

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.
NMLC065705B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
MUY WAYNO 18 FEDERAL 123H9. API Well No.
30-015-44842-00-X110. Field and Pool or Exploratory Area
DELAWARE11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO ENERGY INCORPORATED

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

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

Sec 18 T25S R30E NESW 2310FSL 1930FWL
32.129177 N Lat, 103.923172 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

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

1. Change SHL fr/2310'FSL & 1930'FWL to 2310'FSL & 1175'FWL. SHL permitted on eastern most pad (Pad F) in slot 1 (west to east). Revised SHL will put the well in slot 3 on Pad E. No surface disturbance will occur with this change. See attached permitted vs proposed sheet.
2. Change BHL fr/200'FNL & 1650'FWL to 200'FNL & 1914'FWL
3. Drilling Program
4. Directional Plan

Attachments:
C102 & Supplements
Revised Pad Layout**NM OIL CONSERVATION**

ARTESIA DISTRICT

NOV 28 2018

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OK Per Bot Ballard 11-14-2018 Covered under DOI- BLM- NM P20-2018-028- EA. Same COA'S Apply No New Surface Disturbance

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

Electronic Submission #442751 verified by the BLM Well Information System

For XTO ENERGY INCORPORATED, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 11/06/2018 (19PP0331SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 11/06/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

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

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 ****

RWP 12-7-18

y

Additional data for EC transaction #442751 that would not fit on the form

32. Additional remarks, continued

Permitted vs Proposed Sheet
Drilling Program (BOP/CM/FH)
Directional Plan

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

NM OIL CONSERVATION
ARTESIA DISTRICT
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

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

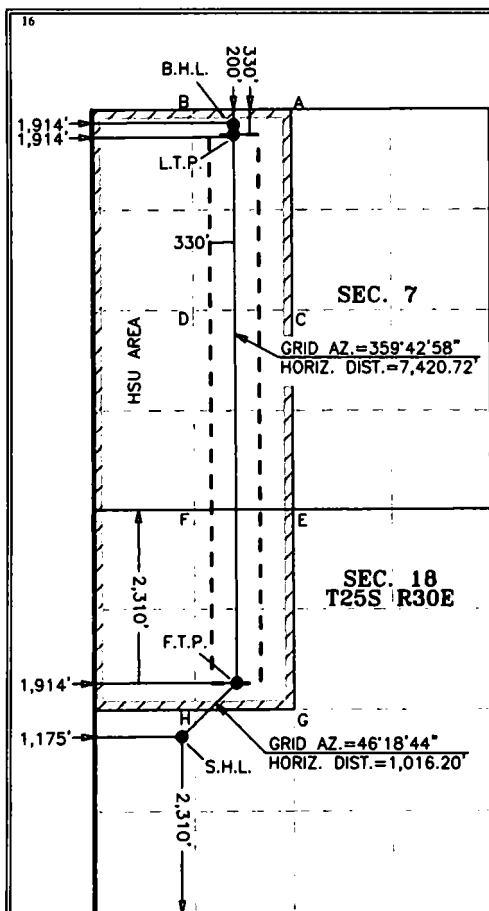
¹ API Number 30-015-44842		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP	
⁴ Property Code 321151		⁵ Property Name MUY WAYNO 18 FEDERAL			⁶ Well Number 123H
⁷ OGRID No. 5380		⁸ Operator Name XTO ENERGY INC.			⁹ Elevation 3,165'

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
✓ K	18	25 S	30 E		2,310	SOUTH	1,175	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
C	7	25 S	30 E		200	NORTH	1,914	WEST	EDDY

¹² Dedicated Acres 483.44	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.



GEODEIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 410,910.2
X= 626,365.9
LAT.= 32.129050°N
LONG.= 103.925123°W

GEODEIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 410,968.5
X= 667,550.5
LAT.= 32.129175°N
LONG.= 103.925608°W

FIRST TAKE POINT
NAD 27 NME
Y= 411,612.1
X= 627,100.9
LAT.= 32.130972°N
LONG.= 103.922740°W

FIRST TAKE POINT
NAD 83 NME
Y= 411,670.4
X= 668,285.5
LAT.= 32.131096°N
LONG.= 103.923225°W

CORNER COORDINATES TABLE
NAD 27 NME

A	Y= 419,236.3 N, X= 627,843.0 E
B	Y= 419,230.0 N, X= 626,505.6 E
C	Y= 416,584.3 N, X= 627,852.8 E
D	Y= 416,580.8 N, X= 626,517.9 E
E	Y= 413,925.0 N, X= 627,862.7 E
F	Y= 413,919.9 N, X= 626,527.4 E
G	Y= 411,266.7 N, X= 627,877.5 E
H	Y= 411,260.6 N, X= 626,542.4 E

CORNER COORDINATES TABLE
NAD 83 NME

A	Y= 419,294.7 N, X= 669,027.4 E
B	Y= 419,288.4 N, X= 667,690.0 E
C	Y= 416,642.7 N, X= 669,037.3 E
D	Y= 416,639.2 N, X= 667,702.4 E
E	Y= 413,983.3 N, X= 669,047.3 E
F	Y= 413,978.2 N, X= 667,712.0 E
G	Y= 411,325.0 N, X= 669,062.2 E
H	Y= 411,318.9 N, X= 667,727.0 E

LAST TAKE POINT
NAD 27 NME
Y= 418,902.6
X= 627,065.0
LAT.= 32.151014°N
LONG.= 103.922766°W

LAST TAKE POINT
NAD 83 NME
Y= 418,961.0
X= 668,249.4
LAT.= 32.151138°N
LONG.= 103.923252°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 419,032.6
X= 627,064.3
LAT.= 32.151371°N
LONG.= 103.922767°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 419,091.0
X= 668,248.7
LAT.= 32.151495°N
LONG.= 103.923252°W

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 11-6-18
Signature Date

Kelly Kardos
Printed Name

kelly_kardos@xtoenergy.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

07-23-2018
Date of Survey

Signature and Seal of Professional Surveyor:

[Signature]
MARK DILLON HARP 23786
Certificate Number



AW 2017060872

RW 12-7-18

NOV 28 2018

Intent ☒ As Drilled ☐

API #
30-015-44842

Operator Name: XTO Energy Inc.	Property Name: Muy Wayno 18 Federal	Well Number 123H
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RECEIVED

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	18	25S	30E	3	2310	South	1175	West	Eddy
Latitude 32.129175					Longitude -103.925608			NAD NAD83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	18	25S	30E		2310	North	1914	West	Eddy
Latitude 32.131096					Longitude -103.923225			NAD NAD83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	7	25S	30E		330	North	1914	West	Eddy
Latitude 32.151138					Longitude -103.923252			NAD NAD83	

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

Is this well an infill well? ☐ Y

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

API #
30-015-44838

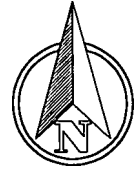
Operator Name: XTO ENERGY INC	Property Name: MUY WAYNO 18 FEDERAL	Well Number 102H
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KZ 06/29/2018

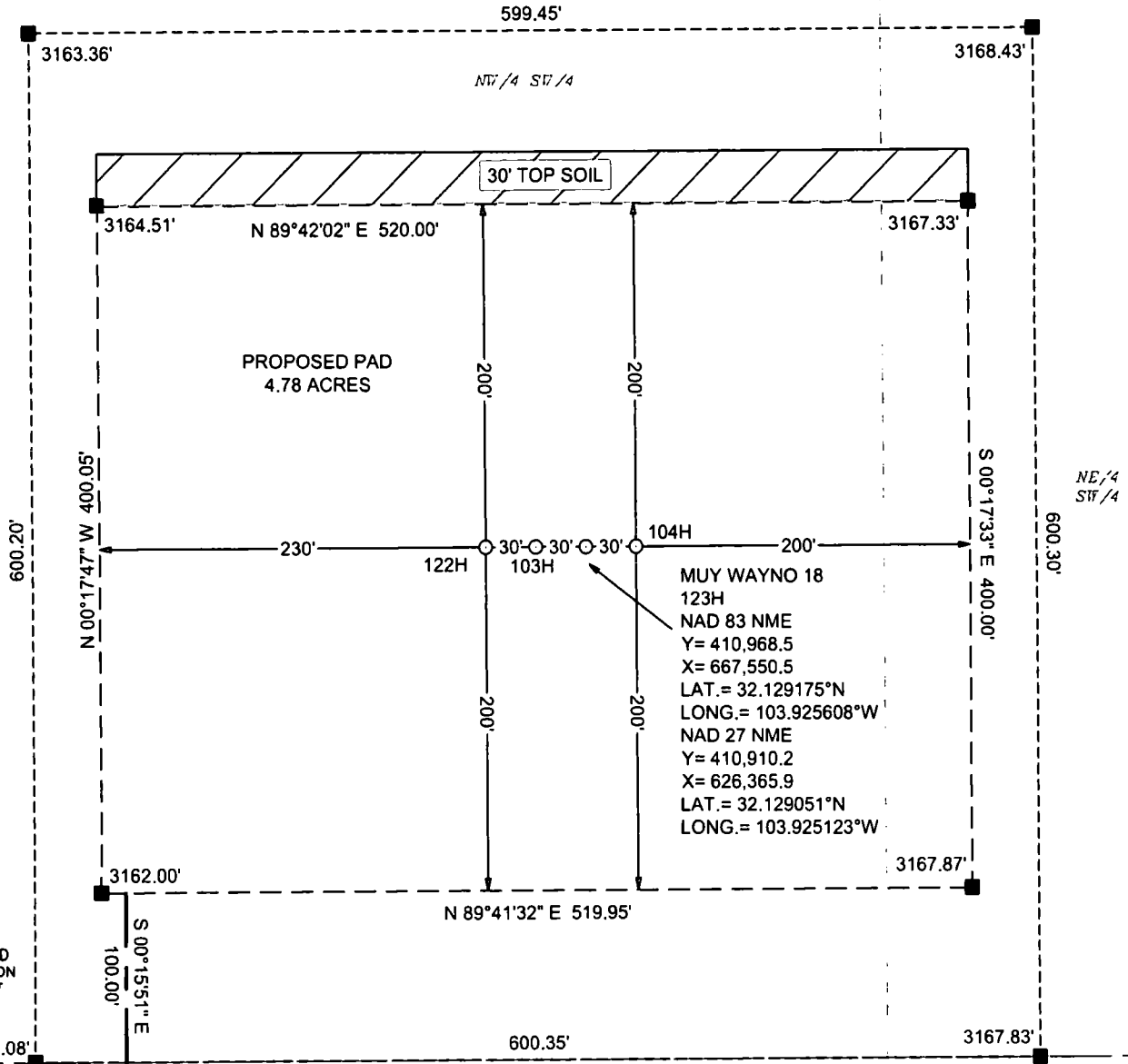
SECTION 18

TOWNSHIP 25 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

SW 1/4 NW 1/4



0 50' 100'
1" = 100 FEET



NOTE:

- 1). SEE "TOPOGRAPHICAL AND ACCESS ROAD
MAP" FOR PROPOSED ROAD LOCATION

LEGEND

--- PROPOSED PAD
--- PROPOSED ROAD

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 285 AND LONGHORN RD. GO NORTHEAST ON LONGHORN ROAD (PAVED). ROAD BEND SOUTHEAST AND BACK TO NORTHEAST APPROX. 4.25 MILES. TURN LEFT AND GO NORTHEAST ON PIPELINE ROAD #1 (GRAVEL) APPROX. 7.12 MILES. TURN LEFT ON ROCK DOVE RD. APPROX. 1.00 MILES. TURN LEFT ON EXISTING GRAVEL RD. APPROX. 1.00 MILE TO ANOTHER LEFT FOR APPROX. 0.35 MILES TO BEGINNING OF PROPOSED ROAD AND LOCATION IS TO THE SOUTHWEST.



550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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XTO ENERGY, INC.

WELL SITE PLAN

MUY WAYNO 18 123H

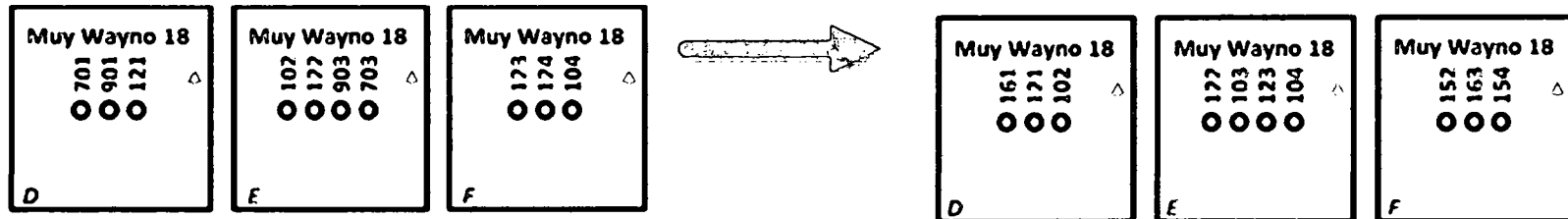
LOCATED 1,175 FEET FROM THE WEST LINE
AND 2,310 FEET FROM THE SOUTH LINE OF
SECTION 18, TOWNSHIP 25 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	7-16-2018	PROJECT NO:	2017060872
DRAWN BY:	JAR/AI/RS	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/RR	REVISION:	2

PERMITTED PLAN

SUNDRY CHANGES

API Number	Current Pad & Slot	Current Well Name	Permitted SHL	Proposed Pad & Slot	Well Name Change	Updated SHL	ULSTR
3001544844	D-1	MUY WAYNO 18 FEDERAL 701H	L-18-25S-30E (2310 FSL & 350 FWL)	D-1	MUY WAYNO 18 FEDERAL 161H	2310'FSL & 350'FWL	3-18-25S-30E
3001544846	D-2	MUY WAYNO 18 FEDERAL 901H	L-18-25S-30E (2310 FSL & 380 FWL)	E-2	MUY WAYNO 18 FEDERAL 103H	2310'FSL & 1145'FWL	3-18-25S-30E
3001544840	D-3	MUY WAYNO 18 FEDERAL 121H	L-18-25S-30E (2310 FSL & 410 FWL)	D-2	MUY WAYNO 18 FEDERAL 121H	2310'FSL & 380'FWL	3-18-25S-30E
3001544838	E-1	MUY WAYNO 18 FEDERAL 102H	L-18-25S-30E (2310 FSL & 1115 FWL)	D-3	MUY WAYNO 18 FEDERAL 102H	2310'FSL & 410'FWL	3-18-25S-30E
3001544841	E-2	MUY WAYNO 18 FEDERAL 122H	L-18-25S-30E (2310 FSL & 1145 FWL)	E-1	MUY WAYNO 18 FEDERAL 122H	2310'FSL & 1115'FWL	3-18-25S-30E
3001544847	E-3	MUY WAYNO 18 FEDERAL 903H	L-18-25S-30E (2310 FSL & 1175 FWL)	F-1	MUY WAYNO 18 FEDERAL 152H	2310'FSL & 1930'FWL	K-18-25S-30E
3001544845	E-4	MUY WAYNO 18 FEDERAL 703H	L-18-25S-30E (2310 FSL & 1205 FWL)	F-2	MUY WAYNO 18 FEDERAL 163H	2310'FSL & 1960'FWL	K-18-25S-30E
3001544842	F-1	MUY WAYNO 18 FEDERAL 123H	K-18-25S-30E (2310 FSL & 1930 FWL)	E-3	MUY WAYNO 18 FEDERAL 123H	2310'FSL & 1175'FWL	3-18-25S-30E
3001544843	F-2	MUY WAYNO 18 FEDERAL 124H	K-18-25S-30E (2310 FSL & 1960 FWL)	F-3	MUY WAYNO 18 FEDERAL 154H	2310'FSL & 1990'FWL	K-18-25S-30E
3001544839	F-3	MUY WAYNO 18 FEDERAL 104H	K-18-25S-30E (2310 FSL & 1990 FWL)	E-4	MUY WAYNO 18 FEDERAL 104H	2310'FSL & 1205'FWL	3-18-25S-30E



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

XTO Energy Inc.
Muy Wayno Federal 18 123H
Projected TD: 18627' MD / 10849' TVD
SHL: 2310' FSL & 1175' FWL , Section 18, T25S, R30E
BHL: 200' FNL & 1914' FWL , Section 7, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	720'	Water
Top of Salt	1035'	Water
Base of Salt	3307'	Water
Delaware	3490'	Water
Bone Spring	7218'	Water/Oil/Gas
1st Bone Spring Ss	8242'	Water/Oil/Gas
2nd Bone Spring Ss	9048'	Water/Oil/Gas
3rd Bone Spring Ss	10140'	Water/Oil/Gas
Wolfcamp	10541'	Water/Oil/Gas
Target/Land Curve	10849'	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 13-3/8 inch casing @ 840' (195' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3340' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 500' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 840'	13-3/8"	54.5	BTC	J-55	New	2.63	2.94	21.16
12-1/4"	0' – 3340'	9-5/8"	40	BTC	J-55	New	1.39	2.45	5.24
8-3/4"	0' – 10950'	7"	32	BTC	P-110	New	1.31	2.06	2.82
6"	10227' – 18627'	4-1/2"	13.5	BTC	P-110	New	1.31	2.77	2.26

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" & 4-1/2" Collapse analyzed using 50% evacuation based on regional experience.
- 4-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing to per Onshore Order 2.
- Wellhead manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, BTC casing to be set at +/- 840'

Lead: 400 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

Intermediate Casing: 9-5/8", 40 New J-55, BTC casing to be set at +/- 3340'

Lead: 940 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 Intermediate Casing: 7", 32 New P-110, BTC casing to be set at +/- 10950'

Lead: 1000 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 60 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: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 18627'

Tail: 710 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft3/sx, 8.38 gal/sx water)

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

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3819 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 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 9-5/8" and 7" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 840'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
840' to 3340'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3340' to 10950'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
10950' to 18627'	6-1/8"	FW / Cut Brine / Polymer	10.7-11	32-50	20-Aug

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 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg 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.

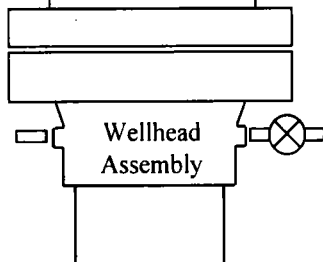
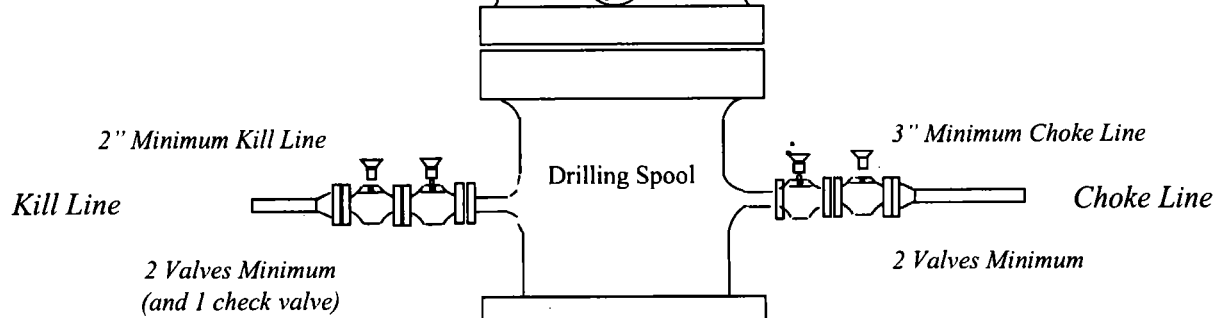
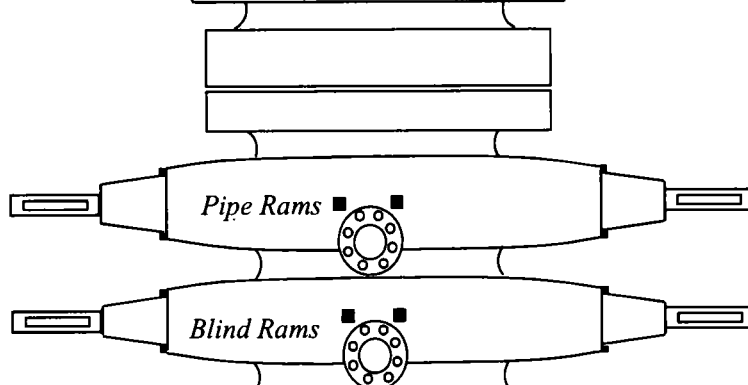
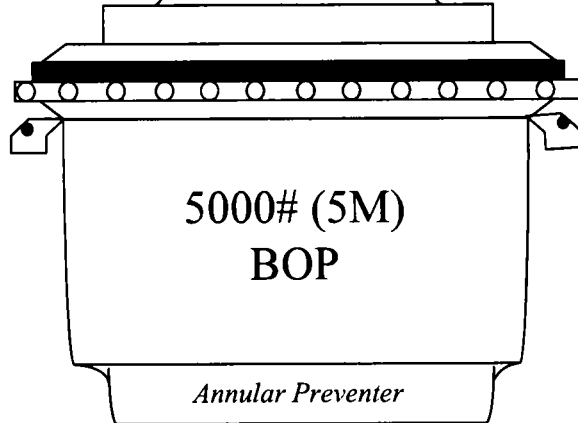
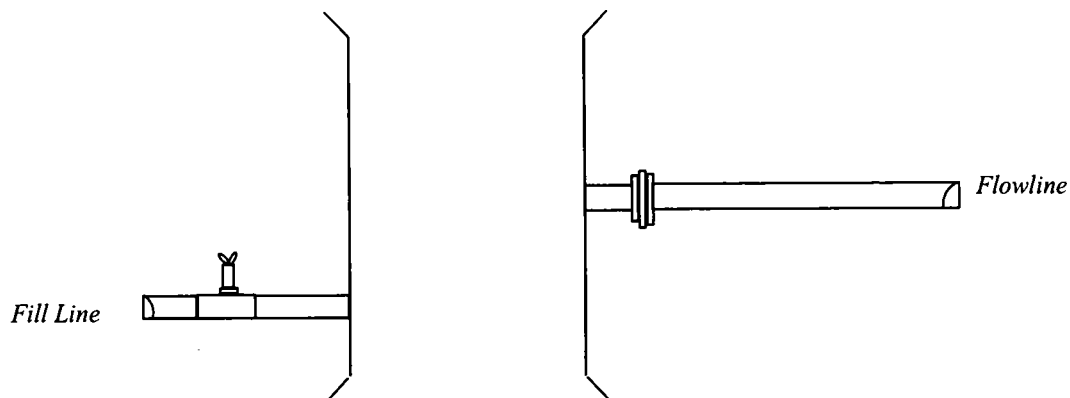
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

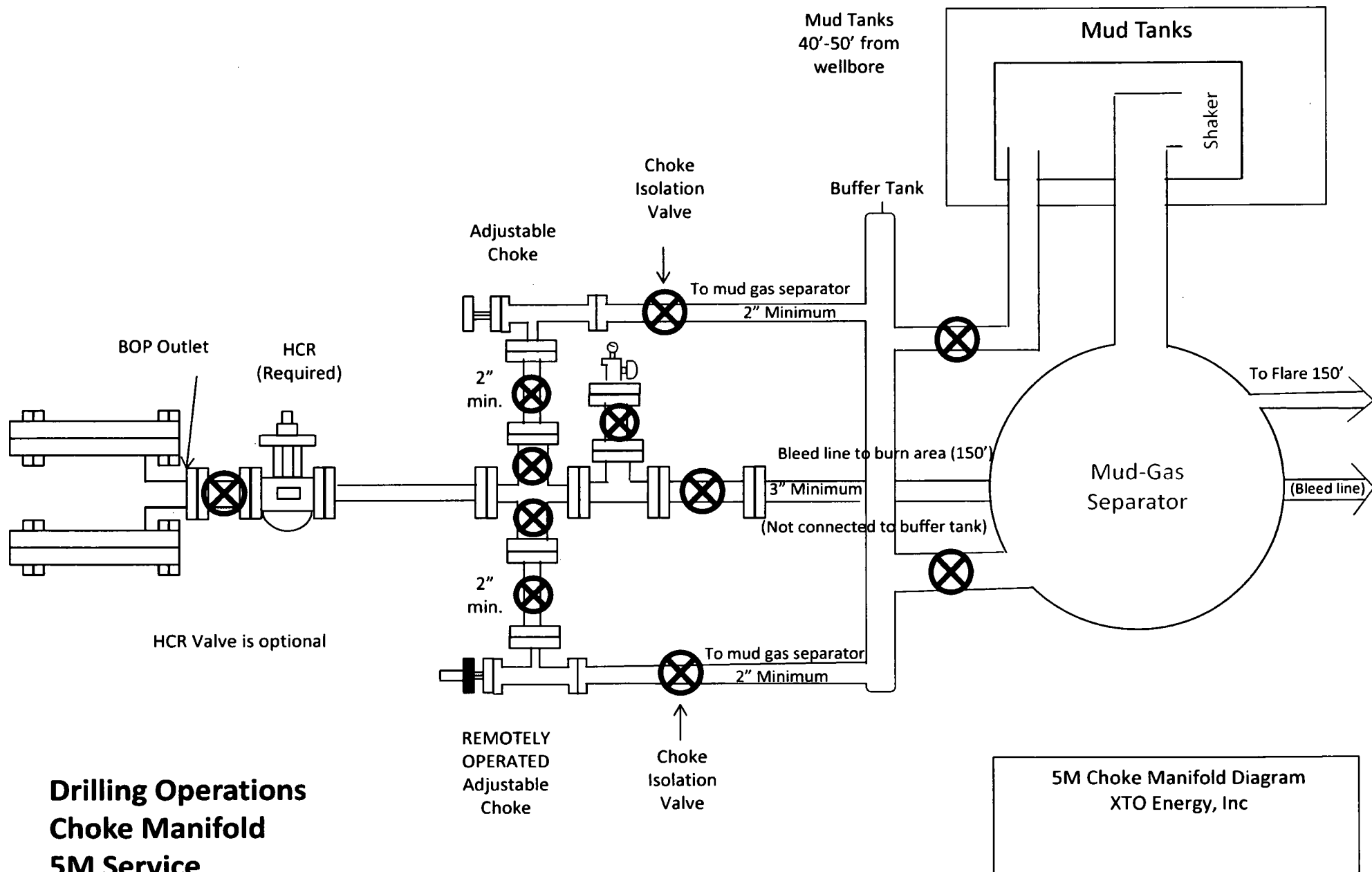
None Anticipated. BHT of 145 to 165 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 6206 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.



5000# BOP
XTO Energy, Inc



Drilling Operations
Choke Manifold
5M Service



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 28 2018

RECEIVED

XTO Energy

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

Muy Wayno 18 Federal

#123H

OH

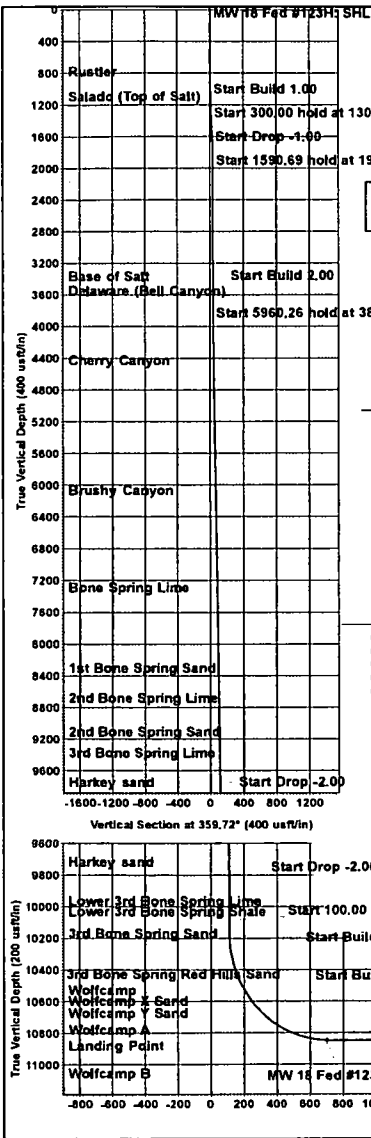
Plan: Plan #1

Standard Planning Report

01 November, 2018

WELLBENDERS
DIRECTIONAL SERVICES





Company: XTO Energy
 Project: Eddy County, NM (Nad-27 / East Zone)
 Site: Mury Wayne 18 Federal
 Well: #123H
 Wellbore: OH
 Rig: PAT 225
 Design: Plan #1 / 15:20, November 01 2018



TOTAL CORRECTION
 To convert a Magnetic Direction to a Grid Direction, Add 6.75°

WELL DETAIL: #123H

RWS = 28' @ 3111.00ft (PAT 225)

	Northing	Easting	Latitude	Longitude
3185.00	410819.20	628385.80	32.129051	-103.825123

SECTION DETAILS

Sec	MD	Inc	Ad	TYD	+E/W	Dir	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00
3	1300.00	3.00	0.00	1299.88	7.85	0.00	7.85
4	1800.00	3.00	0.00	1598.45	23.55	0.00	23.55
5	1800.00	0.00	0.00	1898.31	31.41	0.00	31.40
6	3400.00	0.00	0.00	3400.00	31.41	0.00	31.40
7	3829.19	6.77	63.45	3827.62	33.68	19.83	33.58
8	9700.36	6.77	63.45	9746.35	113.75	717.89	110.24
9	10127.77	0.00	359.72	10083.87	118.83	737.53	112.42
10	10227.77	0.00	359.72	10183.87	118.83	737.53	112.42
11	10727.77	40.00	359.72	10644.33	263.58	736.71	279.88
12	11227.78	80.00	359.72	10849.00	722.48	734.53	718.88
13	11827.78	80.00	359.72	10849.00	8122.40	698.60	8118.89

DESIGN TARGET DETAILS

Name	TYD	+E/W	+E/W	Northing	Easting	Latitude	Longitude
MW 18 Fed #123H: SHL	0.00	0.00	0.00	410819.20	628385.80	32.129051	-103.825123
MW 18 Fed #123H: FTP	10849.00	701.89	736.50	411912.10	627100.89	32.130872	-103.822749
MW 18 Fed #123H: LTP	10849.00	782.48	699.10	411862.80	627085.00	32.151914	-103.822788
MW 18 Fed #123H: PBHL	10849.00	8122.40	698.60	411832.80	627084.30	32.151371	-103.822787



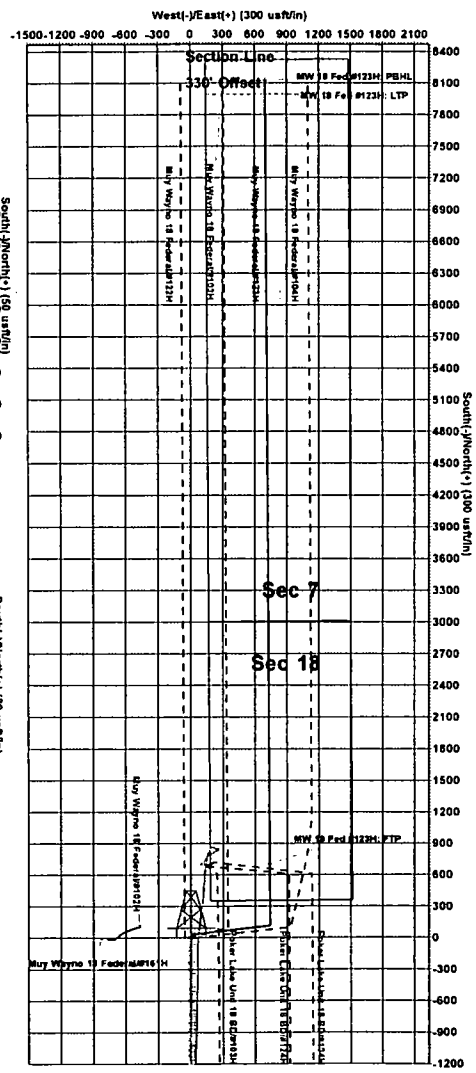
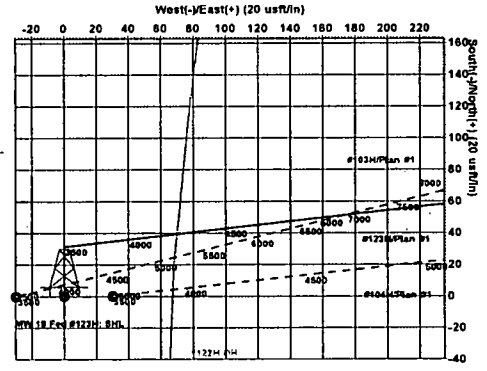
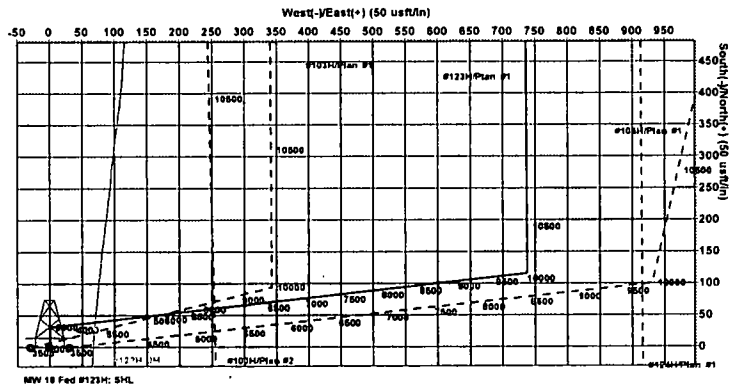
Airphoto to Grid North
 True North: 0.72°
 Magnetic North: 8.75°
 Magnetic Field
 Strength: 47705 Gauss
 Dip Angle: 59.80°
 Date: 10/30/2018
 Model: IGR72015

PROJECT DETAILS Eddy County, NM (Nad-27 / East Zone)
 Geoid: System US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (HACONOR, CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

CASINO DETAILS

TYD	MD	Name
800.00	800.00	13 38"
3400.00	3400.89	9 58"
10849.00	11227.78	7"

Disclaimer:
 All data derived from surveying
 (time and effort will
 be used to ensure data is
 accurate to within 10 feet)
 and is not to be used for
 any other purpose.





Planning Report



Database: WBDS_SQL_2
Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
Well: #123H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #123H
TVD Reference: RKB = 26' @ 3191.00usft (PAT 225)
MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Muy Wayno 18 Federal			
Site Position:		Northing:	410,905.90 usft	Latitude: 32.129047
From: Map		Easting:	625,541.00 usft	Longitude: -103.927788
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: 0.22 °

Well	#123H			
Well Position	+N/-S	4.30 usft	Northing:	410,910.20 usft
	+E/-W	824.90 usft	Easting:	626,365.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:	3,165.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/30/18	6.96	59.90	47,705.56461317

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	359.72	

Plan Survey Tool Program	Date	11/01/18			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,627.76 Plan #1 (OH)	WBDS_IGRF	OWSG MWD + IGRF or WM	



Planning Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	3.00	0.00	1,299.86	7.85	0.00	1.00	1.00	0.00	0.00	
1,600.00	3.00	0.00	1,599.45	23.55	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,899.31	31.41	0.00	1.00	-1.00	0.00	180.00	
3,490.69	0.00	0.00	3,490.00	31.41	0.00	0.00	0.00	0.00	0.00	
3,829.10	6.77	83.45	3,827.62	33.68	19.83	2.00	2.00	0.00	83.45	
9,789.36	6.77	83.45	9,746.35	113.75	717.69	0.00	0.00	0.00	0.00	
10,127.77	0.00	359.72	10,083.97	116.03	737.53	2.00	-2.00	0.00	180.00	
10,227.77	0.00	359.72	10,183.97	116.03	737.53	0.00	0.00	0.00	0.00	
10,727.77	40.00	359.72	10,644.33	283.58	736.71	8.00	8.00	0.00	0.00	
11,227.76	90.00	359.72	10,849.00	722.49	734.56	10.00	10.00	0.00	0.00	
18,627.76	90.00	359.72	10,849.00	8,122.40	698.40	0.00	0.00	0.00	0.00	MW 18 Fed #123H:



Planning Report



Database: WBDS_SQL_2
Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
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MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.00	0.00	1,099.99	0.87	0.00	0.87	1.00	1.00	0.00
1,200.00	2.00	0.00	1,199.96	3.49	0.00	3.49	1.00	1.00	0.00
1,300.00	3.00	0.00	1,299.86	7.85	0.00	7.85	1.00	1.00	0.00
1,400.00	3.00	0.00	1,399.73	13.09	0.00	13.09	0.00	0.00	0.00
1,500.00	3.00	0.00	1,499.59	18.32	0.00	18.32	0.00	0.00	0.00
1,600.00	3.00	0.00	1,599.45	23.55	0.00	23.55	0.00	0.00	0.00
1,700.00	2.00	0.00	1,699.36	27.91	0.00	27.91	1.00	-1.00	0.00
1,800.00	1.00	0.00	1,799.32	30.53	0.00	30.53	1.00	-1.00	0.00
1,900.00	0.00	0.00	1,899.31	31.41	0.00	31.40	1.00	-1.00	0.00
2,000.00	0.00	0.00	1,999.31	31.41	0.00	31.40	0.00	0.00	0.00
2,100.00	0.00	0.00	2,099.31	31.41	0.00	31.40	0.00	0.00	0.00
2,200.00	0.00	0.00	2,199.31	31.41	0.00	31.40	0.00	0.00	0.00
2,300.00	0.00	0.00	2,299.31	31.41	0.00	31.40	0.00	0.00	0.00
2,400.00	0.00	0.00	2,399.31	31.41	0.00	31.40	0.00	0.00	0.00
2,500.00	0.00	0.00	2,499.31	31.41	0.00	31.40	0.00	0.00	0.00
2,600.00	0.00	0.00	2,599.31	31.41	0.00	31.40	0.00	0.00	0.00
2,700.00	0.00	0.00	2,699.31	31.41	0.00	31.40	0.00	0.00	0.00
2,800.00	0.00	0.00	2,799.31	31.41	0.00	31.40	0.00	0.00	0.00
2,900.00	0.00	0.00	2,899.31	31.41	0.00	31.40	0.00	0.00	0.00
3,000.00	0.00	0.00	2,999.31	31.41	0.00	31.40	0.00	0.00	0.00
3,100.00	0.00	0.00	3,099.31	31.41	0.00	31.40	0.00	0.00	0.00
3,200.00	0.00	0.00	3,199.31	31.41	0.00	31.40	0.00	0.00	0.00
3,300.00	0.00	0.00	3,299.31	31.41	0.00	31.40	0.00	0.00	0.00
3,400.00	0.00	0.00	3,399.31	31.41	0.00	31.40	0.00	0.00	0.00
3,490.69	0.00	0.00	3,490.00	31.41	0.00	31.40	0.00	0.00	0.00
3,500.00	0.19	83.45	3,499.31	31.41	0.02	31.41	2.00	2.00	0.00
3,600.00	2.19	83.45	3,599.29	31.64	2.07	31.63	2.00	2.00	0.00
3,700.00	4.19	83.45	3,699.13	32.28	7.59	32.24	2.00	2.00	0.00
3,800.00	6.19	83.45	3,798.71	33.31	16.57	33.23	2.00	2.00	0.00
3,829.10	6.77	83.45	3,827.62	33.68	19.83	33.58	2.00	2.00	0.00
3,900.00	6.77	83.45	3,898.03	34.63	28.14	34.50	0.00	0.00	0.00
4,000.00	6.77	83.45	3,997.34	35.98	39.84	35.78	0.00	0.00	0.00
4,100.00	6.77	83.45	4,096.64	37.32	51.55	37.07	0.00	0.00	0.00
4,200.00	6.77	83.45	4,195.94	38.66	63.26	38.35	0.00	0.00	0.00
4,300.00	6.77	83.45	4,295.25	40.01	74.97	39.64	0.00	0.00	0.00
4,400.00	6.77	83.45	4,394.55	41.35	86.68	40.93	0.00	0.00	0.00
4,500.00	6.77	83.45	4,493.85	42.69	98.39	42.21	0.00	0.00	0.00
4,600.00	6.77	83.45	4,593.16	44.04	110.10	43.50	0.00	0.00	0.00
4,700.00	6.77	83.45	4,692.46	45.38	121.80	44.78	0.00	0.00	0.00
4,800.00	6.77	83.45	4,791.76	46.72	133.51	46.07	0.00	0.00	0.00
4,900.00	6.77	83.45	4,891.07	48.07	145.22	47.36	0.00	0.00	0.00
5,000.00	6.77	83.45	4,990.37	49.41	156.93	48.64	0.00	0.00	0.00
5,100.00	6.77	83.45	5,089.67	50.75	168.64	49.93	0.00	0.00	0.00



Planning Report



Database: WBDS_SQL_2
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Project: Eddy County, NM (Nad-27 / East Zone)
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Design: Plan #1

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TVD Reference: RKB = 26' @ 3191.00usft (PAT 225)
MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
5,200.00	6.77	83.45	5,188.97	52.10	180.35	51.22	0.00	0.00	0.00
5,300.00	6.77	83.45	5,288.28	53.44	192.06	52.50	0.00	0.00	0.00
5,400.00	6.77	83.45	5,387.58	54.78	203.76	53.79	0.00	0.00	0.00
5,500.00	6.77	83.45	5,486.88	56.13	215.47	55.07	0.00	0.00	0.00
5,600.00	6.77	83.45	5,586.19	57.47	227.18	56.36	0.00	0.00	0.00
5,700.00	6.77	83.45	5,685.49	58.81	238.89	57.65	0.00	0.00	0.00
5,800.00	6.77	83.45	5,784.79	60.16	250.60	58.93	0.00	0.00	0.00
5,900.00	6.77	83.45	5,884.10	61.50	262.31	60.22	0.00	0.00	0.00
6,000.00	6.77	83.45	5,983.40	62.85	274.02	61.51	0.00	0.00	0.00
6,100.00	6.77	83.45	6,082.70	64.19	285.72	62.79	0.00	0.00	0.00
6,200.00	6.77	83.45	6,182.01	65.53	297.43	64.08	0.00	0.00	0.00
6,300.00	6.77	83.45	6,281.31	66.88	309.14	65.36	0.00	0.00	0.00
6,400.00	6.77	83.45	6,380.61	68.22	320.85	66.65	0.00	0.00	0.00
6,500.00	6.77	83.45	6,479.91	69.56	332.56	67.94	0.00	0.00	0.00
6,600.00	6.77	83.45	6,579.22	70.91	344.27	69.22	0.00	0.00	0.00
6,700.00	6.77	83.45	6,678.52	72.25	355.97	70.51	0.00	0.00	0.00
6,800.00	6.77	83.45	6,777.82	73.59	367.68	71.79	0.00	0.00	0.00
6,900.00	6.77	83.45	6,877.13	74.94	379.39	73.08	0.00	0.00	0.00
7,000.00	6.77	83.45	6,976.43	76.28	391.10	74.37	0.00	0.00	0.00
7,100.00	6.77	83.45	7,075.73	77.62	402.81	75.65	0.00	0.00	0.00
7,200.00	6.77	83.45	7,175.04	78.97	414.52	76.94	0.00	0.00	0.00
7,300.00	6.77	83.45	7,274.34	80.31	426.23	78.23	0.00	0.00	0.00
7,400.00	6.77	83.45	7,373.64	81.65	437.93	79.51	0.00	0.00	0.00
7,500.00	6.77	83.45	7,472.95	83.00	449.64	80.80	0.00	0.00	0.00
7,600.00	6.77	83.45	7,572.25	84.34	461.35	82.08	0.00	0.00	0.00
7,700.00	6.77	83.45	7,671.55	85.68	473.06	83.37	0.00	0.00	0.00
7,800.00	6.77	83.45	7,770.86	87.03	484.77	84.66	0.00	0.00	0.00
7,900.00	6.77	83.45	7,870.16	88.37	496.48	85.94	0.00	0.00	0.00
8,000.00	6.77	83.45	7,969.46	89.71	508.19	87.23	0.00	0.00	0.00
8,100.00	6.77	83.45	8,068.76	91.06	519.89	88.51	0.00	0.00	0.00
8,200.00	6.77	83.45	8,168.07	92.40	531.60	89.80	0.00	0.00	0.00
8,300.00	6.77	83.45	8,267.37	93.74	543.31	91.09	0.00	0.00	0.00
8,400.00	6.77	83.45	8,366.67	95.09	555.02	92.37	0.00	0.00	0.00
8,500.00	6.77	83.45	8,465.98	96.43	566.73	93.66	0.00	0.00	0.00
8,600.00	6.77	83.45	8,565.28	97.77	578.44	94.95	0.00	0.00	0.00
8,700.00	6.77	83.45	8,664.58	99.12	590.14	96.23	0.00	0.00	0.00
8,800.00	6.77	83.45	8,763.89	100.46	601.85	97.52	0.00	0.00	0.00
8,900.00	6.77	83.45	8,863.19	101.80	613.56	98.80	0.00	0.00	0.00
9,000.00	6.77	83.45	8,962.49	103.15	625.27	100.09	0.00	0.00	0.00
9,100.00	6.77	83.45	9,061.80	104.49	636.98	101.38	0.00	0.00	0.00
9,200.00	6.77	83.45	9,161.10	105.83	648.69	102.66	0.00	0.00	0.00
9,300.00	6.77	83.45	9,260.40	107.18	660.40	103.95	0.00	0.00	0.00
9,400.00	6.77	83.45	9,359.70	108.52	672.10	105.24	0.00	0.00	0.00
9,500.00	6.77	83.45	9,459.01	109.86	683.81	106.52	0.00	0.00	0.00
9,600.00	6.77	83.45	9,558.31	111.21	695.52	107.81	0.00	0.00	0.00
9,700.00	6.77	83.45	9,657.61	112.55	707.23	109.09	0.00	0.00	0.00
9,789.36	6.77	83.45	9,746.35	113.75	717.69	110.24	0.00	0.00	0.00
9,800.00	6.56	83.45	9,756.92	113.89	718.92	110.38	2.00	-2.00	0.00
9,900.00	4.56	83.45	9,856.44	115.00	728.54	111.43	2.00	-2.00	0.00
10,000.00	2.56	83.45	9,956.25	115.70	734.70	112.11	2.00	-2.00	0.00
10,100.00	0.56	83.45	10,056.21	116.01	737.39	112.41	2.00	-2.00	0.00
10,127.77	0.00	359.72	10,083.97	116.03	737.53	112.42	2.00	-2.00	0.00
10,200.00	0.00	0.00	10,156.21	116.03	737.53	112.42	0.00	0.00	0.00
10,227.77	0.00	359.72	10,183.97	116.03	737.53	112.42	0.00	0.00	0.00



Planning Report



Database: WBDS_SQL_2
Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
Well: #123H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well#123H
TVD Reference: RKB = 26' @ 3191.00usft (PAT 225)
MD Reference: RKB = 26' @ 3191.00usft (PAT 225)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,250.00	1.78	359.72	10,206.20	116.37	737.53	112.77	8.00	8.00	0.00
10,300.00	5.78	359.72	10,256.08	119.67	737.51	116.06	8.00	8.00	0.00
10,350.00	9.78	359.72	10,305.61	126.43	737.48	122.83	8.00	8.00	0.00
10,400.00	13.78	359.72	10,354.55	136.64	737.43	133.03	8.00	8.00	0.00
10,450.00	17.78	359.72	10,402.66	150.23	737.36	146.63	8.00	8.00	0.00
10,500.00	21.78	359.72	10,449.70	167.15	737.28	163.54	8.00	8.00	0.00
10,550.00	25.78	359.72	10,495.44	187.30	737.18	183.70	8.00	8.00	0.00
10,600.00	29.78	359.72	10,539.67	210.60	737.06	207.00	8.00	8.00	0.00
10,650.00	33.78	359.72	10,582.17	236.93	736.94	233.32	8.00	8.00	0.00
10,700.00	37.78	359.72	10,622.72	266.15	736.79	262.55	8.00	8.00	0.00
10,727.77	40.00	359.72	10,644.33	283.58	736.71	279.98	8.00	8.00	0.00
10,750.00	42.22	359.72	10,661.08	298.20	736.64	294.60	10.00	10.00	0.00
10,800.00	47.22	359.72	10,696.60	333.38	736.46	329.77	10.00	10.00	0.00
10,850.00	52.22	359.72	10,728.91	371.51	736.28	367.91	10.00	10.00	0.00
10,900.00	57.22	359.72	10,757.78	412.31	736.08	408.71	10.00	10.00	0.00
10,950.00	62.22	359.72	10,782.98	455.48	735.87	451.88	10.00	10.00	0.00
11,000.00	67.22	359.72	10,804.32	500.68	735.65	497.08	10.00	10.00	0.00
11,050.00	72.22	359.72	10,821.64	547.56	735.42	543.96	10.00	10.00	0.00
11,100.00	77.22	359.72	10,834.81	595.78	735.18	592.18	10.00	10.00	0.00
11,150.00	82.22	359.72	10,843.73	644.96	734.94	641.36	10.00	10.00	0.00
11,200.00	87.22	359.72	10,848.33	694.74	734.70	691.14	10.00	10.00	0.00
11,227.76	90.00	359.72	10,849.00	722.49	734.56	718.89	10.00	10.00	0.00
11,300.00	90.00	359.72	10,849.00	794.72	734.21	791.13	0.00	0.00	0.00
11,400.00	90.00	359.72	10,849.00	894.72	733.72	891.13	0.00	0.00	0.00
11,500.00	90.00	359.72	10,849.00	994.72	733.23	991.13	0.00	0.00	0.00
11,600.00	90.00	359.72	10,849.00	1,094.72	732.74	1,091.13	0.00	0.00	0.00
11,700.00	90.00	359.72	10,849.00	1,194.72	732.26	1,191.13	0.00	0.00	0.00
11,800.00	90.00	359.72	10,849.00	1,294.72	731.77	1,291.13	0.00	0.00	0.00
11,900.00	90.00	359.72	10,849.00	1,394.72	731.28	1,391.13	0.00	0.00	0.00
12,000.00	90.00	359.72	10,849.00	1,494.71	730.79	1,491.13	0.00	0.00	0.00
12,100.00	90.00	359.72	10,849.00	1,594.71	730.30	1,591.13	0.00	0.00	0.00
12,200.00	90.00	359.72	10,849.00	1,694.71	729.81	1,691.13	0.00	0.00	0.00
12,300.00	90.00	359.72	10,849.00	1,794.71	729.32	1,791.13	0.00	0.00	0.00
12,400.00	90.00	359.72	10,849.00	1,894.71	728.83	1,891.13	0.00	0.00	0.00
12,500.00	90.00	359.72	10,849.00	1,994.71	728.35	1,991.13	0.00	0.00	0.00
12,600.00	90.00	359.72	10,849.00	2,094.71	727.86	2,091.13	0.00	0.00	0.00
12,700.00	90.00	359.72	10,849.00	2,194.71	727.37	2,191.13	0.00	0.00	0.00
12,800.00	90.00	359.72	10,849.00	2,294.71	726.88	2,291.13	0.00	0.00	0.00
12,900.00	90.00	359.72	10,849.00	2,394.70	726.39	2,391.13	0.00	0.00	0.00
13,000.00	90.00	359.72	10,849.00	2,494.70	725.90	2,491.13	0.00	0.00	0.00
13,100.00	90.00	359.72	10,849.00	2,594.70	725.41	2,591.13	0.00	0.00	0.00
13,200.00	90.00	359.72	10,849.00	2,694.70	724.92	2,691.13	0.00	0.00	0.00
13,300.00	90.00	359.72	10,849.00	2,794.70	724.44	2,791.13	0.00	0.00	0.00
13,400.00	90.00	359.72	10,849.00	2,894.70	723.95	2,891.13	0.00	0.00	0.00
13,500.00	90.00	359.72	10,849.00	2,994.70	723.46	2,991.13	0.00	0.00	0.00
13,600.00	90.00	359.72	10,849.00	3,094.70	722.97	3,091.13	0.00	0.00	0.00
13,700.00	90.00	359.72	10,849.00	3,194.69	722.48	3,191.13	0.00	0.00	0.00
13,800.00	90.00	359.72	10,849.00	3,294.69	721.99	3,291.13	0.00	0.00	0.00
13,900.00	90.00	359.72	10,849.00	3,394.69	721.50	3,391.13	0.00	0.00	0.00
14,000.00	90.00	359.72	10,849.00	3,494.69	721.02	3,491.13	0.00	0.00	0.00
14,100.00	90.00	359.72	10,849.00	3,594.69	720.53	3,591.13	0.00	0.00	0.00
14,200.00	90.00	359.72	10,849.00	3,694.69	720.04	3,691.13	0.00	0.00	0.00
14,300.00	90.00	359.72	10,849.00	3,794.69	719.55	3,791.13	0.00	0.00	0.00
14,400.00	90.00	359.72	10,849.00	3,894.69	719.06	3,891.13	0.00	0.00	0.00



Planning Report



Database: WBDS_SQL_2
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Design: Plan #1

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	90.00	359.72	10,849.00	3,994.69	718.57	3,991.13	0.00	0.00	0.00
14,600.00	90.00	359.72	10,849.00	4,094.68	718.08	4,091.13	0.00	0.00	0.00
14,700.00	90.00	359.72	10,849.00	4,194.68	717.59	4,191.13	0.00	0.00	0.00
14,800.00	90.00	359.72	10,849.00	4,294.68	717.11	4,291.13	0.00	0.00	0.00
14,900.00	90.00	359.72	10,849.00	4,394.68	716.62	4,391.13	0.00	0.00	0.00
15,000.00	90.00	359.72	10,849.00	4,494.68	716.13	4,491.13	0.00	0.00	0.00
15,100.00	90.00	359.72	10,849.00	4,594.68	715.64	4,591.13	0.00	0.00	0.00
15,200.00	90.00	359.72	10,849.00	4,694.68	715.15	4,691.13	0.00	0.00	0.00
15,300.00	90.00	359.72	10,849.00	4,794.68	714.66	4,791.13	0.00	0.00	0.00
15,400.00	90.00	359.72	10,849.00	4,894.67	714.17	4,891.13	0.00	0.00	0.00
15,500.00	90.00	359.72	10,849.00	4,994.67	713.69	4,991.13	0.00	0.00	0.00
15,600.00	90.00	359.72	10,849.00	5,094.67	713.20	5,091.13	0.00	0.00	0.00
15,700.00	90.00	359.72	10,849.00	5,194.67	712.71	5,191.13	0.00	0.00	0.00
15,800.00	90.00	359.72	10,849.00	5,294.67	712.22	5,291.13	0.00	0.00	0.00
15,900.00	90.00	359.72	10,849.00	5,394.67	711.73	5,391.13	0.00	0.00	0.00
16,000.00	90.00	359.72	10,849.00	5,494.67	711.24	5,491.13	0.00	0.00	0.00
16,100.00	90.00	359.72	10,849.00	5,594.67	710.75	5,591.13	0.00	0.00	0.00
16,200.00	90.00	359.72	10,849.00	5,694.66	710.26	5,691.13	0.00	0.00	0.00
16,300.00	90.00	359.72	10,849.00	5,794.66	709.78	5,791.13	0.00	0.00	0.00
16,400.00	90.00	359.72	10,849.00	5,894.66	709.29	5,891.13	0.00	0.00	0.00
16,500.00	90.00	359.72	10,849.00	5,994.66	708.80	5,991.13	0.00	0.00	0.00
16,600.00	90.00	359.72	10,849.00	6,094.66	708.31	6,091.13	0.00	0.00	0.00
16,700.00	90.00	359.72	10,849.00	6,194.66	707.82	6,191.13	0.00	0.00	0.00
16,800.00	90.00	359.72	10,849.00	6,294.66	707.33	6,291.13	0.00	0.00	0.00
16,900.00	90.00	359.72	10,849.00	6,394.66	706.84	6,391.13	0.00	0.00	0.00
17,000.00	90.00	359.72	10,849.00	6,494.66	706.35	6,491.13	0.00	0.00	0.00
17,100.00	90.00	359.72	10,849.00	6,594.65	705.87	6,591.13	0.00	0.00	0.00
17,200.00	90.00	359.72	10,849.00	6,694.65	705.38	6,691.13	0.00	0.00	0.00
17,300.00	90.00	359.72	10,849.00	6,794.65	704.89	6,791.13	0.00	0.00	0.00
17,400.00	90.00	359.72	10,849.00	6,894.65	704.40	6,891.13	0.00	0.00	0.00
17,500.00	90.00	359.72	10,849.00	6,994.65	703.91	6,991.13	0.00	0.00	0.00
17,600.00	90.00	359.72	10,849.00	7,094.65	703.42	7,091.13	0.00	0.00	0.00
17,700.00	90.00	359.72	10,849.00	7,194.65	702.93	7,191.13	0.00	0.00	0.00
17,800.00	90.00	359.72	10,849.00	7,294.65	702.45	7,291.13	0.00	0.00	0.00
17,900.00	90.00	359.72	10,849.00	7,394.64	701.96	7,391.13	0.00	0.00	0.00
18,000.00	90.00	359.72	10,849.00	7,494.64	701.47	7,491.13	0.00	0.00	0.00
18,100.00	90.00	359.72	10,849.00	7,594.64	700.98	7,591.13	0.00	0.00	0.00
18,200.00	90.00	359.72	10,849.00	7,694.64	700.49	7,691.13	0.00	0.00	0.00
18,300.00	90.00	359.72	10,849.00	7,794.64	700.00	7,791.13	0.00	0.00	0.00
18,400.00	90.00	359.72	10,849.00	7,894.64	699.51	7,891.13	0.00	0.00	0.00
18,500.00	90.00	359.72	10,849.00	7,994.64	699.02	7,991.13	0.00	0.00	0.00
18,600.00	90.00	359.72	10,849.00	8,094.64	698.54	8,091.13	0.00	0.00	0.00
18,627.76	90.00	359.72	10,849.00	8,122.40	698.40	8,118.89	0.00	0.00	0.00



Planning Report



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Local Co-ordinate Reference: Well#123H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
MW 18 Fed #123H: S - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	410,910.20	626,365.90	32.129051	-103.925123
MW 18 Fed #123H: P - plan hits target center - Point	0.00	0.01	10,849.00	8,122.40	698.40	419,032.60	627,064.30	32.151371	-103.922767
MW 18 Fed #123H: F - plan misses target center by 0.50usft at 11207.18usft MD (10848.63 TVD, 701.91 N, 734.66 E) - Point	0.00	0.00	10,849.00	701.90	735.00	411,612.10	627,100.90	32.130972	-103.922740
MW 18 Fed #123H: L - plan misses target center by 0.06usft at 18497.76usft MD (10849.00 TVD, 7992.40 N, 699.04 E) - Point	0.00	0.01	10,849.00	7,992.40	699.10	418,902.60	627,065.00	32.151014	-103.922767

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
900.00	900.00	13 3/8"	13.375	17.500
3,400.69	3,400.00	9 5/8"	9.625	12.250
11,227.76	10,849.00	7"	7.000	7.500

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
720.00	720.00	Rustler			
1,035.00	1,035.00	Salado (Top of Salt)			
3,307.69	3,307.00	Base of Salt			
3,490.69	3,490.00	Delaware (Bell Canyon)			
4,376.29	4,371.00	Cherry Canyon			
6,021.75	6,005.00	Brushy Canyon			
7,243.27	7,218.00	Bone Spring			
7,256.36	7,231.00	Bone Spring Lime			
8,274.45	8,242.00	1st Bone Spring Sand			
8,656.11	8,621.00	2nd Bone Spring Lime			
9,085.10	9,047.00	2nd Bone Spring Sand			
9,352.97	9,313.00	3rd Bone Spring Lime			
9,729.59	9,687.00	Harkey sand			
9,977.73	9,934.00	Lower 3rd Bone Spring Lime			
10,043.78	10,000.00	Lower 3rd Bone Spring Shale			
10,183.80	10,140.00	3rd Bone Spring Sand			
10,528.56	10,476.00	3rd Bone Spring Red Hills Sand			
10,601.53	10,541.00	Wolfcamp			
10,626.00	10,562.00	Wolfcamp X Sand			
10,701.62	10,624.00	Wolfcamp Y Sand			
10,766.30	10,673.00	Wolfcamp A			
11,227.76	10,849.00	Landing Point			

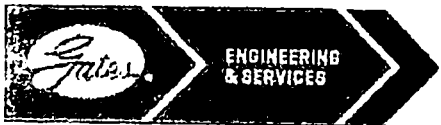


Planning Report



Database: WBDS_SQL_2
Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: Muy Wayno 18 Federal
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GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

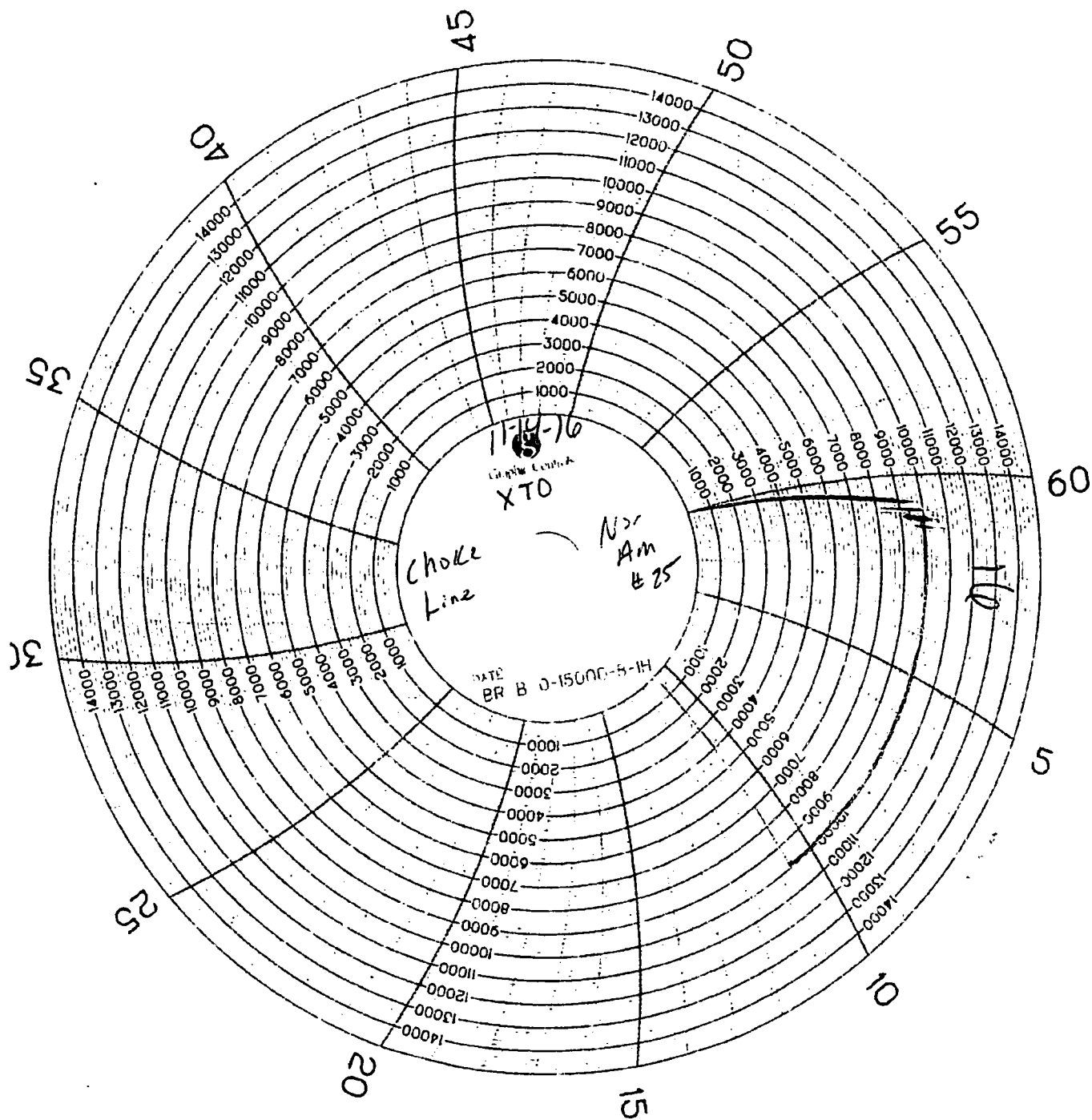
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORI-IA
Product Description:	FD3.0+2.0R+1/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	



NOON

HOSE I.D. 2 1/2" LENGTH 42ft END 1 4 1/16 SKF END 2 4 1/16 SKF
GRADE D WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL 633096017513D-060814-P4000
NAME D-725 CR 25073

CSX-051-COURT