U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

04/09/2021

Well Name: BRUSHY DRAW 30 FEDERAL

Well Location: T25S / R30E / SEC 30 / SWSE / 32.094529 / -103.917146

County or Parish/State: EDDY / NM

Well Number: 125H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM014785, NMNM14785

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001545192

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 04/09/2021

Time Sundry Submitted: 05:01

Date proposed operation will begin: 04/09/2021

Procedure Description: **Spacing, Casing/Cement, Drilling Variance Changes **Submitted as 'Other' per AFMSSII HelpDesk Email fr/Lucinda Lewis, 03.31.2021 XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change BHL fr/2440'FNL & 1650'FEL to 2440'FNL & 1400'FEL Casing/Cement design per the attached drilling program. XTO also requests the following variances: Approval to utilize a spudder rig to pre-set surface casing per the attached description of operations. 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 recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. ONLY test broken pressure seals on the BOP equipment per the attached procedure. A variance is requested to cement offline for the surface and intermediate casing strings. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram 5MBOP/5MCM Spudder Rig Description of Operations BOP Break Test Procedure Offline Cementing Procedure

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

BD_30_125H_Attachments_20210409050149.pdf

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Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Specialist Review

Conditions_of_Approval_20210409075517.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RABADUE

Signed on: APR 09, 2021 05:01 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Coordinator

Street Address: 500 W. Illinois St, Ste 100

City: Midland **State:** TX

Phone: (432) 620-6714

Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: JENNIFER SANCHEZ

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5756270237

BLM POC Email Address: j1sanchez@blm.gov

Disposition: Approved

Disposition Date: 04/09/2021

Signature: Jennifer Sanchez

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

XTO Energy Inc.
Brushy Draw 30 Federal 125H
Projected TD: 23808' MD / 10738' TVD
SHL: 330' FSL & 1587' FEL , Section 30, T25S, R30E
BHL: 2440' FNL & 1400' FEL , Section 7, T26S, R30E
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	708'	Water
Salado	938'	Water
Delaware	3493'	Water
Brushy Canyon	6038'	Water/Oil/Gas
Bone Spring	7298'	Water
1st Bone Spring Ss	8223'	Water/Oil/Gas
2nd Bone Spring Ss	9078'	Water/Oil/Gas
3rd Bone Spring Ss	10158'	Water/Oil/Gas
Wolfcamp	10523'	Water/Oil/Gas
Wolfcamp X	10568'	Water/Oil/Gas
Wolfcamp A	10678'	Water/Oil/Gas
Target/Land Curve	10738'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9-5/8" casing @ 838' (100' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 10000' 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 5-1/2" 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
12-1/4"	0' – 838'	9-5/8"	40	BTC	J-55	New	1.39	6.78	18.79
8-3/4"	0' – 4000'	7-5/8"	29.7	Liberty FJ	CYP-110	New	2.40	2.65	1.88
8-3/4"	4000' – 10000'	7-5/8"	29.7	Liberty FJ	HCL-80	New	1.74	2.00	2.28
6-3/4"	0' – 9900'	5-1/2"	23	Semi-Premium	P-110	New	1.21	2.50	2.04
6-3/4"	9900' - 23808'	5-1/2"	23	Semi-Flush	P-110	New	1.21	2.30	4.68

· 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" 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
·Request to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 9-5/8" SOW bottom
B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
· Wellhead will be installed by manufacturer's representatives.
· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

· Operator will test the 7-5/8" casing per BLM Onshore Order 2
· Wellhead Manufacturer representative will not be present for BOP test plug installatior

4. Cement Program

Surface Casing: 9-5/8", 40 New J-55, BTC casing to be set at +/- 838'

Lead: 240 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 casing to be set at +/- 10000
1st Stage
Optional Lead: 320 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface

Tail: 350 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
TOC: Brushy Canyon (6038')

2nd Stage
Tail: 540 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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6038') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5-1/2", 23 x 5-1/2", 23 New casing to be set at +/- 23808'
Lead: 10 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 900 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
TOC: 300' inside previous shoe

5. Pressure Control Equipment

Once the permanent WH is installed on the 9-5/8" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M 3-Ram BOP. MASP should not exceed 3947 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 9-5/8", 5M bradenhead and flange, the BOP test will be limited to 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set 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 manufacturer recommendations, XTO will contact the BLM on each rig skid on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A variance is requested to **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 according to attached offline cementing supporting documentation.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 838'	12-1/4"	FW / Native	8.4-8.8	35-40	NC
838' - 10000'	8-3/4"	Brine / Cut Brine /	8.5-10.2	30-32	NC
10000' to 23808'	6-3/4"	Cut Brine / WBM / OBM	10.8-12.3	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 9-5/8" surface casing, isolating the fresh water aquifer. Drill out from under 9-5/8" 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 9-5/8" casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S

occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6310 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

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-45192	98220	Purple Sage; Wolfcamp (Gas)

[4] Property Code	[5] Property Name	[6] Well Number
	BRUSHY DRAW 30 FEDERAL	125H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,108'

[10] Surface Location

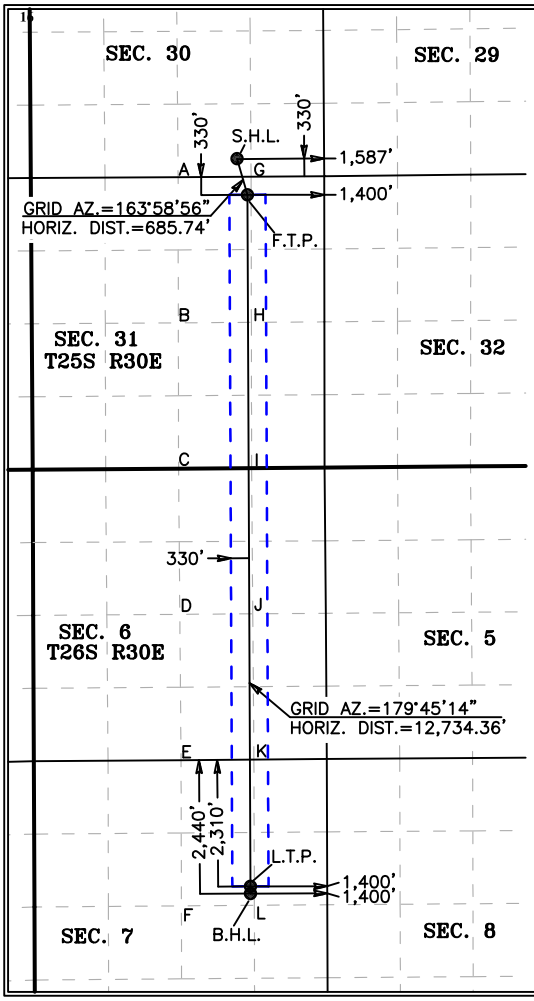
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	30	25 S	30 E		330	SOUTH	1,587	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	26 S	30 E		2,440	NORTH	1,400	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
820			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	398,375.1	Y =	385,111.7
X =	670,218.6	X =	670,462.1
LAT. =	32.094529 °N	LAT. =	32.058067 °N
LONG. =	103.917146 °W	LONG. =	103.916525 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	397,716.0	Y =	384,981.7
X =	670,407.9	X =	670,462.6
LAT. =	32.092715 °N	LAT. =	32.057709 °N
LONG. =	103.916543 °W	LONG. =	103.916525 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	398,037.8 N ,	X =	669,143.7 E
B - Y =	395,382.0 N ,	X =	669,148.4 E
C - Y =	392,724.6 N ,	X =	669,153.0 E
D - Y =	390,069.4 N ,	X =	669,175.5 E
E - Y =	387,411.8 N ,	X =	669,198.0 E
F - Y =	384,756.2 N ,	X =	669,204.1 E
G - Y =	398,047.7 N ,	X =	670,474.6 E
H - Y =	395,390.9 N ,	X =	670,479.4 E
I - Y =	392,734.7 N ,	X =	670,483.5 E
J - Y =	390,079.0 N ,	X =	670,505.2 E
K - Y =	387,422.3 N ,	X =	670,525.6 E
L - Y =	384,766.4 N ,	X =	670,533.7 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	398,316.9	Y =	385,053.9
X =	629,033.7	X =	629,276.7
LAT. =	32.094404 °N	LAT. =	32.057941 °N
LONG. =	103.916663 °W	LONG. =	103.916044 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	397,657.8	Y =	384,923.9
X =	629,222.9	X =	629,277.2
LAT. =	32.092590 °N	LAT. =	32.057584 °N
LONG. =	103.916060 °W	LONG. =	103.916044 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	397,979.6 N ,	X =	627,958.8 E
B - Y =	395,323.9 N ,	X =	627,963.3 E
C - Y =	392,666.5 N ,	X =	627,967.9 E
D - Y =	390,011.4 N ,	X =	627,990.3 E
E - Y =	387,353.9 N ,	X =	628,012.7 E
F - Y =	384,698.4 N ,	X =	628,018.8 E
G - Y =	397,989.5 N ,	X =	629,289.6 E
H - Y =	395,332.7 N ,	X =	629,294.4 E
I - Y =	392,676.7 N ,	X =	629,298.4 E
J - Y =	390,021.1 N ,	X =	629,320.0 E
K - Y =	387,364.4 N ,	X =	629,340.3 E
L - Y =	384,708.6 N ,	X =	629,348.4 E

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stephanie Rabadue 03/01/2021
Signature Date

Stephanie Rabadue
Printed Name

stephanie.rabadue@exxonmobil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

2-26-2021
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number LM 2017060891

XTO Energy

Eddy County, NM (NAD-27)
Brushy Draw 30 Federal
#125H

Wellbore #1

Plan: PERMIT

Standard Planning Report

23 February, 2021

XTO ENERGY

Project: Eddy County, NM (NAD-27)
Site: Brushy Draw 30 Federal
Well: #125H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BD 30 Fed. #125H SHL (330' FSL/1587' FEL)	0.00	0.00	0.00	398316.90	629033.70	32.0944038	-103.9166626	Point
BD 30 Fed. #125H FTP	10738.00	-659.10	189.20	397657.80	629222.90	32.0925900	-103.9160599	Point
BD 30 Fed. #125H LTP	10738.00	-13263.00	243.00	385053.90	629276.70	32.0579414	-103.9160436	Point
BD 30 Fed. #125H PBHL (2440' FNL/1400' FEL)	10738.00	-13393.00	243.50	384923.90	629277.20	32.0575841	-103.9160436	Point

WELL DETAILS: #125H

Rig Name:
RKB = 30' @ 3138.00usft
Ground Level: 3108.00

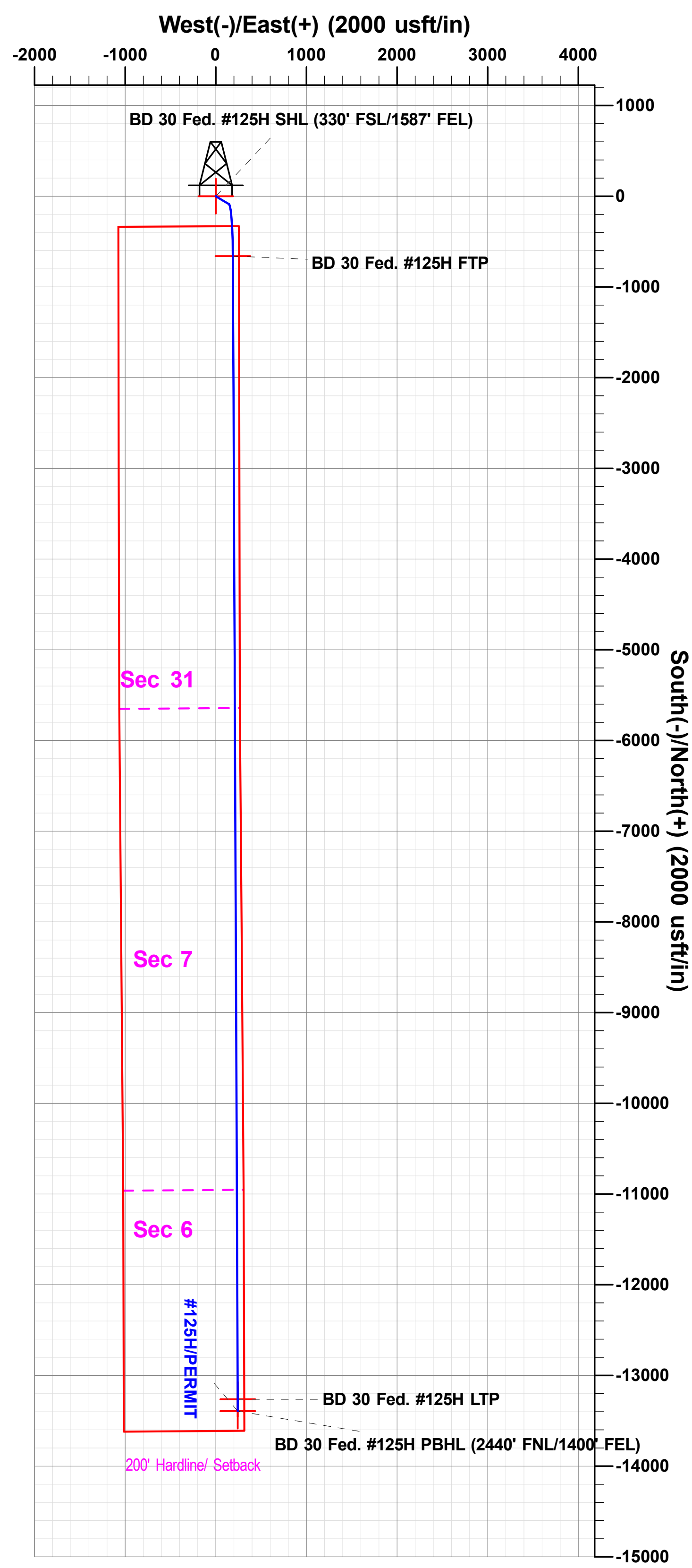
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	398316.90	629033.70	32.0944038	-103.9166626

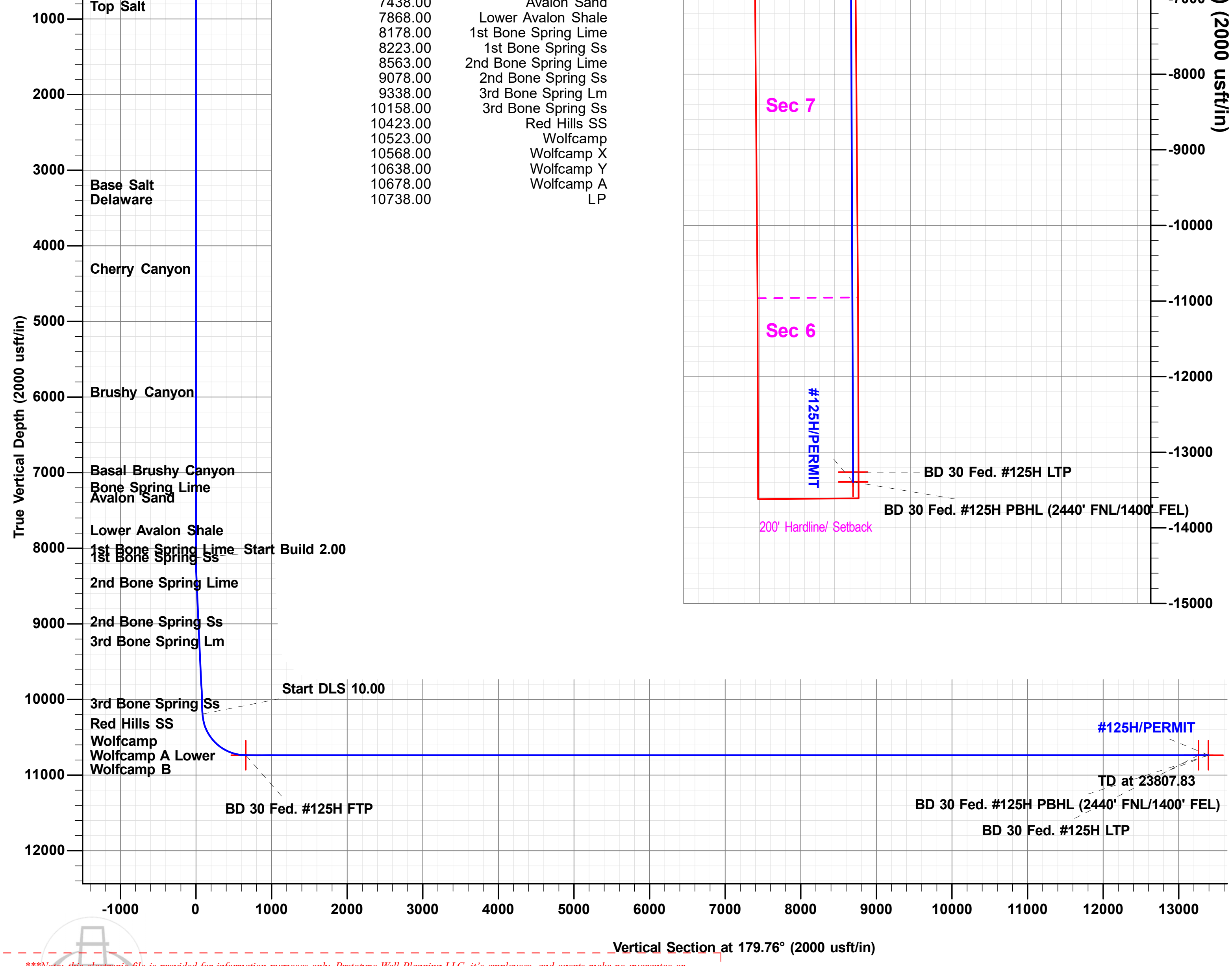
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8125.00	0.00	0.00	8125.00	0.00	0.00	0.00	0.00	0.00
3	8374.81	5.00	120.78	8374.49	-5.57	9.35	2.00	120.78	5.61
4	10199.54	5.00	120.78	10192.29	-86.90	145.88	0.00	0.00	87.51
5	11073.81	90.00	179.76	10738.00	-659.10	189.20	10.00	59.07	659.89
6	23677.83	90.00	179.76	10738.00	-13263.00	242.95	0.00	0.00	13263.90
7	23807.83	90.00	179.76	10738.00	-13393.00	243.50	0.00	0.00	13393.90

FORMATION TOP DETAILS

TVDPath	Formation
708.00	Rustler
938.00	Top Salt
3298.00	Base Salt
3493.00	Delaware
4408.00	Cherry Canyon
6038.00	Brushy Canyon
7078.00	Basal Brushy Canyon
7298.00	Bone Spring Lime
7438.00	Avalon Sand
7868.00	Lower Avalon Shale
8178.00	1st Bone Spring Lime
8223.00	1st Bone Spring Ss
8563.00	2nd Bone Spring Lime
9078.00	2nd Bone Spring Ss
9338.00	3rd Bone Spring Lm
10158.00	3rd Bone Spring Ss
10423.00	Red Hills SS
10523.00	Wolfcamp
10568.00	Wolfcamp X
10638.00	Wolfcamp Y
10678.00	Wolfcamp A
10738.00	LP





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Plan: PERMIT (#125H/Wellbore #1)

Created By: Matthew May Date: 8:25, February 23 2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015		

[4] Property Code	[5] Property Name	[6] Well Number
	BRUSHY DRAW 30 FEDERAL	125H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,108'

[10] Surface Location

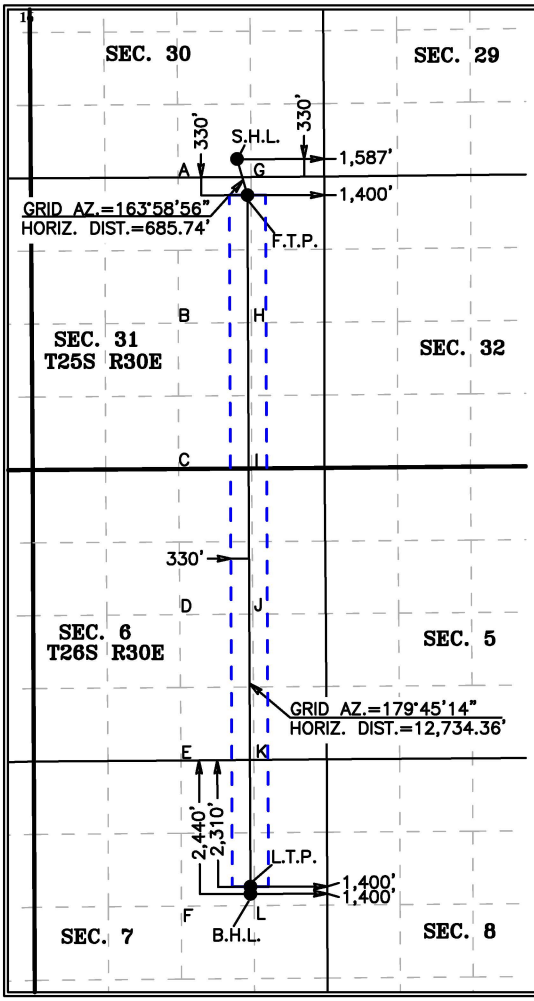
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	30	25 S	30 E		330	SOUTH	1,587	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	26 S	30 E		2,440	NORTH	1,400	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	398,375.1	Y =	385,111.7
X =	670,218.6	X =	670,462.1
LAT. =	32.094529 °N	LAT. =	32.058067 °N
LONG. =	103.917146 °W	LONG. =	103.916525 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	397,716.0	Y =	384,981.7
X =	670,407.9	X =	670,462.6
LAT. =	32.092715 °N	LAT. =	32.057709 °N
LONG. =	103.916543 °W	LONG. =	103.916525 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	398,037.8 N ,	X =	669,143.7 E
B - Y =	395,382.0 N ,	X =	669,148.4 E
C - Y =	392,724.6 N ,	X =	669,153.0 E
D - Y =	390,069.4 N ,	X =	669,175.5 E
E - Y =	387,411.8 N ,	X =	669,198.0 E
F - Y =	384,756.2 N ,	X =	669,204.1 E
G - Y =	398,047.7 N ,	X =	670,474.6 E
H - Y =	395,390.9 N ,	X =	670,479.4 E
I - Y =	392,734.7 N ,	X =	670,483.5 E
J - Y =	390,079.0 N ,	X =	670,505.2 E
K - Y =	387,422.3 N ,	X =	670,525.6 E
L - Y =	384,766.4 N ,	X =	670,533.7 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	398,316.9	Y =	385,053.9
X =	629,033.7	X =	629,276.7
LAT. =	32.094404 °N	LAT. =	32.057941 °N
LONG. =	103.916663 °W	LONG. =	103.916044 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	397,657.8	Y =	384,923.9
X =	629,222.9	X =	629,277.2
LAT. =	32.092590 °N	LAT. =	32.057584 °N
LONG. =	103.916060 °W	LONG. =	103.916044 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	397,979.6 N ,	X =	627,958.8 E
B - Y =	395,323.9 N ,	X =	627,963.3 E
C - Y =	392,666.5 N ,	X =	627,967.9 E
D - Y =	390,011.4 N ,	X =	627,990.3 E
E - Y =	387,353.9 N ,	X =	628,012.7 E
F - Y =	384,698.4 N ,	X =	628,018.8 E
G - Y =	397,989.5 N ,	X =	629,289.6 E
H - Y =	395,332.7 N ,	X =	629,294.4 E
I - Y =	392,676.7 N ,	X =	629,298.4 E
J - Y =	390,021.1 N ,	X =	629,320.0 E
K - Y =	387,364.4 N ,	X =	629,340.3 E
L - Y =	384,708.6 N ,	X =	629,348.4 E

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

2-8-2021
Date of Survey

Signatue and Seal of
Professional Surveyor:

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT

MARK DILLON HARP 23786
Certificate Number LM 2017060891

P:\PROJECTS\2017\2017060891\XTO-BRUSHY_DRAW_30_FEDERAL_125H_EDDY\DWG\2017060891-XTO-BRUSHY_DRAW_30_FEDERAL_125H_C-102.dwg

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project Eddy County, NM (NAD-27)

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

Site Brushy Draw 30 Federal

Site Position:		**Northing:**	398,300.80 usft	**Latitude:**	32.0943868
From:	Map	**Easting:**	626,446.10 usft	**Longitude:**	-103.9250184
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.22 °

Well #125H

Well Position	**+N/-S**	16.10 usft	**Northing:**	398,316.90 usft	**Latitude:**	32.0944039
	+E/-W	2,587.60 usft	**Easting:**	629,033.70 usft	**Longitude:**	-103.9166626
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,108.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	02/23/21	6.73	59.74	47,415

Design PERMIT

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.76

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,125.00	0.00	0.01	8,125.00	0.00	0.00	0.00	0.00	0.00	0.01	
8,374.81	5.00	120.78	8,374.49	-5.57	9.35	2.00	2.00	0.00	120.78	
10,199.54	5.00	120.78	10,192.29	-86.90	145.88	0.00	0.00	0.00	0.00	
11,073.81	90.00	179.76	10,738.00	-659.10	189.20	10.00	9.72	6.75	59.07	BD 30 Fed. #125H
23,677.83	90.00	179.76	10,738.00	-13,263.00	242.95	0.00	0.00	0.00	0.00	BD 30 Fed. #125H
23,807.83	90.00	179.76	10,738.00	-13,393.00	243.50	0.00	0.00	0.00	0.00	BD 30 Fed. #125H

XTO ENERGY

Planning Report

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Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

XTO ENERGY

Planning Report

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Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
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Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,125.00	0.00	0.01	8,125.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	1.50	120.78	8,199.99	-0.50	0.84	0.51	2.00	2.00	0.00
8,300.00	3.50	120.78	8,299.89	-2.73	4.59	2.75	2.00	2.00	0.00
8,374.81	5.00	120.78	8,374.49	-5.57	9.35	5.61	2.00	2.00	0.00
8,400.00	5.00	120.78	8,399.59	-6.69	11.24	6.74	0.00	0.00	0.00
8,500.00	5.00	120.78	8,499.21	-11.15	18.72	11.23	0.00	0.00	0.00
8,600.00	5.00	120.78	8,598.83	-15.61	26.20	15.72	0.00	0.00	0.00
8,700.00	5.00	120.78	8,698.45	-20.06	33.68	20.21	0.00	0.00	0.00
8,800.00	5.00	120.78	8,798.07	-24.52	41.16	24.69	0.00	0.00	0.00
8,900.00	5.00	120.78	8,897.69	-28.98	48.65	29.18	0.00	0.00	0.00
9,000.00	5.00	120.78	8,997.31	-33.44	56.13	33.67	0.00	0.00	0.00
9,100.00	5.00	120.78	9,096.93	-37.89	63.61	38.16	0.00	0.00	0.00
9,200.00	5.00	120.78	9,196.55	-42.35	71.09	42.65	0.00	0.00	0.00
9,300.00	5.00	120.78	9,296.17	-46.81	78.57	47.14	0.00	0.00	0.00
9,400.00	5.00	120.78	9,395.79	-51.26	86.06	51.62	0.00	0.00	0.00
9,500.00	5.00	120.78	9,495.41	-55.72	93.54	56.11	0.00	0.00	0.00
9,600.00	5.00	120.78	9,595.03	-60.18	101.02	60.60	0.00	0.00	0.00
9,700.00	5.00	120.78	9,694.65	-64.63	108.50	65.09	0.00	0.00	0.00
9,800.00	5.00	120.78	9,794.27	-69.09	115.98	69.58	0.00	0.00	0.00
9,900.00	5.00	120.78	9,893.89	-73.55	123.47	74.07	0.00	0.00	0.00
10,000.00	5.00	120.78	9,993.51	-78.01	130.95	78.55	0.00	0.00	0.00
10,100.00	5.00	120.78	10,093.13	-82.46	138.43	83.04	0.00	0.00	0.00
10,199.54	5.00	120.78	10,192.29	-86.90	145.88	87.51	0.00	0.00	0.00
10,250.00	8.73	150.57	10,242.39	-91.36	149.65	91.99	10.00	7.41	59.04
10,300.00	13.32	161.30	10,291.46	-100.13	153.36	100.77	10.00	9.16	21.46
10,350.00	18.12	166.52	10,339.58	-113.15	157.02	113.81	10.00	9.60	10.43

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.00	23.00	169.59	10,386.39	-130.33	160.60	131.00	10.00	9.77	6.14
10,450.00	27.92	171.63	10,431.52	-151.53	164.08	152.22	10.00	9.85	4.08
10,500.00	32.87	173.10	10,474.63	-176.60	167.41	177.30	10.00	9.89	2.94
10,550.00	37.83	174.22	10,515.40	-205.34	170.59	206.05	10.00	9.92	2.24
10,600.00	42.79	175.11	10,553.52	-237.54	173.58	238.26	10.00	9.93	1.79
10,650.00	47.76	175.86	10,588.69	-272.94	176.37	273.68	10.00	9.94	1.48
10,700.00	52.74	176.49	10,620.65	-311.29	178.93	312.04	10.00	9.95	1.27
10,750.00	57.72	177.04	10,649.16	-352.28	181.24	353.04	10.00	9.96	1.11
10,800.00	62.70	177.54	10,673.99	-395.61	183.28	396.38	10.00	9.96	0.99
10,850.00	67.68	177.99	10,694.96	-440.95	185.05	441.72	10.00	9.97	0.91
10,900.00	72.67	178.42	10,711.91	-487.95	186.52	488.73	10.00	9.97	0.84
10,950.00	77.65	178.82	10,724.71	-536.25	187.68	537.04	10.00	9.97	0.80
11,000.00	82.64	179.20	10,733.27	-585.49	188.53	586.28	10.00	9.97	0.77
11,050.00	87.63	179.58	10,737.51	-635.30	189.06	636.08	10.00	9.97	0.75
11,073.81	90.00	179.76	10,738.00	-659.10	189.20	659.89	10.00	9.97	0.75
11,100.00	90.00	179.76	10,738.00	-685.29	189.31	686.07	0.00	0.00	0.00
11,200.00	90.00	179.76	10,738.00	-785.29	189.74	786.07	0.00	0.00	0.00
11,300.00	90.00	179.76	10,738.00	-885.29	190.16	886.07	0.00	0.00	0.00
11,400.00	90.00	179.76	10,738.00	-985.28	190.59	986.07	0.00	0.00	0.00
11,500.00	90.00	179.76	10,738.00	-1,085.28	191.02	1,086.07	0.00	0.00	0.00
11,600.00	90.00	179.76	10,738.00	-1,185.28	191.44	1,186.07	0.00	0.00	0.00
11,700.00	90.00	179.76	10,738.00	-1,285.28	191.87	1,286.07	0.00	0.00	0.00
11,800.00	90.00	179.76	10,738.00	-1,385.28	192.30	1,386.07	0.00	0.00	0.00
11,900.00	90.00	179.76	10,738.00	-1,485.28	192.72	1,486.07	0.00	0.00	0.00
12,000.00	90.00	179.76	10,738.00	-1,585.28	193.15	1,586.07	0.00	0.00	0.00
12,100.00	90.00	179.76	10,738.00	-1,685.28	193.58	1,686.07	0.00	0.00	0.00
12,200.00	90.00	179.76	10,738.00	-1,785.28	194.00	1,786.07	0.00	0.00	0.00
12,300.00	90.00	179.76	10,738.00	-1,885.28	194.43	1,886.07	0.00	0.00	0.00
12,400.00	90.00	179.76	10,738.00	-1,985.28	194.86	1,986.07	0.00	0.00	0.00
12,500.00	90.00	179.76	10,738.00	-2,085.27	195.28	2,086.07	0.00	0.00	0.00
12,600.00	90.00	179.76	10,738.00	-2,185.27	195.71	2,186.07	0.00	0.00	0.00
12,700.00	90.00	179.76	10,738.00	-2,285.27	196.13	2,286.07	0.00	0.00	0.00
12,800.00	90.00	179.76	10,738.00	-2,385.27	196.56	2,386.07	0.00	0.00	0.00
12,900.00	90.00	179.76	10,738.00	-2,485.27	196.99	2,486.07	0.00	0.00	0.00
13,000.00	90.00	179.76	10,738.00	-2,585.27	197.41	2,586.07	0.00	0.00	0.00
13,100.00	90.00	179.76	10,738.00	-2,685.27	197.84	2,686.07	0.00	0.00	0.00
13,200.00	90.00	179.76	10,738.00	-2,785.27	198.27	2,786.07	0.00	0.00	0.00
13,300.00	90.00	179.76	10,738.00	-2,885.27	198.69	2,886.07	0.00	0.00	0.00
13,400.00	90.00	179.76	10,738.00	-2,985.27	199.12	2,986.07	0.00	0.00	0.00
13,500.00	90.00	179.76	10,738.00	-3,085.27	199.55	3,086.07	0.00	0.00	0.00
13,600.00	90.00	179.76	10,738.00	-3,185.26	199.97	3,186.07	0.00	0.00	0.00
13,700.00	90.00	179.76	10,738.00	-3,285.26	200.40	3,286.07	0.00	0.00	0.00
13,800.00	90.00	179.76	10,738.00	-3,385.26	200.82	3,386.07	0.00	0.00	0.00
13,900.00	90.00	179.76	10,738.00	-3,485.26	201.25	3,486.07	0.00	0.00	0.00
14,000.00	90.00	179.76	10,738.00	-3,585.26	201.68	3,586.07	0.00	0.00	0.00
14,100.00	90.00	179.76	10,738.00	-3,685.26	202.10	3,686.07	0.00	0.00	0.00
14,200.00	90.00	179.76	10,738.00	-3,785.26	202.53	3,786.07	0.00	0.00	0.00
14,300.00	90.00	179.76	10,738.00	-3,885.26	202.96	3,886.07	0.00	0.00	0.00
14,400.00	90.00	179.76	10,738.00	-3,985.26	203.38	3,986.07	0.00	0.00	0.00
14,500.00	90.00	179.76	10,738.00	-4,085.26	203.81	4,086.07	0.00	0.00	0.00
14,600.00	90.00	179.76	10,738.00	-4,185.26	204.24	4,186.07	0.00	0.00	0.00
14,700.00	90.00	179.76	10,738.00	-4,285.25	204.66	4,286.07	0.00	0.00	0.00
14,800.00	90.00	179.76	10,738.00	-4,385.25	205.09	4,386.07	0.00	0.00	0.00
14,900.00	90.00	179.76	10,738.00	-4,485.25	205.52	4,486.07	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,000.00	90.00	179.76	10,738.00	-4,585.25	205.94	4,586.07	0.00	0.00	0.00
15,100.00	90.00	179.76	10,738.00	-4,685.25	206.37	4,686.07	0.00	0.00	0.00
15,200.00	90.00	179.76	10,738.00	-4,785.25	206.79	4,786.07	0.00	0.00	0.00
15,300.00	90.00	179.76	10,738.00	-4,885.25	207.22	4,886.07	0.00	0.00	0.00
15,400.00	90.00	179.76	10,738.00	-4,985.25	207.65	4,986.07	0.00	0.00	0.00
15,500.00	90.00	179.76	10,738.00	-5,085.25	208.07	5,086.07	0.00	0.00	0.00
15,600.00	90.00	179.76	10,738.00	-5,185.25	208.50	5,186.07	0.00	0.00	0.00
15,700.00	90.00	179.76	10,738.00	-5,285.25	208.93	5,286.07	0.00	0.00	0.00
15,800.00	90.00	179.76	10,738.00	-5,385.24	209.35	5,386.07	0.00	0.00	0.00
15,900.00	90.00	179.76	10,738.00	-5,485.24	209.78	5,486.07	0.00	0.00	0.00
16,000.00	90.00	179.76	10,738.00	-5,585.24	210.21	5,586.07	0.00	0.00	0.00
16,100.00	90.00	179.76	10,738.00	-5,685.24	210.63	5,686.07	0.00	0.00	0.00
16,200.00	90.00	179.76	10,738.00	-5,785.24	211.06	5,786.07	0.00	0.00	0.00
16,300.00	90.00	179.76	10,738.00	-5,885.24	211.49	5,886.07	0.00	0.00	0.00
16,400.00	90.00	179.76	10,738.00	-5,985.24	211.91	5,986.07	0.00	0.00	0.00
16,500.00	90.00	179.76	10,738.00	-6,085.24	212.34	6,086.07	0.00	0.00	0.00
16,600.00	90.00	179.76	10,738.00	-6,185.24	212.76	6,186.07	0.00	0.00	0.00
16,700.00	90.00	179.76	10,738.00	-6,285.24	213.19	6,286.07	0.00	0.00	0.00
16,800.00	90.00	179.76	10,738.00	-6,385.24	213.62	6,386.07	0.00	0.00	0.00
16,900.00	90.00	179.76	10,738.00	-6,485.23	214.04	6,486.07	0.00	0.00	0.00
17,000.00	90.00	179.76	10,738.00	-6,585.23	214.47	6,586.07	0.00	0.00	0.00
17,100.00	90.00	179.76	10,738.00	-6,685.23	214.90	6,686.07	0.00	0.00	0.00
17,200.00	90.00	179.76	10,738.00	-6,785.23	215.32	6,786.07	0.00	0.00	0.00
17,300.00	90.00	179.76	10,738.00	-6,885.23	215.75	6,886.07	0.00	0.00	0.00
17,400.00	90.00	179.76	10,738.00	-6,985.23	216.18	6,986.07	0.00	0.00	0.00
17,500.00	90.00	179.76	10,738.00	-7,085.23	216.60	7,086.07	0.00	0.00	0.00
17,600.00	90.00	179.76	10,738.00	-7,185.23	217.03	7,186.07	0.00	0.00	0.00
17,700.00	90.00	179.76	10,738.00	-7,285.23	217.46	7,286.07	0.00	0.00	0.00
17,800.00	90.00	179.76	10,738.00	-7,385.23	217.88	7,386.07	0.00	0.00	0.00
17,900.00	90.00	179.76	10,738.00	-7,485.23	218.31	7,486.07	0.00	0.00	0.00
18,000.00	90.00	179.76	10,738.00	-7,585.23	218.73	7,586.07	0.00	0.00	0.00
18,100.00	90.00	179.76	10,738.00	-7,685.22	219.16	7,686.07	0.00	0.00	0.00
18,200.00	90.00	179.76	10,738.00	-7,785.22	219.59	7,786.07	0.00	0.00	0.00
18,300.00	90.00	179.76	10,738.00	-7,885.22	220.01	7,886.07	0.00	0.00	0.00
18,400.00	90.00	179.76	10,738.00	-7,985.22	220.44	7,986.07	0.00	0.00	0.00
18,500.00	90.00	179.76	10,738.00	-8,085.22	220.87	8,086.07	0.00	0.00	0.00
18,600.00	90.00	179.76	10,738.00	-8,185.22	221.29	8,186.07	0.00	0.00	0.00
18,700.00	90.00	179.76	10,738.00	-8,285.22	221.72	8,286.07	0.00	0.00	0.00
18,800.00	90.00	179.76	10,738.00	-8,385.22	222.15	8,386.07	0.00	0.00	0.00
18,900.00	90.00	179.76	10,738.00	-8,485.22	222.57	8,486.07	0.00	0.00	0.00
19,000.00	90.00	179.76	10,738.00	-8,585.22	223.00	8,586.07	0.00	0.00	0.00
19,100.00	90.00	179.76	10,738.00	-8,685.22	223.43	8,686.07	0.00	0.00	0.00
19,200.00	90.00	179.76	10,738.00	-8,785.21	223.85	8,786.07	0.00	0.00	0.00
19,300.00	90.00	179.76	10,738.00	-8,885.21	224.28	8,886.07	0.00	0.00	0.00
19,400.00	90.00	179.76	10,738.00	-8,985.21	224.70	8,986.07	0.00	0.00	0.00
19,500.00	90.00	179.76	10,738.00	-9,085.21	225.13	9,086.07	0.00	0.00	0.00
19,600.00	90.00	179.76	10,738.00	-9,185.21	225.56	9,186.07	0.00	0.00	0.00
19,700.00	90.00	179.76	10,738.00	-9,285.21	225.98	9,286.07	0.00	0.00	0.00
19,800.00	90.00	179.76	10,738.00	-9,385.21	226.41	9,386.07	0.00	0.00	0.00
19,900.00	90.00	179.76	10,738.00	-9,485.21	226.84	9,486.07	0.00	0.00	0.00
20,000.00	90.00	179.76	10,738.00	-9,585.21	227.26	9,586.07	0.00	0.00	0.00
20,100.00	90.00	179.76	10,738.00	-9,685.21	227.69	9,686.07	0.00	0.00	0.00
20,200.00	90.00	179.76	10,738.00	-9,785.21	228.12	9,786.07	0.00	0.00	0.00
20,300.00	90.00	179.76	10,738.00	-9,885.20	228.54	9,886.07	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,400.00	90.00	179.76	10,738.00	-9,985.20	228.97	9,986.07	0.00	0.00	0.00
20,500.00	90.00	179.76	10,738.00	-10,085.20	229.39	10,086.07	0.00	0.00	0.00
20,600.00	90.00	179.76	10,738.00	-10,185.20	229.82	10,186.07	0.00	0.00	0.00
20,700.00	90.00	179.76	10,738.00	-10,285.20	230.25	10,286.07	0.00	0.00	0.00
20,800.00	90.00	179.76	10,738.00	-10,385.20	230.67	10,386.07	0.00	0.00	0.00
20,900.00	90.00	179.76	10,738.00	-10,485.20	231.10	10,486.07	0.00	0.00	0.00
21,000.00	90.00	179.76	10,738.00	-10,585.20	231.53	10,586.07	0.00	0.00	0.00
21,100.00	90.00	179.76	10,738.00	-10,685.20	231.95	10,686.07	0.00	0.00	0.00
21,200.00	90.00	179.76	10,738.00	-10,785.20	232.38	10,786.07	0.00	0.00	0.00
21,300.00	90.00	179.76	10,738.00	-10,885.20	232.81	10,886.07	0.00	0.00	0.00
21,400.00	90.00	179.76	10,738.00	-10,985.19	233.23	10,986.07	0.00	0.00	0.00
21,500.00	90.00	179.76	10,738.00	-11,085.19	233.66	11,086.07	0.00	0.00	0.00
21,600.00	90.00	179.76	10,738.00	-11,185.19	234.09	11,186.07	0.00	0.00	0.00
21,700.00	90.00	179.76	10,738.00	-11,285.19	234.51	11,286.07	0.00	0.00	0.00
21,800.00	90.00	179.76	10,738.00	-11,385.19	234.94	11,386.07	0.00	0.00	0.00
21,900.00	90.00	179.76	10,738.00	-11,485.19	235.36	11,486.07	0.00	0.00	0.00
22,000.00	90.00	179.76	10,738.00	-11,585.19	235.79	11,586.07	0.00	0.00	0.00
22,100.00	90.00	179.76	10,738.00	-11,685.19	236.22	11,686.07	0.00	0.00	0.00
22,200.00	90.00	179.76	10,738.00	-11,785.19	236.64	11,786.07	0.00	0.00	0.00
22,300.00	90.00	179.76	10,738.00	-11,885.19	237.07	11,886.07	0.00	0.00	0.00
22,400.00	90.00	179.76	10,738.00	-11,985.19	237.50	11,986.07	0.00	0.00	0.00
22,500.00	90.00	179.76	10,738.00	-12,085.18	237.92	12,086.07	0.00	0.00	0.00
22,600.00	90.00	179.76	10,738.00	-12,185.18	238.35	12,186.07	0.00	0.00	0.00
22,700.00	90.00	179.76	10,738.00	-12,285.18	238.78	12,286.07	0.00	0.00	0.00
22,800.00	90.00	179.76	10,738.00	-12,385.18	239.20	12,386.07	0.00	0.00	0.00
22,900.00	90.00	179.76	10,738.00	-12,485.18	239.63	12,486.07	0.00	0.00	0.00
23,000.00	90.00	179.76	10,738.00	-12,585.18	240.06	12,586.07	0.00	0.00	0.00
23,100.00	90.00	179.76	10,738.00	-12,685.18	240.48	12,686.07	0.00	0.00	0.00
23,200.00	90.00	179.76	10,738.00	-12,785.18	240.91	12,786.07	0.00	0.00	0.00
23,300.00	90.00	179.76	10,738.00	-12,885.18	241.33	12,886.07	0.00	0.00	0.00
23,400.00	90.00	179.76	10,738.00	-12,985.18	241.76	12,986.07	0.00	0.00	0.00
23,500.00	90.00	179.76	10,738.00	-13,085.18	242.19	13,086.07	0.00	0.00	0.00
23,600.00	90.00	179.76	10,738.00	-13,185.17	242.61	13,186.07	0.00	0.00	0.00
23,677.83	90.00	179.76	10,738.00	-13,263.00	242.95	13,263.90	0.00	0.00	0.00
23,700.00	90.00	179.76	10,738.00	-13,285.17	243.04	13,286.07	0.00	0.00	0.00
23,807.83	90.00	179.76	10,738.00	-13,393.00	243.50	13,393.90	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 30' @ 3138.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 30' @ 3138.00usft
Site:	Brushy Draw 30 Federal	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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
BD 30 Fed. #125H SH - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	398,316.90	629,033.70	32.0944039	-103.9166626
BD 30 Fed. #125H LT - plan misses target center by 0.05usft at 23677.83usft MD (10738.00 TVD, -13263.00 N, 242.95 E) - Point	0.00	0.00	10,738.00	-13,263.00	243.00	385,053.90	629,276.70	32.0579415	-103.9160436
BD 30 Fed. #125H PE - plan hits target center - Point	0.00	0.00	10,738.00	-13,393.00	243.50	384,923.90	629,277.20	32.0575841	-103.9160436
BD 30 Fed. #125H FT - plan hits target center - Point	0.00	0.00	10,738.00	-659.10	189.20	397,657.80	629,222.90	32.0925900	-103.9160599

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
708.00	708.00	Rustler			
938.00	938.00	Top Salt			
3,298.00	3,298.00	Base Salt			
3,493.00	3,493.00	Delaware			
4,408.00	4,408.00	Cherry Canyon			
6,038.00	6,038.00	Brushy Canyon			
7,078.00	7,078.00	Basal Brushy Canyon			
7,298.00	7,298.00	Bone Spring Lime			
7,438.00	7,438.00	Avalon Sand			
7,868.00	7,868.00	Lower Avalon Shale			
8,178.00	8,178.00	1st Bone Spring Lime			
8,223.02	8,223.00	1st Bone Spring Ss			
8,564.04	8,563.00	2nd Bone Spring Lime			
9,081.00	9,078.00	2nd Bone Spring Ss			
9,341.99	9,338.00	3rd Bone Spring Lm			
10,165.12	10,158.00	3rd Bone Spring Ss			
10,440.40	10,423.00	Red Hills SS			
10,559.68	10,523.00	Wolfcamp			
10,620.06	10,568.00	Wolfcamp X			
10,729.68	10,638.00	Wolfcamp Y			
10,808.88	10,678.00	Wolfcamp A			
11,073.70	10,738.00	LP			

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**BOPCO, L.P.**
LEASE NO.:	**NMNM-014785**
WELL NAME & NO.:	**Brushy Draw 30 Federal 125H**
SURFACE HOLE FOOTAGE:	**0330' FSL & 1585' FEL**
BOTTOM HOLE FOOTAGE	**2440' FNL & 1400' FEL Sec. 07, T. 26 S., R 30 E.**
LOCATION:	**Section 30, T. 25 S., R 30 E., NMPM**
COUNTY:	**Eddy County, New Mexico**

COA

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

Possibility of water flows in the Castile and Salado.
Possibility of lost circulation in the Red beds, Rustler, and Delaware.
Abnormal pressures may be encountered when penetrating the 3rd Bone Spring Formation and all subsequent formations.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **838** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

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

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

    - Cement as proposed. Report Echo meter results on subsequent sundry.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 17% - Additional cement may be required.**

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

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

BOP Break Testing Variance

- Shelll testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

D. SPECIAL REQUIREMENT (S)

Operator will need to submit a sundry to add "COM" to the name.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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

3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

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

6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

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

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

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

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

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

    b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

JAM 04062021

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 508367

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 508367
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	10/22/2025