

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**EMNRD-OCD ARTESIA**
RECEIVED: 4/03/2020FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM0556863
2. Name of Operator XTO ENERGY INCORPORATED		6. If Indian, Allottee or Tribe Name
Contact: KELLY KARDOS E-Mail: kelly_kardos@xtoenergy.com		7. If Unit or CA/Agreement, Name and/or No. 891014168X
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-620-4374	8. Well Name and No. NASH UNIT 403H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T23S R30E NENW 170FNL 2225FWL 32.297264 N Lat, 103.922447 W Lon		9. API Well No. 30-015-46586-00-X1
		10. Field and Pool or Exploratory Area WILDCAT-WOLFCAMP
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

XTO Energy Inc. requests permission to make the following changes to the original APD:

Update casing/cement design per the attached drilling program.

Change the SHL from 170'FNL & 2225'FWL to 165'FNL & 2205FWL. No surface disturbance.

Change the BHL from 200'FNL & 2310'FWL to 50'FNL & 2310'FWL.

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

14. I hereby certify that the foregoing is true and correct. Electronic Submission #507023 verified by the BLM Well Information System For XTO ENERGY INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 03/15/2020 (20PP1630SE)	
Name (Printed/Typed) KELLY KARDOS	Title REGULATORY COORDINATOR
Signature (Electronic Submission)	Date 03/13/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CODY LAYTON	Title ASSIST FIELD MANAGER LANDS MINERALS	Date 04/01/2020
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #507023 that would not fit on the form

32. Additional remarks, continued

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

Attachments:

Updated C102 / C102 Supplement

Casing/Cement Design

Multibowl Diagram

Directional Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #507023

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM0556863	NMNM0556863
Agreement:	NMNM70992X	891014168X (NMNM70992X)
Operator:	XTO ENERGY INC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO ENERGY INCORPORATED 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	WILDCAT WOLFCAMP	WILDCAT-WOLFCAMP
Well/Facility:	NASH UNIT 403H Sec 19 T23S R30E Mer NMP NENW 170FNL 2225FWL	NASH UNIT 403H Sec 19 T23S R30E NENW 170FNL 2225FWL 32.297264 N Lat, 103.922447 W Lon

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015 46586		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name NASH UNIT		⁶ Well Number 403H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.		⁹ Elevation 3,060'

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
C	19	23 S	30 E		165	NORTH	2,205	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L3	6	23 S	30 E		50	NORTH	2,310	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 SEC. 36 T22S R29E LOT 4 B.H.L. 2310' 2310' LOT 4 LOT 5 LOT 6 LOT 7 SEC. 1 SEC. 12 LOT 1 LOT 2 LOT 3 LOT 4 SEC. 13 LOT 1 LOT 2 LOT 3 LOT 4 SEC. 24 LOT 1 SEC. 19 LOT 2 SEC. 31 T22S R30E LOT 2 LOT 1 GRID AZ.=359°44'20" HORIZ. DIST.=15,775.66' SEC. 6 SEC. 7 T23S R30E LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 SEC. 18 LOT 1 LOT 2 LOT 3 LOT 4 SEC. 19 LOT 1 LOT 2 SEC. 5 SEC. 8 LOT 1 LOT 2 LOT 3 LOT 4 SEC. 18 LOT 1 LOT 2 LOT 3 LOT 4 SEC. 19 LOT 1 LOT 2 GRID AZ.=21°19'50" HORIZ. DIST.=284.97' F.T.P. S.H.L. 2310' 2205' 165' 100'	SHL (NAD83 NME) Y = 472,125.3 X = 668,274.0 LAT. = 32.297277 °N LONG. = 103.922515 °W FTP (NAD83 NME) Y = 472,390.7 X = 668,377.7 LAT. = 32.298006 °N LONG. = 103.922177 °W CORNER COORDINATES (NAD83 NME) A - Y = 472,288.6 N , X = 667,415.4 E B - Y = 472,291.5 N , X = 668,753.5 E C - Y = 474,941.7 N , X = 667,402.0 E D - Y = 474,944.1 N , X = 668,739.6 E E - Y = 477,595.8 N , X = 667,389.1 E F - Y = 477,596.9 N , X = 668,725.8 E G - Y = 480,252.5 N , X = 667,376.6 E H - Y = 480,252.3 N , X = 668,714.2 E I - Y = 482,907.2 N , X = 667,363.6 E J - Y = 482,906.3 N , X = 668,702.7 E K - Y = 485,558.9 N , X = 667,365.4 E L - Y = 485,558.1 N , X = 668,703.8 E M - Y = 488,215.0 N , X = 667,366.7 E N - Y = 488,216.7 N , X = 668,705.0 E SHL (NAD27 NME) Y = 472,065.2 X = 627,091.5 LAT. = 32.297154 °N LONG. = 103.922023 °W FTP (NAD27 NME) Y = 472,330.6 X = 627,195.1 LAT. = 32.297882 °N LONG. = 103.921685 °W CORNER COORDINATES (NAD27 NME) A - Y = 472,228.5 N , X = 626,232.8 E B - Y = 472,231.4 N , X = 627,570.9 E C - Y = 474,881.5 N , X = 626,219.6 E D - Y = 474,883.9 N , X = 627,557.2 E E - Y = 477,535.6 N , X = 626,206.8 E F - Y = 477,536.6 N , X = 627,543.4 E G - Y = 480,192.3 N , X = 626,194.3 E H - Y = 480,192.0 N , X = 627,531.9 E I - Y = 482,846.9 N , X = 626,181.4 E J - Y = 482,846.0 N , X = 627,520.5 E K - Y = 485,498.5 N , X = 626,183.3 E L - Y = 485,497.7 N , X = 627,521.7 E M - Y = 488,154.6 N , X = 626,184.7 E N - Y = 488,156.3 N , X = 627,522.9 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. Kelly Kardos 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. 1-2-2020 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ MARK DILLON HARP 23786 Certificate Number _____ JC 2019123819
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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

Nash Unit 403H
 Projected TD: 26260' MD / 10485' TVD
 SHL: 165' FNL & 2205' FWL , Section 19, T23S, R30E
 BHL: 50' FNL & 2310' FWL , Section 6, T23S, R30E
 Eddy County, NM

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 360'	18-5/8"	87.5	STC	H-40	New	1.65	3.87	17.75
17-1/2"	0' – 3238'	13-3/8"	68	STC	J-55	New	1.59	1.95	3.07
12-1/4"	0' – 9352'	9-5/8"	40	LTC	HCL-80	New	1.80	1.58	1.94
8-3/4"	0' – 26260'	5-1/2"	17	BTC	P-110	New	1.01	1.36	2.06

XTO requests to not utilize centralizers in the curve and lateral.

- 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 13-3/8" Collapse analyzed using 50% evacuation based on regional experience.
- 9-5/8" Collapse analyzed using 33% evacuation based on regional experience.
- Test on 2M Annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Cement Program

Surface Casing:

Tail: 660 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

Two additional 1" top out jobs will be attempted after the surface cement job. If the top of cement is not affected by the two top out jobs, ~10-20 ppb gravel will be added on the backside of the 1" to attempt to get cement to surface.

1st Intermediate Casing:

Lead: 2180 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

2nd Intermediate Casing:

ECP/DV Tool to be set at 3338'

1st Stage

Lead: 1830 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

2nd Stage

Lead: 60 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

Production Casing:

Tail: 3450 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)

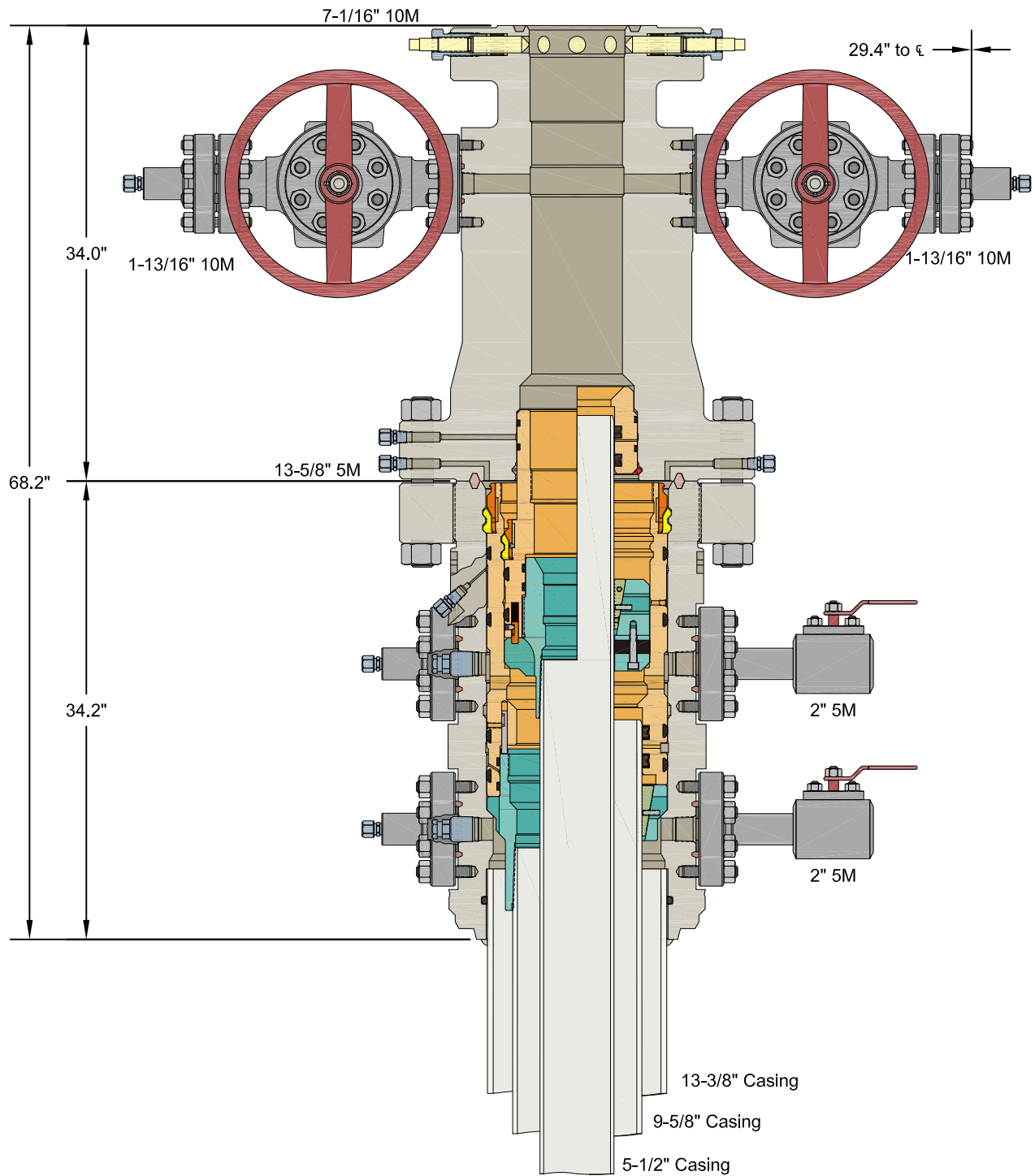
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 360'	24"	FW/Native	8.4-8.8	35-40	NC
360' - 3238'	17-1/2"	Brine	9.8-10.2	30-32	NC
3238' to 9352'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
9352' to 26260'	8-3/4"	Cut Brine / Polymer	9.8 - 10.1	29-32	NC - 20



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

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XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

DRAWN

VJK

16FEB17

APPRV

KN

16FEB17

FOR REFERENCE ONLY

DRAWING NO.

10012842



XTO Energy

Eddy County, NM (Nad-27 / East Zone)

Nash Unit

#403H

OH

Plan: Plan #1

Standard Planning Report

06 March, 2020





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (Nad-27 / East Zone)		
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	Nash Unit					
Site Position:		Northing:	471,623.70 usft	Latitude:	32.295927	
From:	Map	Easting:	628,345.40 usft	Longitude:	-103.917971	
Position Uncertainty:		0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.222 °

Well	#403H					
Well Position	+N/-S	441.50 usft	Northing:	472,065.20 usft	Latitude:	32.297154
	+E/-W	-1,253.90 usft	Easting:	627,091.50 usft	Longitude:	-103.922024
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,060.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/1/2020	6.811	60.037	47,651.98090597

Design	Plan #1			
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	359.74

Plan Survey Tool Program	Date	3/6/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	26,259.93 Plan #1 (OH)	WBDS_IGRF	
			OWSG MWD + IGRF or WMM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
9,819.97	0.00	0.00	9,819.97	0.00	0.00	0.00	0.00	0.00	0.000	
10,319.97	40.00	7.30	10,280.33	166.20	21.29	8.00	8.00	0.00	7.300	
10,820.37	90.04	7.30	10,485.00	601.95	77.11	10.00	10.00	0.00	0.000	
11,198.30	90.04	359.74	10,484.74	978.90	100.30	2.00	0.00	-2.00	-90.020	
26,260.16	90.04	359.74	10,475.00	16,040.60	32.30	0.00	0.00	0.00	0.000	Nash Unit 403H PBHI



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dewey Lake - Nash Unit 403H SHL:									
41.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
236.00	0.00	0.00	236.00	0.00	0.00	0.00	0.00	0.00	0.00
B/ Rustler									
276.00	0.00	0.00	276.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado Anh.									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
385.00	0.00	0.00	385.00	0.00	0.00	0.00	0.00	0.00	0.00
T/ Salt									
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
3,138.00	0.00	0.00	3,138.00	0.00	0.00	0.00	0.00	0.00	0.00
B/ Salt									
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
3,330.00	0.00	0.00	3,330.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Lm.									
3,357.00	0.00	0.00	3,357.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
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



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
4,188.00	0.00	0.00	4,188.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
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
4,364.00	0.00	0.00	4,364.00	0.00	0.00	0.00	0.00	0.00	0.00
B/ Manzanita									
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
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
5,792.00	0.00	0.00	5,792.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
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
6,847.00	0.00	0.00	6,847.00	0.00	0.00	0.00	0.00	0.00	0.00
Badal Brushy Canyon									
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
7,090.00	0.00	0.00	7,090.00	0.00	0.00	0.00	0.00	0.00	0.00
BS Lime									
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
7,205.00	0.00	0.00	7,205.00	0.00	0.00	0.00	0.00	0.00	0.00
Avalon Ss									
7,284.00	0.00	0.00	7,284.00	0.00	0.00	0.00	0.00	0.00	0.00
BS U/ Avalon Lm.									
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
7,437.00	0.00	0.00	7,437.00	0.00	0.00	0.00	0.00	0.00	0.00
BS U/ Avalon Sh.									



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,551.00	0.00	0.00	7,551.00	0.00	0.00	0.00	0.00	0.00	0.00	
BS L/ Avalon Lm.										
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	
7,760.00	0.00	0.00	7,760.00	0.00	0.00	0.00	0.00	0.00	0.00	
BS L/ Avalon Sh.										
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	
8,079.00	0.00	0.00	8,079.00	0.00	0.00	0.00	0.00	0.00	0.00	
1st BSS										
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,421.00	0.00	0.00	8,421.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BS Lime										
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,910.00	0.00	0.00	8,910.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BSS										
8,950.00	0.00	0.00	8,950.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BS A Ss.										
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,015.00	0.00	0.00	9,015.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BSS A/B Carb										
9,095.00	0.00	0.00	9,095.00	0.00	0.00	0.00	0.00	0.00	0.00	
2nd BS B Ss										
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,252.00	0.00	0.00	9,252.00	0.00	0.00	0.00	0.00	0.00	0.00	
3rd BS Lime										
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,819.97	0.00	0.00	9,819.97	0.00	0.00	0.00	0.00	0.00	0.00	
9,850.00	2.40	7.30	9,849.99	0.62	0.08	0.62	8.00	8.00	0.00	
9,900.00	6.40	7.30	9,899.83	4.43	0.57	4.43	8.00	8.00	0.00	
9,950.00	10.40	7.30	9,949.29	11.68	1.50	11.67	8.00	8.00	0.00	
10,000.00	14.40	7.30	9,998.11	22.33	2.86	22.31	8.00	8.00	0.00	
10,007.12	14.97	7.30	10,005.00	24.12	3.09	24.10	8.00	8.00	0.00	
3rd BS Ss										
10,050.00	18.40	7.30	10,046.07	36.33	4.65	36.31	8.00	8.00	0.00	
10,100.00	22.40	7.30	10,092.92	53.61	6.87	53.58	8.00	8.00	0.00	
10,150.00	26.40	7.30	10,138.44	74.10	9.49	74.06	8.00	8.00	0.00	
10,200.00	30.40	7.30	10,182.42	97.68	12.51	97.63	8.00	8.00	0.00	



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,231.23	32.90	7.30	10,209.00	113.94	14.60	113.87	8.00	8.00	0.00	
3rd BS Ss War Wink										
10,250.00	34.40	7.30	10,224.62	124.26	15.92	124.18	8.00	8.00	0.00	
10,300.00	38.40	7.30	10,264.86	153.68	19.69	153.59	8.00	8.00	0.00	
10,319.97	40.00	7.30	10,280.33	166.20	21.29	166.10	8.00	8.00	0.00	
10,350.00	43.00	7.30	10,302.82	185.94	23.82	185.83	10.00	10.00	0.00	
10,362.68	44.27	7.30	10,312.00	194.62	24.93	194.50	10.00	10.00	0.00	
3rd Bs Ss Red Hills										
10,400.00	48.00	7.30	10,337.85	221.30	28.35	221.17	10.00	10.00	0.00	
10,437.48	51.75	7.30	10,362.00	249.72	31.99	249.57	10.00	10.00	0.00	
Woflcamp Sh.										
10,450.00	53.00	7.30	10,369.64	259.56	33.25	259.40	10.00	10.00	0.00	
10,464.63	54.47	7.30	10,378.30	271.25	34.75	271.09	10.00	10.00	0.00	
Nash Unit 403H FTP:										
10,500.00	58.00	7.30	10,397.95	300.42	38.48	300.24	10.00	10.00	0.00	
10,537.99	61.80	7.30	10,417.00	333.01	42.66	332.82	10.00	10.00	0.00	
Wolcamp X Ss.										
10,550.00	63.00	7.30	10,422.56	343.57	44.01	343.37	10.00	10.00	0.00	
10,600.00	68.00	7.30	10,443.29	388.69	49.79	388.46	10.00	10.00	0.00	
10,650.00	73.00	7.30	10,459.97	435.42	55.78	435.17	10.00	10.00	0.00	
10,668.14	74.82	7.30	10,465.00	452.71	57.99	452.44	10.00	10.00	0.00	
Wolfcamp Y Ss										
10,700.00	78.00	7.30	10,472.49	483.42	61.93	483.14	10.00	10.00	0.00	
10,712.77	79.28	7.30	10,475.00	495.84	63.52	495.55	10.00	10.00	0.00	
TD										
10,750.00	83.00	7.30	10,480.73	532.32	68.19	532.01	10.00	10.00	0.00	
10,800.00	88.00	7.30	10,484.65	581.75	74.52	581.41	10.00	10.00	0.00	
10,818.75	90.04	7.30	10,485.00	600.34	76.91	599.99	10.86	10.86	0.00	
LP										
10,820.37	90.04	7.30	10,485.00	601.95	77.11	601.59	0.00	0.00	0.00	
Nash Unit 403H LP - Plan #1:										
10,900.00	90.04	5.71	10,484.94	681.07	86.13	680.67	2.00	0.00	-2.00	
11,000.00	90.04	3.71	10,484.88	780.72	94.34	780.29	2.00	0.00	-2.00	
11,100.00	90.04	1.71	10,484.81	880.61	99.06	880.15	2.00	0.00	-2.00	
11,198.30	90.04	359.74	10,484.74	978.90	100.30	978.43	2.00	0.00	-2.00	
11,200.00	90.04	359.74	10,484.74	980.59	100.30	980.13	0.00	0.00	0.00	
11,300.00	90.04	359.74	10,484.68	1,080.59	99.84	1,080.13	0.00	0.00	0.00	
11,400.00	90.04	359.74	10,484.61	1,180.59	99.39	1,180.13	0.00	0.00	0.00	
11,500.00	90.04	359.74	10,484.55	1,280.59	98.94	1,280.13	0.00	0.00	0.00	
11,600.00	90.04	359.74	10,484.48	1,380.59	98.49	1,380.13	0.00	0.00	0.00	
11,700.00	90.04	359.74	10,484.42	1,480.59	98.04	1,480.13	0.00	0.00	0.00	
11,800.00	90.04	359.74	10,484.36	1,580.59	97.59	1,580.13	0.00	0.00	0.00	
11,900.00	90.04	359.74	10,484.29	1,680.59	97.13	1,680.13	0.00	0.00	0.00	
12,000.00	90.04	359.74	10,484.23	1,780.59	96.68	1,780.13	0.00	0.00	0.00	
12,100.00	90.04	359.74	10,484.16	1,880.59	96.23	1,880.13	0.00	0.00	0.00	
12,200.00	90.04	359.74	10,484.10	1,980.58	95.78	1,980.13	0.00	0.00	0.00	
12,300.00	90.04	359.74	10,484.03	2,080.58	95.33	2,080.13	0.00	0.00	0.00	
12,400.00	90.04	359.74	10,483.97	2,180.58	94.88	2,180.13	0.00	0.00	0.00	
12,500.00	90.04	359.74	10,483.90	2,280.58	94.43	2,280.13	0.00	0.00	0.00	
12,600.00	90.04	359.74	10,483.84	2,380.58	93.97	2,380.13	0.00	0.00	0.00	
12,700.00	90.04	359.74	10,483.77	2,480.58	93.52	2,480.13	0.00	0.00	0.00	
12,800.00	90.04	359.74	10,483.71	2,580.58	93.07	2,580.13	0.00	0.00	0.00	
12,900.00	90.04	359.74	10,483.64	2,680.58	92.62	2,680.13	0.00	0.00	0.00	



Planning Report



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Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,000.00	90.04	359.74	10,483.58	2,780.58	92.17	2,780.13	0.00	0.00	0.00
13,100.00	90.04	359.74	10,483.51	2,880.57	91.72	2,880.13	0.00	0.00	0.00
13,200.00	90.04	359.74	10,483.45	2,980.57	91.27	2,980.13	0.00	0.00	0.00
13,300.00	90.04	359.74	10,483.38	3,080.57	90.81	3,080.13	0.00	0.00	0.00
13,400.00	90.04	359.74	10,483.32	3,180.57	90.36	3,180.13	0.00	0.00	0.00
13,500.00	90.04	359.74	10,483.26	3,280.57	89.91	3,280.13	0.00	0.00	0.00
13,600.00	90.04	359.74	10,483.19	3,380.57	89.46	3,380.13	0.00	0.00	0.00
13,700.00	90.04	359.74	10,483.13	3,480.57	89.01	3,480.13	0.00	0.00	0.00
13,800.00	90.04	359.74	10,483.06	3,580.57	88.56	3,580.13	0.00	0.00	0.00
13,900.00	90.04	359.74	10,483.00	3,680.57	88.11	3,680.13	0.00	0.00	0.00
14,000.00	90.04	359.74	10,482.93	3,780.57	87.65	3,780.13	0.00	0.00	0.00
14,100.00	90.04	359.74	10,482.87	3,880.56	87.20	3,880.13	0.00	0.00	0.00
14,200.00	90.04	359.74	10,482.80	3,980.56	86.75	3,980.13	0.00	0.00	0.00
14,300.00	90.04	359.74	10,482.74	4,080.56	86.30	4,080.13	0.00	0.00	0.00
14,400.00	90.04	359.74	10,482.67	4,180.56	85.85	4,180.13	0.00	0.00	0.00
14,500.00	90.04	359.74	10,482.61	4,280.56	85.40	4,280.13	0.00	0.00	0.00
14,600.00	90.04	359.74	10,482.54	4,380.56	84.94	4,380.13	0.00	0.00	0.00
14,700.00	90.04	359.74	10,482.48	4,480.56	84.49	4,480.13	0.00	0.00	0.00
14,800.00	90.04	359.74	10,482.41	4,580.56	84.04	4,580.13	0.00	0.00	0.00
14,900.00	90.04	359.74	10,482.35	4,680.56	83.59	4,680.13	0.00	0.00	0.00
15,000.00	90.04	359.74	10,482.29	4,780.55	83.14	4,780.13	0.00	0.00	0.00
15,100.00	90.04	359.74	10,482.22	4,880.55	82.69	4,880.13	0.00	0.00	0.00
15,200.00	90.04	359.74	10,482.16	4,980.55	82.24	4,980.13	0.00	0.00	0.00
15,300.00	90.04	359.74	10,482.09	5,080.55	81.78	5,080.13	0.00	0.00	0.00
15,400.00	90.04	359.74	10,482.03	5,180.55	81.33	5,180.13	0.00	0.00	0.00
15,500.00	90.04	359.74	10,481.96	5,280.55	80.88	5,280.13	0.00	0.00	0.00
15,600.00	90.04	359.74	10,481.90	5,380.55	80.43	5,380.13	0.00	0.00	0.00
15,700.00	90.04	359.74	10,481.83	5,480.55	79.98	5,480.13	0.00	0.00	0.00
15,800.00	90.04	359.74	10,481.77	5,580.55	79.53	5,580.13	0.00	0.00	0.00
15,900.00	90.04	359.74	10,481.70	5,680.55	79.08	5,680.13	0.00	0.00	0.00
16,000.00	90.04	359.74	10,481.64	5,780.54	78.62	5,780.13	0.00	0.00	0.00
16,100.00	90.04	359.74	10,481.57	5,880.54	78.17	5,880.13	0.00	0.00	0.00
16,200.00	90.04	359.74	10,481.51	5,980.54	77.72	5,980.13	0.00	0.00	0.00
16,300.00	90.04	359.74	10,481.44	6,080.54	77.27	6,080.13	0.00	0.00	0.00
16,400.00	90.04	359.74	10,481.38	6,180.54	76.82	6,180.13	0.00	0.00	0.00
16,500.00	90.04	359.74	10,481.31	6,280.54	76.37	6,280.13	0.00	0.00	0.00
16,600.00	90.04	359.74	10,481.25	6,380.54	75.91	6,380.13	0.00	0.00	0.00
16,700.00	90.04	359.74	10,481.19	6,480.54	75.46	6,480.13	0.00	0.00	0.00
16,800.00	90.04	359.74	10,481.12	6,580.54	75.01	6,580.13	0.00	0.00	0.00
16,900.00	90.04	359.74	10,481.06	6,680.54	74.56	6,680.13	0.00	0.00	0.00
17,000.00	90.04	359.74	10,480.99	6,780.53	74.11	6,780.13	0.00	0.00	0.00
17,100.00	90.04	359.74	10,480.93	6,880.53	73.66	6,880.13	0.00	0.00	0.00
17,200.00	90.04	359.74	10,480.86	6,980.53	73.21	6,980.13	0.00	0.00	0.00
17,300.00	90.04	359.74	10,480.80	7,080.53	72.75	7,080.13	0.00	0.00	0.00
17,400.00	90.04	359.74	10,480.73	7,180.53	72.30	7,180.13	0.00	0.00	0.00
17,500.00	90.04	359.74	10,480.67	7,280.53	71.85	7,280.13	0.00	0.00	0.00
17,600.00	90.04	359.74	10,480.60	7,380.53	71.40	7,380.13	0.00	0.00	0.00
17,700.00	90.04	359.74	10,480.54	7,480.53	70.95	7,480.13	0.00	0.00	0.00
17,800.00	90.04	359.74	10,480.47	7,580.53	70.50	7,580.13	0.00	0.00	0.00
17,900.00	90.04	359.74	10,480.41	7,680.52	70.05	7,680.13	0.00	0.00	0.00
18,000.00	90.04	359.74	10,480.34	7,780.52	69.59	7,780.13	0.00	0.00	0.00
18,100.00	90.04	359.74	10,480.28	7,880.52	69.14	7,880.13	0.00	0.00	0.00
18,200.00	90.04	359.74	10,480.21	7,980.52	68.69	7,980.13	0.00	0.00	0.00
18,300.00	90.04	359.74	10,480.15	8,080.52	68.24	8,080.13	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
18,400.00	90.04	359.74	10,480.09	8,180.52	67.79	8,180.13	0.00	0.00	0.00
18,500.00	90.04	359.74	10,480.02	8,280.52	67.34	8,280.13	0.00	0.00	0.00
18,600.00	90.04	359.74	10,479.96	8,380.52	66.88	8,380.13	0.00	0.00	0.00
18,700.00	90.04	359.74	10,479.89	8,480.52	66.43	8,480.13	0.00	0.00	0.00
18,800.00	90.04	359.74	10,479.83	8,580.52	65.98	8,580.13	0.00	0.00	0.00
18,900.00	90.04	359.74	10,479.76	8,680.51	65.53	8,680.13	0.00	0.00	0.00
19,000.00	90.04	359.74	10,479.70	8,780.51	65.08	8,780.13	0.00	0.00	0.00
19,100.00	90.04	359.74	10,479.63	8,880.51	64.63	8,880.13	0.00	0.00	0.00
19,200.00	90.04	359.74	10,479.57	8,980.51	64.18	8,980.13	0.00	0.00	0.00
19,300.00	90.04	359.74	10,479.50	9,080.51	63.72	9,080.13	0.00	0.00	0.00
19,400.00	90.04	359.74	10,479.44	9,180.51	63.27	9,180.13	0.00	0.00	0.00
19,500.00	90.04	359.74	10,479.37	9,280.51	62.82	9,280.13	0.00	0.00	0.00
19,600.00	90.04	359.74	10,479.31	9,380.51	62.37	9,380.13	0.00	0.00	0.00
19,700.00	90.04	359.74	10,479.24	9,480.51	61.92	9,480.13	0.00	0.00	0.00
19,800.00	90.04	359.74	10,479.18	9,580.51	61.47	9,580.13	0.00	0.00	0.00
19,900.00	90.04	359.74	10,479.11	9,680.50	61.02	9,680.13	0.00	0.00	0.00
20,000.00	90.04	359.74	10,479.05	9,780.50	60.56	9,780.13	0.00	0.00	0.00
20,100.00	90.04	359.74	10,478.99	9,880.50	60.11	9,880.13	0.00	0.00	0.00
20,200.00	90.04	359.74	10,478.92	9,980.50	59.66	9,980.13	0.00	0.00	0.00
20,300.00	90.04	359.74	10,478.86	10,080.50	59.21	10,080.13	0.00	0.00	0.00
20,400.00	90.04	359.74	10,478.79	10,180.50	58.76	10,180.13	0.00	0.00	0.00
20,500.00	90.04	359.74	10,478.73	10,280.50	58.31	10,280.13	0.00	0.00	0.00
20,600.00	90.04	359.74	10,478.66	10,380.50	57.86	10,380.13	0.00	0.00	0.00
20,700.00	90.04	359.74	10,478.60	10,480.50	57.40	10,480.13	0.00	0.00	0.00
20,800.00	90.04	359.74	10,478.53	10,580.49	56.95	10,580.13	0.00	0.00	0.00
20,900.00	90.04	359.74	10,478.47	10,680.49	56.50	10,680.13	0.00	0.00	0.00
21,000.00	90.04	359.74	10,478.40	10,780.49	56.05	10,780.13	0.00	0.00	0.00
21,100.00	90.04	359.74	10,478.34	10,880.49	55.60	10,880.13	0.00	0.00	0.00
21,200.00	90.04	359.74	10,478.27	10,980.49	55.15	10,980.13	0.00	0.00	0.00
21,300.00	90.04	359.74	10,478.21	11,080.49	54.69	11,080.13	0.00	0.00	0.00
21,400.00	90.04	359.74	10,478.14	11,180.49	54.24	11,180.13	0.00	0.00	0.00
21,500.00	90.04	359.74	10,478.08	11,280.49	53.79	11,280.13	0.00	0.00	0.00
21,600.00	90.04	359.74	10,478.02	11,380.49	53.34	11,380.13	0.00	0.00	0.00
21,700.00	90.04	359.74	10,477.95	11,480.49	52.89	11,480.13	0.00	0.00	0.00
21,800.00	90.04	359.74	10,477.89	11,580.48	52.44	11,580.13	0.00	0.00	0.00
21,900.00	90.04	359.74	10,477.82	11,680.48	51.99	11,680.13	0.00	0.00	0.00
22,000.00	90.04	359.74	10,477.76	11,780.48	51.53	11,780.13	0.00	0.00	0.00
22,100.00	90.04	359.74	10,477.69	11,880.48	51.08	11,880.13	0.00	0.00	0.00
22,200.00	90.04	359.74	10,477.63	11,980.48	50.63	11,980.13	0.00	0.00	0.00
22,300.00	90.04	359.74	10,477.56	12,080.48	50.18	12,080.13	0.00	0.00	0.00
22,400.00	90.04	359.74	10,477.50	12,180.48	49.73	12,180.13	0.00	0.00	0.00
22,500.00	90.04	359.74	10,477.43	12,280.48	49.28	12,280.13	0.00	0.00	0.00
22,600.00	90.04	359.74	10,477.37	12,380.48	48.83	12,380.13	0.00	0.00	0.00
22,700.00	90.04	359.74	10,477.30	12,480.48	48.37	12,480.13	0.00	0.00	0.00
22,800.00	90.04	359.74	10,477.24	12,580.47	47.92	12,580.13	0.00	0.00	0.00
22,900.00	90.04	359.74	10,477.17	12,680.47	47.47	12,680.13	0.00	0.00	0.00
23,000.00	90.04	359.74	10,477.11	12,780.47	47.02	12,780.13	0.00	0.00	0.00
23,100.00	90.04	359.74	10,477.04	12,880.47	46.57	12,880.13	0.00	0.00	0.00
23,200.00	90.04	359.74	10,476.98	12,980.47	46.12	12,980.13	0.00	0.00	0.00
23,300.00	90.04	359.74	10,476.92	13,080.47	45.66	13,080.13	0.00	0.00	0.00
23,400.00	90.04	359.74	10,476.85	13,180.47	45.21	13,180.13	0.00	0.00	0.00
23,500.00	90.04	359.74	10,476.79	13,280.47	44.76	13,280.13	0.00	0.00	0.00
23,600.00	90.04	359.74	10,476.72	13,380.47	44.31	13,380.13	0.00	0.00	0.00
23,700.00	90.04	359.74	10,476.66	13,480.46	43.86	13,480.13	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
23,800.00	90.04	359.74	10,476.59	13,580.46	43.41	13,580.13	0.00	0.00	0.00
23,900.00	90.04	359.74	10,476.53	13,680.46	42.96	13,680.13	0.00	0.00	0.00
24,000.00	90.04	359.74	10,476.46	13,780.46	42.50	13,780.13	0.00	0.00	0.00
24,100.00	90.04	359.74	10,476.40	13,880.46	42.05	13,880.13	0.00	0.00	0.00
24,200.00	90.04	359.74	10,476.33	13,980.46	41.60	13,980.13	0.00	0.00	0.00
24,300.00	90.04	359.74	10,476.27	14,080.46	41.15	14,080.13	0.00	0.00	0.00
24,400.00	90.04	359.74	10,476.20	14,180.46	40.70	14,180.13	0.00	0.00	0.00
24,500.00	90.04	359.74	10,476.14	14,280.46	40.25	14,280.13	0.00	0.00	0.00
24,600.00	90.04	359.74	10,476.07	14,380.46	39.80	14,380.13	0.00	0.00	0.00
24,700.00	90.04	359.74	10,476.01	14,480.45	39.34	14,480.13	0.00	0.00	0.00
24,800.00	90.04	359.74	10,475.94	14,580.45	38.89	14,580.13	0.00	0.00	0.00
24,900.00	90.04	359.74	10,475.88	14,680.45	38.44	14,680.13	0.00	0.00	0.00
25,000.00	90.04	359.74	10,475.82	14,780.45	37.99	14,780.13	0.00	0.00	0.00
25,100.00	90.04	359.74	10,475.75	14,880.45	37.54	14,880.13	0.00	0.00	0.00
25,200.00	90.04	359.74	10,475.69	14,980.45	37.09	14,980.13	0.00	0.00	0.00
25,300.00	90.04	359.74	10,475.62	15,080.45	36.64	15,080.13	0.00	0.00	0.00
25,400.00	90.04	359.74	10,475.56	15,180.45	36.18	15,180.13	0.00	0.00	0.00
25,500.00	90.04	359.74	10,475.49	15,280.45	35.73	15,280.13	0.00	0.00	0.00
25,600.00	90.04	359.74	10,475.43	15,380.44	35.28	15,380.13	0.00	0.00	0.00
25,700.00	90.04	359.74	10,475.36	15,480.44	34.83	15,480.13	0.00	0.00	0.00
25,800.00	90.04	359.74	10,475.30	15,580.44	34.38	15,580.13	0.00	0.00	0.00
25,900.00	90.04	359.74	10,475.23	15,680.44	33.93	15,680.13	0.00	0.00	0.00
26,000.00	90.04	359.74	10,475.17	15,780.44	33.47	15,780.13	0.00	0.00	0.00
26,100.00	90.04	359.74	10,475.10	15,880.44	33.02	15,880.13	0.00	0.00	0.00
26,200.00	90.04	359.74	10,475.04	15,980.44	32.57	15,980.13	0.00	0.00	0.00
Nash Unit 403H LTP:									
26,260.16	90.04	359.74	10,475.00	16,040.60	32.30	16,040.29	0.00	0.00	0.00
Nash Unit 403H PBHL:									

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
Nash Unit 403H LTP: - plan misses target center by 10475.04usft at 26200.00usft MD (10475.04 TVD, 15980.44 N, 32.57 E) - Point	0.00	0.00	0.00	15,990.60	32.50	488,055.80	627,124.00	32.341110	-103.921720
Nash Unit 403H SHL: - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	472,065.20	627,091.50	32.297154	-103.922024
Nash Unit 403H FTP: - plan misses target center by 69.23usft at 10464.47usft MD (10378.20 TVD, 271.13 N, 34.73 E) - Point	0.00	0.00	10,374.02	265.40	103.60	472,330.60	627,195.10	32.297882	-103.921685
Nash Unit 403H PBHL: - plan hits target center - Point	0.00	0.00	10,475.00	16,040.60	32.30	488,105.80	627,123.80	32.341247	-103.921720
Nash Unit 403H LP - Pla - plan hits target center - Point	0.00	0.01	10,485.00	601.95	77.11	472,667.15	627,168.61	32.298808	-103.921766



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #403H
Company:	XTO Energy	TVD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 26' @ 3086.00usft (Patterson 225)
Site:	Nash Unit	North Reference:	Grid
Well:	#403H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	Dewey Lake		0.000	359.74	
41.00	41.00	Rustler		0.000	359.74	
236.00	236.00	B/ Rustler		0.000	359.74	
276.00	276.00	Salado Anh.		0.000	359.74	
385.00	385.00	T/ Salt		0.000	359.74	
3,138.00	3,138.00	B/ Salt		0.000	359.74	
3,330.00	3,330.00	Lamar Lm.		0.000	359.74	
3,357.00	3,357.00	Bell Canyon		0.000	359.74	
4,188.00	4,188.00	Cherry Canyon		0.000	359.74	
4,364.00	4,364.00	B/ Manzanita		0.000	359.74	
5,792.00	5,792.00	Brushy Canyon		0.000	359.74	
6,847.00	6,847.00	Badal Brushy Canyon		0.000	359.74	
7,090.00	7,090.00	BS Lime		0.000	359.74	
7,205.00	7,205.00	Avalon Ss		0.000	359.74	
7,284.00	7,284.00	BS U/ Avalon Lm.		0.000	359.74	
7,437.00	7,437.00	BS U/ Avalon Sh.		0.000	359.74	
7,551.00	7,551.00	BS L/ Avalon Lm.		0.000	359.74	
7,760.00	7,760.00	BS L/ Avalon Sh.		0.000	359.74	
8,079.00	8,079.00	1st BSS		0.000	359.74	
8,421.00	8,421.00	2nd BS Lime		0.000	359.74	
8,910.00	8,910.00	2nd BSS		0.000	359.74	
8,950.00	8,950.00	2nd BS A Ss.		0.000	359.74	
9,015.00	9,015.00	2nd BSS A/B Carb		0.000	359.74	
9,095.00	9,095.00	2nd BS B Ss		0.000	359.74	
9,252.00	9,252.00	3rd BS Lime		0.000	359.74	
10,007.12	10,005.00	3rd BS Ss		0.000	359.74	
10,231.23	10,209.00	3rd BS Ss War Wink		0.000	359.74	
10,362.68	10,312.00	3rd Bs Ss Red Hills		0.000	359.74	
10,437.48	10,362.00	Wolfcamp Sh.		0.000	359.74	
10,537.99	10,417.00	Wolfcamp X Ss.		0.000	359.74	
10,668.14	10,465.00	Wolfcamp Y Ss		0.000	359.74	
10,712.77	10,475.00	TD		0.000	359.74	
10,818.75	10,485.00	LP		0.000	359.74	