

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.5. Lease Serial No.
NMNM0556863

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
891014168X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
NASH UNIT 205H

2. Name of Operator

XTO ENERGY INCORPORATED

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-015-46584-00-X1

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

10. Field and Pool or Exploratory Area
FORTY NINER RIDGE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T23S R30E NENW 170FNL 2175FWL
32.297264 N Lat, 103.922615 W Lon

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

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #507025 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 (20PP1631SE)**

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 ALLISON MORENCY

Title PETROLEUM ENGINEER

Date 03/20/2020

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 ****

Accepted for Record 03/30/2020 - Kurt Simmons NMOC

Additional data for EC transaction #507025 that would not fit on the form

32. Additional remarks, continued

Attachments:

Updated C102 / C102 Supplement

Casing/Cement Design

Multibowl Diagram

Directional Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #507025

	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:	FORTY NINER RIDGE BS	FORTY NINER RIDGE
Well/Facility:	NASH UNIT 205H Sec 19 T23S R30E Mer NMP NENW 170FNL 2175FWL	NASH UNIT 205H Sec 19 T23S R30E NENW 170FNL 2175FWL 32.297264 N Lat, 103.922615 W Lon

Kardos, Kelly

From: amorency@blm.gov
Sent: Friday, March 20, 2020 9:50 AM
To: Kardos, Kelly
Subject: Well NASH UNIT 205H
Attachments: EC507025.pdf

Categories: External Sender

External Email - Think Before You Click

The sundry for Change to Original APD you submitted has been approved by the BLM. Your original Electronic Commerce (EC) transmission was assigned ID 507025. Please be sure to open and save all attachments to this message, since they contain important information.

03/20/20 - AM

All COAs still apply. More cement required for DV lead (rec 600 sacks)

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 30-015-46584		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name NASH UNIT			⁶ Well Number 205H
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		170	NORTH	2,175	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 		SHL (NAD83 NME) Y = 472,120.4 X = 668,244.3 LAT. = 32.297264 °N LONG. = 103.922612 °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 = 472,060.3 X = 627,061.8 LAT. = 32.297140 °N LONG. = 103.922120 °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. Signature: <u>Kelly Kardos</u> 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 2019123807		

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 205H
 Projected TD: 24965' MD / 8986' TVD
 SHL: 170' FNL & 2175' 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' – 8421'	9-5/8"	40	LTC	HCL-80	New	2.10	1.75	2.16
8-3/4"	0' – 24965'	5-1/2"	17	BTC	P-110	New	1.01	1.58	2.26

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: 1520 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: 3490 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 8421'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
8421' to 24965'	8-3/4"	Cut Brine / Polymer	9.8 - 10.1	29-32	NC - 20

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

XTO Energy Inc.

Nash Unit 205H

Projected TD: 24965' MD / 8986' TVD

SHL: 170' FNL & 2175' FWL , Section 19, T23S, R30E

BHL: 50' FNL & 2310' FWL , Section 6, T23S, R30E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	26'	Water
Top of Salt	385'	Water
Base of Salt	3138'	Water
Delaware	3330'	Water
Bell Canyon	3357'	Water/Oil/Gas
Cherry Canyon	4188'	Water/Oil/Gas
Brushy Canyon	5792'	Water/Oil/Gas
Basal Brushy Canyon	6847'	Water/Oil/Gas
Bone Spring Lm.	7284'	Water/Oil/Gas
1st Bone Spring Ss	8079'	Water/Oil/Gas
2nd Bone Spring Ss	8910'	Water/Oil/Gas
Target/Land Curve	8986'	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 18-5/8" inch casing @ 360' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8" inch casing at 3238' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 9-5/8" inch casing at 8421' and cemented 200' into the 13-3/8 inch casing. A 8-3/4" inch curve and lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 7921 feet) per Potash regulations.

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' – 8421'	9-5/8"	40	LTC	HCL-80	New	2.10	1.75	2.16
8-3/4"	0' – 24965'	5-1/2"	17	BTC	P-110	New	1.01	1.58	2.26

· 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.

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

· Test on 2M Annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Temporary Wellhead

· 18-5/8" SOW bottom x 21-1/4" 2M top flange.

· Permanent Wellhead – GE RSH Multibowl System

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

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

· Wellhead will be installed by manufacturer's representatives.

· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

· Operator will test the 9-5/8" casing per BLM Onshore Order 2

· Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New H-40, STC casing to be set at +/- 360'

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

Top of Cement: Surface

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: 13-3/8", 68 New J-55, STC casing to be set at +/- 3238'

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

Top of Cement: Surface

2nd Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 8421'
ECP/DV Tool to be set at 3338'

1st Stage

Lead: 1520 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

Top of Cement: 500' inside previous casing shoe

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 24965'

Tail: 3490 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water) Top of Cement: **7921 feet**
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 988 psi.

Once the permanent WH is installed on the 13-3/8" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2743 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 50% of the working pressure. When nipping up on the 13-3/8", 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M 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 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 intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

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 8421'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
8421' to 24965'	8-3/4"	Cut Brine / Polymer	9.8 - 10.1	29-32	NC - 20

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

Spud with fresh water/native mud. Drill out from under 18-5/8" surface casing with brine solution. A 9.8 ppg -10.2 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

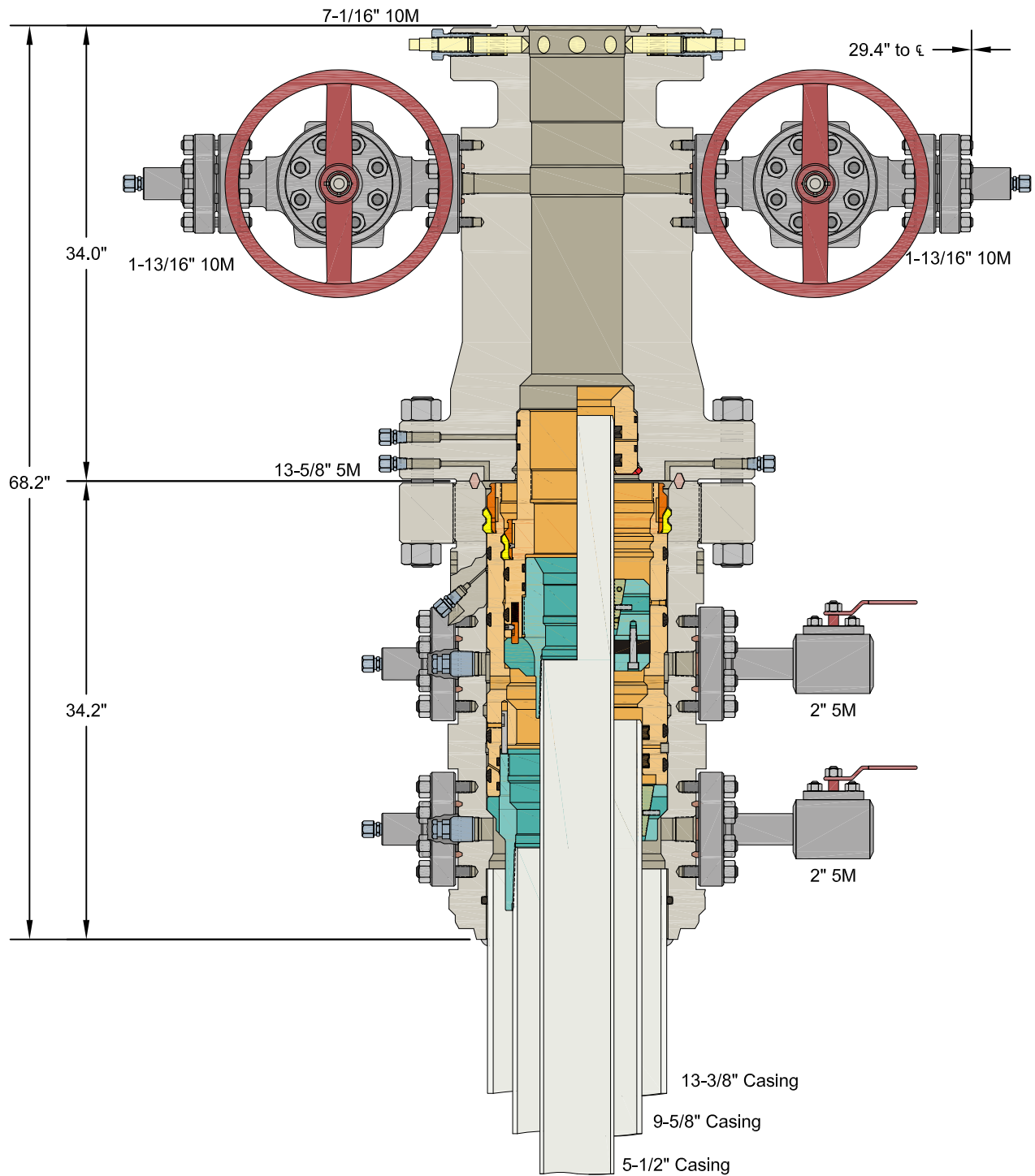
None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 4719 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

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

#205H

OH

Plan: Plan #1

Standard Planning Report

06 March, 2020





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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:	#205H	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	#205H					
Well Position	+N/-S	436.60 usft	Northing:	472,060.30 usft	Latitude:	32.297141
	+E/-W	-1,283.60 usft	Easting:	627,061.80 usft	Longitude:	-103.922120
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	47,651.97029118

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	24,965.02 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	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,254.58	2.32	145.88	2,254.53	-2.59	1.75	1.50	1.50	0.00	145.882	
8,071.24	2.32	145.88	8,066.44	-197.41	133.75	0.00	0.00	0.00	0.000	
8,225.82	0.00	0.00	8,220.97	-200.00	135.50	1.50	-1.50	0.00	180.000	
8,325.82	0.00	0.00	8,320.97	-200.00	135.50	0.00	0.00	0.00	0.000	
8,825.82	40.00	359.74	8,781.33	-32.44	134.74	8.00	8.00	0.00	359.740	
9,326.73	90.09	359.74	8,986.00	407.38	132.75	10.00	10.00	0.00	0.001	
24,965.03	90.09	359.74	8,961.00	16,045.50	62.00	0.00	0.00	0.00	0.000	Nash Unit 205H PBHI



Planning Report



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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:	#205H	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
Nash Unit 205H SHL:									
26.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
41.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00
Dewey Lake									
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	1.50	145.88	2,199.99	-1.08	0.73	-1.09	1.50	1.50	0.00
2,254.58	2.32	145.88	2,254.53	-2.59	1.75	-2.60	1.50	1.50	0.00
2,300.00	2.32	145.88	2,299.92	-4.11	2.78	-4.12	0.00	0.00	0.00
2,400.00	2.32	145.88	2,399.84	-7.46	5.05	-7.48	0.00	0.00	0.00
2,500.00	2.32	145.88	2,499.76	-10.81	7.32	-10.84	0.00	0.00	0.00
2,600.00	2.32	145.88	2,599.68	-14.16	9.59	-14.20	0.00	0.00	0.00
2,700.00	2.32	145.88	2,699.59	-17.51	11.86	-17.56	0.00	0.00	0.00
2,800.00	2.32	145.88	2,799.51	-20.86	14.13	-20.92	0.00	0.00	0.00
2,900.00	2.32	145.88	2,899.43	-24.21	16.40	-24.28	0.00	0.00	0.00
3,000.00	2.32	145.88	2,999.35	-27.56	18.67	-27.64	0.00	0.00	0.00
3,100.00	2.32	145.88	3,099.27	-30.91	20.94	-31.00	0.00	0.00	0.00
3,138.77	2.32	145.88	3,138.00	-32.20	21.82	-32.30	0.00	0.00	0.00
B/ Salt									
3,200.00	2.32	145.88	3,199.18	-34.25	23.21	-34.36	0.00	0.00	0.00
3,300.00	2.32	145.88	3,299.10	-37.60	25.48	-37.72	0.00	0.00	0.00
3,330.92	2.32	145.88	3,330.00	-38.64	26.18	-38.76	0.00	0.00	0.00
Lamar Lm.									
3,357.95	2.32	145.88	3,357.00	-39.55	26.79	-39.67	0.00	0.00	0.00
Bell Canyon									
3,400.00	2.32	145.88	3,399.02	-40.95	27.75	-41.08	0.00	0.00	0.00



Planning Report



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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:	#205H	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)	
3,500.00	2.32	145.88	3,498.94	-44.30	30.02	-44.44	0.00	0.00	0.00	
3,600.00	2.32	145.88	3,598.86	-47.65	32.28	-47.80	0.00	0.00	0.00	
3,700.00	2.32	145.88	3,698.77	-51.00	34.55	-51.16	0.00	0.00	0.00	
3,800.00	2.32	145.88	3,798.69	-54.35	36.82	-54.52	0.00	0.00	0.00	
3,900.00	2.32	145.88	3,898.61	-57.70	39.09	-57.88	0.00	0.00	0.00	
4,000.00	2.32	145.88	3,998.53	-61.05	41.36	-61.24	0.00	0.00	0.00	
4,100.00	2.32	145.88	4,098.45	-64.40	43.63	-64.60	0.00	0.00	0.00	
4,189.63	2.32	145.88	4,188.00	-67.40	45.66	-67.61	0.00	0.00	0.00	
Cherry Canyon										
4,200.00	2.32	145.88	4,198.37	-67.75	45.90	-67.96	0.00	0.00	0.00	
4,300.00	2.32	145.88	4,298.28	-71.10	48.17	-71.32	0.00	0.00	0.00	
4,365.77	2.32	145.88	4,364.00	-73.30	49.66	-73.53	0.00	0.00	0.00	
B/ Manzanita										
4,400.00	2.32	145.88	4,398.20	-74.45	50.44	-74.68	0.00	0.00	0.00	
4,500.00	2.32	145.88	4,498.12	-77.80	52.71	-78.04	0.00	0.00	0.00	
4,600.00	2.32	145.88	4,598.04	-81.15	54.98	-81.39	0.00	0.00	0.00	
4,700.00	2.32	145.88	4,697.96	-84.50	57.25	-84.75	0.00	0.00	0.00	
4,800.00	2.32	145.88	4,797.87	-87.84	59.51	-88.11	0.00	0.00	0.00	
4,900.00	2.32	145.88	4,897.79	-91.19	61.78	-91.47	0.00	0.00	0.00	
5,000.00	2.32	145.88	4,997.71	-94.54	64.05	-94.83	0.00	0.00	0.00	
5,100.00	2.32	145.88	5,097.63	-97.89	66.32	-98.19	0.00	0.00	0.00	
5,200.00	2.32	145.88	5,197.55	-101.24	68.59	-101.55	0.00	0.00	0.00	
5,300.00	2.32	145.88	5,297.46	-104.59	70.86	-104.91	0.00	0.00	0.00	
5,400.00	2.32	145.88	5,397.38	-107.94	73.13	-108.27	0.00	0.00	0.00	
5,500.00	2.32	145.88	5,497.30	-111.29	75.40	-111.63	0.00	0.00	0.00	
5,600.00	2.32	145.88	5,597.22	-114.64	77.67	-114.99	0.00	0.00	0.00	
5,700.00	2.32	145.88	5,697.14	-117.99	79.94	-118.35	0.00	0.00	0.00	
5,794.94	2.32	145.88	5,792.00	-121.17	82.09	-121.54	0.00	0.00	0.00	
Brushy Canyon										
5,800.00	2.32	145.88	5,797.06	-121.34	82.21	-121.71	0.00	0.00	0.00	
5,900.00	2.32	145.88	5,896.97	-124.69	84.48	-125.07	0.00	0.00	0.00	
6,000.00	2.32	145.88	5,996.89	-128.04	86.75	-128.43	0.00	0.00	0.00	
6,100.00	2.32	145.88	6,096.81	-131.39	89.01	-131.79	0.00	0.00	0.00	
6,200.00	2.32	145.88	6,196.73	-134.74	91.28	-135.15	0.00	0.00	0.00	
6,300.00	2.32	145.88	6,296.65	-138.09	93.55	-138.51	0.00	0.00	0.00	
6,400.00	2.32	145.88	6,396.56	-141.43	95.82	-141.87	0.00	0.00	0.00	
6,500.00	2.32	145.88	6,496.48	-144.78	98.09	-145.23	0.00	0.00	0.00	
6,600.00	2.32	145.88	6,596.40	-148.13	100.36	-148.59	0.00	0.00	0.00	
6,700.00	2.32	145.88	6,696.32	-151.48	102.63	-151.95	0.00	0.00	0.00	
6,800.00	2.32	145.88	6,796.24	-154.83	104.90	-155.31	0.00	0.00	0.00	
6,850.81	2.32	145.88	6,847.00	-156.53	106.05	-157.01	0.00	0.00	0.00	
Badal Brushy Canyon										
6,900.00	2.32	145.88	6,896.15	-158.18	107.17	-158.67	0.00	0.00	0.00	
7,000.00	2.32	145.88	6,996.07	-161.53	109.44	-162.03	0.00	0.00	0.00	
7,094.00	2.32	145.88	7,090.00	-164.68	111.57	-165.18	0.00	0.00	0.00	
BS Lime										
7,100.00	2.32	145.88	7,095.99	-164.88	111.71	-165.39	0.00	0.00	0.00	
7,200.00	2.32	145.88	7,195.91	-168.23	113.98	-168.75	0.00	0.00	0.00	
7,209.10	2.32	145.88	7,205.00	-168.53	114.18	-169.05	0.00	0.00	0.00	
Avalon Ss										
7,288.16	2.32	145.88	7,284.00	-171.18	115.98	-171.71	0.00	0.00	0.00	
BS U/ Avalon Lm.										
7,300.00	2.32	145.88	7,295.83	-171.58	116.24	-172.10	0.00	0.00	0.00	



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Site:	Nash Unit	North Reference:	Grid
Well:	#205H	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)	
7,400.00	2.32	145.88	7,395.75	-174.93	118.51	-175.46	0.00	0.00	0.00	
7,441.29	2.32	145.88	7,437.00	-176.31	119.45	-176.85	0.00	0.00	0.00	
BS U/ Avalon Sh.										
7,500.00	2.32	145.88	7,495.66	-178.28	120.78	-178.82	0.00	0.00	0.00	
7,555.38	2.32	145.88	7,551.00	-180.13	122.04	-180.68	0.00	0.00	0.00	
BS L/ Avalon Lm.										
7,600.00	2.32	145.88	7,595.58	-181.63	123.05	-182.18	0.00	0.00	0.00	
7,700.00	2.32	145.88	7,695.50	-184.98	125.32	-185.54	0.00	0.00	0.00	
7,764.55	2.32	145.88	7,760.00	-187.14	126.79	-187.71	0.00	0.00	0.00	
BS L/ Avalon Sh.										
7,800.00	2.32	145.88	7,795.42	-188.33	127.59	-188.90	0.00	0.00	0.00	
7,900.00	2.32	145.88	7,895.34	-191.68	129.86	-192.26	0.00	0.00	0.00	
8,000.00	2.32	145.88	7,995.25	-195.02	132.13	-195.62	0.00	0.00	0.00	
8,071.24	2.32	145.88	8,066.44	-197.41	133.75	-198.02	0.00	0.00	0.00	
8,083.81	2.13	145.88	8,079.00	-197.81	134.02	-198.42	1.50	-1.50	0.00	
1st BSS										
8,100.00	1.89	145.88	8,095.18	-198.28	134.34	-198.89	1.50	-1.50	0.00	
8,200.00	0.39	145.88	8,195.15	-199.93	135.45	-200.54	1.50	-1.50	0.00	
8,225.82	0.00	0.00	8,220.97	-200.00	135.50	-200.61	1.50	-1.50	0.00	
8,300.00	0.00	0.00	8,295.15	-200.00	135.50	-200.61	0.00	0.00	0.00	
8,325.82	0.00	0.00	8,320.97	-200.00	135.50	-200.61	0.00	0.00	0.00	
8,350.00	1.93	359.74	8,345.15	-199.59	135.50	-200.20	8.00	8.00	0.00	
8,400.00	5.93	359.74	8,395.02	-196.16	135.48	-196.77	8.00	8.00	0.00	
8,426.17	8.03	359.74	8,421.00	-192.98	135.47	-193.59	8.00	8.00	0.00	
2nd BS Lime										
8,450.00	9.93	359.74	8,444.53	-189.26	135.45	-189.87	8.00	8.00	0.00	
8,500.00	13.93	359.74	8,493.44	-178.92	135.40	-179.54	8.00	8.00	0.00	
8,550.00	17.93	359.74	8,541.51	-165.20	135.34	-165.81	8.00	8.00	0.00	
8,600.00	21.93	359.74	8,588.51	-148.16	135.26	-148.77	8.00	8.00	0.00	
8,650.00	25.93	359.74	8,634.20	-127.87	135.17	-128.49	8.00	8.00	0.00	
8,700.00	29.93	359.74	8,678.36	-104.46	135.07	-105.07	8.00	8.00	0.00	
8,750.00	33.93	359.74	8,720.79	-78.01	134.95	-78.63	8.00	8.00	0.00	
8,800.00	37.93	359.74	8,761.26	-48.68	134.81	-49.29	8.00	8.00	0.00	
8,825.82	40.00	359.74	8,781.33	-32.44	134.74	-33.05	8.00	8.00	0.00	
8,850.00	42.42	359.74	8,799.52	-16.51	134.67	-17.12	10.00	10.00	0.00	
8,900.00	47.42	359.74	8,834.92	18.78	134.51	18.17	10.00	10.00	0.00	
8,950.00	52.42	359.74	8,867.10	57.03	134.33	56.41	10.00	10.00	0.00	
9,000.00	57.42	359.74	8,895.83	97.93	134.15	97.32	10.00	10.00	0.00	
9,027.34	60.15	359.74	8,910.00	121.31	134.04	120.70	10.00	10.00	0.00	
2nd BSS										
9,050.00	62.42	359.74	8,920.88	141.18	133.95	140.57	10.00	10.00	0.00	
9,100.00	67.42	359.74	8,942.07	186.45	133.75	185.84	10.00	10.00	0.00	
9,121.63	69.58	359.74	8,950.00	206.57	133.66	205.97	10.00	10.00	0.00	
2nd BS A Ss.										
9,150.00	72.42	359.74	8,959.24	233.40	133.53	232.79	10.00	10.00	0.00	
9,155.94	73.01	359.74	8,961.00	239.07	133.51	238.46	10.00	10.00	0.00	
TD										
9,192.53	76.67	359.74	8,970.57	274.38	133.35	273.77	10.00	10.00	0.00	
Nash Unit 205H FTP:										
9,200.00	77.42	359.74	8,972.24	281.66	133.32	281.05	10.00	10.00	0.00	
9,250.00	82.42	359.74	8,980.99	330.87	133.09	330.26	10.00	10.00	0.00	
9,300.00	87.42	359.74	8,985.42	380.66	132.87	380.05	10.00	10.00	0.00	
9,325.65	90.09	359.74	8,986.00	406.30	132.75	405.69	10.42	10.42	0.00	



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)
LP									
9,326.73	90.09	359.74	8,986.00	407.38	132.75	406.77	0.00	0.00	0.00
9,400.00	90.09	359.74	8,985.88	480.65	132.42	480.04	0.00	0.00	0.00
9,500.00	90.09	359.74	8,985.72	580.65	131.96	580.04	0.00	0.00	0.00
9,600.00	90.09	359.74	8,985.56	680.64	131.51	680.04	0.00	0.00	0.00
9,700.00	90.09	359.74	8,985.40	780.64	131.06	780.04	0.00	0.00	0.00
9,800.00	90.09	359.74	8,985.24	880.64	130.61	880.04	0.00	0.00	0.00
9,900.00	90.09	359.74	8,985.08	980.64	130.15	980.04	0.00	0.00	0.00
10,000.00	90.09	359.74	8,984.92	1,080.64	129.70	1,080.04	0.00	0.00	0.00
10,100.00	90.09	359.74	8,984.76	1,180.64	129.25	1,180.04	0.00	0.00	0.00
10,200.00	90.09	359.74	8,984.60	1,280.64	128.80	1,280.04	0.00	0.00	0.00
10,300.00	90.09	359.74	8,984.44	1,380.64	128.34	1,380.04	0.00	0.00	0.00
10,400.00	90.09	359.74	8,984.28	1,480.64	127.89	1,480.04	0.00	0.00	0.00
10,500.00	90.09	359.74	8,984.12	1,580.63	127.44	1,580.04	0.00	0.00	0.00
10,600.00	90.09	359.74	8,983.96	1,680.63	126.99	1,680.04	0.00	0.00	0.00
10,700.00	90.09	359.74	8,983.80	1,780.63	126.53	1,780.04	0.00	0.00	0.00
10,800.00	90.09	359.74	8,983.64	1,880.63	126.08	1,880.04	0.00	0.00	0.00
10,900.00	90.09	359.74	8,983.48	1,980.63	125.63	1,980.04	0.00	0.00	0.00
11,000.00	90.09	359.74	8,983.32	2,080.63	125.18	2,080.04	0.00	0.00	0.00
11,100.00	90.09	359.74	8,983.16	2,180.63	124.73	2,180.04	0.00	0.00	0.00
11,200.00	90.09	359.74	8,983.00	2,280.63	124.27	2,280.04	0.00	0.00	0.00
11,300.00	90.09	359.74	8,982.84	2,380.62	123.82	2,380.04	0.00	0.00	0.00
11,400.00	90.09	359.74	8,982.68	2,480.62	123.37	2,480.04	0.00	0.00	0.00
11,500.00	90.09	359.74	8,982.52	2,580.62	122.92	2,580.04	0.00	0.00	0.00
11,600.00	90.09	359.74	8,982.36	2,680.62	122.46	2,680.04	0.00	0.00	0.00
11,700.00	90.09	359.74	8,982.20	2,780.62	122.01	2,780.04	0.00	0.00	0.00
11,800.00	90.09	359.74	8,982.04	2,880.62	121.56	2,880.04	0.00	0.00	0.00
11,900.00	90.09	359.74	8,981.89	2,980.62	121.11	2,980.04	0.00	0.00	0.00
12,000.00	90.09	359.74	8,981.73	3,080.62	120.65	3,080.04	0.00	0.00	0.00
12,100.00	90.09	359.74	8,981.57	3,180.62	120.20	3,180.04	0.00	0.00	0.00
12,200.00	90.09	359.74	8,981.41	3,280.61	119.75	3,280.04	0.00	0.00	0.00
12,300.00	90.09	359.74	8,981.25	3,380.61	119.30	3,380.04	0.00	0.00	0.00
12,400.00	90.09	359.74	8,981.09	3,480.61	118.84	3,480.04	0.00	0.00	0.00
12,500.00	90.09	359.74	8,980.93	3,580.61	118.39	3,580.04	0.00	0.00	0.00
12,600.00	90.09	359.74	8,980.77	3,680.61	117.94	3,680.04	0.00	0.00	0.00
12,700.00	90.09	359.74	8,980.61	3,780.61	117.49	3,780.04	0.00	0.00	0.00
12,800.00	90.09	359.74	8,980.45	3,880.61	117.03	3,880.04	0.00	0.00	0.00
12,900.00	90.09	359.74	8,980.29	3,980.61	116.58	3,980.04	0.00	0.00	0.00
13,000.00	90.09	359.74	8,980.13	4,080.61	116.13	4,080.04	0.00	0.00	0.00
13,100.00	90.09	359.74	8,979.97	4,180.60	115.68	4,180.04	0.00	0.00	0.00
13,200.00	90.09	359.74	8,979.81	4,280.60	115.22	4,280.04	0.00	0.00	0.00
13,300.00	90.09	359.74	8,979.65	4,380.60	114.77	4,380.04	0.00	0.00	0.00
13,400.00	90.09	359.74	8,979.49	4,480.60	114.32	4,480.04	0.00	0.00	0.00
13,500.00	90.09	359.74	8,979.33	4,580.60	113.87	4,580.04	0.00	0.00	0.00
13,600.00	90.09	359.74	8,979.17	4,680.60	113.42	4,680.04	0.00	0.00	0.00
13,700.00	90.09	359.74	8,979.01	4,780.60	112.96	4,780.04	0.00	0.00	0.00
13,800.00	90.09	359.74	8,978.85	4,880.60	112.51	4,880.04	0.00	0.00	0.00
13,900.00	90.09	359.74	8,978.69	4,980.59	112.06	4,980.04	0.00	0.00	0.00
14,000.00	90.09	359.74	8,978.53	5,080.59	111.61	5,080.03	0.00	0.00	0.00
14,100.00	90.09	359.74	8,978.37	5,180.59	111.15	5,180.03	0.00	0.00	0.00
14,200.00	90.09	359.74	8,978.21	5,280.59	110.70	5,280.03	0.00	0.00	0.00
14,300.00	90.09	359.74	8,978.05	5,380.59	110.25	5,380.03	0.00	0.00	0.00
14,400.00	90.09	359.74	8,977.89	5,480.59	109.80	5,480.03	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)
14,500.00	90.09	359.74	8,977.73	5,580.59	109.34	5,580.03	0.00	0.00	0.00
14,600.00	90.09	359.74	8,977.57	5,680.59	108.89	5,680.03	0.00	0.00	0.00
14,700.00	90.09	359.74	8,977.41	5,780.59	108.44	5,780.03	0.00	0.00	0.00
14,800.00	90.09	359.74	8,977.25	5,880.58	107.99	5,880.03	0.00	0.00	0.00
14,900.00	90.09	359.74	8,977.09	5,980.58	107.53	5,980.03	0.00	0.00	0.00
15,000.00	90.09	359.74	8,976.93	6,080.58	107.08	6,080.03	0.00	0.00	0.00
15,100.00	90.09	359.74	8,976.77	6,180.58	106.63	6,180.03	0.00	0.00	0.00
15,200.00	90.09	359.74	8,976.61	6,280.58	106.18	6,280.03	0.00	0.00	0.00
15,300.00	90.09	359.74	8,976.45	6,380.58	105.72	6,380.03	0.00	0.00	0.00
15,400.00	90.09	359.74	8,976.29	6,480.58	105.27	6,480.03	0.00	0.00	0.00
15,500.00	90.09	359.74	8,976.13	6,580.58	104.82	6,580.03	0.00	0.00	0.00
15,600.00	90.09	359.74	8,975.97	6,680.58	104.37	6,680.03	0.00	0.00	0.00
15,700.00	90.09	359.74	8,975.81	6,780.57	103.91	6,780.03	0.00	0.00	0.00
15,800.00	90.09	359.74	8,975.65	6,880.57	103.46	6,880.03	0.00	0.00	0.00
15,900.00	90.09	359.74	8,975.49	6,980.57	103.01	6,980.03	0.00	0.00	0.00
16,000.00	90.09	359.74	8,975.33	7,080.57	102.56	7,080.03	0.00	0.00	0.00
16,100.00	90.09	359.74	8,975.17	7,180.57	102.11	7,180.03	0.00	0.00	0.00
16,200.00	90.09	359.74	8,975.01	7,280.57	101.65	7,280.03	0.00	0.00	0.00
16,300.00	90.09	359.74	8,974.85	7,380.57	101.20	7,380.03	0.00	0.00	0.00
16,400.00	90.09	359.74	8,974.69	7,480.57	100.75	7,480.03	0.00	0.00	0.00
16,500.00	90.09	359.74	8,974.53	7,580.56	100.30	7,580.03	0.00	0.00	0.00
16,600.00	90.09	359.74	8,974.37	7,680.56	99.84	7,680.03	0.00	0.00	0.00
16,700.00	90.09	359.74	8,974.21	7,780.56	99.39	7,780.03	0.00	0.00	0.00
16,800.00	90.09	359.74	8,974.05	7,880.56	98.94	7,880.03	0.00	0.00	0.00
16,900.00	90.09	359.74	8,973.89	7,980.56	98.49	7,980.03	0.00	0.00	0.00
17,000.00	90.09	359.74	8,973.73	8,080.56	98.03	8,080.03	0.00	0.00	0.00
17,100.00	90.09	359.74	8,973.57	8,180.56	97.58	8,180.03	0.00	0.00	0.00
17,200.00	90.09	359.74	8,973.41	8,280.56	97.13	8,280.03	0.00	0.00	0.00
17,300.00	90.09	359.74	8,973.25	8,380.56	96.68	8,380.03	0.00	0.00	0.00
17,400.00	90.09	359.74	8,973.09	8,480.55	96.22	8,480.03	0.00	0.00	0.00
17,500.00	90.09	359.74	8,972.93	8,580.55	95.77	8,580.03	0.00	0.00	0.00
17,600.00	90.09	359.74	8,972.77	8,680.55	95.32	8,680.03	0.00	0.00	0.00
17,700.00	90.09	359.74	8,972.61	8,780.55	94.87	8,780.03	0.00	0.00	0.00
17,800.00	90.09	359.74	8,972.45	8,880.55	94.41	8,880.03	0.00	0.00	0.00
17,900.00	90.09	359.74	8,972.29	8,980.55	93.96	8,980.03	0.00	0.00	0.00
18,000.00	90.09	359.74	8,972.13	9,080.55	93.51	9,080.03	0.00	0.00	0.00
18,100.00	90.09	359.74	8,971.97	9,180.55	93.06	9,180.03	0.00	0.00	0.00
18,200.00	90.09	359.74	8,971.81	9,280.55	92.60	9,280.03	0.00	0.00	0.00
18,300.00	90.09	359.74	8,971.65	9,380.54	92.15	9,380.03	0.00	0.00	0.00
18,400.00	90.09	359.74	8,971.49	9,480.54	91.70	9,480.03	0.00	0.00	0.00
18,500.00	90.09	359.74	8,971.33	9,580.54	91.25	9,580.03	0.00	0.00	0.00
18,600.00	90.09	359.74	8,971.17	9,680.54	90.80	9,680.03	0.00	0.00	0.00
18,700.00	90.09	359.74	8,971.02	9,780.54	90.34	9,780.03	0.00	0.00	0.00
18,800.00	90.09	359.74	8,970.86	9,880.54	89.89	9,880.03	0.00	0.00	0.00
18,900.00	90.09	359.74	8,970.70	9,980.54	89.44	9,980.03	0.00	0.00	0.00
19,000.00	90.09	359.74	8,970.54	10,080.54	88.99	10,080.03	0.00	0.00	0.00
19,100.00	90.09	359.74	8,970.38	10,180.54	88.53	10,180.03	0.00	0.00	0.00
19,200.00	90.09	359.74	8,970.22	10,280.53	88.08	10,280.03	0.00	0.00	0.00
19,300.00	90.09	359.74	8,970.06	10,380.53	87.63	10,380.03	0.00	0.00	0.00
19,400.00	90.09	359.74	8,969.90	10,480.53	87.18	10,480.03	0.00	0.00	0.00
19,500.00	90.09	359.74	8,969.74	10,580.53	86.72	10,580.03	0.00	0.00	0.00
19,600.00	90.09	359.74	8,969.58	10,680.53	86.27	10,680.03	0.00	0.00	0.00
19,700.00	90.09	359.74	8,969.42	10,780.53	85.82	10,780.03	0.00	0.00	0.00
19,800.00	90.09	359.74	8,969.26	10,880.53	85.37	10,880.03	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)
19,900.00	90.09	359.74	8,969.10	10,980.53	84.91	10,980.03	0.00	0.00	0.00
20,000.00	90.09	359.74	8,968.94	11,080.52	84.46	11,080.03	0.00	0.00	0.00
20,100.00	90.09	359.74	8,968.78	11,180.52	84.01	11,180.03	0.00	0.00	0.00
20,200.00	90.09	359.74	8,968.62	11,280.52	83.56	11,280.03	0.00	0.00	0.00
20,300.00	90.09	359.74	8,968.46	11,380.52	83.10	11,380.03	0.00	0.00	0.00
20,400.00	90.09	359.74	8,968.30	11,480.52	82.65	11,480.03	0.00	0.00	0.00
20,500.00	90.09	359.74	8,968.14	11,580.52	82.20	11,580.03	0.00	0.00	0.00
20,600.00	90.09	359.74	8,967.98	11,680.52	81.75	11,680.03	0.00	0.00	0.00
20,700.00	90.09	359.74	8,967.82	11,780.52	81.29	11,780.03	0.00	0.00	0.00
20,800.00	90.09	359.74	8,967.66	11,880.52	80.84	11,880.03	0.00	0.00	0.00
20,900.00	90.09	359.74	8,967.50	11,980.51	80.39	11,980.03	0.00	0.00	0.00
21,000.00	90.09	359.74	8,967.34	12,080.51	79.94	12,080.03	0.00	0.00	0.00
21,100.00	90.09	359.74	8,967.18	12,180.51	79.49	12,180.03	0.00	0.00	0.00
21,200.00	90.09	359.74	8,967.02	12,280.51	79.03	12,280.03	0.00	0.00	0.00
21,300.00	90.09	359.74	8,966.86	12,380.51	78.58	12,380.03	0.00	0.00	0.00
21,400.00	90.09	359.74	8,966.70	12,480.51	78.13	12,480.03	0.00	0.00	0.00
21,500.00	90.09	359.74	8,966.54	12,580.51	77.68	12,580.03	0.00	0.00	0.00
21,600.00	90.09	359.74	8,966.38	12,680.51	77.22	12,680.03	0.00	0.00	0.00
21,700.00	90.09	359.74	8,966.22	12,780.51	76.77	12,780.03	0.00	0.00	0.00
21,800.00	90.09	359.74	8,966.06	12,880.50	76.32	12,880.03	0.00	0.00	0.00
21,900.00	90.09	359.74	8,965.90	12,980.50	75.87	12,980.03	0.00	0.00	0.00
22,000.00	90.09	359.74	8,965.74	13,080.50	75.41	13,080.02	0.00	0.00	0.00
22,100.00	90.09	359.74	8,965.58	13,180.50	74.96	13,180.02	0.00	0.00	0.00
22,200.00	90.09	359.74	8,965.42	13,280.50	74.51	13,280.02	0.00	0.00	0.00
22,300.00	90.09	359.74	8,965.26	13,380.50	74.06	13,380.02	0.00	0.00	0.00
22,400.00	90.09	359.74	8,965.10	13,480.50	73.60	13,480.02	0.00	0.00	0.00
22,500.00	90.09	359.74	8,964.94	13,580.50	73.15	13,580.02	0.00	0.00	0.00
22,600.00	90.09	359.74	8,964.78	13,680.49	72.70	13,680.02	0.00	0.00	0.00
22,700.00	90.09	359.74	8,964.62	13,780.49	72.25	13,780.02	0.00	0.00	0.00
22,800.00	90.09	359.74	8,964.46	13,880.49	71.79	13,880.02	0.00	0.00	0.00
22,900.00	90.09	359.74	8,964.30	13,980.49	71.34	13,980.02	0.00	0.00	0.00
23,000.00	90.09	359.74	8,964.14	14,080.49	70.89	14,080.02	0.00	0.00	0.00
23,100.00	90.09	359.74	8,963.98	14,180.49	70.44	14,180.02	0.00	0.00	0.00
23,200.00	90.09	359.74	8,963.82	14,280.49	69.98	14,280.02	0.00	0.00	0.00
23,300.00	90.09	359.74	8,963.66	14,380.49	69.53	14,380.02	0.00	0.00	0.00
23,400.00	90.09	359.74	8,963.50	14,480.49	69.08	14,480.02	0.00	0.00	0.00
23,500.00	90.09	359.74	8,963.34	14,580.48	68.63	14,580.02	0.00	0.00	0.00
23,600.00	90.09	359.74	8,963.18	14,680.48	68.18	14,680.02	0.00	0.00	0.00
23,700.00	90.09	359.74	8,963.02	14,780.48	67.72	14,780.02	0.00	0.00	0.00
23,800.00	90.09	359.74	8,962.86	14,880.48	67.27	14,880.02	0.00	0.00	0.00
23,900.00	90.09	359.74	8,962.70	14,980.48	66.82	14,980.02	0.00	0.00	0.00
24,000.00	90.09	359.74	8,962.54	15,080.48	66.37	15,080.02	0.00	0.00	0.00
24,100.00	90.09	359.74	8,962.38	15,180.48	65.91	15,180.02	0.00	0.00	0.00
24,200.00	90.09	359.74	8,962.22	15,280.48	65.46	15,280.02	0.00	0.00	0.00
24,300.00	90.09	359.74	8,962.06	15,380.48	65.01	15,380.02	0.00	0.00	0.00
24,400.00	90.09	359.74	8,961.90	15,480.47	64.56	15,480.02	0.00	0.00	0.00
24,500.00	90.09	359.74	8,961.74	15,580.47	64.10	15,580.02	0.00	0.00	0.00
24,600.00	90.09	359.74	8,961.58	15,680.47	63.65	15,680.02	0.00	0.00	0.00
24,700.00	90.09	359.74	8,961.42	15,780.47	63.20	15,780.02	0.00	0.00	0.00
24,800.00	90.09	359.74	8,961.26	15,880.47	62.75	15,880.02	0.00	0.00	0.00
24,900.00	90.09	359.74	8,961.10	15,980.47	62.29	15,980.02	0.00	0.00	0.00
Nash Unit 205H LTP:									
24,965.03	90.09	359.74	8,961.00	16,045.50	62.00	16,045.05	0.00	0.00	0.00
Nash Unit 205H PBHL:									



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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:	#205H	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)

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 205H SHL: - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	472,060.30	627,061.80	32.297141	-103.922120
Nash Unit 205H LTP: - plan misses target center by 8961.12usft at 24900.00usft MD (8961.10 TVD, 15980.47 N, 62.29 E) - Point	0.00	0.00	0.00	15,995.50	62.20	488,055.80	627,124.00	32.341110	-103.921720
Nash Unit 205H PBHL: - plan hits target center - Point	0.00	0.00	8,961.00	16,045.50	62.00	488,105.80	627,123.80	32.341247	-103.921720
Nash Unit 205H FTP: - plan misses target center by 15.96usft at 9192.53usft MD (8970.57 TVD, 274.38 N, 133.35 E) - Point	0.00	0.00	8,986.00	270.30	133.30	472,330.60	627,195.10	32.297882	-103.921685

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
26.00	26.00	Rustler		0.000		
41.00	41.00	Dewey Lake		0.000		
236.00	236.00	B/ Rustler		0.000		
276.00	276.00	Salado Anh.		0.000		
385.00	385.00	T/ Salt		0.000		
3,138.77	3,138.00	B/ Salt		0.000		
3,330.92	3,330.00	Lamar Lm.		0.000		
3,357.95	3,357.00	Bell Canyon		0.000		
4,189.63	4,188.00	Cherry Canyon		0.000		
4,365.77	4,364.00	B/ Manzanita		0.000		
5,794.94	5,792.00	Brushy Canyon		0.000		
6,850.81	6,847.00	Badal Brushy Canyon				
7,094.00	7,090.00	BS Lime		0.000		
7,209.10	7,205.00	Avalon Ss		0.000		
7,288.16	7,284.00	BS U/ Avalon Lm.		0.000		
7,441.29	7,437.00	BS U/ Avalon Sh.		0.000		
7,555.38	7,551.00	BS L/ Avalon Lm.		0.000		
7,764.55	7,760.00	BS L/ Avalon Sh.		0.000		
8,083.81	8,079.00	1st BSS		0.000		
8,426.17	8,421.00	2nd BS Lime		0.000		
9,027.34	8,910.00	2nd BSS		0.000		
9,121.63	8,950.00	2nd BS A Ss.		0.000		
9,155.94	8,961.00	TD		0.000		
9,325.65	8,986.00	LP		0.000		



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #205H
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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:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		