

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011
Permit 271272

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707		2. OGRID Number 5380
4. Property Code 326044		3. API Number 30-015-46231
5. Property Name STAN 32 STATE		6. Well No. 071H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	32	26S	30E	1	182	S	1245	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	32	26S	30E	4	330	S	50	W	Eddy

9. Pool Information

Ross Draw Bone Spring	98325
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2924
16. Multiple N	17. Proposed Depth 14859	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/22/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	24	18.625	87.5	475	820	0
Int1	17.5	13.375	54.5	3150	2063	0
Int2	12.25	9.625	40	7300	1848	0
Prod	8.75	5.5	20	14859	1810	6800

Casing/Cement Program: Additional Comments

Prod 8.75": 0 - 7322'. 8.5": 7322-14859'. DV tool to be set in intermediate fr/500-3000'.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Deeann Kemp	Approved By: Raymond Podany
Title: Regulatory	Title: Geologist
Email Address: DeeAnn_Kemp@xtoenergy.com	Approved Date: 10/8/2019 Expiration Date: 10/8/2021
Date: 9/30/2019 Phone: 432-620-6724	Conditions of Approval Attached

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name STAN 32 STATE			⁶ Well Number 71H
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 2,924'

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
1	32	26 S	30 E		182	SOUTH	1,245	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
4	32	26 S	30 E		330	SOUTH	50	WEST	EDDY

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

¹⁶ LOT ACREAGE TABLE LOT 1 - 24.69 ACRES LOT 2 - 24.59 ACRES LOT 3 - 24.49 ACRES LOT 4 - 24.39 ACRES GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 364,238.4 X= 676,035.9 LAT.= 32.00627°N LONG.= 103.898804°W LAST TAKE POINT NAD 83 NME Y= 364,368.3 X= 672,050.5 LAT.= 32.001028°N LONG.= 103.911659°W FIRST TAKE POINT NAD 83 NME Y= 364,391.5 X= 677,180.2 LAT.= 32.001035°N LONG.= 103.895111°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 364,061.9 N, X= 677,281.6 E B - Y= 364,883.5 N, X= 677,278.1 E C - Y= 364,049.9 N, X= 674,617.1 E D - Y= 364,865.0 N, X= 674,613.2 E E - Y= 364,037.9 N, X= 671,952.0 E F - Y= 364,846.5 N, X= 671,948.2 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. <i>Kelly Kardos</i> Signature _____ Date _____ Printed Name _____ E-mail Address _____			
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 364,181.2 X= 634,849.6 LAT.= 32.000502°N LONG.= 103.898327°W LAST TAKE POINT NAD 27 NME Y= 364,311.0 X= 630,864.3 LAT.= 32.000902°N LONG.= 103.911181°W FIRST TAKE POINT NAD 27 NME Y= 364,334.3 X= 635,993.9 LAT.= 32.000910°N LONG.= 103.894633°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 364,004.7 N, X= 636,095.3 E B - Y= 364,826.3 N, X= 636,091.8 E C - Y= 363,992.7 N, X= 633,430.9 E D - Y= 364,807.7 N, X= 633,427.0 E E - Y= 363,980.6 N, X= 630,765.8 E F - Y= 364,789.2 N, X= 630,762.0 E				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. 9-26-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR/JC 2019072181			

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

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GAS CAPTURE PLAN

Date: 10/8/2019

☒ Original

Operator & OGRID No.: [5380] XTO ENERGY, INC

☐ Amended - Reason for
Amendment: _____

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
STAN 32 STATE #071H	30-015-46231	H-32-26S-30E	0182S 1245E	2500	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC FIELD SERVICES LLC and will be connected to ETC FIELD SERVICES LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. XTO ENERGY, INC provides (periodically) to ETC FIELD SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO ENERGY, INC and ETC FIELD SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC FIELD SERVICES LLC Processing Plant located in Sec. 33, Twn. 24S, Rng. 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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Form APD Comments

Permit 271272

PERMIT COMMENTS

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46231
		Well: STAN 32 STATE #071H

Created By	Comment	Comment Date
rpodany	The Operator is not in compliance with Rule 5.9 Inactive wells Directional survey not attached.	9/25/2019

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Form APD Conditions

Permit 271272

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707		API Number: 30-015-46231
		Well: STAN 32 STATE #071H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	

NM STATE DRILLING PERMITTING

Stan 32 State 71H

0	Deepest TVD		9066	KOP		2000	End of Curve		7322	Measured depth		14859
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Sks Cement	TOC
Surface	FW/Native	8.4 - 8.8	24	18.625	J-55 STC	87.5	0	475	301	519	820	0
1st Intermediate	Brine/Gel Sweeps	9.8 - 10.2	17.5	13.375	J-55 STC	54.5	0	3150	1751	312	2063	0
2nd Intermediate	FW/Cut Brine	8.7 - 10.0	12.25	9.625	HCL-80 LTC	40	0	7300	1703	145	1848	0
Production	FW/Cut Brine/Polymer	12.2 - 12.5 12.5	8.75 to EOC 8.5 to TD	5.5	P110 BTC	20	2000	14859		1810	1810	6800

Max Expected Surface Pressure

3898

BOP

Cameron 5M Double Ram BOP

Test Pressure

5000

Total Vertical Section

6292

Prod 8.75": 0-7322'. 8.5": 7322-13614'. DV tool may be set in intermediate fr/500-3000'.



XTO Energy

Eddy County, NM (NAD-27)

Stan 32 State

#71H

Wellbore #1

Plan: PERMITv2

Standard Planning Report

27 September, 2019



Project: Eddy County, NM (NAD-27)
Site: Stan 32 State
Well: #71H
Wellbore: Wellbore #1
Design: PERMITv2

WELL DETAILS: #71H

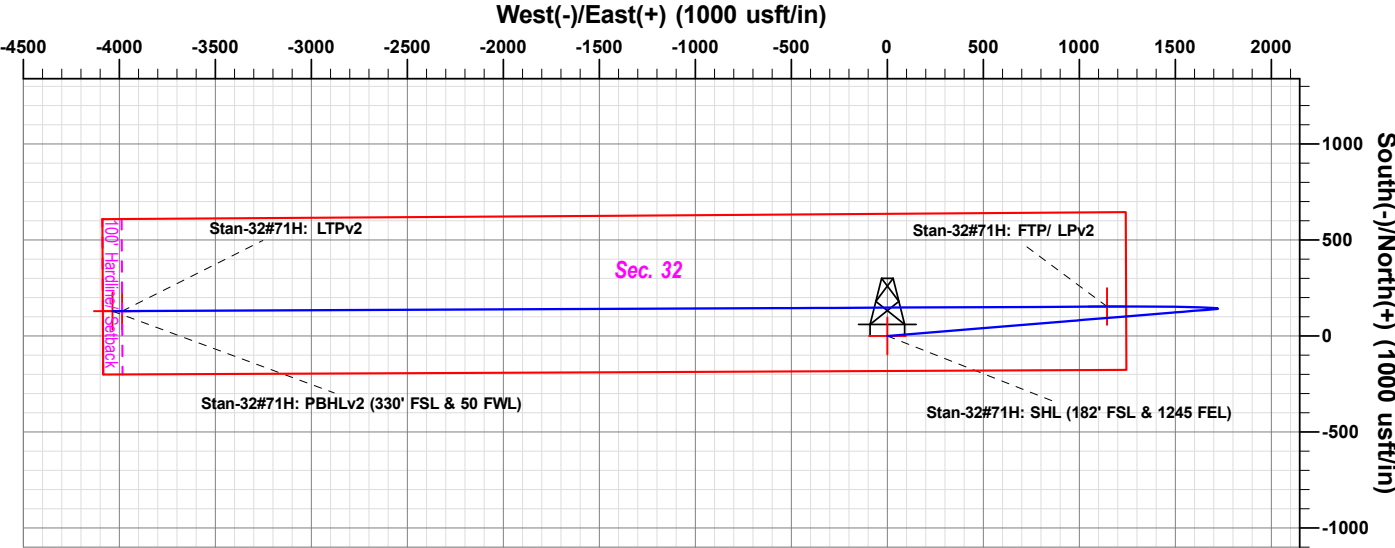
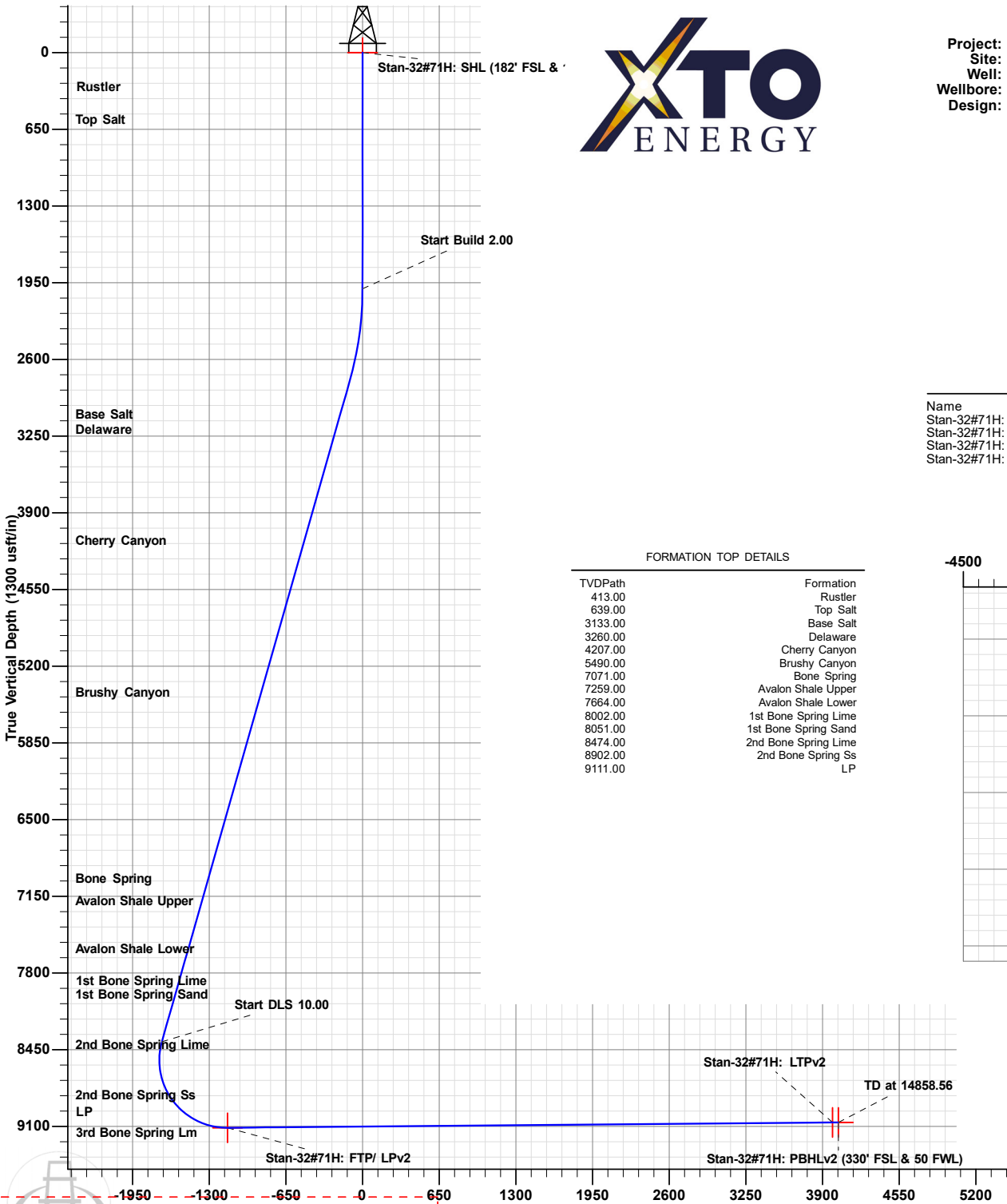
		Rig Name:		Ground Level:		Latitude		Longitude	
		RKB = 25' @ 2949.00usft		2924.00		32.0005018		-103.8983266	
+N/-S	+E/-W	Northing	Easting						
0.00	0.00	364181.20	634849.60						

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	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2796.10	15.92	85.31	2785.89	8.98	109.54	2.00	85.31	-109.58
4	8614.98	15.92	85.31	8381.53	139.41	1700.48	0.00	0.00	-1701.09
5	9678.71	90.50	269.74	9111.00	153.10	1144.30	10.00	-175.39	-1144.98
6	14808.55	90.50	269.74	9066.23	129.83	-3985.30	0.00	0.00	3984.67
7	14858.56	90.50	269.74	9065.80	129.60	-4035.30	0.00	0.00	4034.67

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Stan-32#71H: SHL (182' FSL & 1245 FEL)	0.00	0.00	0.00	364181.20	634849.60	32.0005018	-103.8983266	Point
Stan-32#71H: PBHLv2 (330' FSL & 50 FWL)	9065.80	129.60	-4035.30	364310.80	630814.30	32.0009021	-103.9113420	Point
Stan-32#71H: LTPv2	9066.23	129.80	-3985.30	364311.00	630864.30	32.0009021	-103.9111807	Point
Stan-32#71H: FTP/ LPv2	9111.00	153.10	1144.30	364334.30	635993.90	32.0009100	-103.8946334	Point



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

Plan: PERMITv2 (#71H/Wellbore #1)

Created By: Matthew May Date: 13:36, September 27 2019

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the user.

Vertical Section at 269.74° (1300 usft/in)

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name STAN 32 STATE			⁶ Well Number 71H
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 2,924'

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
1	32	26 S	30 E		182	SOUTH	1,245	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
4	32	26 S	30 E		330	SOUTH	50	WEST	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.

¹⁶ GRID AZ. = 269°44'28" HORIZ. DIST. = 5,179.83' SEC. 32 T26S R30E GRID AZ. = 82°22'47" HORIZ. DIST. = 1,154.49' LOT 1 - 24.69 ACRES LOT 2 - 24.59 ACRES LOT 3 - 24.49 ACRES LOT 4 - 24.39 ACRES GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y = 364,238.4 X = 676,035.9 LAT. = 32.000627°N LONG. = 103.898804°W LAST TAKE POINT NAD 83 NME Y = 364,368.3 X = 672,050.5 LAT. = 32.001028°N LONG. = 103.911659°W FIRST TAKE POINT NAD 83 NME Y = 364,391.5 X = 677,180.2 LAT. = 32.001035°N LONG. = 103.895111°W BOTTOM HOLE LOCATION NAD 83 NME Y = 364,368.1 X = 672,000.5 LAT. = 32.001028°N LONG. = 103.911821°W CORNER COORDINATES TABLE NAD 83 NME A - Y = 364,061.9 N, X = 677,281.6 E B - Y = 364,883.5 N, X = 677,278.1 E C - Y = 364,049.9 N, X = 674,617.1 E D - Y = 364,865.0 N, X = 674,613.2 E E - Y = 364,037.9 N, X = 671,952.0 E F - Y = 364,846.5 N, X = 671,948.2 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. <i>Kelly Kardos</i> 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. 9-26-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR/JC 2019072181							



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

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		Stan 32 State				
Site Position:		Northing:	364,181.20 usft	Latitude:	32.0005019	
From:	Map	Easting:	634,849.60 usft	Longitude:	-103.8983266	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23 °

Well	#71H					
Well Position	+N/-S	0.00 usft	Northing:	364,181.20 usft	Latitude:	32.0005019
	+E/-W	0.00 usft	Easting:	634,849.60 usft	Longitude:	-103.8983266
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,924.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/13/19	6.86	59.78	47,554

Design	PERMITv2			
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	269.74

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,796.10	15.92	85.31	2,785.89	8.98	109.54	2.00	2.00	0.00	85.31	
8,614.98	15.92	85.31	8,381.54	139.41	1,700.48	0.00	0.00	0.00	0.00	
9,678.71	90.50	269.74	9,111.00	153.10	1,144.30	10.00	7.01	-16.51	-175.39	Stan-32#71H: FTP/
14,808.55	90.50	269.74	9,066.23	129.83	-3,985.30	0.00	0.00	0.00	0.00	Stan-32#71H: LTPv
14,858.56	90.50	269.74	9,065.80	129.60	-4,035.30	0.00	0.00	0.00	0.00	Stan-32#71H: PBH



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

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
413.00	0.00	0.00	413.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
639.00	0.00	0.00	639.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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	2.00	85.31	2,099.98	0.14	1.74	-1.74	2.00	2.00	0.00
2,200.00	4.00	85.31	2,199.84	0.57	6.96	-6.96	2.00	2.00	0.00
2,300.00	6.00	85.31	2,299.45	1.28	15.64	-15.65	2.00	2.00	0.00
2,400.00	8.00	85.31	2,398.70	2.28	27.79	-27.80	2.00	2.00	0.00
2,500.00	10.00	85.31	2,497.47	3.56	43.38	-43.39	2.00	2.00	0.00
2,600.00	12.00	85.31	2,595.62	5.12	62.39	-62.42	2.00	2.00	0.00
2,700.00	14.00	85.31	2,693.06	6.95	84.81	-84.84	2.00	2.00	0.00
2,796.10	15.92	85.31	2,785.89	8.98	109.54	-109.58	2.00	2.00	0.00
2,800.00	15.92	85.31	2,789.64	9.07	110.60	-110.64	0.00	0.00	0.00
2,900.00	15.92	85.31	2,885.81	11.31	137.94	-137.99	0.00	0.00	0.00
3,000.00	15.92	85.31	2,981.97	13.55	165.29	-165.35	0.00	0.00	0.00
3,100.00	15.92	85.31	3,078.13	15.79	192.63	-192.70	0.00	0.00	0.00
3,157.05	15.92	85.31	3,133.00	17.07	208.23	-208.30	0.00	0.00	0.00
Base Salt									
3,200.00	15.92	85.31	3,174.30	18.03	219.97	-220.05	0.00	0.00	0.00
3,289.12	15.92	85.31	3,260.00	20.03	244.33	-244.42	0.00	0.00	0.00
Delaware									
3,300.00	15.92	85.31	3,270.46	20.28	247.31	-247.40	0.00	0.00	0.00
3,400.00	15.92	85.31	3,366.63	22.52	274.65	-274.75	0.00	0.00	0.00
3,500.00	15.92	85.31	3,462.79	24.76	301.99	-302.10	0.00	0.00	0.00
3,600.00	15.92	85.31	3,558.95	27.00	329.33	-329.45	0.00	0.00	0.00
3,700.00	15.92	85.31	3,655.12	29.24	356.67	-356.80	0.00	0.00	0.00
3,800.00	15.92	85.31	3,751.28	31.48	384.01	-384.15	0.00	0.00	0.00
3,900.00	15.92	85.31	3,847.44	33.72	411.35	-411.50	0.00	0.00	0.00
4,000.00	15.92	85.31	3,943.61	35.97	438.70	-438.85	0.00	0.00	0.00
4,100.00	15.92	85.31	4,039.77	38.21	466.04	-466.21	0.00	0.00	0.00
4,200.00	15.92	85.31	4,135.93	40.45	493.38	-493.56	0.00	0.00	0.00
4,273.90	15.92	85.31	4,207.00	42.11	513.58	-513.77	0.00	0.00	0.00
Cherry Canyon									



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

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)
4,300.00	15.92	85.31	4,232.10	42.69	520.72	-520.91	0.00	0.00	0.00
4,400.00	15.92	85.31	4,328.26	44.93	548.06	-548.26	0.00	0.00	0.00
4,500.00	15.92	85.31	4,424.43	47.17	575.40	-575.61	0.00	0.00	0.00
4,600.00	15.92	85.31	4,520.59	49.42	602.74	-602.96	0.00	0.00	0.00
4,700.00	15.92	85.31	4,616.75	51.66	630.08	-630.31	0.00	0.00	0.00
4,800.00	15.92	85.31	4,712.92	53.90	657.42	-657.66	0.00	0.00	0.00
4,900.00	15.92	85.31	4,809.08	56.14	684.76	-685.01	0.00	0.00	0.00
5,000.00	15.92	85.31	4,905.24	58.38	712.11	-712.36	0.00	0.00	0.00
5,100.00	15.92	85.31	5,001.41	60.62	739.45	-739.71	0.00	0.00	0.00
5,200.00	15.92	85.31	5,097.57	62.87	766.79	-767.07	0.00	0.00	0.00
5,300.00	15.92	85.31	5,193.73	65.11	794.13	-794.42	0.00	0.00	0.00
5,400.00	15.92	85.31	5,289.90	67.35	821.47	-821.77	0.00	0.00	0.00
5,500.00	15.92	85.31	5,386.06	69.59	848.81	-849.12	0.00	0.00	0.00
5,600.00	15.92	85.31	5,482.23	71.83	876.15	-876.47	0.00	0.00	0.00
5,608.09	15.92	85.31	5,490.00	72.01	878.36	-878.68	0.00	0.00	0.00
Brushy Canyon									
5,700.00	15.92	85.31	5,578.39	74.07	903.49	-903.82	0.00	0.00	0.00
5,800.00	15.92	85.31	5,674.55	76.31	930.83	-931.17	0.00	0.00	0.00
5,900.00	15.92	85.31	5,770.72	78.56	958.18	-958.52	0.00	0.00	0.00
6,000.00	15.92	85.31	5,866.88	80.80	985.52	-985.87	0.00	0.00	0.00
6,100.00	15.92	85.31	5,963.04	83.04	1,012.86	-1,013.22	0.00	0.00	0.00
6,200.00	15.92	85.31	6,059.21	85.28	1,040.20	-1,040.57	0.00	0.00	0.00
6,300.00	15.92	85.31	6,155.37	87.52	1,067.54	-1,067.93	0.00	0.00	0.00
6,400.00	15.92	85.31	6,251.53	89.76	1,094.88	-1,095.28	0.00	0.00	0.00
6,500.00	15.92	85.31	6,347.70	92.01	1,122.22	-1,122.63	0.00	0.00	0.00
6,600.00	15.92	85.31	6,443.86	94.25	1,149.56	-1,149.98	0.00	0.00	0.00
6,700.00	15.92	85.31	6,540.03	96.49	1,176.90	-1,177.33	0.00	0.00	0.00
6,800.00	15.92	85.31	6,636.19	98.73	1,204.24	-1,204.68	0.00	0.00	0.00
6,900.00	15.92	85.31	6,732.35	100.97	1,231.59	-1,232.03	0.00	0.00	0.00
7,000.00	15.92	85.31	6,828.52	103.21	1,258.93	-1,259.38	0.00	0.00	0.00
7,100.00	15.92	85.31	6,924.68	105.45	1,286.27	-1,286.73	0.00	0.00	0.00
7,200.00	15.92	85.31	7,020.84	107.70	1,313.61	-1,314.08	0.00	0.00	0.00
7,252.16	15.92	85.31	7,071.00	108.87	1,327.87	-1,328.35	0.00	0.00	0.00
Bone Spring									
7,300.00	15.92	85.31	7,117.01	109.94	1,340.95	-1,341.43	0.00	0.00	0.00
7,400.00	15.92	85.31	7,213.17	112.18	1,368.29	-1,368.79	0.00	0.00	0.00
7,447.66	15.92	85.31	7,259.00	113.25	1,381.32	-1,381.82	0.00	0.00	0.00
Avalon Shale Upper									
7,500.00	15.92	85.31	7,309.33	114.42	1,395.63	-1,396.14	0.00	0.00	0.00
7,600.00	15.92	85.31	7,405.50	116.66	1,422.97	-1,423.49	0.00	0.00	0.00
7,700.00	15.92	85.31	7,501.66	118.90	1,450.31	-1,450.84	0.00	0.00	0.00
7,800.00	15.92	85.31	7,597.83	121.15	1,477.65	-1,478.19	0.00	0.00	0.00
7,868.82	15.92	85.31	7,664.00	122.69	1,496.47	-1,497.01	0.00	0.00	0.00
Avalon Shale Lower									
7,900.00	15.92	85.31	7,693.99	123.39	1,505.00	-1,505.54	0.00	0.00	0.00
8,000.00	15.92	85.31	7,790.15	125.63	1,532.34	-1,532.89	0.00	0.00	0.00
8,100.00	15.92	85.31	7,886.32	127.87	1,559.68	-1,560.24	0.00	0.00	0.00
8,200.00	15.92	85.31	7,982.48	130.11	1,587.02	-1,587.59	0.00	0.00	0.00
8,220.30	15.92	85.31	8,002.00	130.57	1,592.57	-1,593.14	0.00	0.00	0.00
1st Bone Spring Lime									
8,271.25	15.92	85.31	8,051.00	131.71	1,606.50	-1,607.08	0.00	0.00	0.00
1st Bone Spring Sand									
8,300.00	15.92	85.31	8,078.64	132.35	1,614.36	-1,614.94	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

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)
8,400.00	15.92	85.31	8,174.81	134.59	1,641.70	-1,642.29	0.00	0.00	0.00
8,500.00	15.92	85.31	8,270.97	136.84	1,669.04	-1,669.65	0.00	0.00	0.00
8,600.00	15.92	85.31	8,367.13	139.08	1,696.38	-1,697.00	0.00	0.00	0.00
8,614.98	15.92	85.31	8,381.54	139.41	1,700.48	-1,701.09	0.00	0.00	0.00
8,650.00	12.43	84.01	8,415.49	140.20	1,709.02	-1,709.64	10.00	-9.96	-3.73
8,700.00	7.48	80.07	8,464.72	141.32	1,717.58	-1,718.21	10.00	-9.91	-7.87
8,709.35	6.56	78.68	8,474.00	141.53	1,718.70	-1,719.33	10.00	-9.83	-14.85
2nd Bone Spring Lime									
8,750.00	2.69	61.69	8,514.51	142.44	1,721.82	-1,722.45	10.00	-9.52	-41.80
8,800.00	2.92	295.42	8,564.48	143.54	1,721.70	-1,722.34	10.00	0.46	-252.54
8,850.00	7.73	279.11	8,614.26	144.62	1,717.23	-1,717.87	10.00	9.63	-32.62
8,900.00	12.69	275.38	8,663.45	145.67	1,708.43	-1,709.08	10.00	9.92	-7.46
8,950.00	17.67	273.72	8,711.69	146.68	1,695.38	-1,696.03	10.00	9.96	-3.30
9,000.00	22.66	272.78	8,758.61	147.64	1,678.18	-1,678.83	10.00	9.98	-1.88
9,050.00	27.66	272.17	8,803.85	148.55	1,656.95	-1,657.60	10.00	9.99	-1.23
9,100.00	32.65	271.73	8,847.07	149.39	1,631.85	-1,632.51	10.00	9.99	-0.88
9,150.00	37.65	271.39	8,887.94	150.17	1,603.09	-1,603.75	10.00	9.99	-0.67
9,167.98	39.44	271.29	8,902.00	150.43	1,591.89	-1,592.55	10.00	9.99	-0.57
2nd Bone Spring Ss									
9,200.00	42.64	271.12	8,926.15	150.87	1,570.87	-1,571.54	10.00	9.99	-0.51
9,250.00	47.64	270.90	8,961.40	151.50	1,535.44	-1,536.11	10.00	10.00	-0.44
9,300.00	52.64	270.72	8,993.44	152.04	1,497.08	-1,497.75	10.00	10.00	-0.38
9,350.00	57.64	270.55	9,022.01	152.49	1,456.06	-1,456.74	10.00	10.00	-0.33
9,400.00	62.64	270.41	9,046.90	152.85	1,412.72	-1,413.40	10.00	10.00	-0.29
9,450.00	67.64	270.27	9,067.91	153.12	1,367.37	-1,368.05	10.00	10.00	-0.27
9,500.00	72.63	270.15	9,084.90	153.29	1,320.36	-1,321.04	10.00	10.00	-0.25
9,550.00	77.63	270.03	9,097.72	153.36	1,272.05	-1,272.73	10.00	10.00	-0.24
9,600.00	82.63	269.91	9,106.29	153.34	1,222.80	-1,223.49	10.00	10.00	-0.23
9,650.00	87.63	269.80	9,110.53	153.21	1,173.00	-1,173.68	10.00	10.00	-0.22
9,678.71	90.50	269.74	9,111.00	153.10	1,144.30	-1,144.98	10.00	10.00	-0.22
LP									
9,700.00	90.50	269.74	9,110.81	153.00	1,123.01	-1,123.69	0.00	0.00	0.00
9,800.00	90.50	269.74	9,109.94	152.55	1,023.01	-1,023.69	0.00	0.00	0.00
9,900.00	90.50	269.74	9,109.07	152.10	923.02	-923.70	0.00	0.00	0.00
10,000.00	90.50	269.74	9,108.20	151.64	823.02	-823.70	0.00	0.00	0.00
10,100.00	90.50	269.74	9,107.32	151.19	723.03	-723.70	0.00	0.00	0.00
10,200.00	90.50	269.74	9,106.45	150.73	623.03	-623.71	0.00	0.00	0.00
10,300.00	90.50	269.74	9,105.58	150.28	523.04	-523.71	0.00	0.00	0.00
10,400.00	90.50	269.74	9,104.71	149.83	423.04	-423.72	0.00	0.00	0.00
10,500.00	90.50	269.74	9,103.83	149.37	323.05	-323.72	0.00	0.00	0.00
10,600.00	90.50	269.74	9,102.96	148.92	223.05	-223.72	0.00	0.00	0.00
10,700.00	90.50	269.74	9,102.09	148.47	123.06	-123.73	0.00	0.00	0.00
10,800.00	90.50	269.74	9,101.22	148.01	23.06	-23.73	0.00	0.00	0.00
10,900.00	90.50	269.74	9,100.34	147.56	-76.93	76.26	0.00	0.00	0.00
11,000.00	90.50	269.74	9,099.47	147.11	-176.93	176.26	0.00	0.00	0.00
11,100.00	90.50	269.74	9,098.60	146.65	-276.93	276.26	0.00	0.00	0.00
11,200.00	90.50	269.74	9,097.72	146.20	-376.92	376.25	0.00	0.00	0.00
11,300.00	90.50	269.74	9,096.85	145.74	-476.92	476.25	0.00	0.00	0.00
11,400.00	90.50	269.74	9,095.98	145.29	-576.91	576.25	0.00	0.00	0.00
11,500.00	90.50	269.74	9,095.11	144.84	-676.91	676.24	0.00	0.00	0.00
11,600.00	90.50	269.74	9,094.23	144.38	-776.90	776.24	0.00	0.00	0.00
11,700.00	90.50	269.74	9,093.36	143.93	-876.90	876.23	0.00	0.00	0.00
11,800.00	90.50	269.74	9,092.49	143.48	-976.89	976.23	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

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)	
11,900.00	90.50	269.74	9,091.62	143.02	-1,076.89	1,076.23	0.00	0.00	0.00	
12,000.00	90.50	269.74	9,090.74	142.57	-1,176.88	1,176.22	0.00	0.00	0.00	
12,100.00	90.50	269.74	9,089.87	142.12	-1,276.88	1,276.22	0.00	0.00	0.00	
12,200.00	90.50	269.74	9,089.00	141.66	-1,376.87	1,376.22	0.00	0.00	0.00	
12,300.00	90.50	269.74	9,088.13	141.21	-1,476.87	1,476.21	0.00	0.00	0.00	
12,400.00	90.50	269.74	9,087.25	140.75	-1,576.86	1,576.21	0.00	0.00	0.00	
12,500.00	90.50	269.74	9,086.38	140.30	-1,676.86	1,676.20	0.00	0.00	0.00	
12,600.00	90.50	269.74	9,085.51	139.85	-1,776.85	1,776.20	0.00	0.00	0.00	
12,700.00	90.50	269.74	9,084.63	139.39	-1,876.85	1,876.20	0.00	0.00	0.00	
12,800.00	90.50	269.74	9,083.76	138.94	-1,976.84	1,976.19	0.00	0.00	0.00	
12,900.00	90.50	269.74	9,082.89	138.49	-2,076.84	2,076.19	0.00	0.00	0.00	
13,000.00	90.50	269.74	9,082.02	138.03	-2,176.83	2,176.18	0.00	0.00	0.00	
13,100.00	90.50	269.74	9,081.14	137.58	-2,276.83	2,276.18	0.00	0.00	0.00	
13,200.00	90.50	269.74	9,080.27	137.12	-2,376.82	2,376.18	0.00	0.00	0.00	
13,300.00	90.50	269.74	9,079.40	136.67	-2,476.82	2,476.17	0.00	0.00	0.00	
13,400.00	90.50	269.74	9,078.53	136.22	-2,576.81	2,576.17	0.00	0.00	0.00	
13,500.00	90.50	269.74	9,077.65	135.76	-2,676.81	2,676.17	0.00	0.00	0.00	
13,600.00	90.50	269.74	9,076.78	135.31	-2,776.80	2,776.16	0.00	0.00	0.00	
13,700.00	90.50	269.74	9,075.91	134.86	-2,876.80	2,876.16	0.00	0.00	0.00	
13,800.00	90.50	269.74	9,075.04	134.40	-2,976.79	2,976.15	0.00	0.00	0.00	
13,900.00	90.50	269.74	9,074.16	133.95	-3,076.79	3,076.15	0.00	0.00	0.00	
14,000.00	90.50	269.74	9,073.29	133.50	-3,176.79	3,176.15	0.00	0.00	0.00	
14,100.00	90.50	269.74	9,072.42	133.04	-3,276.78	3,276.14	0.00	0.00	0.00	
14,200.00	90.50	269.74	9,071.54	132.59	-3,376.78	3,376.14	0.00	0.00	0.00	
14,300.00	90.50	269.74	9,070.67	132.13	-3,476.77	3,476.14	0.00	0.00	0.00	
14,400.00	90.50	269.74	9,069.80	131.68	-3,576.77	3,576.13	0.00	0.00	0.00	
14,500.00	90.50	269.74	9,068.93	131.23	-3,676.76	3,676.13	0.00	0.00	0.00	
14,600.00	90.50	269.74	9,068.05	130.77	-3,776.76	3,776.12	0.00	0.00	0.00	
14,700.00	90.50	269.74	9,067.18	130.32	-3,876.75	3,876.12	0.00	0.00	0.00	
14,808.55	90.50	269.74	9,066.23	129.83	-3,985.30	3,984.67	0.00	0.00	0.00	
14,858.56	90.50	269.74	9,065.80	129.60	-4,035.30	4,034.67	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Stan-32#71H: SHL (1i - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	364,181.20	634,849.60	32.0005019	-103.8983266	
Stan-32#71H: PBHLv: - plan hits target center - Point	0.00	0.00	9,065.80	129.60	-4,035.30	364,310.80	630,814.30	32.0009021	-103.9113420	
Stan-32#71H: LTPv2 - plan misses target center by 0.03usft at 14808.55usft MD (9066.23 TVD, 129.83 N, -3985.30 E) - Point	0.00	0.00	9,066.23	129.80	-3,985.30	364,311.00	630,864.30	32.0009021	-103.9111807	
Stan-32#71H: FTP/ LI - plan hits target center - Point	0.00	0.00	9,111.00	153.10	1,144.30	364,334.30	635,993.90	32.0009100	-103.8946333	



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #71H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 2949.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 2949.00usft
Site:	Stan 32 State	North Reference:	Grid
Well:	#71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMITv2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
413.00	413.00	Rustler			
639.00	639.00	Top Salt			
3,157.05	3,133.00	Base Salt			
3,289.12	3,260.00	Delaware			
4,273.90	4,207.00	Cherry Canyon			
5,608.09	5,490.00	Brushy Canyon			
7,252.16	7,071.00	Bone Spring			
7,447.66	7,259.00	Avalon Shale Upper			
7,868.82	7,664.00	Avalon Shale Lower			
8,220.30	8,002.00	1st Bone Spring Lime			
8,271.25	8,051.00	1st Bone Spring Sand			
8,709.35	8,474.00	2nd Bone Spring Lime			
9,167.98	8,902.00	2nd Bone Spring Ss			
9,678.71	9,111.00	LP			