Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

Carlsbad Field Office
OCD Artesia

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. NMLC065914A
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA/Agreement, Name and/or No. 891000326X
	8. Well Name and No. BIG EDDY UNIT DI 5 24H
2. Name of Operator BOPCO LP Contact: STEPHANIE RABADUE E-Mail: stephanie_rabadue@xtoenergy.com	9. API Well No. 30-015-43444-00-X1 (98232)
3a. Address P O BOX 2760 MIDLAND, TX 79702 3b. Phone No. (include area code) Ph: 432-620-6714	10. Field and Pool or Exploratory Area ~~WC WILLIAMS SINK~~ BONE SPRING WC-015 G-06 S203127G;
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 27 T20S R31E SWNE 2000FNL 1873FEL 32.324529 N Lat, 103.511447 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 to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 recompletion 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.

BOPCO, L.P. respectfully requests a change to the original APD for:

1. Pool Name → (above)
2. Drilling Program, including:
Casing & Cement Design
Directional Drill Survey
Mud Design
BOP / Choke Manifold
Updated Flex Hose Variance

A full updated drilling plan is attached along with all pertinent attachments and an updated C-102.

This is a duplicate Sundry; Pname on EC # 372983

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 22 2017
RECEIVED

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

Electronic Submission #371041 verified by the BLM Well Information System
For BOPCO LP, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 03/29/2017 (17DLM1124SE)

Name *(Printed/Typed)* STEPHANIE RABADUE	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/25/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title MUSTAFA HAQUE PETROLEUM ENGINEER	Date 05/18/2017
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	

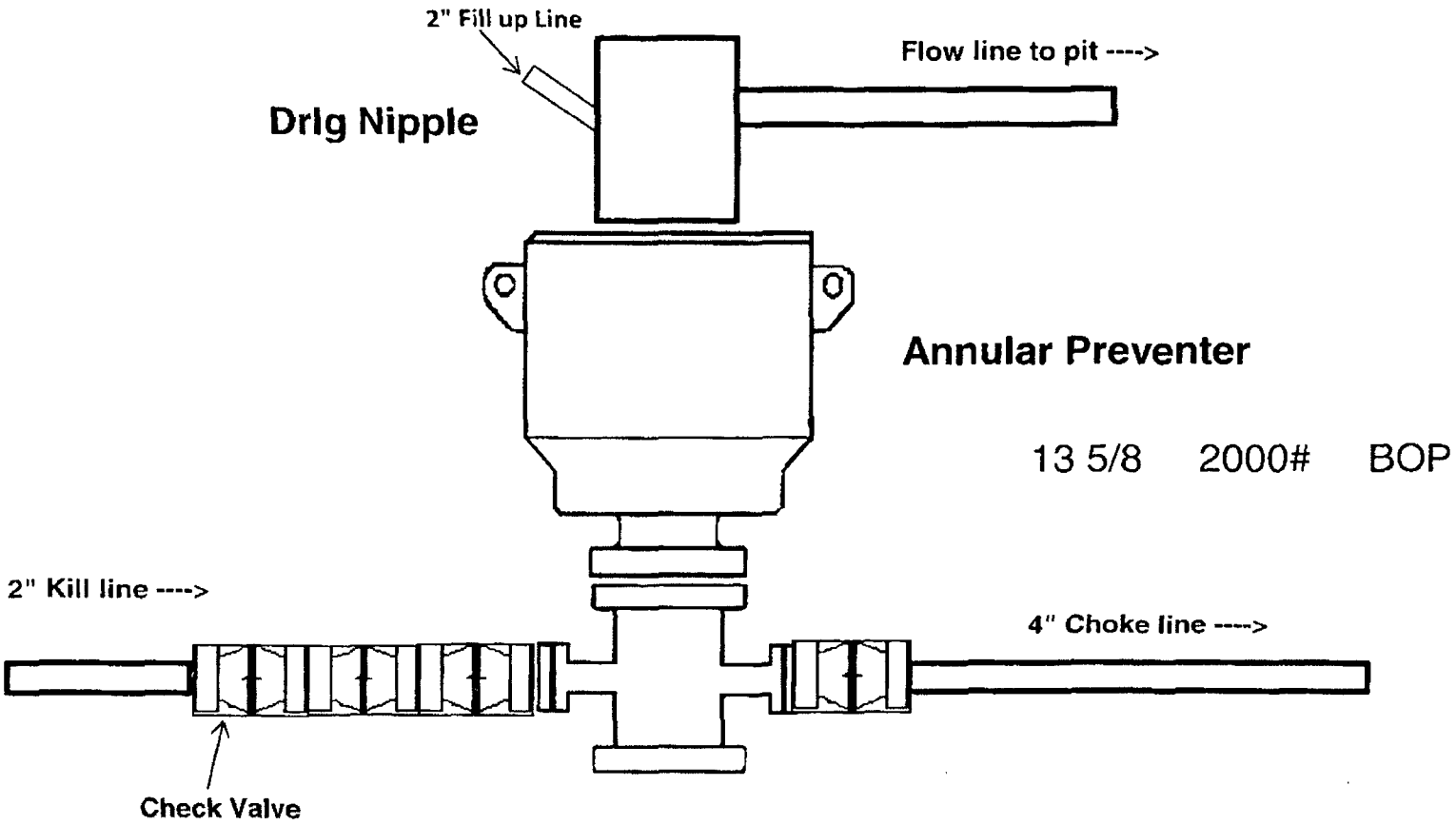
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

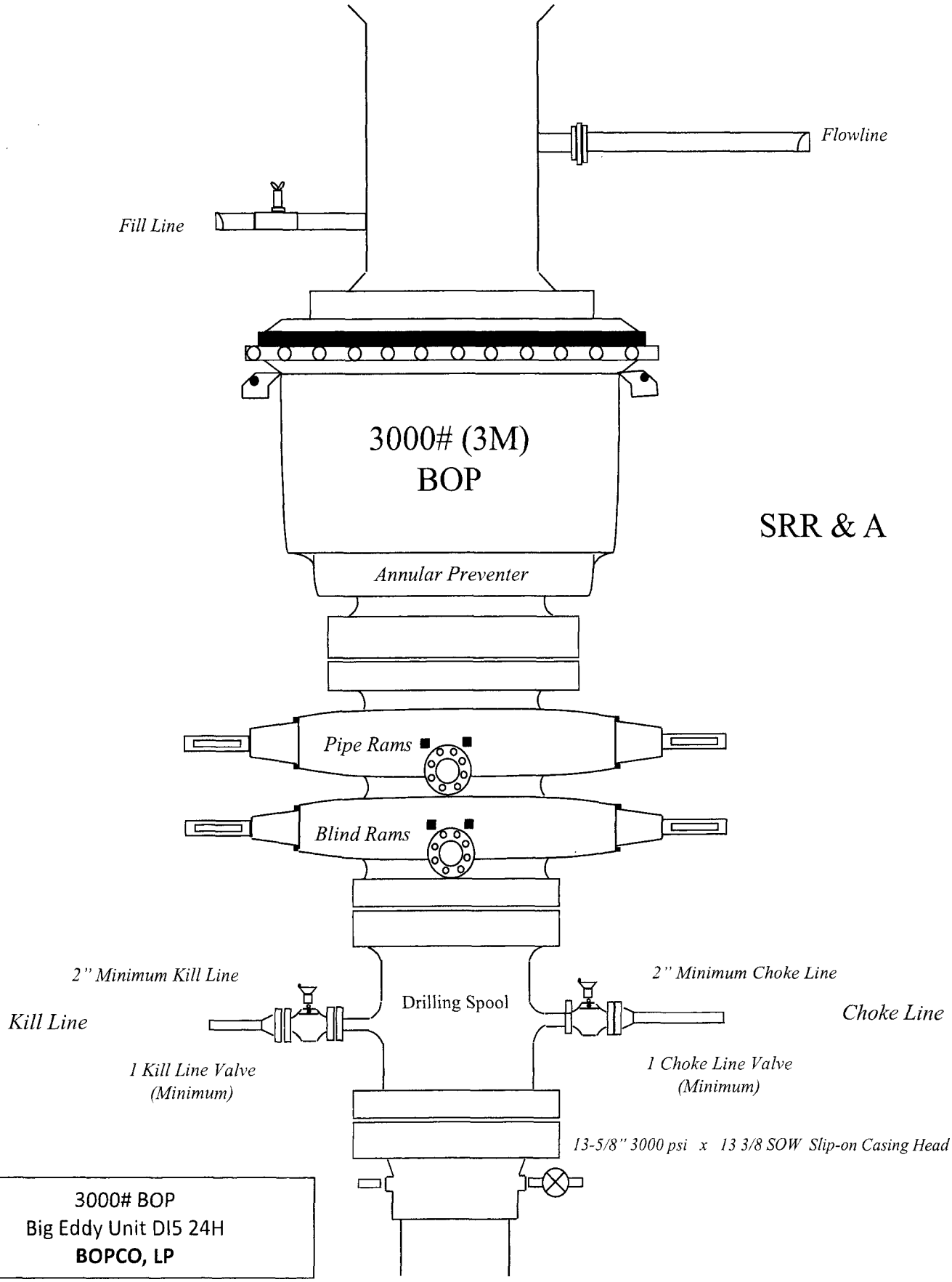
(Instructions on page 2)

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

RWP 5-31-17

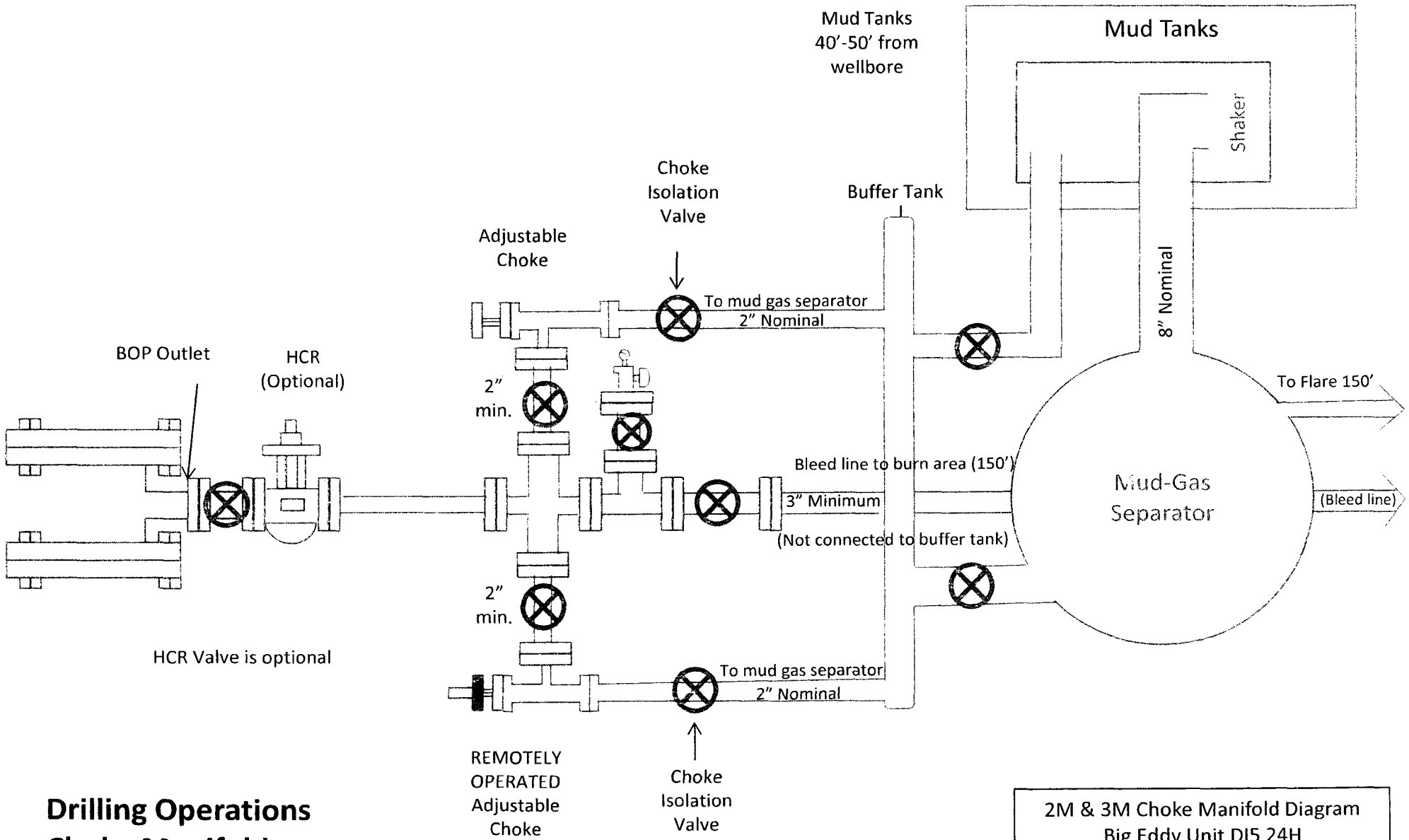
2,000 psi BOP Schematic





SRR & A

3000# BOP
Big Eddy Unit DI5 24H
BOPCO, LP



Drilling Operations
Choke Manifold
2M & 3M Service

2M & 3M Choke Manifold Diagram
Big Eddy Unit DI5 24H
BOPCO, LP

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

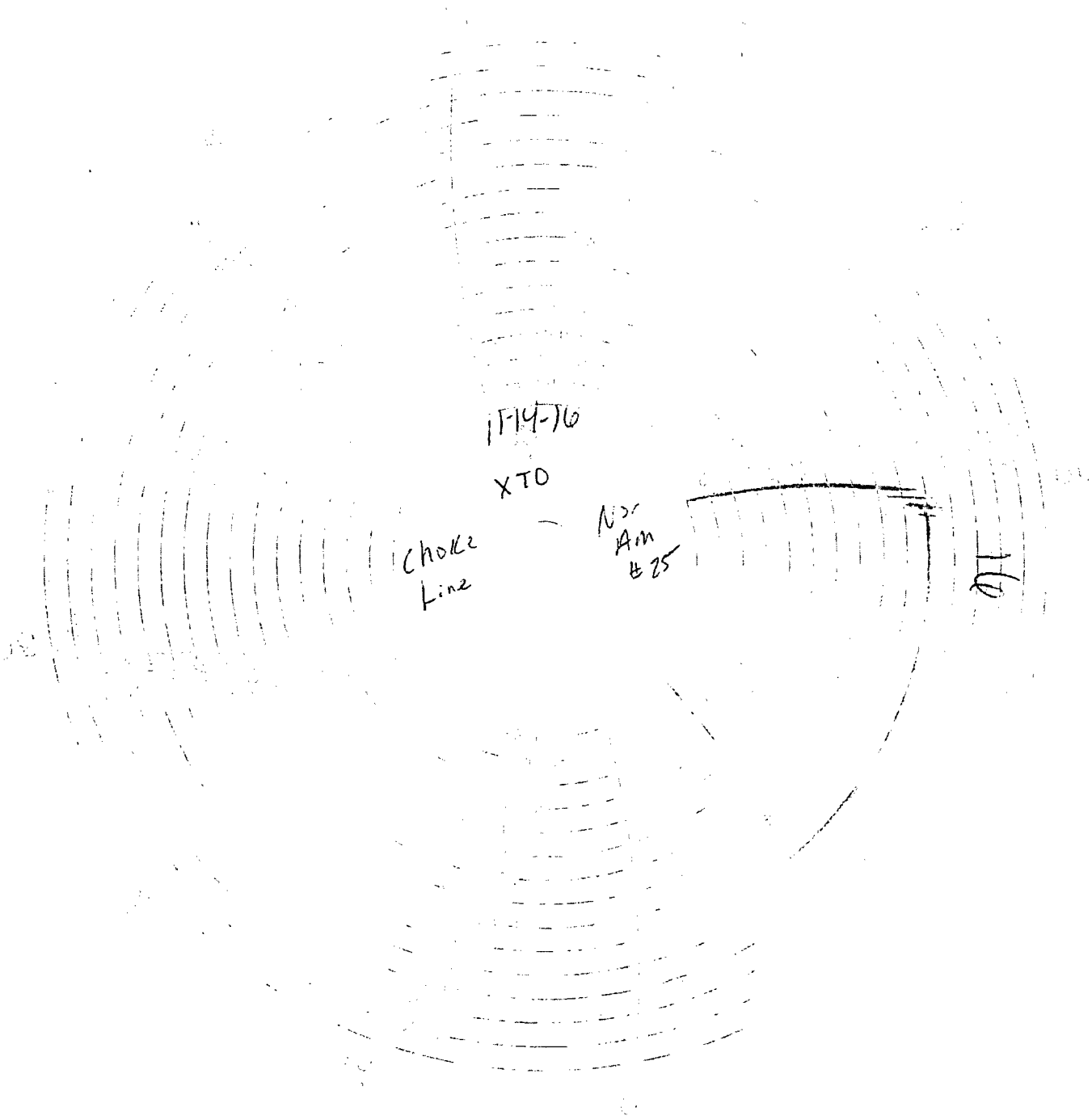
Customer:	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref.	PENDING	Hose Serial No.:	D-060814-1
Invoice No.	201709	Created By:	NORMA

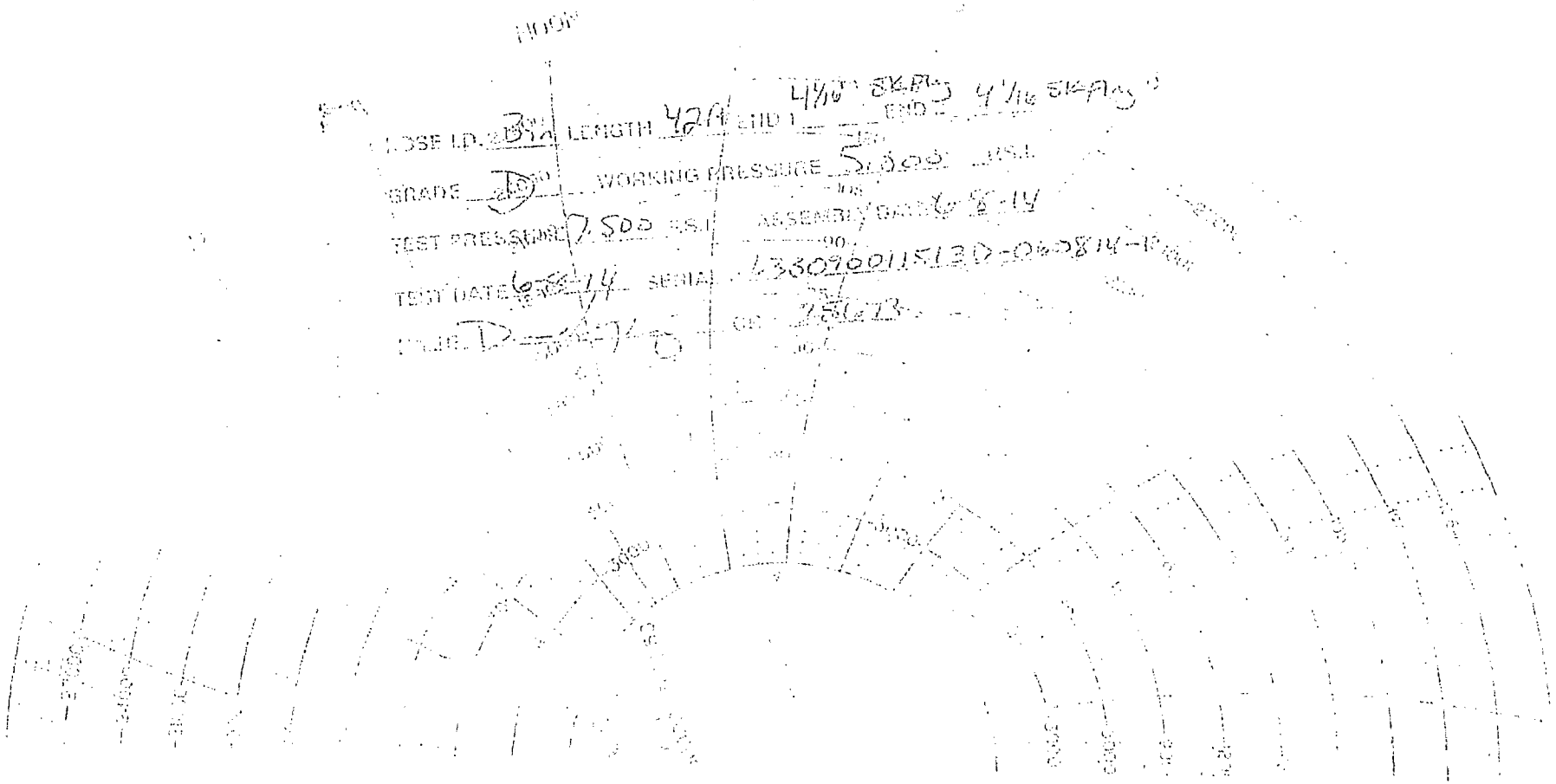
Product Description:	FD3.042.0R41/16.5KFLGE/E LE

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 :	


11-14-16
XTO
Choke
Line
Nor
Am
#25


HOSE I.D. 3/4
LENGTH 42"
GRADE D
WORKING PRESSURE 5,000 PSI
TEST PRESSURE 7,500 PSI
ASSEMBLY DATE 6-14
TEST DATE 6-14
SERIAL
END 1
END 2
4 1/16 5K FLG
4 1/16 5K FLG

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

XTO Energy Inc.
Big Eddy Unit DI5 24H (SUNDRY)
Projected TD: 20675' MD / 9483' TVD
SHL: 2000' FNL & 1873' FEL, SECTION 27, T20S, R31E
BHL: 2310' FSL & 330' FEL, SECTION 25, T20S, R31E
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	660'	Water
Top of Salt	929'	
Base of Salt	2445'	
Capitan	2844'	
Delaware	3924'	
Brushy Canyon	5869'	Water/Oil/Gas
Bone Spring	7485'	Water/Oil/Gas
1st Bone Spring Ss	8709'	Water/Oil/Gas
2nd Bone Spring Lm	9100'	Water/Oil/Gas
2nd Bone Spring Ss	9237'	Water/Oil/Gas
Target/Land Curve	9483'	Water/Oil/Gas
3rd Bone Spring Lm	9762'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Estimated groundwater depth 660'.
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 16" casing @ 849' and circulating cement back to surface. The salt will be isolated by setting 13-3/8" casing at 2854' and circulating cement to surface. A 12-1/4" hole will be drilled to 3500' TVD where 9-5/8" casing will be set and cemented back to surface to isolate the capitan reef. An 8-3/4" hole will be drilled to TD of the pilot hole (9812' TVD). Once plugged back, an 8-3/4" curve and an 8-1/2" lateral hole will be drilled to MD/TD and 5-1/2" casing will be set at TD and cemented back to surface.

3. **CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
18-1/8"	0' – 849'	16"	84#	BTC	J-55	New	7.67	3.63	18.59
14-3/4"	0' – 2854'	13-3/8"	68#	STC	HCL-80	New	2.28	2.17	3.48
12-1/4"	0'– 3500'	9-5/8"	40#	LTC	J-55	New	4.21	2.74	3.71
8-3/4" x 8-1/2"	0' – 20675'	5-1/2"	17#	BTC	P-110	New	1.12	1.65	2.34

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

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

WELLHEAD:

Temporary Wellhead

- 16" SOW x 16-3/4" 3M 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.
   - Manufacturer will witness installation of test plug for initial test.
   - Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

CEMENT PROGRAM:

A. **Surface Casing:** 16", 84#, NEW J-55, BTC casing to be set at ± 849'.

Lead: 20 bbls FW, then 164 sx ExtendaCem-CZ (mixed at 12.8 ppg, 1.68 ft^3/sk, 8.72 gal/sx wtr)

Tail: 293 sx HalCem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft^3/sk, 6.39 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to surface.

B. **1st Intermediate Casing:** 13-3/8", 68#, NEW HCL-80, STC casing to be set at ± 2854'.

Lead: 20 bbls FW, then 528 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft^3/sk, 9.61 gal/sx wtr)

Tail: 158 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft^3/sk, 6.34 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to surface.

C. **2nd Intermediate Casing:** 9-5/8", 40#, NEW J-55, LTC casing to be set at ± 3500'.

1st Stage:

Lead: 20 bbls FW, then 30 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft^3/sk, 9.61 gal/sx wtr)

Tail: 235 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft^3/sk, 6.34 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to DV Tool/ECP (2915').

2nd Stage:

Lead: 20 bbls FW, then 804 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft^3/sk, 9.61 gal/sx wtr)

Tail: 235 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft^3/sk, 6.34 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to Surface.

D. **Pilot Hole:** 500 sxs 14.8 ppg Class H

E. **Production Casing**: 5-1/2", 17#, NEW P-110, BTC casing to be set at ± 20675'. Casing will be cemented to surface.

Lead: 20 bbls FW, then 1025 sx Tuned Light + 0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1% HR601 (mixed at 10.5 ppg, 2.69 ft^3/sk, 12.26 gal/sx wtr)

Tail: 2301 sx VersaCem PBHS2 + 0.5% LAP-1 + 0.25 lbm/sk D-air 5000 + 0.2% HR 601 + 0.4% CFR-3 + 1 pps Salt (mixed at 13.2 ppg, 1.61 ft^3/sk, 8.38 gal/sx wtr)
***All volumes 30% excess in open hole. Cement to surface.

F. PRESSURE CONTROL EQUIPMENT:

The blow out preventer equipment (BOP) for the temporary wellhead consists of a 21-1/4" minimum 2M Hydril. MASP should not exceed 886 psi. 2M diagram attached.

The blow out preventer equipment (BOP) for the permanent wellhead consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2535 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 nippling up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 3000psi. 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.

Because the 9-5/8" casing will be run with a mandrel hanger through the 13-3/8" BOP without breaking any connections, no additional pressure test would be required.

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.

G. PROPOSED MUD CIRCULATION SYSTEM:

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 849'	18-1/8"	FW/Native	8.4 – 8.8	35 - 40	NC
849' to 2854'	14-3/4"	Brine/Gel Sweeps	9.8 – 10.2	30 - 32	NC
2854' to 3500'	12-1/4"	FW / Cut Brine / Poly-Sweeps	8.6 – 9.3	29 – 32	NC
3500' to 10006'	8-3/4"	Cut Brine	8.8 – 9.2	29 – 32	NC - 20
10006' to 20675'	8-1/2"	OBM	9.0 – 9.5	35 – 45	15 – 25

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 16" 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.

H. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

i. A Kelly cock will be in the drill string at all times.
ii. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
iii. H2S monitors will be on location when drilling below the 18-5/8" casing.

I. LOGGING, CORING AND TESTING PROGRAM:

Mud Logger: Mud Logging Unit (2 man) on @ 2854'.
Catch 20' samples from 2854' to TD

Open hole logging to include Density/Neutron/Sonic/Spectral Gamma from TD of pilot hole to 2nd intermediate casing shoe.

J. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:

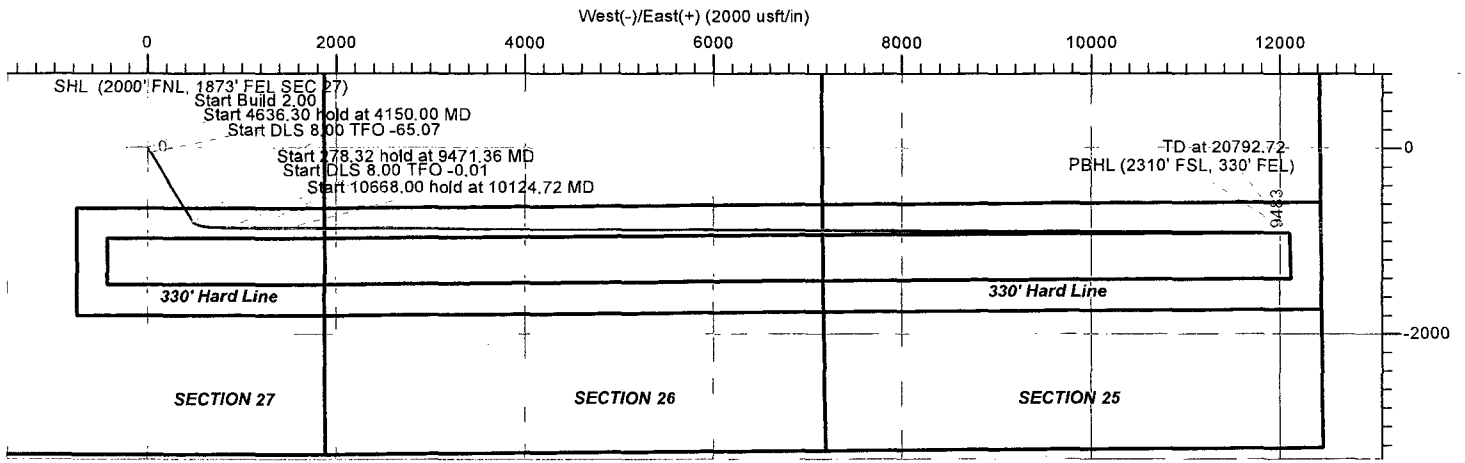
None anticipated. BHT of 170 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost 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.

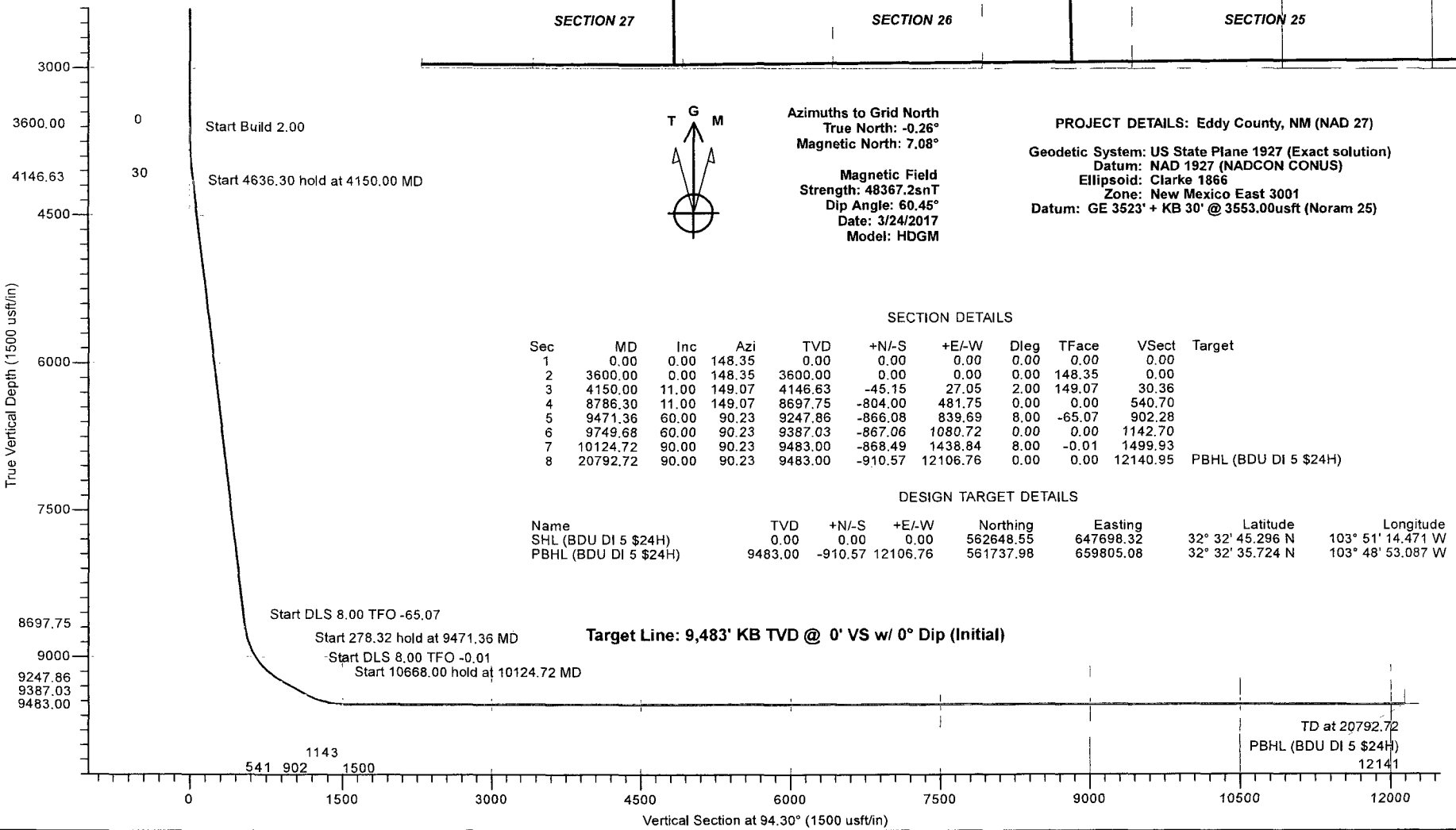
K. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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.

XTO Energy, Inc.

Project: Eddy County, NM (NAD 27)
Site: Big Eddy Unit Drilling Island 5
Well: #24H
Wellbore: OH
Design: Plan #1





Azimuths to Grid North
True North: -0.26°
Magnetic North: 7.08°

Magnetic Field
Strength: 48367.2snT
Dip Angle: 60.45°
Date: 3/24/2017
Model: HDGM

PROJECT DETAILS: Eddy County, NM (NAD 27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
Datum: GE 3523' + KB 30' @ 3553.00usft (Noram 25)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	148.35	0.00	0.00	0.00	0.00	0.00	0.00	
2	3600.00	0.00	148.35	3600.00	0.00	0.00	0.00	148.35	0.00	
3	4150.00	11.00	149.07	4146.63	-45.15	27.05	2.00	149.07	30.36	
4	8786.30	11.00	149.07	8697.75	-804.00	481.75	0.00	0.00	540.70	
5	9471.36	60.00	90.23	9247.86	-866.08	839.69	8.00	-65.07	902.28	
6	9749.68	60.00	90.23	9387.03	-867.06	1080.72	0.00	0.00	1142.70	
7	10124.72	90.00	90.23	9483.00	-868.49	1438.84	8.00	-0.01	1499.93	
8	20792.72	90.00	90.23	9483.00	-910.57	12106.76	0.00	0.00	12140.95	PBHL (BDU DI 5 $24H)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (BDU DI 5 $24H)	0.00	0.00	0.00	562648.55	647698.32	32° 32' 45.296 N	103° 51' 14.471 W
PBHL (BDU DI 5 $24H)	9483.00	-910.57	12106.76	561737.98	659805.08	32° 32' 35.724 N	103° 48' 53.087 W

LEAM Drilling Services

LEAM DRILLING SERVICES
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax: 936/756-7595

Plan: Plan #1 (#24H/OH)
Big Eddy Unit Drilling Island 5
Created By: Nora Tucker Date: 22:17, March 24 201
Date: _____
Approved: _____ Date: _____

XTO Energy, Inc.

Eddy County, NM (NAD 27)
Big Eddy Unit Drilling Island 5
#24H

OH

Plan: Plan #1

Standard Planning Report

24 March, 2017

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Big Eddy Unit Drilling Island 5

Site Position:		**Northing:**	562,648.55 usft	**Latitude:**	32° 32' 45.296 N
From:	Map	**Easting:**	647,698.32 usft	**Longitude:**	103° 51' 14.471 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.26 °

Well #24H

Well Position	**+N/-S**	0.00 usft	**Northing:**	562,648.55 usft	**Latitude:**	32° 32' 45.296 N
	+E/-W	0.00 usft	**Easting:**	647,698.32 usft	**Longitude:**	103° 51' 14.471 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,523.00 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	3/24/2017	7.33	60.45	48,367

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	94.30	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	148.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	148.35	3,600.00	0.00	0.00	0.00	0.00	0.00	148.35	
4,150.00	11.00	149.07	4,146.63	-45.15	27.05	2.00	2.00	0.00	149.07	
8,786.30	11.00	149.07	8,697.75	-804.00	481.75	0.00	0.00	0.00	0.00	
9,471.36	60.00	90.23	9,247.86	-866.08	839.69	8.00	7.15	-8.59	-65.07	
9,749.68	60.00	90.23	9,387.03	-867.06	1,080.72	0.00	0.00	0.00	0.00	
10,124.72	90.00	90.23	9,483.00	-868.49	1,438.84	8.00	8.00	0.00	-0.01	
20,792.72	90.00	90.23	9,483.00	-910.57	12,106.76	0.00	0.00	0.00	0.00	PBHL (BDU DI 5 $2

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	148.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (BDU DI 5 $24H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	148.35	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	2.00	149.07	3,699.98	-1.50	0.90	1.01	2.00	2.00	0.00
3,800.00	4.00	149.07	3,799.84	-5.99	3.59	4.03	2.00	2.00	0.00
3,900.00	6.00	149.07	3,899.45	-13.46	8.07	9.05	2.00	2.00	0.00
4,000.00	8.00	149.07	3,998.70	-23.92	14.33	16.08	2.00	2.00	0.00
4,100.00	10.00	149.07	4,097.47	-37.33	22.37	25.11	2.00	2.00	0.00
4,150.00	11.00	149.07	4,146.63	-45.15	27.05	30.36	2.00	2.00	0.00
4,200.00	11.00	149.07	4,195.71	-53.33	31.96	35.87	0.00	0.00	0.00
4,300.00	11.00	149.07	4,293.87	-69.70	41.76	46.87	0.00	0.00	0.00
4,400.00	11.00	149.07	4,392.03	-86.07	51.57	57.88	0.00	0.00	0.00
4,500.00	11.00	149.07	4,490.20	-102.44	61.38	68.89	0.00	0.00	0.00
4,600.00	11.00	149.07	4,588.36	-118.80	71.19	79.90	0.00	0.00	0.00
4,700.00	11.00	149.07	4,686.52	-135.17	80.99	90.90	0.00	0.00	0.00
4,800.00	11.00	149.07	4,784.69	-151.54	90.80	101.91	0.00	0.00	0.00
4,900.00	11.00	149.07	4,882.85	-167.91	100.61	112.92	0.00	0.00	0.00
5,000.00	11.00	149.07	4,981.01	-184.27	110.42	123.93	0.00	0.00	0.00
5,100.00	11.00	149.07	5,079.17	-200.64	120.22	134.93	0.00	0.00	0.00

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	11.00	149.07	5,177.34	-217.01	130.03	145.94	0.00	0.00	0.00
5,300.00	11.00	149.07	5,275.50	-233.38	139.84	156.95	0.00	0.00	0.00
5,400.00	11.00	149.07	5,373.66	-249.74	149.65	167.96	0.00	0.00	0.00
5,500.00	11.00	149.07	5,471.82	-266.11	159.45	178.96	0.00	0.00	0.00
5,600.00	11.00	149.07	5,569.99	-282.48	169.26	189.97	0.00	0.00	0.00
5,700.00	11.00	149.07	5,668.15	-298.85	179.07	200.98	0.00	0.00	0.00
5,800.00	11.00	149.07	5,766.31	-315.21	188.88	211.98	0.00	0.00	0.00
5,900.00	11.00	149.07	5,864.48	-331.58	198.68	222.99	0.00	0.00	0.00
6,000.00	11.00	149.07	5,962.64	-347.95	208.49	234.00	0.00	0.00	0.00
6,100.00	11.00	149.07	6,060.80	-364.32	218.30	245.01	0.00	0.00	0.00
6,200.00	11.00	149.07	6,158.96	-380.68	228.11	256.01	0.00	0.00	0.00
6,300.00	11.00	149.07	6,257.13	-397.05	237.91	267.02	0.00	0.00	0.00
6,400.00	11.00	149.07	6,355.29	-413.42	247.72	278.03	0.00	0.00	0.00
6,500.00	11.00	149.07	6,453.45	-429.79	257.53	289.04	0.00	0.00	0.00
6,600.00	11.00	149.07	6,551.61	-446.15	267.33	300.04	0.00	0.00	0.00
6,700.00	11.00	149.07	6,649.78	-462.52	277.14	311.05	0.00	0.00	0.00
6,800.00	11.00	149.07	6,747.94	-478.89	286.95	322.06	0.00	0.00	0.00
6,900.00	11.00	149.07	6,846.10	-495.26	296.76	333.07	0.00	0.00	0.00
7,000.00	11.00	149.07	6,944.27	-511.62	306.56	344.07	0.00	0.00	0.00
7,100.00	11.00	149.07	7,042.43	-527.99	316.37	355.08	0.00	0.00	0.00
7,200.00	11.00	149.07	7,140.59	-544.36	326.18	366.09	0.00	0.00	0.00
7,300.00	11.00	149.07	7,238.75	-560.73	335.99	377.09	0.00	0.00	0.00
7,400.00	11.00	149.07	7,336.92	-577.09	345.79	388.10	0.00	0.00	0.00
7,500.00	11.00	149.07	7,435.08	-593.46	355.60	399.11	0.00	0.00	0.00
7,600.00	11.00	149.07	7,533.24	-609.83	365.41	410.12	0.00	0.00	0.00
7,700.00	11.00	149.07	7,631.40	-626.20	375.22	421.12	0.00	0.00	0.00
7,800.00	11.00	149.07	7,729.57	-642.56	385.02	432.13	0.00	0.00	0.00
7,900.00	11.00	149.07	7,827.73	-658.93	394.83	443.14	0.00	0.00	0.00
8,000.00	11.00	149.07	7,925.89	-675.30	404.64	454.15	0.00	0.00	0.00
8,100.00	11.00	149.07	8,024.06	-691.67	414.45	465.15	0.00	0.00	0.00
8,200.00	11.00	149.07	8,122.22	-708.03	424.25	476.16	0.00	0.00	0.00
8,300.00	11.00	149.07	8,220.38	-724.40	434.06	487.17	0.00	0.00	0.00
8,400.00	11.00	149.07	8,318.54	-740.77	443.87	498.18	0.00	0.00	0.00
8,500.00	11.00	149.07	8,416.71	-757.14	453.68	509.18	0.00	0.00	0.00
8,600.00	11.00	149.07	8,514.87	-773.50	463.48	520.19	0.00	0.00	0.00
8,700.00	11.00	149.07	8,613.03	-789.87	473.29	531.20	0.00	0.00	0.00
8,786.30	11.00	149.07	8,697.75	-804.00	481.75	540.70	0.00	0.00	0.00
8,800.00	11.50	144.08	8,711.18	-806.22	483.23	542.33	8.00	3.68	-36.42
8,850.00	13.93	129.52	8,759.97	-814.09	490.80	550.47	8.00	4.85	-29.12
8,900.00	16.95	119.61	8,808.16	-821.53	501.78	561.98	8.00	6.04	-19.81
8,950.00	20.30	112.76	8,855.54	-828.49	516.12	576.80	8.00	6.71	-13.71
9,000.00	23.85	107.83	8,901.88	-834.94	533.75	594.87	8.00	7.09	-9.87
9,050.00	27.52	104.12	8,946.93	-840.86	554.58	616.08	8.00	7.33	-7.41
9,100.00	31.26	101.23	8,990.49	-846.20	578.52	640.35	8.00	7.48	-5.77
9,150.00	35.05	98.91	9,032.35	-850.96	605.44	667.55	8.00	7.59	-4.64
9,200.00	38.88	96.99	9,072.29	-855.09	635.21	697.55	8.00	7.66	-3.84
9,250.00	42.74	95.37	9,110.13	-858.59	667.69	730.20	8.00	7.71	-3.25
9,300.00	46.62	93.97	9,145.67	-861.44	702.72	765.35	8.00	7.75	-2.80
9,350.00	50.51	92.74	9,178.76	-863.62	740.13	802.82	8.00	7.78	-2.47
9,400.00	54.41	91.63	9,209.22	-865.12	779.74	842.43	8.00	7.81	-2.20
9,450.00	58.32	90.63	9,236.91	-865.94	821.35	883.99	8.00	7.83	-2.00
9,471.36	60.00	90.23	9,247.86	-866.08	839.69	902.28	8.00	7.84	-1.88
9,500.00	60.00	90.23	9,262.18	-866.18	864.49	927.02	0.00	0.00	0.00
9,600.00	60.00	90.23	9,312.18	-866.53	951.09	1,013.41	0.00	0.00	0.00

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	60.00	90.23	9,362.19	-866.88	1,037.69	1,099.79	0.00	0.00	0.00
9,749.68	60.00	90.23	9,387.03	-867.06	1,080.72	1,142.70	0.00	0.00	0.00
9,800.00	64.02	90.23	9,410.64	-867.24	1,125.14	1,187.01	8.00	8.00	0.00
9,850.00	68.02	90.23	9,430.96	-867.42	1,170.82	1,232.58	8.00	8.00	0.00
9,900.00	72.02	90.23	9,448.03	-867.61	1,217.80	1,279.44	8.00	8.00	0.00
9,950.00	76.02	90.23	9,461.79	-867.80	1,265.86	1,327.38	8.00	8.00	0.00
10,000.00	80.02	90.23	9,472.17	-868.00	1,314.76	1,376.15	8.00	8.00	0.00
10,050.00	84.02	90.23	9,479.11	-868.20	1,364.26	1,425.54	8.00	8.00	0.00
10,100.00	88.02	90.23	9,482.57	-868.39	1,414.13	1,475.28	8.00	8.00	0.00
10,124.72	90.00	90.23	9,483.00	-868.49	1,438.84	1,499.93	8.00	8.00	0.00
10,200.00	90.00	90.23	9,483.00	-868.79	1,514.13	1,575.02	0.00	0.00	0.00
10,300.00	90.00	90.23	9,483.00	-869.18	1,614.13	1,674.77	0.00	0.00	0.00
10,400.00	90.00	90.23	9,483.00	-869.58	1,714.13	1,774.52	0.00	0.00	0.00
10,500.00	90.00	90.23	9,483.00	-869.97	1,814.12	1,874.26	0.00	0.00	0.00
10,600.00	90.00	90.23	9,483.00	-870.37	1,914.12	1,974.01	0.00	0.00	0.00
10,700.00	90.00	90.23	9,483.00	-870.76	2,014.12	2,073.76	0.00	0.00	0.00
10,800.00	90.00	90.23	9,483.00	-871.15	2,114.12	2,173.50	0.00	0.00	0.00
10,900.00	90.00	90.23	9,483.00	-871.55	2,214.12	2,273.25	0.00	0.00	0.00
11,000.00	90.00	90.23	9,483.00	-871.94	2,314.12	2,373.00	0.00	0.00	0.00
11,100.00	90.00	90.23	9,483.00	-872.34	2,414.12	2,472.75	0.00	0.00	0.00
11,200.00	90.00	90.23	9,483.00	-872.73	2,514.12	2,572.49	0.00	0.00	0.00
11,300.00	90.00	90.23	9,483.00	-873.13	2,614.12	2,672.24	0.00	0.00	0.00
11,400.00	90.00	90.23	9,483.00	-873.52	2,714.12	2,771.99	0.00	0.00	0.00
11,500.00	90.00	90.23	9,483.00	-873.92	2,814.12	2,871.73	0.00	0.00	0.00
11,600.00	90.00	90.23	9,483.00	-874.31	2,914.12	2,971.48	0.00	0.00	0.00
11,700.00	90.00	90.23	9,483.00	-874.70	3,014.12	3,071.23	0.00	0.00	0.00
11,800.00	90.00	90.23	9,483.00	-875.10	3,114.11	3,170.98	0.00	0.00	0.00
11,900.00	90.00	90.23	9,483.00	-875.49	3,214.11	3,270.72	0.00	0.00	0.00
12,000.00	90.00	90.23	9,483.00	-875.89	3,314.11	3,370.47	0.00	0.00	0.00
12,100.00	90.00	90.23	9,483.00	-876.28	3,414.11	3,470.22	0.00	0.00	0.00
12,200.00	90.00	90.23	9,483.00	-876.68	3,514.11	3,569.96	0.00	0.00	0.00
12,300.00	90.00	90.23	9,483.00	-877.07	3,614.11	3,669.71	0.00	0.00	0.00
12,400.00	90.00	90.23	9,483.00	-877.47	3,714.11	3,769.46	0.00	0.00	0.00
12,500.00	90.00	90.23	9,483.00	-877.86	3,814.11	3,869.21	0.00	0.00	0.00
12,600.00	90.00	90.23	9,483.00	-878.25	3,914.11	3,968.95	0.00	0.00	0.00
12,700.00	90.00	90.23	9,483.00	-878.65	4,014.11	4,068.70	0.00	0.00	0.00
12,800.00	90.00	90.23	9,483.00	-879.04	4,114.11	4,168.45	0.00	0.00	0.00
12,900.00	90.00	90.23	9,483.00	-879.44	4,214.11	4,268.19	0.00	0.00	0.00
13,000.00	90.00	90.23	9,483.00	-879.83	4,314.11	4,367.94	0.00	0.00	0.00
13,100.00	90.00	90.23	9,483.00	-880.23	4,414.10	4,467.69	0.00	0.00	0.00
13,200.00	90.00	90.23	9,483.00	-880.62	4,514.10	4,567.44	0.00	0.00	0.00
13,300.00	90.00	90.23	9,483.00	-881.02	4,614.10	4,667.18	0.00	0.00	0.00
13,400.00	90.00	90.23	9,483.00	-881.41	4,714.10	4,766.93	0.00	0.00	0.00
13,500.00	90.00	90.23	9,483.00	-881.80	4,814.10	4,866.68	0.00	0.00	0.00
13,600.00	90.00	90.23	9,483.00	-882.20	4,914.10	4,966.43	0.00	0.00	0.00
13,700.00	90.00	90.23	9,483.00	-882.59	5,014.10	5,066.17	0.00	0.00	0.00
13,800.00	90.00	90.23	9,483.00	-882.99	5,114.10	5,165.92	0.00	0.00	0.00
13,900.00	90.00	90.23	9,483.00	-883.38	5,214.10	5,265.67	0.00	0.00	0.00
14,000.00	90.00	90.23	9,483.00	-883.78	5,314.10	5,365.41	0.00	0.00	0.00
14,100.00	90.00	90.23	9,483.00	-884.17	5,414.10	5,465.16	0.00	0.00	0.00
14,200.00	90.00	90.23	9,483.00	-884.57	5,514.10	5,564.91	0.00	0.00	0.00
14,300.00	90.00	90.23	9,483.00	-884.96	5,614.10	5,664.66	0.00	0.00	0.00
14,400.00	90.00	90.23	9,483.00	-885.35	5,714.09	5,764.40	0.00	0.00	0.00
14,500.00	90.00	90.23	9,483.00	-885.75	5,814.09	5,864.15	0.00	0.00	0.00

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,600.00	90.00	90.23	9,483.00	-886.14	5,914.09	5,963.90	0.00	0.00	0.00
14,700.00	90.00	90.23	9,483.00	-886.54	6,014.09	6,063.64	0.00	0.00	0.00
14,800.00	90.00	90.23	9,483.00	-886.93	6,114.09	6,163.39	0.00	0.00	0.00
14,900.00	90.00	90.23	9,483.00	-887.33	6,214.09	6,263.14	0.00	0.00	0.00
15,000.00	90.00	90.23	9,483.00	-887.72	6,314.09	6,362.89	0.00	0.00	0.00
15,100.00	90.00	90.23	9,483.00	-888.12	6,414.09	6,462.63	0.00	0.00	0.00
15,200.00	90.00	90.23	9,483.00	-888.51	6,514.09	6,562.38	0.00	0.00	0.00
15,300.00	90.00	90.23	9,483.00	-888.90	6,614.09	6,662.13	0.00	0.00	0.00
15,400.00	90.00	90.23	9,483.00	-889.30	6,714.09	6,761.87	0.00	0.00	0.00
15,500.00	90.00	90.23	9,483.00	-889.69	6,814.09	6,861.62	0.00	0.00	0.00
15,600.00	90.00	90.23	9,483.00	-890.09	6,914.09	6,961.37	0.00	0.00	0.00
15,700.00	90.00	90.23	9,483.00	-890.48	7,014.08	7,061.12	0.00	0.00	0.00
15,800.00	90.00	90.23	9,483.00	-890.88	7,114.08	7,160.86	0.00	0.00	0.00
15,900.00	90.00	90.23	9,483.00	-891.27	7,214.08	7,260.61	0.00	0.00	0.00
16,000.00	90.00	90.23	9,483.00	-891.67	7,314.08	7,360.36	0.00	0.00	0.00
16,100.00	90.00	90.23	9,483.00	-892.06	7,414.08	7,460.10	0.00	0.00	0.00
16,200.00	90.00	90.23	9,483.00	-892.45	7,514.08	7,559.85	0.00	0.00	0.00
16,300.00	90.00	90.23	9,483.00	-892.85	7,614.08	7,659.60	0.00	0.00	0.00
16,400.00	90.00	90.23	9,483.00	-893.24	7,714.08	7,759.35	0.00	0.00	0.00
16,500.00	90.00	90.23	9,483.00	-893.64	7,814.08	7,859.09	0.00	0.00	0.00
16,600.00	90.00	90.23	9,483.00	-894.03	7,914.08	7,958.84	0.00	0.00	0.00
16,700.00	90.00	90.23	9,483.00	-894.43	8,014.08	8,058.59	0.00	0.00	0.00
16,800.00	90.00	90.23	9,483.00	-894.82	8,114.08	8,158.33	0.00	0.00	0.00
16,900.00	90.00	90.23	9,483.00	-895.22	8,214.07	8,258.08	0.00	0.00	0.00
17,000.00	90.00	90.23	9,483.00	-895.61	8,314.07	8,357.83	0.00	0.00	0.00
17,100.00	90.00	90.23	9,483.00	-896.00	8,414.07	8,457.58	0.00	0.00	0.00
17,200.00	90.00	90.23	9,483.00	-896.40	8,514.07	8,557.32	0.00	0.00	0.00
17,300.00	90.00	90.23	9,483.00	-896.79	8,614.07	8,657.07	0.00	0.00	0.00
17,400.00	90.00	90.23	9,483.00	-897.19	8,714.07	8,756.82	0.00	0.00	0.00
17,500.00	90.00	90.23	9,483.00	-897.58	8,814.07	8,856.56	0.00	0.00	0.00
17,600.00	90.00	90.23	9,483.00	-897.98	8,914.07	8,956.31	0.00	0.00	0.00
17,700.00	90.00	90.23	9,483.00	-898.37	9,014.07	9,056.06	0.00	0.00	0.00
17,800.00	90.00	90.23	9,483.00	-898.77	9,114.07	9,155.81	0.00	0.00	0.00
17,900.00	90.00	90.23	9,483.00	-899.16	9,214.07	9,255.55	0.00	0.00	0.00
18,000.00	90.00	90.23	9,483.00	-899.55	9,314.07	9,355.30	0.00	0.00	0.00
18,100.00	90.00	90.23	9,483.00	-899.95	9,414.07	9,455.05	0.00	0.00	0.00
18,200.00	90.00	90.23	9,483.00	-900.34	9,514.06	9,554.79	0.00	0.00	0.00
18,300.00	90.00	90.23	9,483.00	-900.74	9,614.06	9,654.54	0.00	0.00	0.00
18,400.00	90.00	90.23	9,483.00	-901.13	9,714.06	9,754.29	0.00	0.00	0.00
18,500.00	90.00	90.23	9,483.00	-901.53	9,814.06	9,854.04	0.00	0.00	0.00
18,600.00	90.00	90.23	9,483.00	-901.92	9,914.06	9,953.78	0.00	0.00	0.00
18,700.00	90.00	90.23	9,483.00	-902.32	10,014.06	10,053.53	0.00	0.00	0.00
18,800.00	90.00	90.23	9,483.00	-902.71	10,114.06	10,153.28	0.00	0.00	0.00
18,900.00	90.00	90.23	9,483.00	-903.10	10,214.06	10,253.02	0.00	0.00	0.00
19,000.00	90.00	90.23	9,483.00	-903.50	10,314.06	10,352.77	0.00	0.00	0.00
19,100.00	90.00	90.23	9,483.00	-903.89	10,414.06	10,452.52	0.00	0.00	0.00
19,200.00	90.00	90.23	9,483.00	-904.29	10,514.06	10,552.27	0.00	0.00	0.00
19,300.00	90.00	90.23	9,483.00	-904.68	10,614.06	10,652.01	0.00	0.00	0.00
19,400.00	90.00	90.23	9,483.00	-905.08	10,714.06	10,751.76	0.00	0.00	0.00
19,500.00	90.00	90.23	9,483.00	-905.47	10,814.05	10,851.51	0.00	0.00	0.00
19,600.00	90.00	90.23	9,483.00	-905.87	10,914.05	10,951.25	0.00	0.00	0.00
19,700.00	90.00	90.23	9,483.00	-906.26	11,014.05	11,051.00	0.00	0.00	0.00
19,800.00	90.00	90.23	9,483.00	-906.65	11,114.05	11,150.75	0.00	0.00	0.00
19,900.00	90.00	90.23	9,483.00	-907.05	11,214.05	11,250.50	0.00	0.00	0.00

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,000.00	90.00	90.23	9,483.00	-907.44	11,314.05	11,350.24	0.00	0.00	0.00
20,100.00	90.00	90.23	9,483.00	-907.84	11,414.05	11,449.99	0.00	0.00	0.00
20,200.00	90.00	90.23	9,483.00	-908.23	11,514.05	11,549.74	0.00	0.00	0.00
20,300.00	90.00	90.23	9,483.00	-908.63	11,614.05	11,649.49	0.00	0.00	0.00
20,400.00	90.00	90.23	9,483.00	-909.02	11,714.05	11,749.23	0.00	0.00	0.00
20,500.00	90.00	90.23	9,483.00	-909.42	11,814.05	11,848.98	0.00	0.00	0.00
20,600.00	90.00	90.23	9,483.00	-909.81	11,914.05	11,948.73	0.00	0.00	0.00
20,700.00	90.00	90.23	9,483.00	-910.20	12,014.05	12,048.47	0.00	0.00	0.00
20,792.72	90.00	90.23	9,483.00	-910.57	12,106.76	12,140.95	0.00	0.00	0.00
PBHL (BDU DI 5 $24H)									

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
SHL (BDU DI 5 $24H) - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
PBHL (BDU DI 5 $24I - plan hits target center - Point	0.00	0.01	9,483.00	-910.57	12,106.76	561,737.98	659,805.08	32° 32' 35.724 N	103° 48' 53.087 W

XTO Energy, Inc.

Eddy County, NM (NAD 27)
Big Eddy Unit Drilling Island 5
#24H

OH

Plan: Plan #1

Standard Planning Report - Geographic

24 March, 2017

LEAM Drilling Systems LLC

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Big Eddy Unit Drilling Island 5

Site Position:		**Northing:**	562,648.55 usft	**Latitude:**	32° 32' 45.296 N
From:	Map	**Easting:**	647,698.32 usft	**Longitude:**	103° 51' 14.471 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.26 °

Well #24H

Well Position	**+N/-S**	0.00 usft	**Northing:**	562,648.55 usft	**Latitude:**	32° 32' 45.296 N
	+E/-W	0.00 usft	**Easting:**	647,698.32 usft	**Longitude:**	103° 51' 14.471 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,523.00 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	3/24/2017	7.33	60.45	48,367

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	94.30

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	148.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	148.35	3,600.00	0.00	0.00	0.00	0.00	0.00	148.35	
4,150.00	11.00	149.07	4,146.63	-45.15	27.05	2.00	2.00	0.00	149.07	
8,786.30	11.00	149.07	8,697.75	-804.00	481.75	0.00	0.00	0.00	0.00	
9,471.36	60.00	90.23	9,247.86	-866.08	839.69	8.00	7.15	-8.59	-65.07	
9,749.68	60.00	90.23	9,387.03	-867.06	1,080.72	0.00	0.00	0.00	0.00	
10,124.72	90.00	90.23	9,483.00	-868.49	1,438.84	8.00	8.00	0.00	-0.01	
20,792.72	90.00	90.23	9,483.00	-910.57	12,106.76	0.00	0.00	0.00	0.00	PBHL (BDU DI 5 $2

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	148.35	0.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
SHL (BDU DI 5 $24H)									
100.00	0.00	0.00	100.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
200.00	0.00	0.00	200.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
300.00	0.00	0.00	300.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
400.00	0.00	0.00	400.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
500.00	0.00	0.00	500.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
600.00	0.00	0.00	600.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
700.00	0.00	0.00	700.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
800.00	0.00	0.00	800.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
900.00	0.00	0.00	900.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,100.00	0.00	0.00	1,100.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,200.00	0.00	0.00	1,200.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,300.00	0.00	0.00	1,300.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,400.00	0.00	0.00	1,400.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,500.00	0.00	0.00	1,500.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,600.00	0.00	0.00	1,600.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,700.00	0.00	0.00	1,700.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,800.00	0.00	0.00	1,800.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
1,900.00	0.00	0.00	1,900.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,000.00	0.00	0.00	2,000.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,100.00	0.00	0.00	2,100.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,200.00	0.00	0.00	2,200.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,300.00	0.00	0.00	2,300.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,400.00	0.00	0.00	2,400.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,500.00	0.00	0.00	2,500.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,600.00	0.00	0.00	2,600.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,700.00	0.00	0.00	2,700.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,800.00	0.00	0.00	2,800.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
2,900.00	0.00	0.00	2,900.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,000.00	0.00	0.00	3,000.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,100.00	0.00	0.00	3,100.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,200.00	0.00	0.00	3,200.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,300.00	0.00	0.00	3,300.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,400.00	0.00	0.00	3,400.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,500.00	0.00	0.00	3,500.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,600.00	0.00	148.35	3,600.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
3,700.00	2.00	149.07	3,699.98	-1.50	0.90	562,647.06	647,699.22	32° 32' 45.281 N	103° 51' 14.461 W
3,800.00	4.00	149.07	3,799.84	-5.99	3.59	562,642.57	647,701.91	32° 32' 45.236 N	103° 51' 14.430 W
3,900.00	6.00	149.07	3,899.45	-13.46	8.07	562,635.09	647,706.39	32° 32' 45.162 N	103° 51' 14.378 W
4,000.00	8.00	149.07	3,998.70	-23.92	14.33	562,624.64	647,712.65	32° 32' 45.058 N	103° 51' 14.305 W
4,100.00	10.00	149.07	4,097.47	-37.33	22.37	562,611.22	647,720.69	32° 32' 44.925 N	103° 51' 14.212 W
4,150.00	11.00	149.07	4,146.63	-45.15	27.05	562,603.40	647,725.38	32° 32' 44.848 N	103° 51' 14.158 W
4,200.00	11.00	149.07	4,195.71	-53.33	31.96	562,595.22	647,730.28	32° 32' 44.766 N	103° 51' 14.101 W
4,300.00	11.00	149.07	4,293.87	-69.70	41.76	562,578.85	647,740.09	32° 32' 44.604 N	103° 51' 13.987 W
4,400.00	11.00	149.07	4,392.03	-86.07	51.57	562,562.48	647,749.90	32° 32' 44.442 N	103° 51' 13.873 W
4,500.00	11.00	149.07	4,490.20	-102.44	61.38	562,546.12	647,759.70	32° 32' 44.279 N	103° 51' 13.760 W
4,600.00	11.00	149.07	4,588.36	-118.80	71.19	562,529.75	647,769.51	32° 32' 44.117 N	103° 51' 13.646 W
4,700.00	11.00	149.07	4,686.52	-135.17	80.99	562,513.38	647,779.32	32° 32' 43.954 N	103° 51' 13.532 W
4,800.00	11.00	149.07	4,784.69	-151.54	90.80	562,497.01	647,789.13	32° 32' 43.792 N	103° 51' 13.418 W
4,900.00	11.00	149.07	4,882.85	-167.91	100.61	562,480.65	647,798.93	32° 32' 43.630 N	103° 51' 13.305 W
5,000.00	11.00	149.07	4,981.01	-184.27	110.42	562,464.28	647,808.74	32° 32' 43.467 N	103° 51' 13.191 W
5,100.00	11.00	149.07	5,079.17	-200.64	120.22	562,447.91	647,818.55	32° 32' 43.305 N	103° 51' 13.077 W

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.00	11.00	149.07	5,177.34	-217.01	130.03	562,431.54	647,828.36	32° 32' 43.142 N	103° 51' 12.964 W
5,300.00	11.00	149.07	5,275.50	-233.38	139.84	562,415.18	647,838.16	32° 32' 42.980 N	103° 51' 12.850 W
5,400.00	11.00	149.07	5,373.66	-249.74	149.65	562,398.81	647,847.97	32° 32' 42.818 N	103° 51' 12.736 W
5,500.00	11.00	149.07	5,471.82	-266.11	159.45	562,382.44	647,857.78	32° 32' 42.655 N	103° 51' 12.622 W
5,600.00	11.00	149.07	5,569.99	-282.48	169.26	562,366.07	647,867.59	32° 32' 42.493 N	103° 51' 12.509 W
5,700.00	11.00	149.07	5,668.15	-298.85	179.07	562,349.71	647,877.39	32° 32' 42.330 N	103° 51' 12.395 W
5,800.00	11.00	149.07	5,766.31	-315.21	188.88	562,333.34	647,887.20	32° 32' 42.168 N	103° 51' 12.281 W
5,900.00	11.00	149.07	5,864.48	-331.58	198.68	562,316.97	647,897.01	32° 32' 42.006 N	103° 51' 12.168 W
6,000.00	11.00	149.07	5,962.64	-347.95	208.49	562,300.60	647,906.81	32° 32' 41.843 N	103° 51' 12.054 W
6,100.00	11.00	149.07	6,060.80	-364.32	218.30	562,284.24	647,916.62	32° 32' 41.681 N	103° 51' 11.940 W
6,200.00	11.00	149.07	6,158.96	-380.68	228.11	562,267.87	647,926.43	32° 32' 41.518 N	103° 51' 11.826 W
6,300.00	11.00	149.07	6,257.13	-397.05	237.91	562,251.50	647,936.24	32° 32' 41.356 N	103° 51' 11.713 W
6,400.00	11.00	149.07	6,355.29	-413.42	247.72	562,235.13	647,946.04	32° 32' 41.194 N	103° 51' 11.599 W
6,500.00	11.00	149.07	6,453.45	-429.79	257.53	562,218.77	647,955.85	32° 32' 41.031 N	103° 51' 11.485 W
6,600.00	11.00	149.07	6,551.61	-446.15	267.33	562,202.40	647,965.66	32° 32' 40.869 N	103° 51' 11.372 W
6,700.00	11.00	149.07	6,649.78	-462.52	277.14	562,186.03	647,975.47	32° 32' 40.706 N	103° 51' 11.258 W
6,800.00	11.00	149.07	6,747.94	-478.89	286.95	562,169.66	647,985.27	32° 32' 40.544 N	103° 51' 11.144 W
6,900.00	11.00	149.07	6,846.10	-495.26	296.76	562,153.30	647,995.08	32° 32' 40.382 N	103° 51' 11.030 W
7,000.00	11.00	149.07	6,944.27	-511.62	306.56	562,136.93	648,004.89	32° 32' 40.219 N	103° 51' 10.917 W
7,100.00	11.00	149.07	7,042.43	-527.99	316.37	562,120.56	648,014.70	32° 32' 40.057 N	103° 51' 10.803 W
7,200.00	11.00	149.07	7,140.59	-544.36	326.18	562,104.19	648,024.50	32° 32' 39.894 N	103° 51' 10.689 W
7,300.00	11.00	149.07	7,238.75	-560.73	335.99	562,087.83	648,034.31	32° 32' 39.732 N	103° 51' 10.576 W
7,400.00	11.00	149.07	7,336.92	-577.09	345.79	562,071.46	648,044.12	32° 32' 39.570 N	103° 51' 10.462 W
7,500.00	11.00	149.07	7,435.08	-593.46	355.60	562,055.09	648,053.93	32° 32' 39.407 N	103° 51' 10.348 W
7,600.00	11.00	149.07	7,533.24	-609.83	365.41	562,038.72	648,063.73	32° 32' 39.245 N	103° 51' 10.234 W
7,700.00	11.00	149.07	7,631.40	-626.20	375.22	562,022.36	648,073.54	32° 32' 39.082 N	103° 51' 10.121 W
7,800.00	11.00	149.07	7,729.57	-642.56	385.02	562,005.99	648,083.35	32° 32' 38.920 N	103° 51' 10.007 W
7,900.00	11.00	149.07	7,827.73	-658.93	394.83	561,989.62	648,093.16	32° 32' 38.757 N	103° 51' 9.893 W
8,000.00	11.00	149.07	7,925.89	-675.30	404.64	561,973.25	648,102.96	32° 32' 38.595 N	103° 51' 9.780 W
8,100.00	11.00	149.07	8,024.06	-691.67	414.45	561,956.89	648,112.77	32° 32' 38.433 N	103° 51' 9.666 W
8,200.00	11.00	149.07	8,122.22	-708.03	424.25	561,940.52	648,122.58	32° 32' 38.270 N	103° 51' 9.552 W
8,300.00	11.00	149.07	8,220.38	-724.40	434.06	561,924.15	648,132.39	32° 32' 38.108 N	103° 51' 9.439 W
8,400.00	11.00	149.07	8,318.54	-740.77	443.87	561,907.78	648,142.19	32° 32' 37.945 N	103° 51' 9.325 W
8,500.00	11.00	149.07	8,416.71	-757.14	453.68	561,891.42	648,152.00	32° 32' 37.783 N	103° 51' 9.211 W
8,600.00	11.00	149.07	8,514.87	-773.50	463.48	561,875.05	648,161.81	32° 32' 37.621 N	103° 51' 9.097 W
8,700.00	11.00	149.07	8,613.03	-789.87	473.29	561,858.68	648,171.61	32° 32' 37.458 N	103° 51' 8.984 W
8,786.30	11.00	149.07	8,697.75	-804.00	481.75	561,844.56	648,180.08	32° 32' 37.318 N	103° 51' 8.886 W
8,800.00	11.50	144.08	8,711.18	-806.22	483.23	561,842.33	648,181.55	32° 32' 37.296 N	103° 51' 8.868 W
8,850.00	13.93	129.52	8,759.97	-814.09	490.80	561,834.46	648,189.12	32° 32' 37.218 N	103° 51' 8.780 W
8,900.00	16.95	119.61	8,808.16	-821.53	501.78	561,827.02	648,200.10	32° 32' 37.144 N	103° 51' 8.653 W
8,950.00	20.30	112.76	8,855.54	-828.49	516.12	561,820.06	648,214.44	32° 32' 37.074 N	103° 51' 8.485 W
9,000.00	23.85	107.83	8,901.88	-834.94	533.75	561,813.61	648,232.07	32° 32' 37.010 N	103° 51' 8.280 W
9,050.00	27.52	104.12	8,946.93	-840.86	554.58	561,807.70	648,252.91	32° 32' 36.950 N	103° 51' 8.037 W
9,100.00	31.26	101.23	8,990.49	-846.20	578.52	561,802.35	648,276.84	32° 32' 36.896 N	103° 51' 7.757 W
9,150.00	35.05	98.91	9,032.35	-850.96	605.44	561,797.60	648,303.76	32° 32' 36.848 N	103° 51' 7.443 W
9,200.00	38.88	96.99	9,072.29	-855.09	635.21	561,793.46	648,333.53	32° 32' 36.806 N	103° 51' 7.096 W
9,250.00	42.74	95.37	9,110.13	-858.59	667.69	561,789.96	648,366.01	32° 32' 36.770 N	103° 51' 6.716 W
9,300.00	46.62	93.97	9,145.67	-861.44	702.72	561,787.11	648,401.05	32° 32' 36.740 N	103° 51' 6.307 W
9,350.00	50.51	92.74	9,178.76	-863.62	740.13	561,784.93	648,438.46	32° 32' 36.717 N	103° 51' 5.870 W
9,400.00	54.41	91.63	9,209.22	-865.12	779.74	561,783.43	648,478.07	32° 32' 36.700 N	103° 51' 5.408 W
9,450.00	58.32	90.63	9,236.91	-865.94	821.35	561,782.62	648,519.68	32° 32' 36.690 N	103° 51' 4.922 W
9,471.36	60.00	90.23	9,247.86	-866.08	839.69	561,782.48	648,538.02	32° 32' 36.688 N	103° 51' 4.707 W
9,500.00	60.00	90.23	9,262.18	-866.18	864.49	561,782.38	648,562.82	32° 32' 36.686 N	103° 51' 4.418 W
9,600.00	60.00	90.23	9,312.18	-866.53	951.09	561,782.02	648,649.42	32° 32' 36.678 N	103° 51' 3.406 W
9,700.00	60.00	90.23	9,362.19	-866.88	1,037.69	561,781.67	648,736.02	32° 32' 36.671 N	103° 51' 2.394 W

LEAM Drilling Systems LLC

Planning Report - Geographic

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,749.68	60.00	90.23	9,387.03	-867.06	1,080.72	561,781.50	648,779.04	32° 32' 36.667 N	103° 51' 1.892 W
9,800.00	64.02	90.23	9,410.64	-867.24	1,125.14	561,781.32	648,823.47	32° 32' 36.663 N	103° 51' 1.373 W
9,850.00	68.02	90.23	9,430.96	-867.42	1,170.82	561,781.13	648,869.14	32° 32' 36.660 N	103° 51' 0.839 W
9,900.00	72.02	90.23	9,448.03	-867.61	1,217.80	561,780.94	648,916.12	32° 32' 36.656 N	103° 51' 0.290 W
9,950.00	76.02	90.23	9,461.79	-867.80	1,265.86	561,780.75	648,964.18	32° 32' 36.652 N	103° 50' 59.729 W
10,000.00	80.02	90.23	9,472.17	-868.00	1,314.76	561,780.55	649,013.08	32° 32' 36.647 N	103° 50' 59.158 W
10,050.00	84.02	90.23	9,479.11	-868.20	1,364.26	561,780.36	649,062.59	32° 32' 36.643 N	103° 50' 58.579 W
10,100.00	88.02	90.23	9,482.57	-868.39	1,414.13	561,780.16	649,112.46	32° 32' 36.639 N	103° 50' 57.997 W
10,124.72	90.00	90.23	9,483.00	-868.49	1,438.84	561,780.06	649,137.17	32° 32' 36.637 N	103° 50' 57.708 W
10,200.00	90.00	90.23	9,483.00	-868.79	1,514.13	561,779.76	649,212.45	32° 32' 36.631 N	103° 50' 56.829 W
10,300.00	90.00	90.23	9,483.00	-869.18	1,614.13	561,779.37	649,312.45	32° 32' 36.622 N	103° 50' 55.660 W
10,400.00	90.00	90.23	9,483.00	-869.58	1,714.13	561,778.98	649,412.45	32° 32' 36.614 N	103° 50' 54.492 W
10,500.00	90.00	90.23	9,483.00	-869.97	1,814.12	561,778.58	649,512.45	32° 32' 36.605 N	103° 50' 53.324 W
10,600.00	90.00	90.23	9,483.00	-870.37	1,914.12	561,778.19	649,612.45	32° 32' 36.597 N	103° 50' 52.156 W
10,700.00	90.00	90.23	9,483.00	-870.76	2,014.12	561,777.79	649,712.45	32° 32' 36.589 N	103° 50' 50.988 W
10,800.00	90.00	90.23	9,483.00	-871.15	2,114.12	561,777.40	649,812.45	32° 32' 36.580 N	103° 50' 49.820 W
10,900.00	90.00	90.23	9,483.00	-871.55	2,214.12	561,777.00	649,912.45	32° 32' 36.572 N	103° 50' 48.651 W
11,000.00	90.00	90.23	9,483.00	-871.94	2,314.12	561,776.61	650,012.45	32° 32' 36.563 N	103° 50' 47.483 W
11,100.00	90.00	90.23	9,483.00	-872.34	2,414.12	561,776.21	650,112.44	32° 32' 36.555 N	103° 50' 46.315 W
11,200.00	90.00	90.23	9,483.00	-872.73	2,514.12	561,775.82	650,212.44	32° 32' 36.547 N	103° 50' 45.147 W
11,300.00	90.00	90.23	9,483.00	-873.13	2,614.12	561,775.43	650,312.44	32° 32' 36.538 N	103° 50' 43.979 W
11,400.00	90.00	90.23	9,483.00	-873.52	2,714.12	561,775.03	650,412.44	32° 32' 36.530 N	103° 50' 42.810 W
11,500.00	90.00	90.23	9,483.00	-873.92	2,814.12	561,774.64	650,512.44	32° 32' 36.521 N	103° 50' 41.642 W
11,600.00	90.00	90.23	9,483.00	-874.31	2,914.12	561,774.24	650,612.44	32° 32' 36.513 N	103° 50' 40.474 W
11,700.00	90.00	90.23	9,483.00	-874.70	3,014.12	561,773.85	650,712.44	32° 32' 36.504 N	103° 50' 39.306 W
11,800.00	90.00	90.23	9,483.00	-875.10	3,114.11	561,773.45	650,812.44	32° 32' 36.496 N	103° 50' 38.138 W
11,900.00	90.00	90.23	9,483.00	-875.49	3,214.11	561,773.06	650,912.44	32° 32' 36.487 N	103° 50' 36.970 W
12,000.00	90.00	90.23	9,483.00	-875.89	3,314.11	561,772.66	651,012.44	32° 32' 36.479 N	103° 50' 35.801 W
12,100.00	90.00	90.23	9,483.00	-876.28	3,414.11	561,772.27	651,112.44	32° 32' 36.470 N	103° 50' 34.633 W
12,200.00	90.00	90.23	9,483.00	-876.68	3,514.11	561,771.88	651,212.44	32° 32' 36.462 N	103° 50' 33.465 W
12,300.00	90.00	90.23	9,483.00	-877.07	3,614.11	561,771.48	651,312.44	32° 32' 36.454 N	103° 50' 32.297 W
12,400.00	90.00	90.23	9,483.00	-877.47	3,714.11	561,771.09	651,412.43	32° 32' 36.445 N	103° 50' 31.129 W
12,500.00	90.00	90.23	9,483.00	-877.86	3,814.11	561,770.69	651,512.43	32° 32' 36.437 N	103° 50' 29.961 W
12,600.00	90.00	90.23	9,483.00	-878.25	3,914.11	561,770.30	651,612.43	32° 32' 36.428 N	103° 50' 28.792 W
12,700.00	90.00	90.23	9,483.00	-878.65	4,014.11	561,769.90	651,712.43	32° 32' 36.420 N	103° 50' 27.624 W
12,800.00	90.00	90.23	9,483.00	-879.04	4,114.11	561,769.51	651,812.43	32° 32' 36.411 N	103° 50' 26.456 W
12,900.00	90.00	90.23	9,483.00	-879.44	4,214.11	561,769.11	651,912.43	32° 32' 36.403 N	103° 50' 25.288 W
13,000.00	90.00	90.23	9,483.00	-879.83	4,314.11	561,768.72	652,012.43	32° 32' 36.394 N	103° 50' 24.120 W
13,100.00	90.00	90.23	9,483.00	-880.23	4,414.10	561,768.33	652,112.43	32° 32' 36.386 N	103° 50' 22.951 W
13,200.00	90.00	90.23	9,483.00	-880.62	4,514.10	561,767.93	652,212.43	32° 32' 36.377 N	103° 50' 21.783 W
13,300.00	90.00	90.23	9,483.00	-881.02	4,614.10	561,767.54	652,312.43	32° 32' 36.369 N	103° 50' 20.615 W
13,400.00	90.00	90.23	9,483.00	-881.41	4,714.10	561,767.14	652,412.43	32° 32' 36.360 N	103° 50' 19.447 W
13,500.00	90.00	90.23	9,483.00	-881.80	4,814.10	561,766.75	652,512.43	32° 32' 36.352 N	103° 50' 18.279 W
13,600.00	90.00	90.23	9,483.00	-882.20	4,914.10	561,766.35	652,612.43	32° 32' 36.343 N	103° 50' 17.111 W
13,700.00	90.00	90.23	9,483.00	-882.59	5,014.10	561,765.96	652,712.42	32° 32' 36.335 N	103° 50' 15.942 W
13,800.00	90.00	90.23	9,483.00	-882.99	5,114.10	561,765.56	652,812.42	32° 32' 36.326 N	103° 50' 14.774 W
13,900.00	90.00	90.23	9,483.00	-883.38	5,214.10	561,765.17	652,912.42	32° 32' 36.318 N	103° 50' 13.606 W
14,000.00	90.00	90.23	9,483.00	-883.78	5,314.10	561,764.78	653,012.42	32° 32' 36.309 N	103° 50' 12.438 W
14,100.00	90.00	90.23	9,483.00	-884.17	5,414.10	561,764.38	653,112.42	32° 32' 36.301 N	103° 50' 11.270 W
14,200.00	90.00	90.23	9,483.00	-884.57	5,514.10	561,763.99	653,212.42	32° 32' 36.292 N	103° 50' 10.101 W
14,300.00	90.00	90.23	9,483.00	-884.96	5,614.10	561,763.59	653,312.42	32° 32' 36.284 N	103° 50' 8.933 W
14,400.00	90.00	90.23	9,483.00	-885.35	5,714.09	561,763.20	653,412.42	32° 32' 36.275 N	103° 50' 7.765 W
14,500.00	90.00	90.23	9,483.00	-885.75	5,814.09	561,762.80	653,512.42	32° 32' 36.267 N	103° 50' 6.597 W
14,600.00	90.00	90.23	9,483.00	-886.14	5,914.09	561,762.41	653,612.42	32° 32' 36.258 N	103° 50' 5.429 W
14,700.00	90.00	90.23	9,483.00	-886.54	6,014.09	561,762.01	653,712.42	32° 32' 36.250 N	103° 50' 4.261 W

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,800.00	90.00	90.23	9,483.00	-886.93	6,114.09	561,761.62	653,812.42	32° 32' 36.241 N	103° 50' 3.092 W
14,900.00	90.00	90.23	9,483.00	-887.33	6,214.09	561,761.23	653,912.41	32° 32' 36.232 N	103° 50' 1.924 W
15,000.00	90.00	90.23	9,483.00	-887.72	6,314.09	561,760.83	654,012.41	32° 32' 36.224 N	103° 50' 0.756 W
15,100.00	90.00	90.23	9,483.00	-888.12	6,414.09	561,760.44	654,112.41	32° 32' 36.215 N	103° 49' 59.588 W
15,200.00	90.00	90.23	9,483.00	-888.51	6,514.09	561,760.04	654,212.41	32° 32' 36.207 N	103° 49' 58.420 W
15,300.00	90.00	90.23	9,483.00	-888.90	6,614.09	561,759.65	654,312.41	32° 32' 36.198 N	103° 49' 57.252 W
15,400.00	90.00	90.23	9,483.00	-889.30	6,714.09	561,759.25	654,412.41	32° 32' 36.190 N	103° 49' 56.083 W
15,500.00	90.00	90.23	9,483.00	-889.69	6,814.09	561,758.86	654,512.41	32° 32' 36.181 N	103° 49' 54.915 W
15,600.00	90.00	90.23	9,483.00	-890.09	6,914.09	561,758.46	654,612.41	32° 32' 36.173 N	103° 49' 53.747 W
15,700.00	90.00	90.23	9,483.00	-890.48	7,014.08	561,758.07	654,712.41	32° 32' 36.164 N	103° 49' 52.579 W
15,800.00	90.00	90.23	9,483.00	-890.88	7,114.08	561,757.68	654,812.41	32° 32' 36.155 N	103° 49' 51.411 W
15,900.00	90.00	90.23	9,483.00	-891.27	7,214.08	561,757.28	654,912.41	32° 32' 36.147 N	103° 49' 50.242 W
16,000.00	90.00	90.23	9,483.00	-891.67	7,314.08	561,756.89	655,012.41	32° 32' 36.138 N	103° 49' 49.074 W
16,100.00	90.00	90.23	9,483.00	-892.06	7,414.08	561,756.49	655,112.41	32° 32' 36.130 N	103° 49' 47.906 W
16,200.00	90.00	90.23	9,483.00	-892.45	7,514.08	561,756.10	655,212.40	32° 32' 36.121 N	103° 49' 46.738 W
16,300.00	90.00	90.23	9,483.00	-892.85	7,614.08	561,755.70	655,312.40	32° 32' 36.113 N	103° 49' 45.570 W
16,400.00	90.00	90.23	9,483.00	-893.24	7,714.08	561,755.31	655,412.40	32° 32' 36.104 N	103° 49' 44.402 W
16,500.00	90.00	90.23	9,483.00	-893.64	7,814.08	561,754.91	655,512.40	32° 32' 36.095 N	103° 49' 43.233 W
16,600.00	90.00	90.23	9,483.00	-894.03	7,914.08	561,754.52	655,612.40	32° 32' 36.087 N	103° 49' 42.065 W
16,700.00	90.00	90.23	9,483.00	-894.43	8,014.08	561,754.13	655,712.40	32° 32' 36.078 N	103° 49' 40.897 W
16,800.00	90.00	90.23	9,483.00	-894.82	8,114.08	561,753.73	655,812.40	32° 32' 36.070 N	103° 49' 39.729 W
16,900.00	90.00	90.23	9,483.00	-895.22	8,214.07	561,753.34	655,912.40	32° 32' 36.061 N	103° 49' 38.561 W
17,000.00	90.00	90.23	9,483.00	-895.61	8,314.07	561,752.94	656,012.40	32° 32' 36.052 N	103° 49' 37.393 W
17,100.00	90.00	90.23	9,483.00	-896.00	8,414.07	561,752.55	656,112.40	32° 32' 36.044 N	103° 49' 36.224 W
17,200.00	90.00	90.23	9,483.00	-896.40	8,514.07	561,752.15	656,212.40	32° 32' 36.035 N	103° 49' 35.056 W
17,300.00	90.00	90.23	9,483.00	-896.79	8,614.07	561,751.76	656,312.40	32° 32' 36.027 N	103° 49' 33.888 W
17,400.00	90.00	90.23	9,483.00	-897.19	8,714.07	561,751.36	656,412.40	32° 32' 36.018 N	103° 49' 32.720 W
17,500.00	90.00	90.23	9,483.00	-897.58	8,814.07	561,750.97	656,512.39	32° 32' 36.009 N	103° 49' 31.552 W
17,600.00	90.00	90.23	9,483.00	-897.98	8,914.07	561,750.58	656,612.39	32° 32' 36.001 N	103° 49' 30.383 W
17,700.00	90.00	90.23	9,483.00	-898.37	9,014.07	561,750.18	656,712.39	32° 32' 35.992 N	103° 49' 29.215 W
17,800.00	90.00	90.23	9,483.00	-898.77	9,114.07	561,749.79	656,812.39	32° 32' 35.983 N	103° 49' 28.047 W
17,900.00	90.00	90.23	9,483.00	-899.16	9,214.07	561,749.39	656,912.39	32° 32' 35.975 N	103° 49' 26.879 W
18,000.00	90.00	90.23	9,483.00	-899.55	9,314.07	561,749.00	657,012.39	32° 32' 35.966 N	103° 49' 25.711 W
18,100.00	90.00	90.23	9,483.00	-899.95	9,414.07	561,748.60	657,112.39	32° 32' 35.958 N	103° 49' 24.543 W
18,200.00	90.00	90.23	9,483.00	-900.34	9,514.06	561,748.21	657,212.39	32° 32' 35.949 N	103° 49' 23.374 W
18,300.00	90.00	90.23	9,483.00	-900.74	9,614.06	561,747.81	657,312.39	32° 32' 35.940 N	103° 49' 22.206 W
18,400.00	90.00	90.23	9,483.00	-901.13	9,714.06	561,747.42	657,412.39	32° 32' 35.932 N	103° 49' 21.038 W
18,500.00	90.00	90.23	9,483.00	-901.53	9,814.06	561,747.03	657,512.39	32° 32' 35.923 N	103° 49' 19.870 W
18,600.00	90.00	90.23	9,483.00	-901.92	9,914.06	561,746.63	657,612.39	32° 32' 35.914 N	103° 49' 18.702 W
18,700.00	90.00	90.23	9,483.00	-902.32	10,014.06	561,746.24	657,712.39	32° 32' 35.906 N	103° 49' 17.534 W
18,800.00	90.00	90.23	9,483.00	-902.71	10,114.06	561,745.84	657,812.38	32° 32' 35.897 N	103° 49' 16.365 W
18,900.00	90.00	90.23	9,483.00	-903.10	10,214.06	561,745.45	657,912.38	32° 32' 35.888 N	103° 49' 15.197 W
19,000.00	90.00	90.23	9,483.00	-903.50	10,314.06	561,745.05	658,012.38	32° 32' 35.880 N	103° 49' 14.029 W
19,100.00	90.00	90.23	9,483.00	-903.89	10,414.06	561,744.66	658,112.38	32° 32' 35.871 N	103° 49' 12.861 W
19,200.00	90.00	90.23	9,483.00	-904.29	10,514.06	561,744.26	658,212.38	32° 32' 35.862 N	103° 49' 11.693 W
19,300.00	90.00	90.23	9,483.00	-904.68	10,614.06	561,743.87	658,312.38	32° 32' 35.854 N	103° 49' 10.525 W
19,400.00	90.00	90.23	9,483.00	-905.08	10,714.06	561,743.48	658,412.38	32° 32' 35.845 N	103° 49' 9.356 W
19,500.00	90.00	90.23	9,483.00	-905.47	10,814.05	561,743.08	658,512.38	32° 32' 35.836 N	103° 49' 8.188 W
19,600.00	90.00	90.23	9,483.00	-905.87	10,914.05	561,742.69	658,612.38	32° 32' 35.828 N	103° 49' 7.020 W
19,700.00	90.00	90.23	9,483.00	-906.26	11,014.05	561,742.29	658,712.38	32° 32' 35.819 N	103° 49' 5.852 W
19,800.00	90.00	90.23	9,483.00	-906.65	11,114.05	561,741.90	658,812.38	32° 32' 35.810 N	103° 49' 4.684 W
19,900.00	90.00	90.23	9,483.00	-907.05	11,214.05	561,741.50	658,912.38	32° 32' 35.802 N	103° 49' 3.516 W
20,000.00	90.00	90.23	9,483.00	-907.44	11,314.05	561,741.11	659,012.38	32° 32' 35.793 N	103° 49' 2.347 W
20,100.00	90.00	90.23	9,483.00	-907.84	11,414.05	561,740.71	659,112.37	32° 32' 35.784 N	103° 49' 1.179 W
20,200.00	90.00	90.23	9,483.00	-908.23	11,514.05	561,740.32	659,212.37	32° 32' 35.775 N	103° 49' 0.011 W

Database:	EDM 5000.1 Multi User Db	**Local Co-ordinate Reference:**	Well #24H
Company:	XTO Energy, Inc.	**TVD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Project:	Eddy County, NM (NAD 27)	**MD Reference:**	GE 3523' + KB 30' @ 3553.00usft (Noram 25)
Site:	Big Eddy Unit Drilling Island 5	**North Reference:**	Grid
Well:	#24H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,300.00	90.00	90.23	9,483.00	-908.63	11,614.05	561,739.93	659,312.37	32° 32' 35.767 N	103° 48' 58.843 W
20,400.00	90.00	90.23	9,483.00	-909.02	11,714.05	561,739.53	659,412.37	32° 32' 35.758 N	103° 48' 57.675 W
20,500.00	90.00	90.23	9,483.00	-909.42	11,814.05	561,739.14	659,512.37	32° 32' 35.749 N	103° 48' 56.506 W
20,600.00	90.00	90.23	9,483.00	-909.81	11,914.05	561,738.74	659,612.37	32° 32' 35.741 N	103° 48' 55.338 W
20,700.00	90.00	90.23	9,483.00	-910.20	12,014.05	561,738.35	659,712.37	32° 32' 35.732 N	103° 48' 54.170 W
20,792.72	90.00	90.23	9,483.00	-910.57	12,106.76	561,737.98	659,805.08	32° 32' 35.724 N	103° 48' 53.087 W
PBHL (BDU DI 5 $24H)									

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
SHL (BDU DI 5 $24H) - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	562,648.55	647,698.32	32° 32' 45.296 N	103° 51' 14.471 W
PBHL (BDU DI 5 $24H - plan hits target center - Point	0.00	0.01	9,483.00	-910.57	12,106.76	561,737.98	659,805.08	32° 32' 35.724 N	103° 48' 53.087 W