20	20.07	164.24	-58.36	-106.55	255.78	215.57	40.21	6.362	
5,800.00	5,792.33	5,794.54	5,792.33	20.37	20.24	164.55	-58.36	-106.55	260.81	220.26	40.56	6.431	
5,850.00	5,842.06	5,844.27	5,842.06	20.55	20.42	164.85	-58.36	-106.55	265.86	224.95	40.91	6.499	
5,900.00	5,891.78	5,894.00	5,891.78	20.72	20.60	165.14	-58.36	-106.55	270.91	229.65	41.26	6.566	
5,950.00	5,941.51	5,943.72	5,941.51	20.90	20.78	165.42	-58.36	-106.55	275.96	234.35	41.61	6.632	
6,000.00	5,991.23	5,993.45	5,991.23	21.08	20.95	165.69	-58.36	-106.55	281.03	239.06	41.97	6.696	
6,050.00	6,040.96	6,043.17	6,040.96	21.25	21.13	165.95	-58.36	-106.55	286.10	243.78	42.32	6.760	
6,100.00	6,090.69	6,092.90	6,090.69	21.43	21.31	166.20	-58.36	-106.55	291.17	248.50	42.67	6.824	
6,150.00	6,140.41	6,142.63	6,140.41	21.61	21.49	166.44	-58.36	-106.55	296.25	253.23	43.02	6.886	
6,200.00	6,190.14	6,192.35	6,190.14	21.78	21.67	166.67	-58.36	-106.55	301.34	257.96	43.38	6.947	
6,250.00	6,239.87	6,242.08	6,239.87	21.96	21.84	166.90	-58.36	-106.55	306.42	262.69	43.73	7.007	
6,300.00	6,289.59	6,291.80	6,289.59	22.14	22.02	167.11	-58.36	-106.55	311.52	267.44	44.08	7.067	
6,350.00	6,339.32	6,341.53	6,339.32	22.31	22.20	167.32	-58.36	-106.55	316.62	272.18	44.44	7.125	
6,400.00	6,389.04	6,391.26	6,389.04	22.49	22.38	167.53	-58.36	-106.55	321.72	276.93	44.79	7.183	
6,450.00	6,438.77	6,440.98	6,438.77	22.67	22.55	167.73	-58.36	-106.55	326.83	281.68	45.14	7.240	
6,500.00	6,488.50	6,490.71	6,488.50	22.84	22.73	167.92	-58.36	-106.55	331.94	286.44	45.50	7.296	
6,550.00	6,538.22	6,540.43	6,538.22	23.02	22.91	168.10	-58.36	-106.55	337.05	291.20	45.85	7.351	
6,600.00	6,587.95	6,590.16	6,587.95	23.20	23.09	168.28	-58.36	-106.55	342.17	295.96	46.20	7.405	
6,650.00	6,637.67	6,639.89	6,637.67	23.38	23.27	168.46	-58.36	-106.55	347.29	300.73	46.56	7.459	
6,700.00	6,687.40	6,689.61	6,687.40	23.55	23.44	168.63	-58.36	-106.55	352.41	305.50	46.91	7.512	
6,750.00	6,737.13	6,739.34	6,737.13	23.73	23.62	168.79	-58.36	-106.55	357.54	310.27	47.27	7.564	
6,800.00	6,786.85	6,789.07	6,786.85	23.91	23.80	168.95	-58.36	-106.55	362.67	315.04	47.62	7.616	
6,850.00	6,836.58	6,838.79	6,836.58	24.09	23.98	169.11	-58.36	-106.55	367.80	319.82	47.98	7.666	
6,900.00	6,886.30	6,888.52	6,886.30	24.26	24.15	169.26	-58.36	-106.55	372.93	324.60	48.33	7.716	
6,950.00	6,936.03	6,938.24	6,936.03	24.44	24.33	169.41	-58.36	-106.55	378.07	329.39	48.68	7.766	
7,000.00	6,985.76	6,987.97	6,985.76	24.62	24.51	169.55	-58.36	-106.55	383.21	334.17	49.04	7.814	
7,050.00	7,035.48	7,037.70	7,035.48	24.80	24.69	169.69	-58.36	-106.55	388.35	338.96	49.39	7.862	
7,100.00	7,085.21	7,087.42	7,085.21	24.98	24.87	169.83	-58.36	-106.55	393.49	343.75	49.75	7.910	
7,150.00	7,134.94	7,137.15	7,134.94	25.15	25.04	169.96	-58.36	-106.55	398.64	348.54	50.10	7.956	
7,200.00	7,184.66	7,186.87	7,184.66	25.33	25.22	170.09	-58.36	-106.55	403.79	353.33	50.46	8.002	
7,250.00	7,234.39	7,236.60	7,234.39	25.51	25.40	170.22	-58.36	-106.55	408.94	358.13	50.81	8.048	
7,300.00	7,284.11	7,286.33	7,284.11	25.69	25.58	170.34	-58.36	-106.55	414.09	362.92	51.17	8.093	
7,350.00	7,333.84	7,336.05	7,333.84	25.87	25.76	170.46	-58.36	-106.55	419.25	367.72	51.52	8.137	
7,400.00	7,383.57	7,385.78	7,383.57	26.05	25.93	170.58	-58.36	-106.55	424.40	372.52	51.88	8.181	
7,450.00	7,433.29	7,435.50	7,433.29	26.22	26.11	170.69	-58.36	-106.55	429.56	377.32	52.23	8.224	
7,500.00	7,483.02	7,485.23	7,483.02	26.40	26.29	170.80	-58.36	-106.55	434.72	382.13	52.59	8.266	
7,550.00	7,532.74	7,534.96	7,532.74	26.58	26.47	170.91	-58.36	-106.55	439.88	386.93	52.95	8.308	
7,600.00	7,582.47	7,584.68	7,582.47	26.76	26.65	171.02	-58.36	-106.55	445.04	391.74	53.30	8.350	

Company:	XTO Energy	Local Co-ordinate Reference:	Well CORRAL CANYON 3-34 FED 128H - Slot CORRAL CANYON 3-34 FED 128H SHL
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Reference Site:	Corral Canyon 3-34 Fed	MD Reference:	3034+27 @ 3061.00usft (ScanProducer)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	CORRAL CANYON 3-34 FED 128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	CORRAL CANYON 3-34 FED 128H	Database:	STRYKER_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Corral Canyon 3-34 Fed - CORRAL CANYON 3-34 FED 907H - CORRAL CANYON 3-34 FED 907H - P — Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,650.00	7,632.20	7,634.41	7,632.20	26.94	26.82	171.12	-58.36	-106.55	450.21	396.55	53.66	8.390	
7,700.00	7,681.92	7,684.13	7,681.92	27.12	27.00	171.22	-58.36	-106.55	455.37	401.36	54.01	8.431	
7,750.00	7,731.65	7,733.86	7,731.65	27.30	27.18	171.32	-58.36	-106.55	460.54	406.17	54.37	8.471	
7,800.00	7,781.37	7,783.59	7,781.37	27.48	27.36	171.42	-58.36	-106.55	465.70	410.98	54.72	8.510	
7,850.00	7,831.10	7,833.31	7,831.10	27.65	27.54	171.51	-58.36	-106.55	470.87	415.79	55.08	8.549	
7,900.00	7,880.83	7,883.04	7,880.83	27.83	27.71	171.61	-58.36	-106.55	476.04	420.61	55.44	8.587	
7,950.00	7,930.55	7,932.77	7,930.55	28.01	27.89	171.70	-58.36	-106.55	481.22	425.42	55.79	8.625	
8,000.00	7,980.28	7,982.49	7,980.28	28.19	28.07	171.79	-58.36	-106.55	486.39	430.24	56.15	8.663	
8,050.00	8,030.00	8,032.22	8,030.00	28.37	28.25	171.87	-58.36	-106.55	491.56	435.06	56.50	8.700	
8,100.00	8,079.73	8,081.94	8,079.73	28.55	28.42	171.96	-58.36	-106.55	496.74	439.88	56.86	8.736	

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**XTO ENERGY INC.**
LEASE NO.:	**NMNM136870**
WELL NAME & NO.:	**CORRAL CANYON 3-34 FEDERAL 128H**
SURFACE HOLE FOOTAGE:	**185'/N & 854'/E**
BOTTOM HOLE FOOTAGE	**200'/N & 330'/E**
LOCATION:	**Section 10.,T25S., R.29E., NMP**
COUNTY:	**EDDY County, New Mexico**

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

A. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **647** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- ❖ In **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings , the cement on the 3rd casing string must come to surface.

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 A.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.**

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

B. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Well Name:

Operator must submit a sundry to add 'Com' to the well name.

MHH 12042018

GENERAL REQUIREMENTS

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

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

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. 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.

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

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. 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.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.

d. 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.

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. 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.