Form 3160-5 (June 2015)

#### **EMNRD-OCD ARTESIA UNITED STATES** DEPARTMENT OF THE INTERIOR REC'D: 4/14/2020 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMLC061634B

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use thi abandoned we	is form for proposals to drill or to II.  Use form 3160-3 (APD) for suc	re-enter an h proposals.		6. If Indian, Allottee or	Tribe Name
SUBMIT IN	TRIPLICATE - Other instructions	on page 2		7. If Unit or CA/Agree 891000303X	ment, Name and/or No.
Type of Well     ☐ Oil Well	ner			8. Well Name and No. POKER LAKE UN	T 30 BS 163H
Name of Operator     XTO PERMIAN OPERATING	Contact: KELLY KA			9. API Well No. 30-015-46934-00	)-X1
3a. Address 6401 HOLIDAY HILL ROAD B MIDLAND, TX 79707	3b. Phone	No. (include area code) -620-4374		10. Field and Pool or E PURPLE SAGE-	xploratory Area WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, S	tate
Sec 30 T25S R31E SENW 23 32.102180 N Lat, 103.819817				EDDY COUNTY	, NM
12. CHECK THE AF	PPROPRIATE BOX(ES) TO INDI	CATE NATURE OF	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent     ■     Notice of Intent     Notice of Inten	☐ Acidize ☐ I	Deepen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing ☐ I	Hydraulic Fracturing	□ Reclama	ntion	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair ☐ I	New Construction	□ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans ☐ I	Plug and Abandon	☐ Tempora	arily Abandon	Change to Original A PD
	☐ Convert to Injection ☐ I	Plug Back	■ Water D	isposal	12
following completion of the involved testing has been completed. Final At determined that the site is ready for fix XTO Permian Operating, LLC Change the casing/cement de XTO requests the following va XTO requests to use a 5000 p requested to test the 5M annu Batch drill this well if necessar the well is cemented properly	requests permission to make the foresign per the attached drilling programminances:  si annular BOP with a 10,000 psi Bular to 70% of working pressure at 3  ry. In doing so, XTO will set each cand the well is static. With floats ho f a 10K TA cap as per GE recommend	Itiple completion or reco all requirements, includi illowing changes to t im.  OP stack. Also a va 500 psi ising string and ensu Iding, no pressure o	mpletion in a n ing reclamation the original a ariance is ure that n the csq	iew interval, a Form 3160, have been completed an	-4 must be filed once
	Electronic Submission #509276 ver For XTO PERMIAN OPERA nmitted to AFMSS for processing by I	TING LLC, sent to th	ne Carlsbad	•	
Name(Printed/Typed) KELLY KA				ORDINATOR	
Signature (Electronic S		Date 04/01/20			
	THIS SPACE FOR FEDE	RAL OR STATE (	OFFICE US	SE	
_Approved_By_ALLISON_MORENC	Y	TitlePETROLE	UM ENGINE	EER	Date 04/11/2020
Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu	<ul> <li>Approval of this notice does not warrant itable title to those rights in the subject least ict operations thereon.</li> </ul>	or e Office Carlsbac	d		
	U.S.C. Section 1212, make it a crime for an statements or representations as to any matter		willfully to ma	ke to any department or a	agency of the United

#### Additional data for EC transaction #509276 that would not fit on the form

#### 32. Additional remarks, continued

to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole.

A variance is requested to cement offline for the surface and intermediate casing strings.

Attachments: Casing/Cement Design Multibowl Diagram 5M10M Diagram / Well Control Plan Directional Plan

## Revisions to Operator-Submitted EC Data for Sundry Notice #509276

**Operator Submitted BLM Revised (AFMSS)** 

APDCH **APDCH** Sundry Type: NOI NOI

NMLC061634B Lease: NMLC061634B

Agreement: NMNM71016X 891000303X (NMNM71016X)

XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277 Operator: XTO PERMIAN OPERATING, LLC

6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374

**KELLY KARDOS** Admin Contact:

KELLY KARDOS REGULATORY COORDINATOR REGULATORY COORDINATOR E-Mail: kelly\_kardos@xtoenergy.com E-Mail: kelly\_kardos@xtoenergy.com

Ph: 432-620-4374 Ph: 432-620-4374

Tech Contact:

KELLY KARDOS REGULATORY COORDINATOR KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly\_kardos@xtoenergy.com E-Mail: kelly\_kardos@xtoenergy.com

Ph: 432-620-4374 Ph: 432-620-4374

Location:

NM EDDY State: NM County: **EDDY** 

Field/Pool: PURPLE SAGE WOLFCAMP PURPLE SAGE-WOLFCAMP (GAS)

POKER LAKE UNIT 30 BS 163H Well/Facility:

POKER LAKE UNIT 30 BS 163H Sec 30 T25S R31E SENW 2310FNL 1920FWL Sec 30 T25S R31E Mer NMP SENW 2310FNL 1920FWL

32.102180 N Lat, 103.819817 W Lon

## Kardos, Kelly

From: amorency@blm.gov

Sent: Saturday, April 11, 2020 8:20 PM

To: Kardos, Kelly

**Subject:** Well POKER LAKE UNIT 30 BS 163H

**Attachments:** EC509276.pdf

**Categories:** External Sender

External Email - Think Before You Click

The sundry for Change to Original APD you submitted has been approved by the BLM. Your original Electronic Commerce (EC) transmission was assigned ID 509276. Please be sure to open and save all attachments to this message, since they contain important information.

04/11/2020 - AM

All COAs apply. Shell testing and offline cementing not approved.

#### Poker Lake Unit 30 BS 163H

Projected TD: 20292' MD / 12416' TVD
SHL: 2310' FNL & 1920' FWL , Section 30, T255, R31E
BHL: 200' FSL & 1357' FWL , Section 31, T25S, R31E
Eddy County, NM

#### **Casing Design**

The surface fresh water sands will be protected by setting 11-3/4" casing @ 1400' (96' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11650' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1400'	11-3/4"	54	STC	J-55	New	1.02	2.38	7.25
9-7/8"	0' – 11650'	7-5/8"	29.7	втс	L-80	New	1.19	1.57	1.97
6-3/4"	0' – 11550'	5-1/2"	23	втс	P-110	New	1.21	1.71	2.61
6-3/4"	11550' - 20292'	5-0"	18	втс	P-110	New	1.16	1.58	2.09

XTO requests to not utilize centralizers in the curve and lateral

7-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" x 5-0" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

#### WELLHEAD:

Permanent Wellhead – Multibowl System

A. Starting Head: 11" 10M top flange x 11-3/4" SOW bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

- · Wellhead will be installed by manufacturer's representatives.
- $\cdot \ \text{Manufacturer will monitor welding process to ensure appropriate temperature of seal.}$
- $\cdot$  Operator will test the 7-5/8" casing per BLM Onshore Order 2
- $\cdot \ \text{Wellhead Manufacturer representative will not be present for BOP test plug installation}$

#### **Cement Program**

#### **Surface Casing:**

Lead: 510 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 190 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:**

ECP/DV Tool to be set at 4600'

1st Stage

Lead: 1380 sxs Halcem - Class C (mixed at 11.0 ppg, 1.87 ft3/sx, 15.10 gal/sx water)
Tail: 310 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 820 sxs Halcem - Class C (mixed at 11.0 ppg, 1.88 ft3/sx, 10.13 gal/sx water)
Tail: 320 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

#### **Production Casing:**

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)
Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

#### **Mud Circulation Program**

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1400'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1400' - 11650'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.7-9.2	30-32	NC
11650' to 20292'	6-3/4"	Cut Brine / WBM / OBM	12.7-13.2	32-36	NC

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

#### XTO Energy Inc.

Poker Lake Unit 30 Big Sinks 163H Projected TD: 20292' MD / 12416' TVD SHL: 2310' FNL & 1920' FWL , Section 30, T25S, R31E

BHL: 200' FSL & 1357' FWL , Section 31, T25S, R31E Eddy County, NM

#### 1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1170'	Water
Top of Salt	1496'	Water
Base of Salt	3972'	Water
Delaware	4139'	Water
Bone Spring	8075'	Water
1st Bone Spring Ss	9075'	Water/Oil/Gas
2nd Bone Spring Ss	9722'	Water/Oil/Gas
3rd Bone Spring Ss	11041'	Water/Oil/Gas
Wolfcamp	11341'	Water/Oil/Gas
Wolfcamp D	12351'	Water/Oil/Gas
Target/Land Curve	12416'	Water/Oil/Gas

<sup>\*\*\*</sup> Hvdrocarbons @ Brushv Canvon

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 11-3/4" casing @ 1400' (96' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11650' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2"  $\times$  5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

#### 3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1400'	11-3/4"	54	STC	J-55	New	1.02	2.38	7.25
9-7/8"	0' – 11650'	7-5/8"	29.7	BTC	L-80	New	1.19	1.57	1.97
6-3/4"	0' – 11550'	5-1/2"	23	BTC	P-110	New	1.21	1.71	2.61
6-3/4"	11550' - 20292'	5-0"	18	BTC	P-110	New	1.16	1.58	2.09

- $\cdot$  XTO requests to not utilize centralizers in the curve and lateral
- ·7-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- · 5-1/2" x 5-0" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

## Wellhead:

Permanent Wellhead - Multibowl System

A. Starting Head: 11" 10M top flange x 11-3/4" SOW bottom

- B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange
  - · Wellhead will be installed by manufacturer's representatives.
  - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
  - Operator will test the 7-5/8" casing per BLM Onshore Order 2
  - · Wellhead Manufacturer representative will not be present for BOP test plug installation

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

#### 4. Cement Program

#### Surface Casing: 11-3/4", 54 New J-55, STC casing to be set at +/- 1400'

Lead: 510 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

TOC: Surface

Intermediate Casing: 7-5/8", 29.7 New L-80, BTC casing to be set at +/- 11650'

ECP/DV Tool to be set at 4600'

1st Stage

Lead: 1380 sxs Halcem - Class C (mixed at 11.0 ppg, 1.87 ft3/sx, 15.10 gal/sx water)

Tail: 310 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1150psi

2nd Stage

Lead: 820 sxs Halcem - Class C (mixed at 11.0 ppg, 1.88 ft3/sx, 10.13 gal/sx water)

Tail: 320 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

TOC: Surface

Production Casing: 5-0", 18 New P-110, BTC casing to be set at +/- 20292'

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)

Compressives 12-hr = 800 psi 24 hr = 1500 ps

TOC: 300' inside previous shoe

#### 5. Pressure Control Equipment

Once the permanent WH is installed on the 11-3/4" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP. MASP should not exceed 5791 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 11-3/4", 10M bradenhead and flange, the BOP test will be limited to 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compainace with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another with in 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will also function test BOP equipment after each nipple up. A full BOP test will be required prior to drilling any production hole.

#### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1400'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1400' - 11650'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.7-9.2	30-32	NC
11650' to 20292'	6-3/4"	Cut Brine / WBM / OBM	12.7-13.2	32-36	NC

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud and set 11-3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4" surface casing with a brine/oil direct emulsion mud system. 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 11-3/4" casing.

#### 8. Logging, Coring and Testing Program

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

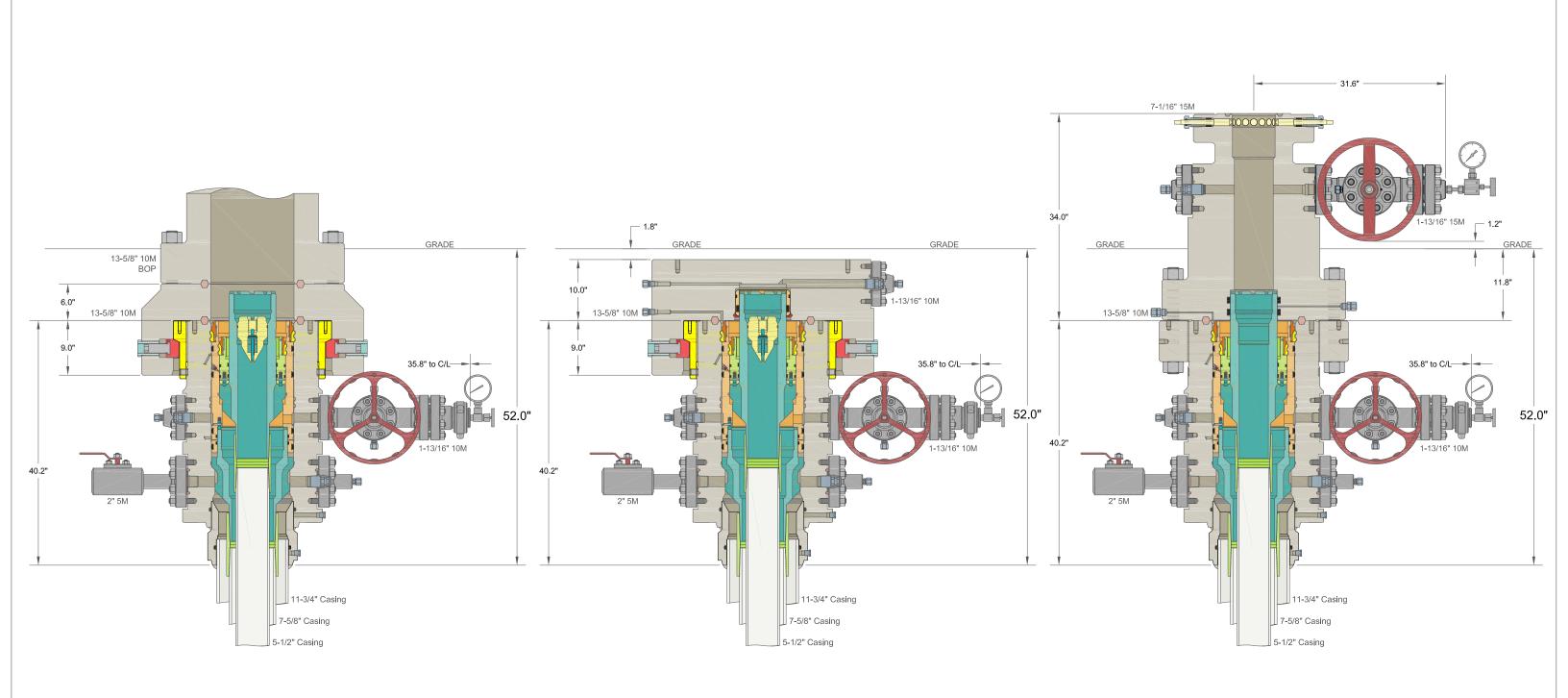
Open hole logging will not be done on this well.

#### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 8522 psi.

#### 10. Anticipated Starting Date and Duration of Operations

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

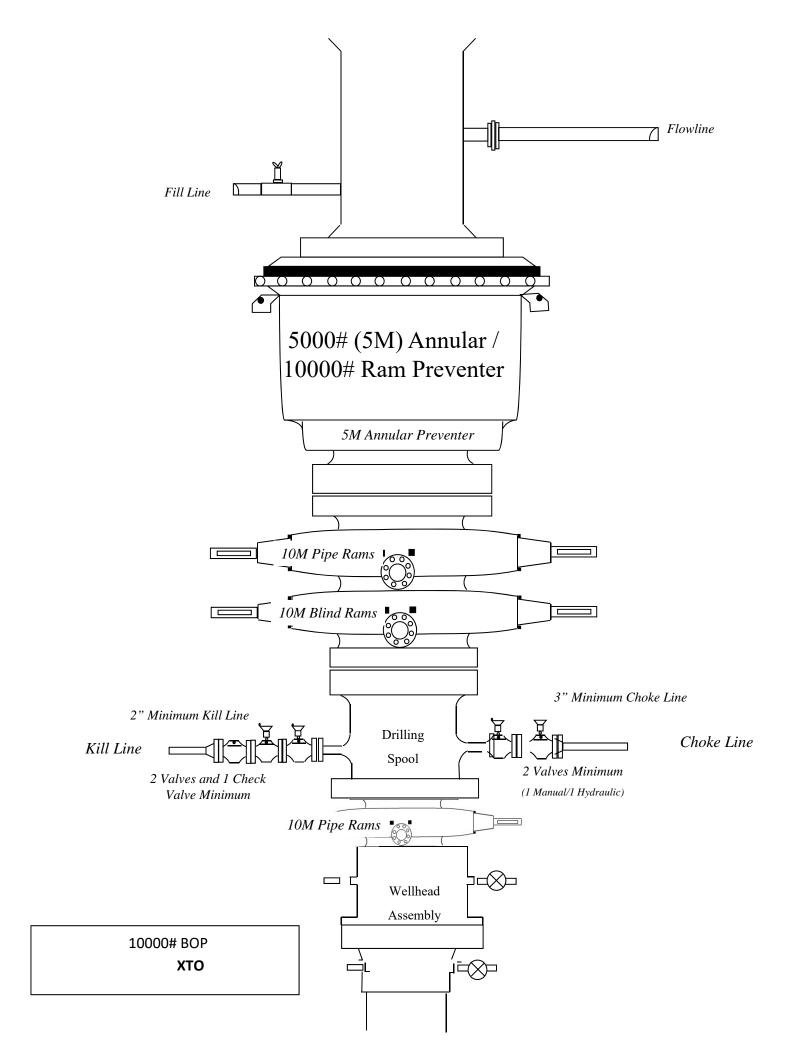


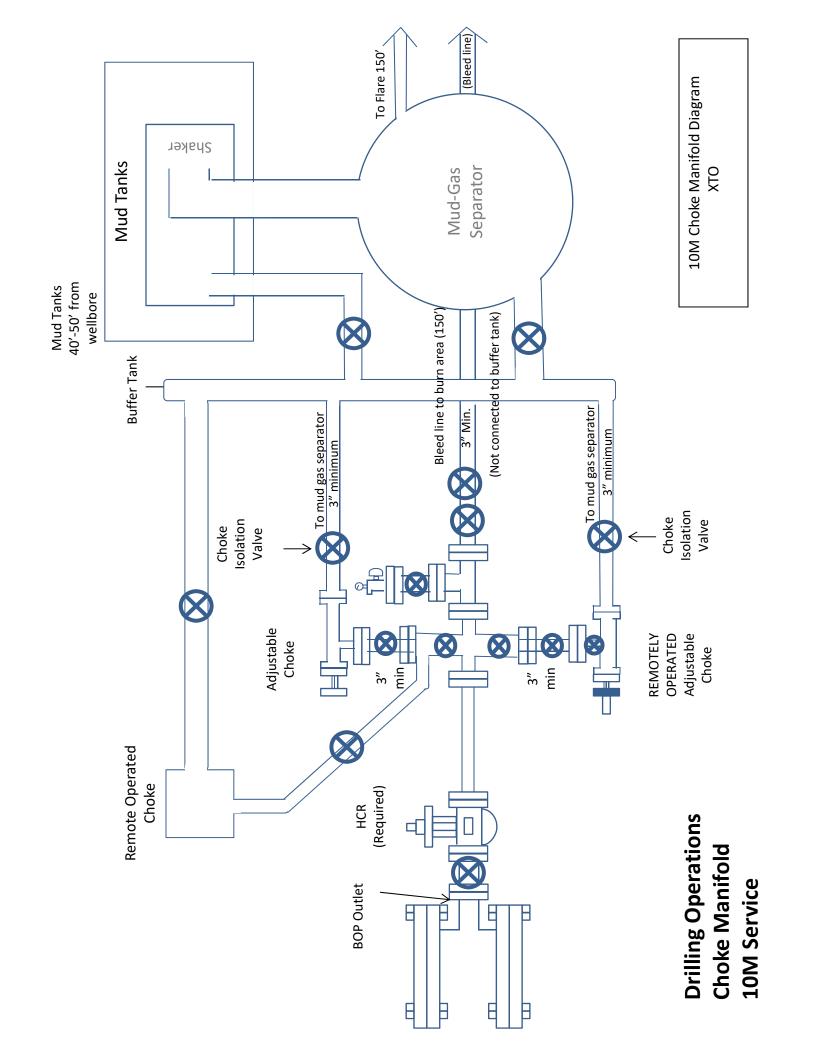
DRILLING SKID COMPLETION

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	_	XTO ENERGY IN POKER LAKE, N	
30" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF SOW Wellhead System	DRAWN	DLE	09DEC19
	APPRV		
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head		005000	0004
And 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWING N	o. <b>ODE000</b>	3261

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## 10,000 PSI Annular BOP Variance Request

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

## 1. Component and Preventer Compatibility Tables

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

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

#### 2. Well Control Procedures

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

## **General Procedure While Drilling**

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

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

## **General Procedure While Tripping**

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

## General Procedure While Running Production Casing

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

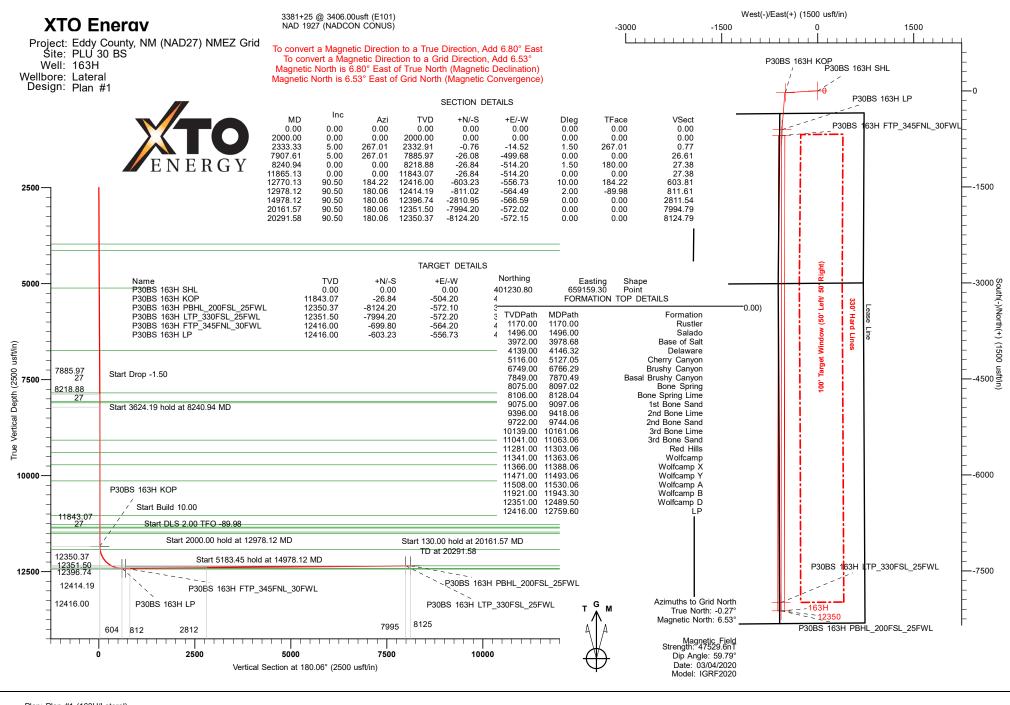
## General Procedure With No Pipe In Hole (Open Hole)

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

## General Procedures While Pulling BHA Through Stack

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

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



Plan: Plan #1 (163H/Lateral) Created By: Mekka Williams eSomina Well Design mekka@esominawelldesign.com 13:20, March 06 2020 STRYKER DIRECTIONAL 6701 FM 307 Midland. Texas 79706 - 432-687-1121



Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

 Site:
 PLU 30 BS

 Well:
 163H

 Wellbore:
 Lateral

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

Minimum Curvature

Project Eddy County, NM (NAD27) NMEZ Grid

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site PLU 30 BS

Northing: 401,230.80 usft 32° 6' 7.4038 N Site Position: Latitude: From: Мар Easting: 659,159.30 usft Longitude: 103° 49' 9.6252 W **Position Uncertainty:** 0.00 usft Slot Radius: 13.20 in **Grid Convergence:** 0.27

**Well** 163H - Slot P30BS 163H SHL

 Well Position
 +N/-S
 0.00 usft
 Northing:
 401,230.80 usft
 Latitude:
 32° 6′ 7.4038 N

 +E/-W
 0.00 usft
 Easting:
 659,159.30 usft
 Longitude:
 103° 49′ 9.6252 W

Position Uncertainty 0.00 usft Wellhead Elevation: Ground Level: 3,381.00 usft

Wellbore Lateral Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) IGRF2020 03/04/20 6.80 59.79 47,529.59142186

Design Plan #1 Audit Notes: PROTOTYPE Version: Phase: Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 180.06 0.00 0.00 0.00

Date 03/06/20 Plan Survey Tool Program **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.00 11,870.57 Plan #1 (Lateral) MWD OWSG MWD - Standard 11,870.57 20,290.91 Plan #1 (Lateral) MWD+IFR1+MS 2 OWSG MWD + IFR1 + Multi-St

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

 Site:
 PLU 30 BS

 Well:
 163H

 Wellbore:
 Lateral

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,333.33	5.00	267.01	2,332.91	-0.76	-14.52	1.50	1.50	0.00	267.01	
7,907.61	5.00	267.01	7,885.97	-26.08	-499.68	0.00	0.00	0.00	0.00	
8,240.94	0.00	0.00	8,218.88	-26.84	-514.20	1.50	-1.50	0.00	180.00	
11,865.13	0.00	0.00	11,843.07	-26.84	-514.20	0.00	0.00	0.00	0.00	
12,770.13	90.50	184.22	12,416.01	-603.23	-556.73	10.00	10.00	0.00	184.22	
12,978.12	90.50	180.06	12,414.19	-811.02	-564.49	2.00	0.00	-2.00	-89.98	
14,978.12	90.50	180.06	12,396.74	-2,810.95	-566.59	0.00	0.00	0.00	0.00	
20,161.57	90.50	180.06	12,351.50	-7,994.20	-572.02	0.00	0.00	0.00	0.00	P30BS 163H LTP_33
20,291.58	90.50	180.06	12,350.37	-8,124.20	-572.15	0.00	0.00	0.00	0.00	P30BS 163H PBHL_2

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

 Site:
 PLU 30 BS

 Well:
 163H

 Wellbore:
 Lateral

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

Measured   Depth   Inclination   Legistration   L	Planned Survey									
Depth										_
100.00	Depth			Depth			Section	Rate	Rate	Rate
\$00.00										
\$60,00	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
7700.00 0.00 0.00 7700.00 0.00 0.00 0.0	500.00	0.00	0.00	500.00	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.	700.00 800.00	0.00 0.00	0.00 0.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	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 0.	1,100.00	0.00	0.00	1,100.00	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 0.										
1,496.00	,									
1,500.00 0.00 0.00 1,500.00 0.00 0.00 0.00 0.00 0.00 0.00 0.				,						
1,600.00 0.00 0.00 1,600.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		0.00	0.00	4 500 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 0.	1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	· ·			,						
2,200.00	2,000.00		0.00		0.00			0.00		0.00
2,333,33										
2,500.00 5.00 267.01 2,498.94 -1.51 -29.02 1.55 0.00 0.00 0.00 0.00 2,600.00 5.00 267.01 2,598.56 -1.97 -37.73 2.01 0.00 0.00 0.00 0.00 0.00 2,700.00 5.00 267.01 2,698.18 -2.42 -46.43 2.47 0.00 0.00 0.00 0.00 2,900.00 5.00 267.01 2,797.80 -2.88 -55.13 2.94 0.00 0.00 0.00 0.00 2,900.00 5.00 267.01 2,797.80 -2.88 -55.13 2.94 0.00 0.00 0.00 0.00 3,000.00 5.00 267.01 2,997.04 -3.79 -72.54 3.86 0.00 0.00 0.00 0.00 3,000.00 5.00 267.01 3,996.66 -4.24 -81.24 4.33 0.00 0.00 0.00 0.00 3,100.00 5.00 267.01 3,996.66 -4.24 -81.24 4.33 0.00 0.00 0.00 0.00 3,200.00 5.00 267.01 3,996.66 -4.24 -81.24 4.33 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,295.00 -5.15 -98.65 5.25 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,395.52 -5.60 -107.36 5.72 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,395.52 -5.60 -107.36 5.72 0.00 0.00 0.00 0.00 3,500.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,994.38 -6.97 -133.47 7.57 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,993.24 -8.33 -159.58 8.50 0.00 0.00 0.00 0.00 0.00 0.00 0										
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2,800.00 5.00 267.01 2,797.80 -2.88 -55.13 2.94 0.00 0.00 0.00 0.00 2,900.00 5.00 267.01 2,897.42 -3.33 -63.84 3.40 0.00 0.00 0.00 0.00 3,000.00 5.00 267.01 2,997.04 -3.79 -72.54 3.86 0.00 0.00 0.00 0.00 3,100.00 5.00 267.01 3,096.66 -4.24 -81.24 4.33 0.00 0.00 0.00 0.00 3,200.00 5.00 267.01 3,196.28 -4.70 -89.95 4.79 0.00 0.00 0.00 0.00 3,300.00 5.00 267.01 3,295.90 -5.15 -98.65 5.25 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,295.90 -5.15 -98.65 5.25 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 3,500.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 3,800.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 0.00 3,800.00 5.00 267.01 3,894.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,992.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	· ·									
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3,300.00 5.00 267.01 3,295.90 -5.15 -98.65 5.25 0.00 0.00 0.00 0.00 3,400.00 5.00 267.01 3,395.52 -5.60 -107.36 5.72 0.00 0.00 0.00 0.00 3,500.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 0.00 3,700.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 0.00 3,800.00 5.00 267.01 3,794.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
3,400.00 5.00 267.01 3,395.52 -5.60 -107.36 5.72 0.00 0.00 0.00 0.00 3,500.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 0.00 3,700.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 0.00 3,800.00 5.00 267.01 3,794.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	· · · · · · · · · · · · · · · · · · ·			,						
3,500.00 5.00 267.01 3,495.14 -6.06 -116.06 6.18 0.00 0.00 0.00 0.00 3,600.00 5.00 267.01 3,594.76 -6.51 -124.76 6.64 0.00 0.00 0.00 0.00 0.00 3,700.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 0.00 3,800.00 5.00 267.01 3,794.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
3,700.00 5.00 267.01 3,694.38 -6.97 -133.47 7.11 0.00 0.00 0.00 3,800.00 5.00 267.01 3,794.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
3,800.00 5.00 267.01 3,794.00 -7.42 -142.17 7.57 0.00 0.00 0.00 0.00 3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3,600.00	5.00	267.01	3,594.76	-6.51	-124.76	6.64	0.00	0.00	0.00
3,900.00 5.00 267.01 3,893.62 -7.88 -150.87 8.03 0.00 0.00 0.00 0.00 3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00										
3,978.68 5.00 267.01 3,972.00 -8.23 -157.72 8.40 0.00 0.00 0.00 0.00  Base of Salt  4,000.00 5.00 267.01 3,993.24 -8.33 -159.58 8.50 0.00 0.00 0.00  4,100.00 5.00 267.01 4,092.85 -8.78 -168.28 8.96 0.00 0.00 0.00  4,146.32 5.00 267.01 4,139.00 -8.99 -172.31 9.17 0.00 0.00  Delaware										
Base of Salt         4,000.00       5.00       267.01       3,993.24       -8.33       -159.58       8.50       0.00       0.00       0.00         4,100.00       5.00       267.01       4,092.85       -8.78       -168.28       8.96       0.00       0.00       0.00         4,146.32       5.00       267.01       4,139.00       -8.99       -172.31       9.17       0.00       0.00       0.00         Delaware										
4,100.00       5.00       267.01       4,092.85       -8.78       -168.28       8.96       0.00       0.00       0.00         4,146.32       5.00       267.01       4,139.00       -8.99       -172.31       9.17       0.00       0.00       0.00         Delaware			_00.	-,=.00	0.20		00	0.00	0.00	2.00
4,146.32 5.00 267.01 4,139.00 -8.99 -172.31 9.17 0.00 0.00 0.00  Delaware	4,000.00	5.00	267.01	3,993.24	-8.33	-159.58	8.50	0.00	0.00	0.00
Delaware										
	·	0.00	207.07	.,.00.00	0.00	. , 2.01	0.11	0.00	0.00	2.00
	4,200.00	5.00	267.01	4,192.47	-9.24	-176.98	9.42	0.00	0.00	0.00
4,300.00 5.00 267.01 4,292.09 -9.69 -185.69 9.89 0.00 0.00 0.00 4,400.00 5.00 267.01 4,391.71 -10.15 -194.39 10.35 0.00 0.00 0.00										

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

 Site:
 PLU 30 BS

 Well:
 163H

 Wellbore:
 Lateral

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

Measured Depth   Inclination   Azimuth   Depth   Cy   Cy   Depth   Cy   Cy   Depth   Cy   Cy   Depth   Cy   Cy   Cy   Cy   Cy   Cy   Cy   C	anned Survey									
4,600.00 5.00 287.01 4,590.95 -11.06 -211.80 0.00 0.00 0.00 0.00 4,000.00 5.00 287.01 4,590.95 -11.51 -220.50 11.74 0.00 0.00 0.00 0.00 4,000.00 5.00 287.01 4,790.19 -11.96 -229.21 12.20 0.00 0.00 0.00 0.00 5.00 287.01 4,898.81 -12.87 -242 -237.91 12.67 0.00 0.00 0.00 0.00 5.00 5.00 287.01 5,888.81 -12.87 -248.61 13.13 0.00 0.00 0.00 0.00 5,100.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,100.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,188.67 -13.78 -264.02 14.06 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,387.91 -46.60 -281.43 14.99 0.00 0.00 0.00 0.00 5,500 0.00 5.00 287.01 5,887.53 14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.24 -227.27 3 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.46 0.281.43 14.99 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.51 4 -298.13 15.45 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 9 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,888.00 -16.50 -288.84 15.91 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.50 -328.84 15.91 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 6,888.20 -16.50 -388.85 17.77 0.00 0.00 0.00 0.00 6,000 5.00 287.01 6,888.20 -16.80 -388.85 18.20 0.00 0.00 0.00 0.00 6,000 5.00 287.01 6,888.20 -16.80 -388.85 19.10 0.00 0.00 0.00 0.00 6,700.00 5.00 287.01 6,888.20 -16.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Depth			Depth			Section	Rate	Rate	Rate
4,600.00 5.00 287.01 4,590.95 -11.06 -211.80 0.00 0.00 0.00 0.00 4,000.00 5.00 287.01 4,590.95 -11.51 -220.50 11.74 0.00 0.00 0.00 0.00 4,000.00 5.00 287.01 4,790.19 -11.96 -229.21 12.20 0.00 0.00 0.00 0.00 5.00 287.01 4,898.81 -12.87 -242 -237.91 12.67 0.00 0.00 0.00 0.00 5.00 5.00 287.01 5,888.81 -12.87 -248.61 13.13 0.00 0.00 0.00 0.00 5,100.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,100.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,116.00 -13.45 -257.67 13.72 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,188.67 -13.78 -264.02 14.06 0.00 0.00 0.00 0.00 5,200.00 5.00 287.01 5,387.91 -46.60 -281.43 14.99 0.00 0.00 0.00 0.00 5,500 0.00 5.00 287.01 5,887.53 14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.24 -227.27 3 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.46 0.281.43 14.99 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 14.51 4 -298.13 15.45 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,887.53 9 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 5,500.00 5.00 287.01 5,888.00 -16.50 -288.84 15.91 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.50 -328.84 15.91 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 5,888.60 -16.96 -324.95 17.30 0.00 0.00 0.00 0.00 5,900.00 5.00 287.01 6,888.20 -16.50 -388.85 17.77 0.00 0.00 0.00 0.00 6,000 5.00 287.01 6,888.20 -16.80 -388.85 18.20 0.00 0.00 0.00 0.00 6,000 5.00 287.01 6,888.20 -16.80 -388.85 19.10 0.00 0.00 0.00 0.00 6,700.00 5.00 287.01 6,888.20 -16.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4,500.00	5.00	267.01	4,491.33	-10.60	-203.10	10.81	0.00	0.00	0.00
4,800.00 5.00 267.01 4,790.19 -11.96 -229.21 12.20 0.00 0.00 0.00 0.00 4,800.00 5.00 267.01 4,889.81 -12.42 -237.91 12.67 0.00 0.00 0.00 0.00 5,000 5.00 267.01 5,089.05 -13.33 -255.32 13.59 0.00 0.00 0.00 0.00 5,100.00 5.00 267.01 5,169.05 -13.33 -255.32 13.59 0.00 0.00 0.00 0.00 5,127.05 5.00 267.01 5,169.05 -13.78 -267.07 13.72 0.00 0.00 0.00 0.00 5,127.05 5.00 267.01 5,188.67 -13.78 -264.02 14.06 0.00 0.00 0.00 0.00 5,00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500 0.00 5,00 267.01 5,587.15 -15.14 -290.13 15.45 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,587.15 -15.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,587.15 -15.60 298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.05 -307.54 18.37 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.05 -307.54 18.37 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.05 -307.54 18.37 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.50 -307.54 18.37 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.50 -330.54 18.37 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.57 -16.51 -316.24 18.84 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.50 -17.42 -333.55 17.77 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,586.24 -17.87 342.36 18.23 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -351.62 18.69 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -351.66 18.69 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -351.66 18.69 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -351.66 18.69 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,383.34 -20.14 -365.67 20.55 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,383.34 -20.14 -365.67 20.55 0.00 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,383.34 -20.14 -365.67 20.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0			267.01	4,590.95	-11.06	-211.80		0.00	0.00	0.00
4,800.00 5.00 267.01 4,790.19 -11.96 -229.21 12.20 0.00 0.00 0.00 0.00 4,800.00 5.00 267.01 4,889.81 -12.42 -237.91 12.67 0.00 0.00 0.00 0.00 5,000 5.00 267.01 5,089.05 -13.33 -255.32 13.59 0.00 0.00 0.00 0.00 5,127.05 5.00 267.01 5,180.07 -13.43 -257.67 13.72 0.00 0.00 0.00 0.00 5,127.05 5.00 267.01 5,180.07 -13.43 -257.67 13.72 0.00 0.00 0.00 0.00 5,127.05 5.00 267.01 5,188.67 -13.78 -264.02 14.06 0.00 0.00 0.00 0.00 5,00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,288.29 -14.24 -272.73 14.52 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,487.53 -15.14 -290.13 15.45 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,487.53 -15.14 -290.13 15.45 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,587.15 -15.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,588.67 -16.05 -307.54 18.37 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,588.68 7 -16.05 -307.54 18.37 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,588.68 7 -16.05 -307.54 18.37 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,588.60 -16.96 -324.95 17.70 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4,700.00	5.00	267.01	4,690.57	-11.51	-220.50	11.74	0.00	0.00	0.00
\$\frac{4}{5}000.00 5.00 267.01 4,888.81 -12.42 2.27.91 12.67 0.00 0.00 0.00 5.00 5.00 5.00 267.01 5.088.05 -13.33 -225.32 13.89 0.00 0.00 0.00 0.00 5.17.27.05 5.00 267.01 5.088.05 -13.33 -255.32 13.89 0.00 0.00 0.00 0.00 5.17.27.05 5.00 267.01 5.188.07 -13.45 2.67.67 13.72 0.00 0.00 0.00 0.00 5.00 5.00 267.01 5.188.07 -13.45 2.67.67 13.72 0.00 0.00 0.00 0.00 5.00 5.00 267.01 5.288.29 -14.24 2.72.73 14.52 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.288.29 -14.24 2.72.73 14.52 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.288.79 1 -14.69 2.814.33 14.98 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.288.79 1 -14.69 2.814.33 14.98 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.588.79 1 -15.60 2.288.24 15.91 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.588.71 -15.60 2.288.24 15.91 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.588.71 -15.60 2.288.24 15.91 0.00 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.588.75 -16.05 3.07.54 16.37 0.00 0.00 0.00 5.00 0.00 5.00 267.01 5.586.75 -16.05 3.07.54 16.37 0.00 0.00 0.00 0.00 6.00 0.00 5.00 267.01 5.586.50 0.00 5.00 267.01 5.588.50 0.00 0.00 0.00 0.00 6.00 0.00 5.00 267.01 5.586.50 14.98 0.00 0.00 0.00 0.00 6.00 0.00 5.00 267.01 5.586.50 14.98 0.00 0.00 0.00 0.00 6.00 0.00 5.00 267.01 5.586.50 14.74 22 3.33.65 17.77 0.00 0.00 0.00 0.00 6.00 0.00 5.00 267.01 5.586.50 14.78 0.00 0.00 0.00 0.00 6.00 0.00 0.00 0.0	4,800.00		267.01	4,790.19		-229.21	12.20	0.00	0.00	0.00
5,000.00 5.00 267.01 5,089.05 -15.33 -256.32 13.59 0.00 0.00 0.00 5,100.00 5.00 267.01 5,089.05 -15.33 -256.32 13.59 0.00 0.00 0.00 0.00 5,100.00 5.00 267.01 5,188.67 -13.67 -264.02 14.06 0.00 0.00 0.00 0.00 5,100 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4,900.00		267.01	4,889.81	-12.42	-237.91	12.67	0.00	0.00	0.00
\$\frac{5}{100.00}\$ 5.00 \ 287.01 \ 5.089.05 \ -13.33 \ -255.32 \ 13.59 \ 0.00 \	F 000 00	5.00	007.04	4.000.40		040.04	40.40	0.00	0.00	0.00
Siz705   5.00   267.01   5.18.60   -13.45   -257.67   13.72   0.00   0.00   0.00	,			,						
Section   Sect				,						
\$\sqrt{5,200.00}\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,000.00\$ \$6,000.00\$ \$5,000.00\$ \$6,0			267.01	5,116.00	-13.45	-257.07	13.72	0.00	0.00	0.00
5,300.00 5.00 267.01 5,288.29 -14.24 -27.27.3 14.5.2 0.00 0.00 0.00 5,500.00 5.00 267.01 5,487.53 -15.14 -290.13 14.59 0.00 0.00 0.00 5,500.00 5.00 267.01 5,487.53 -15.14 -290.13 15.45 0.00 0.00 0.00 5,500.00 5.00 267.01 5,865.67 -16.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,866.677 -16.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,866.677 -16.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,866.57 -16.60 -298.84 15.91 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,866.50 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 5,500.00 5.00 267.01 5,866.50 -16.50 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			007.04	5 400 07	10.70	224.22	44.00	0.00	0.00	0.00
5,400.00 5.00 267.01 5,387.91 -14.69 -281.43 14.98 0.00 0.00 0.00 5,500.00 5.00 267.01 5,587.91 -15.61 -290.13 15.45 0.00 0.00 0.00 5,500.00 5.00 267.01 5,587.15 -15.60 -298.84 15.91 0.00 0.00 0.00 5,500.00 5.00 267.01 5,586.677 -16.05 -307.54 16.37 0.00 0.00 0.00 5,500.00 5.00 267.01 5,786.39 -16.51 -316.24 16.84 0.00 0.00 0.00 5,500.00 5.00 267.01 5,786.39 -16.51 -316.24 16.84 0.00 0.00 0.00 6,000.00 5.00 267.01 5,786.39 -16.51 -316.24 16.84 0.00 0.00 0.00 6,000.00 5.00 267.01 6,886.00 -16.96 -324.95 17.30 0.00 0.00 0.00 6,100.00 5.00 267.01 6,085.24 -17.87 -342.38 18.23 0.00 0.00 0.00 6,100.00 5.00 267.01 6,085.24 -17.87 -342.38 18.23 0.00 0.00 0.00 6,300.00 5.00 267.01 6,085.24 -17.87 -342.38 18.23 0.00 0.00 0.00 6,300.00 5.00 267.01 6,085.24 -17.87 -342.38 18.23 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -359.76 19.16 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -359.76 19.16 0.00 0.00 0.00 6,500.00 5.00 267.01 6,483.72 -19.69 -377.17 20.08 0.00 0.00 0.00 6,500.00 5.00 267.01 6,483.72 -19.69 -377.17 20.08 0.00 0.00 0.00 6,500.00 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 6,766.29 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 6,766.29 5.00 267.01 6,682.26 -20.60 -394.58 21.01 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 7,100.00 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 7,100.00 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 7,100.00 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 7,100.00 5.00 267.01 6,749.00 -20.99 400.35 21.32 0.00 0.00 0.00 7,100.00 5.00 267.01 7,781.06 -22.87 438.10 23.33 0.00 0.00 0.00 7,700.00 5.00 267.01 7,781.06 -22.87 438.10 23.33 0.00 0.00 0.00 7,700.00 5.00 267.01 7,781.06 -22.87 438.10 23.33 0.00 0.00 0.00 7,700.00 5.00 267.01 7,781.06 -22.87 438.10 23.33 0.00 0.00 0.00 7,700.00 5.00 267.01 7,781.06 -22.87 438.10 23.33 0.00 0.00 0.00 0.00 7,700.00 5.00 267.01 7,781.00 -22.87 438.10 23.33 0.00 0.00 0.00 0										
\$500.00	5,300.00	5.00	267.01	5,288.29	-14.24	-272.73	14.52	0.00	0.00	0.00
5,600.00 5,00 267.01 5,5867.15 -16.05 -307.54 16.37 0.00 0.00 0.00 0.00 5,000 5,00 267.01 5,686.37 -16.05 -307.54 16.37 0.00 0.00 0.00 0.00 5,800.00 5.00 267.01 5,886.00 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 6,000 5.00 267.01 5,886.00 -16.56 -324.95 17.30 0.00 0.00 0.00 6,000 5.00 267.01 5,886.00 -17.42 -333.65 17.37 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -3351.06 18.23 0.00 0.00 0.00 6,200.00 5.00 267.01 6,184.86 -18.32 -351.06 18.89 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,184.86 -18.32 -351.06 18.89 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,844.89 -18.78 -359.76 19.16 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,844.89 -18.78 -359.76 19.16 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,844.89 -19.23 -368.47 19.62 0.00 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,843.72 -19.69 -377.17 20.08 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,833.41 -20.14 -365.87 20.55 0.00 0.00 0.00 6,760.20 5.00 267.01 6,863.34 -20.14 -365.87 20.55 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,842.89 6-20.60 -394.58 21.01 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,882.80 -20.80 -394.58 21.01 0.00 0.00 0.00 0.00 6,800.00 5.00 267.01 6,882.80 -20.80 -394.58 21.01 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 440.328 21.47 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 0.00 7,000.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 7,000.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 7,000 5.00 267.01 6,982.80 -22.45 0.41.99 21.94 0.00 0.00 0.00 7,000 5.00 267.01 6,981.82 2-21.96 420.69 22.40 0.00 0.00 0.00 7,000 5.00 267.01 6,981.82 2-21.96 420.69 22.40 0.00 0.00 0.00 7,000 5.00 267.01 7,781.06 -22.87 -488.10 23.33 0.00 0.00 0.00 7,000 5.00 267.01 7,781.06 -22.87 -488.10 23.33 0.00 0.00 0.00 7,500.00 5.00 267.01 7,781.00 -22.87 -488.10 23.33 0.00 0.00 0.00 7,500.00 5.00 267.01 7,781.90 -22.87 -488.10 23.33 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,789.00 -22.87 -488.80 23.79 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,789.00 -25.51 4.90.00 2.37 8 4.55.00 0.00 0.00 0.00 0	5,400.00	5.00	267.01	5,387.91	-14.69	-281.43	14.98	0.00	0.00	0.00
5,600.00 5,00 267.01 5,5867.15 -16.05 -307.54 16.37 0.00 0.00 0.00 0.00 5,000 5,00 267.01 5,686.37 -16.05 -307.54 16.37 0.00 0.00 0.00 0.00 5,800.00 5.00 267.01 5,886.00 -16.51 -316.24 16.84 0.00 0.00 0.00 0.00 6,000 5.00 267.01 5,886.00 -16.56 -324.95 17.30 0.00 0.00 0.00 6,000 5.00 267.01 5,886.00 -17.42 -333.65 17.37 0.00 0.00 0.00 0.00 6,000 5.00 267.01 6,184.86 -18.32 -3351.06 18.23 0.00 0.00 0.00 6,200.00 5.00 267.01 6,184.86 -18.32 -351.06 18.89 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,184.86 -18.32 -351.06 18.89 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,844.89 -18.78 -359.76 19.16 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,844.89 -18.78 -359.76 19.16 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,844.89 -19.23 -368.47 19.62 0.00 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,843.72 -19.69 -377.17 20.08 0.00 0.00 0.00 6,500 0.00 5.00 267.01 6,833.41 -20.14 -365.87 20.55 0.00 0.00 0.00 6,760.20 5.00 267.01 6,863.34 -20.14 -365.87 20.55 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,842.89 6-20.60 -394.58 21.01 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,882.80 -20.80 -394.58 21.01 0.00 0.00 0.00 0.00 6,800.00 5.00 267.01 6,882.80 -20.80 -394.58 21.01 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 440.328 21.47 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 0.00 7,000.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 7,000.00 5.00 267.01 6,882.20 -21.50 441.99 21.94 0.00 0.00 0.00 7,000 5.00 267.01 6,982.80 -22.45 0.41.99 21.94 0.00 0.00 0.00 7,000 5.00 267.01 6,981.82 2-21.96 420.69 22.40 0.00 0.00 0.00 7,000 5.00 267.01 6,981.82 2-21.96 420.69 22.40 0.00 0.00 0.00 7,000 5.00 267.01 7,781.06 -22.87 -488.10 23.33 0.00 0.00 0.00 7,000 5.00 267.01 7,781.06 -22.87 -488.10 23.33 0.00 0.00 0.00 7,500.00 5.00 267.01 7,781.00 -22.87 -488.10 23.33 0.00 0.00 0.00 7,500.00 5.00 267.01 7,781.90 -22.87 -488.10 23.33 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,789.00 -22.87 -488.80 23.79 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,789.00 -25.51 4.90.00 2.37 8 4.55.00 0.00 0.00 0.00 0										
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5,900.00         5.00         267.01         5,886.00         -16.96         -324.95         17.30         0.00         0.00         0.00           6,000.00         5.00         267.01         5,985.62         -17.42         -333.65         17.77         0.00         0.00         0.00           6,000.00         5.00         267.01         6,885.24         -17.87         -342.36         18.23         0.00         0.00         0.00           6,300.00         5.00         267.01         6,384.48         -18.76         -359.76         19.16         0.00         0.00         0.00           6,400.00         5.00         267.01         6,384.10         -19.23         -368.47         19.62         0.00         0.00         0.00           6,500.00         5.00         267.01         6,883.41         -19.23         -368.47         19.62         0.00         0.00         0.00           6,500.00         5.00         267.01         6,883.34         -2.014         -388.87         20.55         0.00         0.00         0.00           6,766.29         5.00         267.01         6,782.58         -21.05         -403.28         21.47         0.00         0.00         0.00	5,700.00	5.00	267.01	5,686.77	-16.05	-307.54	16.37	0.00	0.00	0.00
6,000.00 5.00 267.01 5,985.62 -17.42 -333.65 17.77 0.00 0.00 0.00 6,100.00 5.00 267.01 6,108.46 -18.32 -351.06 18.69 0.00 0.00 0.00 6,200.00 5.00 267.01 6,124.86 -18.32 -351.06 18.69 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -355.76 19.16 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -355.76 19.16 0.00 0.00 0.00 0.00 6,500.00 5.00 267.01 6,384.10 -19.23 -368.47 19.62 0.00 0.00 0.00 0.00 6,500.00 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 0.00 6,700.00 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,680.96 -20.60 394.58 21.01 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.90 -400.35 21.32 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 4411.99 21.94 0.00 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 4411.99 21.94 0.00 0.00 0.00 0.00 7,000.00 5.00 267.01 6,881.82 -21.96 -420.89 22.40 0.00 0.00 0.00 0.00 7,000.00 5.00 267.01 7,181.06 -22.87 438.10 23.33 0.00 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 438.10 23.33 0.00 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 438.10 23.33 0.00 0.00 0.00 0.00 7,400.00 5.00 267.01 7,181.06 -22.87 438.10 23.33 0.00 0.00 0.00 0.00 7,400.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -25.75 448.81 22.77.27 1.50 -1.50 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -25.75 5.512.53 27.29 1.50 -1.50 0.00 0.00 8,097.02 2.16 267.01 8,075.00 -2	5,800.00	5.00	267.01	5,786.39	-16.51	-316.24	16.84	0.00	0.00	0.00
6,000.00 5.00 267.01 6,085.24 -17.87 -342.36 18.23 0.00 0.00 0.00 6,000.00 5.00 267.01 6,104.86 -18.32 -351.06 18.69 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -355.76 19.16 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -355.76 19.16 0.00 0.00 0.00 0.00 6,300.00 5.00 267.01 6,284.48 -18.78 -355.76 19.16 0.00 0.00 0.00 0.00 6,500.00 5.00 267.01 6,384.10 -19.23 -368.47 19.62 0.00 0.00 0.00 0.00 6,500.00 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 0.00 6,700.00 5.00 267.01 6,680.96 -20.60 394.58 21.01 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.90 -400.35 21.32 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,862.96 -20.60 394.58 21.01 0.00 0.00 0.00 0.00 6,800.00 5.00 267.01 6,862.96 -20.60 394.58 21.01 0.00 0.00 0.00 0.00 0.00 6,800.00 5.00 267.01 6,862.96 -20.60 394.58 21.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	F 000 00	F 00	007.04	T 000 00		204.05	47.00	0.00	0.00	0.00
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6,600.00 5.00 267.01 6,583.34 -20.14 -385.87 20.55 0.00 0.00 0.00 6,700.00 5.00 267.01 6,682.96 -20.60 -394.58 21.01 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.90 -400.35 21.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	6,400.00	5.00	267.01	6,384.10	-19.23	-368.47	19.62	0.00	0.00	0.00
6,700.00 5.00 267.01 6,682.96 -20.60 -394.58 21.01 0.00 0.00 0.00 0.00 6,766.29 5.00 267.01 6,749.00 -20.90 -400.35 21.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	6,500.00	5.00	267.01	6,483.72	-19.69	-377.17	20.08	0.00	0.00	0.00
6,766.29         5.00         267.01         6,749.00         -20.90         -400.35         21.32         0.00         0.00         0.00           Brushy Canyon           6,800.00         5.00         267.01         6,782.58         -21.05         -403.28         21.47         0.00         0.00         0.00           6,900.00         5.00         267.01         6,882.20         -21.50         -411.99         21.94         0.00         0.00         0.00           7,000.00         5.00         267.01         7,081.44         -22.41         -420.69         22.40         0.00         0.00         0.00           7,200.00         5.00         267.01         7,181.06         -22.87         -438.10         23.33         0.00         0.00         0.00           7,300.00         5.00         267.01         7,280.68         -23.32         -446.80         23.79         0.00         0.00         0.00           7,500.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,579.94         -24.68         -472.91         25.18         0.00 </td <td>6,600.00</td> <td>5.00</td> <td>267.01</td> <td>6,583.34</td> <td>-20.14</td> <td>-385.87</td> <td>20.55</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	6,600.00	5.00	267.01	6,583.34	-20.14	-385.87	20.55	0.00	0.00	0.00
Brushy Canyon	6,700.00	5.00	267.01	6,682.96	-20.60	-394.58	21.01	0.00	0.00	0.00
6,800.00 5.00 267.01 6,782.58 -21.05 -403.28 21.47 0.00 0.00 0.00 6,900.00 5.00 267.01 6,882.20 -21.50 -411.99 21.94 0.00 0.00 0.00 7,000.00 5.00 267.01 6,882.20 -21.50 -411.99 21.94 0.00 0.00 0.00 7,000.00 5.00 267.01 7,081.44 -22.41 -429.39 22.86 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 -438.10 23.33 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 -438.10 23.33 0.00 0.00 0.00 7,200.00 5.00 267.01 7,280.68 -23.32 -446.80 23.79 0.00 0.00 0.00 7,400.00 5.00 267.01 7,380.30 -23.78 -455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,380.30 -23.78 -455.50 24.25 0.00 0.00 0.00 7,500.00 5.00 267.01 7,479.92 -24.23 -464.21 24.72 0.00 0.00 0.00 7,600.00 5.00 267.01 7,579.54 -24.68 -472.91 25.18 0.00 0.00 0.00 7,700.00 5.00 267.01 7,679.16 -25.14 -481.62 25.64 0.00 0.00 0.00 7,700.00 5.00 267.01 7,679.16 -25.14 -481.62 25.64 0.00 0.00 0.00 7,800.00 5.00 267.01 7,699.16 -25.14 -481.62 25.64 0.00 0.00 0.00 0.00 7,800.00 5.00 267.01 7,849.00 -25.91 -496.45 26.43 0.00 0.00 0.00 0.00 0.00 7,870.49 5.00 267.01 7,885.97 -26.08 -499.68 26.61 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6,766.29	5.00	267.01	6,749.00	-20.90	-400.35	21.32	0.00	0.00	0.00
6,900.00 5.00 267.01 6,882.20 -21.50 -411.99 21.94 0.00 0.00 0.00 7,000.00 5.00 267.01 6,981.82 -21.96 420.69 22.40 0.00 0.00 0.00 0.00 7,200.00 5.00 267.01 7,814.04 -22.41 -429.39 22.86 0.00 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 -438.10 23.33 0.00 0.00 0.00 0.00 7,200.00 5.00 267.01 7,181.06 -22.87 -438.10 23.33 0.00 0.00 0.00 0.00 7,300.00 5.00 267.01 7,280.68 -23.32 -446.80 23.79 0.00 0.00 0.00 7,400.00 5.00 267.01 7,380.30 -23.78 -455.50 24.25 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,479.92 -24.23 -464.21 24.72 0.00 0.00 0.00 0.00 7,500.00 5.00 267.01 7,579.54 -24.68 -472.91 25.18 0.00 0.00 0.00 0.00 7,700.00 5.00 267.01 7,579.54 -24.68 -472.91 25.18 0.00 0.00 0.00 0.00 7,700.00 5.00 267.01 7,679.16 -25.14 -481.62 25.64 0.00 0.00 0.00 0.00 7,870.49 5.00 267.01 7,849.00 -25.91 -496.45 26.43 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Brushy Can	yon								
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7,000.00         5.00         267.01         6,981.82         -21.96         -420.69         22.40         0.00         0.00         0.00           7,100.00         5.00         267.01         7,081.44         -22.41         -429.39         22.86         0.00         0.00         0.00           7,200.00         5.00         267.01         7,280.68         -23.32         -446.80         23.79         0.00         0.00         0.00           7,400.00         5.00         267.01         7,380.30         -23.78         -438.10         23.79         0.00         0.00         0.00           7,500.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,479.92         -24.23         -464.21         24.72         0.00         0.00         0.00           7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,800.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00										
7,100.00         5.00         267.01         7,081.44         -22.41         -429.39         22.86         0.00         0.00         0.00           7,200.00         5.00         267.01         7,181.06         -22.87         -438.10         23.33         0.00         0.00         0.00           7,300.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,479.92         -24.23         -464.21         24.72         0.00         0.00         0.00           7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,700.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,807.49         5.00         267.01         7,784.77         -25.59         -490.32         26.11         0.00         0.00         0.00										
7,200.00         5.00         267.01         7,181.06         -22.87         -438.10         23.33         0.00         0.00         0.00           7,300.00         5.00         267.01         7,280.68         -23.32         -446.80         23.79         0.00         0.00         0.00           7,400.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,479.92         -24.23         -464.21         24.72         0.00         0.00         0.00           7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,000.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,800.00         5.00         267.01         7,787.77         -25.59         -490.32         26.11         0.00         0.00         0.00           8asal Brushy Canyor         7,978.10         -26.89         -499.68         26.61         0.00         0.00         0.00           8,007.01										
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7,400.00         5.00         267.01         7,380.30         -23.78         -455.50         24.25         0.00         0.00         0.00           7,500.00         5.00         267.01         7,479.92         -24.23         -464.21         24.72         0.00         0.00         0.00           7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,700.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,800.00         5.00         267.01         7,778.77         -25.59         -490.32         26.11         0.00         0.00         0.00           7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,007.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23	7,200.00		207.01	7,101.00						
7,500.00         5.00         267.01         7,479.92         -24.23         -464.21         24.72         0.00         0.00         0.00           7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,700.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,800.00         5.00         267.01         7,778.77         -25.59         -490.32         26.11         0.00         0.00         0.00           7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.90         -26.70         -511.49         27.23 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
7,600.00         5.00         267.01         7,579.54         -24.68         -472.91         25.18         0.00         0.00         0.00           7,700.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,800.00         5.00         267.01         7,778.77         -25.59         -490.32         26.11         0.00         0.00         0.00           7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
7,700.00         5.00         267.01         7,679.16         -25.14         -481.62         25.64         0.00         0.00         0.00           7,800.00         5.00         267.01         7,778.77         -25.59         -490.32         26.11         0.00         0.00         0.00           7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyor           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           Bone Spring           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24         1.50         -1.50         0.00           8,128.04         1.69         267.01         8,177.94         -26.83 <td></td>										
7,800.00         5.00         267.01         7,778.77         -25.59         -490.32         26.11         0.00         0.00         0.00           7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24         1.50         -1.50         0.00           8,128.04         1.69         267.01         8,106.00         -26.75         -512.53         27.29         1.50         -1.50         0.00           8,200.00         0.61         267.01         8,177.94         -26.83         -513.98         27.37 </td <td></td>										
7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           Bone Spring           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24         1.50         -1.50         0.00           8,128.04         1.69         267.01         8,106.00         -26.75         -512.53         27.29         1.50         -1.50         0.00           Bone Spring Lime           8,200.00         0.61         267.01         8,177.94         -26.84         -514.20         27.38         1.50         -1.50         0.00           8,240.94         0.00	7,700.00	5.00	267.01	7,679.16	-25.14	-481.62	25.64	0.00	0.00	0.00
7,870.49         5.00         267.01         7,849.00         -25.91         -496.45         26.43         0.00         0.00         0.00           Basal Brushy Canyon           7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           Bone Spring           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24         1.50         -1.50         0.00           8,128.04         1.69         267.01         8,106.00         -26.75         -512.53         27.29         1.50         -1.50         0.00           Bone Spring Lime           8,200.00         0.61         267.01         8,177.94         -26.83         -513.98         27.37         1.50         -1.50         0.00           8,240.94         0.00	7.800.00	5.00	267.01	7,778.77	-25.59	-490.32	26.11	0.00	0.00	0.00
Rasal Brushy Canyon	7,070.40			704000	05.04					
7,907.61         5.00         267.01         7,885.97         -26.08         -499.68         26.61         0.00         0.00         0.00           8,000.00         3.61         267.01         7,978.10         -26.44         -506.61         26.97         1.50         -1.50         0.00           8,097.02         2.16         267.01         8,075.00         -26.70         -511.49         27.23         1.50         -1.50         0.00           Bone Spring           8,100.00         2.11         267.01         8,077.97         -26.70         -511.60         27.24         1.50         -1.50         0.00           8,128.04         1.69         267.01         8,106.00         -26.75         -512.53         27.29         1.50         -1.50         0.00           Bone Spring Lime           8,200.00         0.61         267.01         8,177.94         -26.83         -513.98         27.37         1.50         -1.50         0.00           8,240.94         0.00         0.00         8,218.88         -26.84         -514.20         27.38         1.50         -1.50         0.00           8,400.00         0.00         0.00         8,277.94         -26.84				,- ,						
8,000.00       3.61       267.01       7,978.10       -26.44       -506.61       26.97       1.50       -1.50       0.00         8,097.02       2.16       267.01       8,075.00       -26.70       -511.49       27.23       1.50       -1.50       0.00         Bone Spring         8,100.00       2.11       267.01       8,077.97       -26.70       -511.60       27.24       1.50       -1.50       0.00         8,128.04       1.69       267.01       8,106.00       -26.75       -512.53       27.29       1.50       -1.50       0.00         Bone Spring Lime         8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00			267.01	7 885 97	-26.08	-499 68	26.61	0.00	0.00	0.00
8,097.02       2.16       267.01       8,075.00       -26.70       -511.49       27.23       1.50       -1.50       0.00         Bone Spring         8,100.00       2.11       267.01       8,077.97       -26.70       -511.60       27.24       1.50       -1.50       0.00         8,128.04       1.69       267.01       8,106.00       -26.75       -512.53       27.29       1.50       -1.50       0.00         Bone Spring Lime         8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00										
Bone Spring         8,100.00       2.11       267.01       8,077.97       -26.70       -511.60       27.24       1.50       -1.50       0.00         8,128.04       1.69       267.01       8,106.00       -26.75       -512.53       27.29       1.50       -1.50       0.00         Bone Spring Lime         8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00										
8,100.00       2.11       267.01       8,077.97       -26.70       -511.60       27.24       1.50       -1.50       0.00         8,128.04       1.69       267.01       8,106.00       -26.75       -512.53       27.29       1.50       -1.50       0.00         Bone Spring Lime         8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00				-,						
8,128.04       1.69       267.01       8,106.00       -26.75       -512.53       27.29       1.50       -1.50       0.00         Bone Spring Lime         8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00	_									
Bone Spring Lime       8,200.00     0.61     267.01     8,177.94     -26.83     -513.98     27.37     1.50     -1.50     0.00       8,240.94     0.00     0.00     8,218.88     -26.84     -514.20     27.38     1.50     -1.50     0.00       8,300.00     0.00     0.00     8,277.94     -26.84     -514.20     27.38     0.00     0.00     0.00       8,400.00     0.00     0.00     8,377.94     -26.84     -514.20     27.38     0.00     0.00     0.00										
8,200.00       0.61       267.01       8,177.94       -26.83       -513.98       27.37       1.50       -1.50       0.00         8,240.94       0.00       0.00       8,218.88       -26.84       -514.20       27.38       1.50       -1.50       0.00         8,300.00       0.00       0.00       8,277.94       -26.84       -514.20       27.38       0.00       0.00       0.00         8,400.00       0.00       0.00       8,377.94       -26.84       -514.20       27.38       0.00       0.00       0.00	8,128.04	1.69	267.01	8,106.00	-26.75	-512.53	27.29	1.50	-1.50	0.00
8,240.94     0.00     0.00     8,218.88     -26.84     -514.20     27.38     1.50     -1.50     0.00       8,300.00     0.00     0.00     8,277.94     -26.84     -514.20     27.38     0.00     0.00     0.00       8,400.00     0.00     0.00     8,377.94     -26.84     -514.20     27.38     0.00     0.00     0.00	Bone Spring	J Lime								
8,300.00     0.00     0.00     8,277.94     -26.84     -514.20     27.38     0.00     0.00     0.00       8,400.00     0.00     0.00     8,377.94     -26.84     -514.20     27.38     0.00     0.00     0.00	8,200.00	0.61	267.01	8,177.94	-26.83	-513.98	27.37	1.50	-1.50	0.00
8,300.00     0.00     0.00     8,277.94     -26.84     -514.20     27.38     0.00     0.00     0.00       8,400.00     0.00     0.00     8,377.94     -26.84     -514.20     27.38     0.00     0.00     0.00	8,240.94	0.00	0.00	8,218.88	-26.84	-514.20	27.38	1.50	-1.50	0.00
8,400.00 0.00 0.00 8,377.94 -26.84 -514.20 27.38 0.00 0.00 0.00	8,300.00	0.00	0.00	8,277.94		-514.20		0.00		0.00
		0.00	0.00			E44 00				0.00
0,000.00 0.00 0.00 0,411.84 -20.04 -314.20 21.30 0.00 0.00 0.00 0.00										
8,600.00 0.00 0.00 8,577.94 -26.84 -514.20 27.38 0.00 0.00 0.00										

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Site: PLU 30 BS
Well: 163H
Wellbore: Lateral
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

nned 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)
8,700.00 8,800.00	0.00 0.00	0.00 0.00	8,677.94 8,777.94	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
8,900.00 9,000.00 9,097.06	0.00 0.00 0.00	0.00 0.00 0.00	8,877.94 8,977.94 9,075.00	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bone Sa		0.00	9,075.00	-20.04	-314.20	27.30	0.00	0.00	0.00
9,100.00 9,200.00	0.00 0.00	0.00 0.00	9,077.94 9,177.94	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00 9,400.00 9,418.06	0.00 0.00 0.00	0.00 0.00 0.00	9,277.94 9,377.94 9,396.00	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2nd Bone L	ime								
9,500.00 9,600.00	0.00 0.00	0.00 0.00	9,477.94 9,577.94	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
9,700.00 9,744.06	0.00 0.00	0.00 0.00	9,677.94 9,722.00	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
2nd Bone S									
9,800.00 9,900.00 10,000.00	0.00 0.00 0.00	0.00 0.00 0.00	9,777.94 9,877.94 9,977.94	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,100.00 10,161.06	0.00	0.00	10,077.94 10,139.00	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00	0.00	0.00
3rd Bone Li			,						
10,200.00 10,300.00 10,400.00	0.00 0.00 0.00	0.00 0.00 0.00	10,177.94 10,277.94 10,377.94	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,500.00 10,600.00	0.00 0.00	0.00 0.00	10,477.94 10,577.94	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
10,700.00 10,800.00 10,900.00	0.00 0.00 0.00	0.00 0.00 0.00	10,677.94 10,777.94 10,877.94	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,000.00 11,063.06	0.00 0.00	0.00 0.00	10,977.94 11,041.00	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
3rd Bone Sa									
11,100.00 11,200.00 11,300.00	0.00 0.00 0.00	0.00 0.00 0.00	11,077.94 11,177.94 11,277.94	-26.84 -26.84 -26.84	-514.20 -514.20 -514.20	27.38 27.38 27.38	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,303.06	0.00	0.00	11,281.00	-26.84	-514.20	27.38	0.00	0.00	0.00
Red Hills 11,363.06	0.00	0.00	11,341.00	-26.84	-514.20	27.38	0.00	0.00	0.00
Wolfcamp 11,388.06	0.00	0.00	11,366.00	-26.84	-514.20	27.38	0.00	0.00	0.00
Wolfcamp X	0.00	0.00	11,377.94	-26.84	-514.20	27.38	0.00	0.00	0.00
11,493.06 Wolfcamp Y	0.00	0.00	11,471.00	-26.84	-514.20	27.38	0.00	0.00	0.00
11,500.00	0.00	0.00	11,477.94	-26.84	-514.20	27.38	0.00	0.00	0.00
11,530.06	0.00	0.00	11,508.00	-26.84	-514.20	27.38	0.00	0.00	0.00
Wolfcamp A 11,600.00 11,700.00	0.00 0.00	0.00 0.00	11,577.94 11,677.94	-26.84 -26.84	-514.20 -514.20	27.38 27.38	0.00 0.00	0.00 0.00	0.00 0.00
11,800.00	0.00	0.00	11,777.94	-26.84	-514.20	27.38	0.00	0.00	0.00

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid Site: PLU 30 BS

Site: PLU 30
Well: 163H
Wellbore: Lateral
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,865.13	0.00	0.00	11,843.07	-26.84	-514.20	27.38	0.00	0.00	0.00
11,900.00	3.49	184.22	11,877.92	-27.90	-514.28	28.44	10.00	10.00	0.00
11,943.30	7.82	184.22	11,921.00	-32.15	-514.59	32.69	10.00	10.00	0.00
Wolfcamp I									
11,950.00	8.49	184.22	11,927.63	-33.10	-514.66	33.64	10.00	10.00	0.00
12,000.00	13.49	184.22	11,976.70	-42.60	-515.36	43.14	10.00	10.00	0.00
12,050.00	18.49	184.22	12,024.75	-56.33	-516.38	56.87	10.00	10.00	0.00
12,100.00	23.49	184.22	12,071.42	-74.18	-517.69	74.72	10.00	10.00	0.00
12,150.00	28.49	184.22	12,116.35	-96.02	-519.30	96.57	10.00	10.00	0.00
12,200.00	33.49	184.22	12,159.20	-121.69	-521.20	122.23	10.00	10.00	0.00
12,250.00	38.49	184.22	12,199.64	-150.98	-523.36	151.53	10.00	10.00	0.00
12,300.00	43.49	184.22	12,237.38	-183.67	-525.77	184.23	10.00	10.00	0.00
12,350.00	48.49	184.22	12,272.11	-219.53	-528.42	220.08	10.00	10.00	0.00
12,400.00	53.49	184.22	12,303.57	-258.26	-531.28	258.81	10.00	10.00	0.00
12,450.00	58.49	184.22	12,331.53	-299.58	-534.32	300.14	10.00	10.00	0.00
12,489.50	62.44	184.22	12,351.00	-333.85	-536.85	334.41	10.00	10.00	0.00
Wolfcamp I	)								
12,500.00	63.49	184.22	12,355.77	-343.17	-537.54	343.73	10.00	10.00	0.00
12,550.00	68.49	184.22	12,376.11	-388.71	-540.90	389.27	10.00	10.00	0.00
12,600.00	73.49	184.22	12,392.40	-435.84	-544.38	436.41	10.00	10.00	0.00
12,650.00	78.49	184.22	12,404.50	-484.20	-547.95	484.77	10.00	10.00	0.00
12,700.00	83.49	184.22	12,412.33	-533.43	-551.58	534.01	10.00	10.00	0.00
12,750.00	88.49	184.22	12,415.83	-583.16	-555.25	583.74	10.00	10.00	0.00
12,759.60	89.45	184.22	12,416.00	-592.73	-555.96	593.31	10.00	10.00	0.00
LP									
12,770.13	90.50	184.22	12,416.01	-603.23	-556.73	603.81	10.00	10.00	0.00
12,800.00	90.50	183.62	12,415.74	-633.03	-558.77	633.62	2.00	0.00	-2.00
12,900.00	90.50	181.62	12,414.87	-732.92	-563.35	733.51	2.00	0.00	-2.00
12,978.12	90.50	180.06	12,414.19	-811.02	-564.49	811.61	2.00	0.00	-2.00
13,000.00	90.50	180.06	12,414.00	-832.90	-564.52	833.50	0.00	0.00	0.00
13,100.00	90.50	180.06	12,413.13	-932.90	-564.62	933.49	0.00	0.00	0.00
13,200.00	90.50	180.06	12,412.25	-1,032.90	-564.73	1,033.49	0.00	0.00	0.00
13,300.00	90.50	180.06	12,411.38	-1,132.89	-564.83	1,133.48	0.00	0.00	0.00
13,400.00	90.50	180.06	12,410.51	-1,232.89	-564.94	1,233.48	0.00	0.00	0.00
13,500.00	90.50	180.06	12,409.64	-1,332.89	-565.04	1,333.48	0.00	0.00	0.00
13,600.00	90.50	180.06	12,408.76	-1,432.88	-565.15	1,433.47	0.00	0.00	0.00
13,700.00	90.50	180.06	12,407.89	-1,532.88	-565.25	1,533.47	0.00	0.00	0.00
13,800.00	90.50	180.06	12,407.02	-1,632.87	-565.36	1,633.46	0.00	0.00	0.00
13,900.00	90.50	180.06	12,406.14	-1,732.87	-565.46	1,733.46	0.00	0.00	0.00
14,000.00	90.50	180.06	12,405.27	-1,832.87	-565.56	1,833.46	0.00	0.00	0.00
14,100.00	90.50	180.06	12,404.40	-1,932.86	-565.67	1,933.45	0.00	0.00	0.00
14,200.00	90.50	180.06	12,403.53	-2,032.86	-565.77	2,033.45	0.00	0.00	0.00
14,300.00	90.50	180.06	12,402.65	-2,132.85	-565.88	2,133.45	0.00	0.00	0.00
14,400.00	90.50	180.06	12,401.78	-2,232.85	-565.98	2,233.44	0.00	0.00	0.00
14,500.00	90.50	180.06	12,400.91	-2,332.85	-566.09	2,333.44	0.00	0.00	0.00
14,600.00	90.50	180.06	12,400.04	-2,432.84	-566.19	2,433.43	0.00	0.00	0.00
14,700.00	90.50	180.06	12,399.16	-2,532.84	-566.30	2,533.43	0.00	0.00	0.00
14,800.00	90.50	180.06	12,398.29	-2,632.83	-566.40	2,633.43	0.00	0.00	0.00
14,900.00	90.50	180.06	12,397.42	-2,732.83	-566.51	2,733.42	0.00	0.00	0.00
14,978.12	90.50	180.06	12,396.74	-2,810.95	-566.59	2,811.54	0.00	0.00	0.00
15,000.00	90.50	180.06	12,396.55	-2,832.83	-566.61	2,833.42	0.00	0.00	0.00
15,100.00	90.50	180.06	12,395.67	-2,932.82	-566.72	2,933.42	0.00	0.00	0.00
15,200.00	90.50	180.06	12,394.80	-3,032.82	-566.82	3,033.41	0.00	0.00	0.00

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid Site: PLU 30 BS

 Site:
 PLU 30

 Well:
 163H

 Wellbore:
 Lateral

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,300.00	90.50	180.06	12,393.93	-3,132.82	-566.93	3,133.41	0.00	0.00	0.00
15,400.00	90.50	180.06	12,393.05	-3,232.81	-567.03	3,233.40	0.00	0.00	0.00
15,500.00	90.50	180.06	12,392.18	-3,332.81	-567.14	3,333.40	0.00	0.00	0.00
15,600.00	90.50	180.06	12,391.31	-3,432.80	-567.24	,	0.00	0.00	0.00
,			,	,		3,433.40			
15,700.00	90.50	180.06	12,390.44	-3,532.80	-567.34	3,533.39	0.00	0.00	0.00
15,800.00	90.50	180.06	12,389.56	-3,632.80	-567.45	3,633.39	0.00	0.00	0.00
15,900.00	90.50	180.06	12,388.69	-3,732.79	-567.55	3,733.38	0.00	0.00	0.00
16,000.00	90.50	180.06	12,387.82	-3,832.79	-567.66	3,833.38	0.00	0.00	0.00
16,100.00	90.50	180.06	12,386.95	-3,932.78	-567.76	3,933.38	0.00	0.00	0.00
16,200.00	90.50	180.06	12,386.07	-4,032.78	-567.87	4,033.37	0.00	0.00	0.00
16,300.00	90.50	180.06	12,385.20	-4,132.78	-567.97	4,133.37	0.00	0.00	0.00
,			,	,					
16,400.00	90.50	180.06	12,384.33	-4,232.77	-568.08	4,233.37	0.00	0.00	0.00
16,500.00	90.50	180.06	12,383.46	-4,332.77	-568.18	4,333.36	0.00	0.00	0.00
16,600.00	90.50	180.06	12,382.58	-4,432.77	-568.29	4,433.36	0.00	0.00	0.00
16,700.00	90.50	180.06	12,381.71	-4,532.76	-568.39	4,533.35	0.00	0.00	0.00
16,800.00	90.50	180.06	12,380.84	-4,632.76	-568.50	4,633.35	0.00	0.00	0.00
16,900.00	90.50	180.06	12,379.96	-4,732.75	-568.60	4,733.35	0.00	0.00	0.00
17,000.00	90.50	180.06	12,379.09	-4,832.75	-568.71	4,833.34	0.00	0.00	0.00
17,100.00	90.50	180.06	12,378.22	-4,932.75	-568.81	4,933.34	0.00	0.00	0.00
17,100.00	90.50	180.06	12,376.22	-5,032.74	-568.92	5,033.34	0.00	0.00	0.00
,			,						
17,300.00	90.50	180.06	12,376.47	-5,132.74	-569.02	5,133.33	0.00	0.00	0.00
17,400.00	90.50	180.06	12,375.60	-5,232.73	-569.12	5,233.33	0.00	0.00	0.00
17,500.00	90.50	180.06	12,374.73	-5,332.73	-569.23	5,333.32	0.00	0.00	0.00
17,600.00	90.50	180.06	12,373.86	-5,432.73	-569.33	5,433.32	0.00	0.00	0.00
17,700.00	90.50	180.06	12,372.98	-5,532.72	-569.44	5,533.32	0.00	0.00	0.00
17,800.00	90.50	180.06	12,372.11	-5,632.72	-569.54	5,633.31	0.00	0.00	0.00
17,900.00	90.50	180.06	12,371.24	-5,732.72	-569.65	5,733.31	0.00	0.00	0.00
,			12,371.24						
18,000.00	90.50	180.06	,	-5,832.71	-569.75	5,833.30	0.00	0.00	0.00
18,100.00	90.50	180.06	12,369.49	-5,932.71	-569.86	5,933.30	0.00	0.00	0.00
18,200.00	90.50	180.06	12,368.62	-6,032.70	-569.96	6,033.30	0.00	0.00	0.00
18,300.00	90.50	180.06	12,367.75	-6,132.70	-570.07	6,133.29	0.00	0.00	0.00
18,400.00	90.50	180.06	12,366.88	-6,232.70	-570.17	6,233.29	0.00	0.00	0.00
18,500.00	90.50	180.06	12,366.00	-6,332.69	-570.28	6,333.29	0.00	0.00	0.00
18,600.00	90.50	180.06	12,365.13	-6,432.69	-570.38	6,433.28	0.00	0.00	0.00
18,700.00	90.50	180.06	12,364.26	-6,532.68	-570.49	6,533.28	0.00	0.00	0.00
18,800.00	90.50	180.06	12,363.38	-6,632.68	-570.59	6,633.27	0.00	0.00	0.00
18,900.00	90.50	180.06	12,362.51	-6,732.68	-570.70	6,733.27	0.00	0.00	0.00
19,000.00	90.50	180.06	12,361.64	-6,832.67	-570.80	6,833.27	0.00	0.00	0.00
19,100.00	90.50	180.06	12,360.77	-6,932.67	-570.90	6,933.26	0.00	0.00	0.00
19,200.00	90.50	180.06	12,359.89	-7,032.67	-571.01	7,033.26	0.00	0.00	0.00
19,300.00	90.50	180.06	12,359.02	-7,132.66	-571.11	7,133.26	0.00	0.00	0.00
19,400.00	90.50	180.06	12,358.15	-7,232.66	-571.22	7,233.25	0.00	0.00	0.00
19,500.00	90.50	180.06	12,357.28	-7,332.65	-571.32	7,333.25	0.00	0.00	0.00
19,600.00	90.50	180.06	12,356.40	-7,432.65	-571.43	7,433.24	0.00	0.00	0.00
19,700.00	90.50	180.06	12,355.40	-7,432.65 -7,532.65	-571.43 -571.53	7,433.24 7,533.24	0.00	0.00	0.00
19,800.00	90.50	180.06	12,354.66	-7,632.64	-571.64	7,633.24	0.00	0.00	0.00
19,900.00	90.50	180.06	12,353.79	-7,732.64	-571.74	7,733.23	0.00	0.00	0.00
20,000.00	90.50	180.06	12,352.91	-7,832.63	-571.85	7,833.23	0.00	0.00	0.00
20,100.00	90.50	180.06	12,352.04	-7,932.63	-571.95	7,933.22	0.00	0.00	0.00
20,161.57	90.50	180.06	12,351.50	-7,994.20	-572.02	7,994.80	0.00	0.00	0.00
20,200.00	90.50	180.06	12,351.17	-8,032.63	-572.06	8,033.22	0.00	0.00	0.00
20,291.58	90.50	180.06	12,350.37	-8,124.20	-572.15	8,124.79	0.00	0.00	0.00
20,231.30	30.30	100.00	12,000.01	-0,124.20	-012.13	0,124.13	0.00	0.00	0.00

Database: STRYKER\_EDM Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Site: PLU 30 BS
Well: 163H
Wellbore: Lateral
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

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
P30BS 163H SHL - plan hits target ce - Point	0.00 nter	0.00	0.00	0.00	0.00	401,230.80	659,159.30	32° 6' 7.4038 N	103° 49' 9.6252 W
P30BS 163H KOP - plan misses target - Point	0.00 t center by 10.0		11,843.07 65.13usft M	-26.84 D (11843.07 T\	-504.20 VD, -26.84 N,	401,203.96 -514.20 E)	658,655.10	32° 6' 7.1620 N	103° 49' 15.4883 W
P30BS 163H PBHL_200 - plan misses target - Rectangle (sides \	t center by 0.05	Susft at 2029		-8,124.20 (12350.37 TV	-572.10 D, -8124.20 N	393,106.60 I, -572.15 E)	658,587.20	32° 4' 47.0321 N	103° 49' 16.7246 W
P30BS 163H LTP_330F - plan misses target - Point			12,351.50 1.57usft MD	-7,994.20 (12351.50 TV	-572.20 D, -7994.20 N	393,236.60 I, -572.02 E)	658,587.10	32° 4' 48.3186 N	103° 49' 16.7186 W
P30BS 163H LP - plan hits target ce - Point	0.00 nter	0.01	12,416.00	-603.23	-556.73	400,627.57	658,602.57	32° 6′ 1.4604 N	103° 49' 16.1308 W
P30BS 163H FTP_345F - plan misses target - Point			12,416.00 6.94usft MD	-699.80 (12415.16 TV	-564.20 D, -699.88 N,	400,531.00 -562.22 E)	658,595.10	32° 6' 0.5051 N	103° 49' 16.2229 W

nations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,170.00	1,170.00	Rustler			
	1,496.00	1,496.00	Salado			
	3,978.68	3,972.00	Base of Salt			
	4,146.32	4,139.00	Delaware			
	5,127.05	5,116.00	Cherry Canyon			
	6,766.29	6,749.00	Brushy Canyon			
	7,870.49	7,849.00	Basal Brushy Canyon			
	8,097.02	8,075.00	Bone Spring			
	8,128.04	8,106.00	Bone Spring Lime			
	9,097.06	9,075.00	1st Bone Sand			
	9,418.06	9,396.00	2nd Bone Lime			
	9,744.06	9,722.00	2nd Bone Sand			
	10,161.06	10,139.00	3rd Bone Lime			
	11,063.06	11,041.00	3rd Bone Sand			
	11,303.06	11,281.00	Red Hills			
	11,363.06	11,341.00	Wolfcamp			
	11,388.06	11,366.00	Wolfcamp X			
	11,493.06	11,471.00	Wolfcamp Y			
	11,530.06	11,508.00	Wolfcamp A			
	11,943.30	11,921.00	Wolfcamp B			
	12,489.50	12,351.00	Wolfcamp D			
	12,759.60	12,416.00	LP			

## Anticollision Report

Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Plan #1

Reference Site: PLU 30 BS 0.00 usft Site Error: Reference Well: 163H Well Error: 0.00 usft Reference Wellbore Lateral

TVD Reference: MD Reference: North Reference:

Local Co-ordinate Reference:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid **Survey Calculation Method:** 

Minimum Curvature Output errors are at 2.00 sigma STRYKER\_EDM Database: Offset TVD Reference: Offset Datum

Reference Plan #1

Reference Design:

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 separation factor of 4.00 Error Surface: Ellipsoid Separation Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

03/06/20 Survey Tool Program Date From То (usft) Survey (Wellbore) **Tool Name** (usft) Description MWD OWSG MWD - Standard 0.00 11,870.57 Plan #1 (Lateral) 11,870.57 20,290.91 Plan #1 (Lateral) MWD+IFR1+MS OWSG MWD + IFR1 + Multi-Station Correction

Summary Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
PLU 30 BS						
101H - Lateral E121 - Plan #1						Out of range
103H - Lateral - Plan #1						Out of range
121H - Lateral E121 - Plan #1						Out of range
122H - Lateral E121 - Plan #1	11,151.28	11,167.54	148.66	68.52	1.855	
122H - Lateral E121 - Plan #1	11,200.00	11,214.24	148.76	68.33	1.849	ES, SF
124H - Lateral - Plan #1						Out of range
161H - Lateral E121 - Plan #1						Out of range
164H - Lateral - Plan #1						Out of range

Offset De	sign	PLU 30	BS - 122	H - Lateral I	E121 - Pla	an #1							Offset Site Error:	0.00 usft
Survey Prog	ram: 0-M	WD, 11212-MV	/D+IFR1+MS	5									Offset Well Error:	0.00 usft
Refer	ence	Offse	et	Semi Major	Axis				Dista	ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,800.00	7,778.77	7,837.24	7,790.16	28.58	29.95	-22.81	-117.90	-683.76	215.61	159.59	56.02	3.849		
7,850.00	7,828.58	7,886.07	7,838.56	28.77	30.15	-24.29	-118.84	-677.46	206.27	149.81	56.46	3.654		
7,900.00	7,878.39	7,934.89	7,886.97	28.96	30.35	-25.90	-119.79	-671.16	197.08	140.17	56.91	3.463		
7,950.00	7,928.22	7,983.77	7,935.43	29.15	30.55	-27.58	-120.74	-664.85	188.26	130.90	57.37	3.282		
8,000.00	7,978.10	8,032.78	7,984.02	29.34	30.75	-29.32	-121.69	-658.52	180.19	122.36	57.83	3.116		
8,050.00	8,028.02	8,080.82	8,031.67	29.52	30.95	-31.05	-122.60	-652.46	172.97	114.63	58.33	2.965		
8,100.00	8,077.97	8,128.63	8,079.16	29.70	31.14	-32.66	-123.42	-646.98	166.89	108.06	58.83	2.837		
8,150.00	8,127.95	8,176.72	8,126.98	29.88	31.33	-34.13	-124.16	-642.06	161.96	102.64	59.31	2.730		
8,200.00	8,177.94	8,225.02	8,175.09	30.06	31.52	-35.41	-124.81	-637.72	158.10	98.32	59.78	2.645		
8,250.00	8,227.94	8,273.51	8,223.42	30.23	31.70	-129.44	-125.37	-633.97	155.27	95.06	60.22	2.579		
8,300.00	8,277.94	8,322.10	8,271.91	30.39	31.88	-130.33	-125.85	-630.82	153.10	92.46	60.64	2.525		
8,350.00	8,327.94	8,370.76	8,320.50	30.56	32.05	-131.06	-126.23	-628.28	151.37	90.33	61.04	2.480		
8,400.00	8,377.94	8,419.48	8,369.19	30.73	32.23	-131.63	-126.52	-626.35	150.08	88.65	61.42	2.443		
8,450.00	8,427.94	8,468.24	8,417.93	30.90	32.39	-132.02	-126.72	-625.03	149.21	87.41	61.79	2.415		
8,500.00	8,477.94	8,517.03	8,466.71	31.06	32.56	-132.24	-126.82	-624.33	148.74	86.60	62.14	2.394		
8,546.41	8,524.35	8,562.67	8,512.35	31.22	32.71	-132.27	-126.84	-624.20	148.66	86.21	62.45	2.380		
8,550.00	8,527.94	8,566.26	8,515.94	31.23	32.72	-132.27	-126.84	-624.20	148.66	86.18	62.48	2.379		
8,600.00	8,577.94	8,616.26	8,565.94	31.40	32.88	-132.27	-126.84	-624.20	148.66	85.85	62.81	2.367		

## Anticollision Report

Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Plan #1

PLU 30 BS Reference Site: Site Error: 0.00 usft Reference Well: 163H Well Error: 0.00 usft Reference Wellbore Lateral

Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** Output errors are at

Database:

Offset TVD Reference:

Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

Minimum Curvature 2.00 sigma STRYKER\_EDM Offset Datum

Offset De	sign	PLU 30	BS - 122	H - Lateral	E121 - Pl	an #1							Offset Site Error:	0.00 usft
Survey Prog	•	WD, 11212-MV											Offset Well Error:	0.00 usft
Refer		Offs		Semi Major					Dista	ınce				
Measured Depth	Vertical Depth	Measured	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	Depth (usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	ractor		
8,650.00	8,627.94	8,666.26	8,615.94	31.57	33.04	-132.27	-126.84	-624.20	148.66	85.51	63.15	2.354		
8,700.00	8,677.94	8,716.26	8,665.94	31.74	33.20	-132.27	-126.84	-624.20	148.66	85.18	63.48	2.342		
8,750.00	8,727.94	8,766.26	8,715.94	31.91	33.36	-132.27	-126.84	-624.20	148.66	84.85	63.82	2.330		
8,800.00	8,777.94	8,816.26	8,765.94	32.07	33.52	-132.27	-126.84	-624.20	148.66	84.51	64.15	2.317		
8,850.00	8,827.94	8,866.26	8,815.94	32.24	33.68	-132.27	-126.84	-624.20	148.66	84.17	64.49	2.305		
8,900.00	8,877.94	8,916.26	8,865.94	32.41	33.84	-132.27	-126.84	-624.20	148.66	83.84	64.82	2.293		
8,950.00	8,927.94	8,966.26	8,915.94	32.58	34.00	-132.27	-126.84	-624.20	148.66	83.50	65.16	2.282		
9,000.00	8,977.94	9,016.26	8,965.94	32.75	34.17	-132.27	-126.84	-624.20	148.66	83.17	65.49	2.270		
9,050.00	9,027.94	9,066.26	9,015.94	32.92	34.33	-132.27	-126.84	-624.20	148.66	82.83	65.83	2.258		
9,100.00	9,077.94	9,116.26	9,065.94	33.09	34.49	-132.27	-126.84	-624.20	148.66	82.49	66.17	2.247		
9,150.00	9,127.94	9,166.26	9,115.94	33.26	34.65	-132.27	-126.84	-624.20	148.66	82.16	66.50	2.235		
	0.477.04	0.040.00	0.405.04	00.40	04.04	400.07	400.04	004.00	440.00	04.00	22.24	0.004		
9,200.00	9,177.94	9,216.26	9,165.94	33.43	34.81	-132.27	-126.84	-624.20	148.66	81.82	66.84	2.224		
9,250.00 9,300.00	9,227.94 9,277.94	9,266.26 9,316.26	9,215.94 9,265.94	33.60 33.77	34.97 35.14	-132.27 -132.27	-126.84 -126.84	-624.20 -624.20	148.66 148.66	81.48 81.15	67.18 67.52	2.213 2.202		
9,350.00	9,327.94	9,366.26	9,265.94	33.94	35.14	-132.27	-126.84	-624.20	148.66	80.81	67.85	2.202		
9,400.00	9,377.94	9,416.26	9,365.94	34.11	35.46	-132.27	-126.84	-624.20	148.66	80.47	68.19	2.180		
.,	-,-		-,											
9,450.00	9,427.94	9,466.26	9,415.94	34.28	35.63	-132.27	-126.84	-624.20	148.66	80.13	68.53	2.169		
9,500.00	9,477.94	9,516.26	9,465.94	34.45	35.79	-132.27	-126.84	-624.20	148.66	79.79	68.87	2.159		
9,550.00	9,527.94	9,566.26	9,515.94	34.62	35.95	-132.27	-126.84	-624.20	148.66	79.45	69.21	2.148		
9,600.00	9,577.94	9,616.26	9,565.94	34.79	36.12	-132.27	-126.84	-624.20	148.66	79.12	69.54	2.138		
9,650.00	9,627.94	9,666.26	9,615.94	34.96	36.28	-132.27	-126.84	-624.20	148.66	78.78	69.88	2.127		
9,700.00	9,677.94	9,716.26	9,665.94	35.13	36.44	-132.27	-126.84	-624.20	148.66	78.44	70.22	2.117		
9,750.00	9,727.94	9,766.26	9,715.94	35.30	36.61	-132.27	-126.84	-624.20	148.66	78.10	70.56	2.107		
9,800.00	9,777.94	9,816.26	9,765.94	35.47	36.77	-132.27	-126.84	-624.20	148.66	77.76	70.90	2.097		
9,850.00	9,827.94	9,866.26	9,815.94	35.64	36.93	-132.27	-126.84	-624.20	148.66	77.42	71.24	2.087		
9,900.00	9,877.94	9,916.26	9,865.94	35.81	37.10	-132.27	-126.84	-624.20	148.66	77.08	71.58	2.077		
9,950.00	9,927.94	9,966.26	9,915.94	35.98	37.26	-132.27	-126.84	-624.20	148.66	76.74	71.92	2.067		
10,000.00	9,977.94	10,016.26	9,965.94	36.15	37.43	-132.27	-126.84	-624.20	148.66	76.40	72.26	2.057		
10,050.00	10,027.94	10,066.26	10,015.94	36.32	37.59	-132.27	-126.84	-624.20	148.66	76.06	72.60	2.048		
10,100.00	10,077.94	10,116.26	10,065.94	36.50	37.76	-132.27	-126.84	-624.20	148.66	75.72	72.94	2.038		
10,150.00	10,127.94	10,166.26	10,115.94	36.67	37.92	-132.27	-126.84	-624.20	148.66	75.38	73.28	2.029		
40,000,00	40 477 04	40.040.00	40.405.04	20.04	20.00	400.07	400.04	004.00	440.00	75.04	70.00	0.040		
10,200.00 10,250.00	10,177.94 10,227.94	10,216.26 10,266.26	10,165.94 10,215.94	36.84 37.01	38.09 38.25	-132.27 -132.27	-126.84 -126.84	-624.20 -624.20	148.66 148.66	75.04 74.70	73.62 73.97	2.019 2.010		
10,250.00	10,227.94	10,266.26	10,215.94	37.01	38.42	-132.27	-126.84	-624.20	148.66	74.70	74.31	2.010		
10,350.00	10,327.94	10,366.26	10,315.94	37.16	38.58	-132.27	-126.84	-624.20	148.66	74.01	74.65	1.991		
10,400.00	10,377.94	10,416.26	10,365.94	37.52	38.75	-132.27	-126.84	-624.20	148.66	73.67	74.99	1.982		
10,450.00	10,427.94	10,466.26	10,415.94	37.70	38.91	-132.27	-126.84	-624.20	148.66	73.33	75.33	1.973		
10,500.00	10,477.94	10,516.26	10,465.94	37.87	39.08	-132.27	-126.84	-624.20	148.66	72.99	75.67	1.965		
10,550.00	10,527.94 10,577.94	10,566.26 10,616.26	10,515.94	38.04	39.25 39.41	-132.27	-126.84	-624.20 -624.20	148.66	72.65	76.01 76.36	1.956 1.947		
10,650.00	10,577.94	10,616.26	10,565.94 10,615.94	38.21 38.38	39.41	-132.27 -132.27	-126.84 -126.84	-624.20 -624.20	148.66 148.66	72.30 71.96	76.70	1.947		
10,000.00	10,021.04	10,000.20	10,010.04	30.30	55.50	-102.21	120.04	-524.20	140.00	71.30	10.10	1.000		
10,700.00	10,677.94	10,716.26	10,665.94	38.56	39.75	-132.27	-126.84	-624.20	148.66	71.62	77.04	1.930		
10,750.00	10,727.94	10,766.26	10,715.94	38.73	39.91	-132.27	-126.84	-624.20	148.66	71.28	77.38	1.921		
10,800.00	10,777.94	10,816.26	10,765.94	38.90	40.08	-132.27	-126.84	-624.20	148.66	70.93	77.73	1.913		
10,850.00	10,827.94	10,866.26	10,815.94	39.07	40.24	-132.27	-126.84	-624.20	148.66	70.59	78.07	1.904		
10,900.00	10,877.94	10,916.26	10,865.94	39.24	40.41	-132.27	-126.84	-624.20	148.66	70.25	78.41	1.896		
10,950.00	10,927.94	10,966.26	10,915.94	39.42	40.58	-132.27	-126.84	-624.20	148.66	69.90	78.76	1.888		
11,000.00	10,977.94	11,016.26	10,965.94	39.59	40.75	-132.27	-126.84	-624.20	148.66	69.56	79.10	1.879		
11,050.00	11,027.94	11,066.26	11,015.94	39.76	40.91	-132.27	-126.84	-624.20	148.66	69.22	79.44	1.871		
11,100.00	11,077.94	11,116.26	11,065.94	39.93	41.08	-132.27	-126.84	-624.20	148.66	68.87	79.79	1.863		
11,150.00	11,127.94	11,166.26	11,115.94	40.11	41.25	-132.27	-126.84	-624.20	148.66	68.53	80.13	1.855		
44 454 65	44 400 0=	44 407 5 :	44 447 00	40.41	44.05	400.07	100.0:	004.05	410.00	20.55	20.71	4.055	20	
11,151.28	11,129.22	11,167.54	11,117.22	40.11	41.25	-132.27	-126.84	-624.20	148.66	68.52	80.14	1.855 (	JU .	

## Anticollision Report

Company: XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid

Plan #1

Reference Site: PLU 30 BS
Site Error: 0.00 usft
Reference Well: 163H
Well Error: 0.00 usft
Reference Wellbore Lateral

Reference Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well 163H - Slot P30BS 163H SHL 3381+25 @ 3406.00usft (E101) 3381+25 @ 3406.00usft (E101)

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma
Database: STRYKER\_EDM
Offset TVD Reference: Offset Datum

Offset Des	sign	PLU 30	BS - 122	H - Lateral E	E121 - Pla	an #1							Offset Site Error:	0.00 usf
Survey Progr	ram: 0-M	WD, 11212-MV	VD+IFR1+MS										Offset Well Error:	0.00 usf
Refere	ence	Offs	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,200.00	11,177.94	11,214.24	11,163.92	40.28	41.39	-132.32	-126.98	-624.19	148.76	68.33	80.44	1.849 E	S, SF	
11,250.00	11,227.94	11,257.26	11,206.86	40.45	41.49	-133.10	-129.55	-623.97	150.60	70.07	80.53	1.870		
11,300.00	11,277.94	11,300.00	11,249.19	40.62	41.57	-134.78	-135.28	-623.47	154.85	74.39	80.46	1.925		
11,350.00	11,327.94	11,341.02	11,289.32	40.80	41.66	-137.12	-143.71	-622.74	161.70	81.56	80.14	2.018		
11,400.00	11,377.94	11,380.93	11,327.69	40.97	41.74	-139.91	-154.64	-621.79	171.38	91.77	79.61	2.153		
11,450.00	11,427.94	11,419.13	11,363.61	41.14	41.81	-142.89	-167.57	-620.67	184.07	105.22	78.84	2.335		
11,500.00	11,477.94	11,450.00	11,391.95	41.32	41.87	-145.42	-179.74	-619.62	199.92	122.73	77.18	2.590		
11,550.00	11,527.94	11,489.61	11,427.28	41.49	41.95	-148.68	-197.56	-618.08	218.62	141.89	76.72	2.849		
11,600.00	11,577.94	11,521.71	11,454.96	41.66	42.01	-151.27	-213.75	-616.67	240.32	164.83	75.49	3.183		
11,650.00	11,627.94	11,550.00	11,478.56	41.84	42.06	-153.46	-229.29	-615.33	264.73	190.70	74.03	3.576		
11,700.00	11,677.94	11,579.67	11,502.46	42.01	42.11	-155.64	-246.80	-613.81	291.60	218.64	72.97	3.996		