

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.
NMLC068905

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000303X8. Well Name and No.
POKER LAKE UNIT CVX JV BS 031H9. API Well No.
30-015-42592-00-X110. Field and Pool or Exploratory Area
WILDCAT11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
BOPCO LPContact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com

260 737

3a. Address

6401 HOLIDAY HILL RD BLDG 5 SUITE 200
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 23 T24S R30E NENE 550FNL 1020FEL
32.209000 N Lat, 103.103846 W Lon**Carlsbad Field Office****OCD Artesia**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD
	☐ 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 recomple 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., requests approval of the following changes to the original APD...

C102: Name Change & BHL

Old Name: Poker Lake Unit CVX JV BS #31H

New Name: Poker Lake Unit 23 DTD #907H - 321445

Old BHL: 1320' FSL & 330' FEL, SESE Sec. 11, T24S, R30E

New BHL: 2440' FSL & 990' FEL, NESE Sec. 2, T24S, R30E

Please see attached:

MAY 16 2018

DISTRICT II-ARTESIA O.C.D.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL5-18-18
Accepted for record - NMOCDName Change on Nov. 2014, was never changed in OCD System. Old property # 310032
for PLS BLS Units 23 24 30 USA #4H

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

Electronic Submission #419745 verified by the BLM Well Information System

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 05/11/2018 (18PP1686SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 05/11/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 05/11/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

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

(Instructions on page 2)

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

Additional data for EC transaction #419745 that would not fit on the form

32. Additional remarks, continued

C102
Drilling Program
Directional Drill Plan
Flexhose Variance

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42592	² Pool Code 97798	³ Pool Name Wildcat Bone Spring 5243026M
⁴ Property Code 321445	⁵ Property Name POKER LAKE UNIT 23 DTD	⁶ Well Number 907H
⁷ OGRID No. 260737	⁸ Operator Name BOPCO, L.P.	⁹ Elevation 3433'

¹⁰ Surface Location

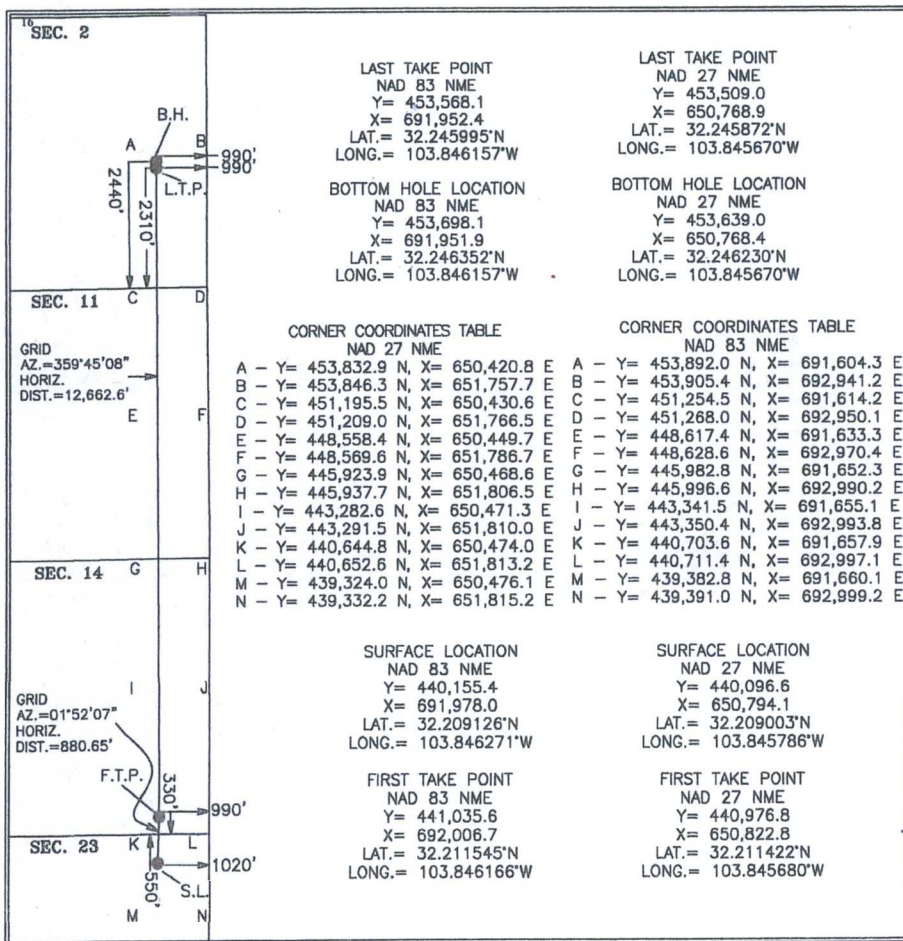
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	24 S	30 E		550	NORTH	1,020	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	2	24 S	30 E		2,440	SOUTH	990	EAST	EDDY

¹² Dedicated Acres 400	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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Kelly Kardos Date: 5/3/18

Printed Name: Kelly Kardos

E-mail Address: kelly_kardos@xtoenergy.com

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.

Date of Survey: 05-03-2018

Signature and Seal of Professional Surveyor:



Certificate Number: MARK DILLON HARP 23786

RR/AI 2017050742

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

XTO Energy Inc.
Poker Lake Unit 23 Dog Town Draw #907H
Projected TD: 24142' MD / 11139' TVD
SHL: 550' FNL & 1020' FEL , Section 23, T24S, R30E
BHL: 2440' FSL & 990' FEL , Section 2, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	501'	Water
Top of Salt	877'	Water
Base of Salt	3874'	Water
Delaware	4094'	Water
Bone Spring Lm	7978'	Water/Oil/Gas
1st Bone Spring Ss	8965'	Water/Oil/Gas
2nd Bone Spring Ss	9701'	Water/Oil/Gas
3rd Bone Spring Ss	10871'	Water/Oil/Gas
Target/Land Curve	11139'	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 @ 610' (100' into the Rustler) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 8078'. A DV tool will be set @ 710' (100' below the surface shoe). Cement will be circulated to surface. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back at least 500' into the intermediate casing.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 610'	13-3/8"	54.5	STC	J-55	New	1.11	4.05	15.46
12-1/4"	0' – 8078'	9-5/8"	40	LTC	HCL-80	New	1.88	1.69	2.59
8-3/4"	0' – 24142'	5-1/2"	17	BTC	P-110	New	1.12	1.36	2.02

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

WELLHEAD:

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 per BLM Onshore Order 2

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, STC casing to be set at +/- 610'

Lead: 230 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)

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

Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 8078'

First Stage

Lead: 2280 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

If losses are severe, a DV tool will be set @ 710' (100' below the surface shoe).

Second Stage

Lead: 210 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 180 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: 5-1/2", 17 New P-110, BTC casing to be set at +/- 24142'

Lead: 370 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft³/sx, 12.26 gal/sx water)

Tail: 2610 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft³/sx, 8.38 gal/sx water)

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

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydriil and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3052 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 nipping up on the 9-5/8", the BOP 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 610'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
610' to 8078'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
8078' to 24142'	8-3/4"	FW / Cut Brine / Polymer	9.2 - 9.5	29-32	NC - 20

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

Spud with fresh water/native mud. Drill out from under 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.

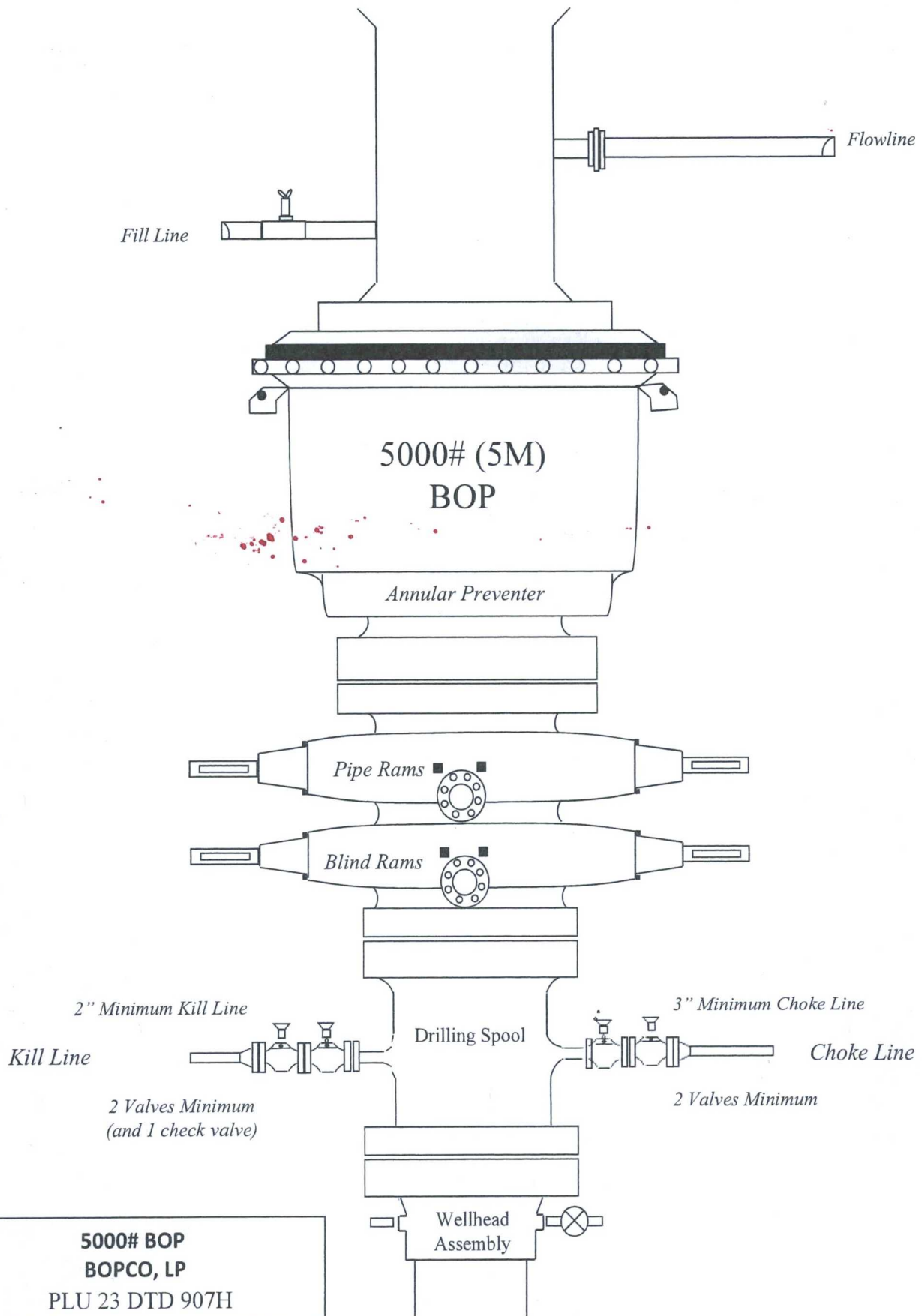
Open hole logging will not be done on this well.

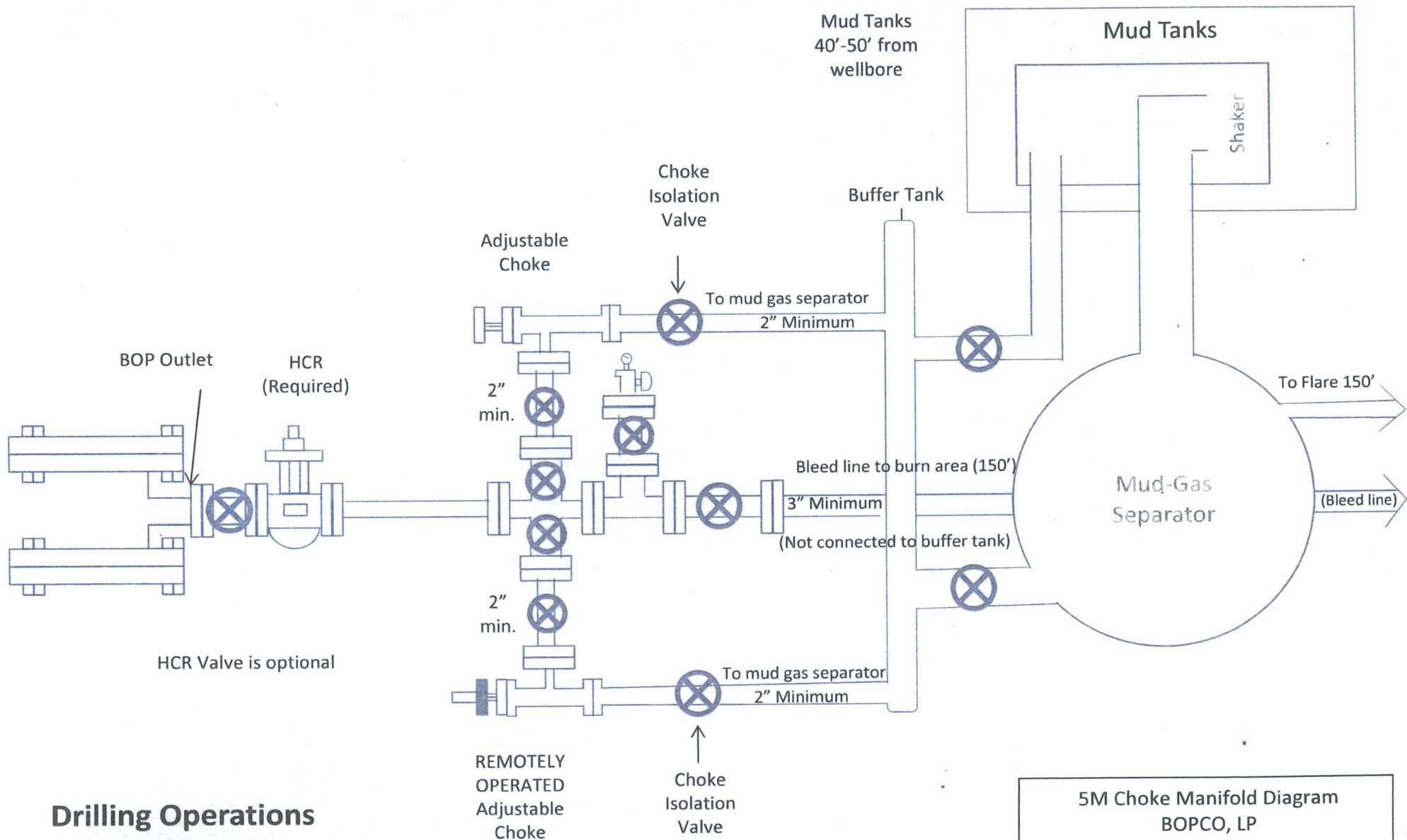
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5503 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.





Drilling Operations Choke Manifold 5M Service

5M Choke Manifold Diagram
BOPCO, LP
PLU 23 DTD 907H



XTO Energy

Eddy County, NM (NAD-27)

PLU 23 Dog Town Draw

#907

OH

Plan: PERMIT v3

Standard Planning Report

03 May, 2018



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 23 Dog Town Draw
Well: #907
Wellbore: OH
Design: PERMIT v3

Local Co-ordinate Reference: Well #907
TVD Reference: RKB = 25' @ 3458.00usft
MD Reference: RKB = 25' @ 3458.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site PLU 23 Dog Town Draw

Site Position:		Northing:	440,055.30 usft	Latitude:	32.208889
From:	Map	Easting:	650,794.20 usft	Longitude:	-103.845786
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.26 °

Well #907

Well Position	+N/-S	41.30 usft	Northing:	440,096.60 usft	Latitude:	32.209003
	+E/-W	-0.10 usft	Easting:	650,794.10 usft	Longitude:	-103.845786
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,433.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/3/2018	6.99	59.99	47,810

Design PERMIT v3

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	359.75

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,940.00	0.00	0.00	6,940.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,189.93	5.00	4.98	7,189.62	10.85	0.95	2.00	2.00	0.00	4.98	
10,629.17	5.00	4.98	10,615.77	309.39	26.98	0.00	0.00	0.00	0.00	
11,479.39	90.00	359.75	11,139.00	880.20	28.70	10.00	10.00	-0.62	-5.25	PLU 907 DTD #907
24,011.71	90.00	359.75	11,139.00	13,412.40	-25.14	0.00	0.00	0.00	0.00	PLU 907 DTD #907
24,141.71	90.00	359.75	11,139.00	13,542.40	-25.70	0.00	0.00	0.00	0.00	PLU 23 DTD #907:



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
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Well: #907
Wellbore: OH
Design: PERMIT v3

Local Co-ordinate Reference: Well #907
TVD Reference: RKB = 25' @ 3458.00usft
MD Reference: RKB = 25' @ 3458.00usft
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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
501.00	0.00	0.00	501.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
877.00	0.00	0.00	877.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,874.00	0.00	0.00	3,874.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,094.00	0.00	0.00	4,094.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: PLU 23 Dog Town Draw
 Well: #907
 Wellbore: OH
 Design: PERMIT v3

Local Co-ordinate Reference: Well #907
 TVD Reference: RKB = 25' @ 3458.00usft
 MD Reference: RKB = 25' @ 3458.00usft
 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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,972.00	0.00	0.00	4,972.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,630.00	0.00	0.00	6,630.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,940.00	0.00	0.00	6,940.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	1.20	4.98	7,000.00	0.63	0.05	0.63	2.00	2.00	0.00
7,100.00	3.20	4.98	7,099.92	4.45	0.39	4.45	2.00	2.00	0.00
7,189.93	5.00	4.98	7,189.62	10.85	0.95	10.85	2.00	2.00	0.00
7,200.00	5.00	4.98	7,199.64	11.73	1.02	11.72	0.00	0.00	0.00
7,300.00	5.00	4.98	7,299.26	20.41	1.78	20.40	0.00	0.00	0.00
7,400.00	5.00	4.98	7,398.88	29.09	2.54	29.08	0.00	0.00	0.00
7,500.00	5.00	4.98	7,498.50	37.77	3.29	37.75	0.00	0.00	0.00
7,600.00	5.00	4.98	7,598.12	46.45	4.05	46.43	0.00	0.00	0.00
7,700.00	5.00	4.98	7,697.74	55.13	4.81	55.11	0.00	0.00	0.00
7,800.00	5.00	4.98	7,797.36	63.81	5.56	63.79	0.00	0.00	0.00
7,900.00	5.00	4.98	7,896.98	72.49	6.32	72.46	0.00	0.00	0.00
7,950.21	5.00	4.98	7,947.00	76.85	6.70	76.82	0.00	0.00	0.00
Bone Spring									
7,981.33	5.00	4.98	7,978.00	79.55	6.94	79.52	0.00	0.00	0.00
Bone Spring Lm									
8,000.00	5.00	4.98	7,996.60	81.17	7.08	81.14	0.00	0.00	0.00
8,100.00	5.00	4.98	8,096.22	89.85	7.84	89.82	0.00	0.00	0.00
8,200.00	5.00	4.98	8,195.84	98.53	8.59	98.49	0.00	0.00	0.00
8,300.00	5.00	4.98	8,295.46	107.21	9.35	107.17	0.00	0.00	0.00
8,400.00	5.00	4.98	8,395.08	115.89	10.11	115.85	0.00	0.00	0.00
8,500.00	5.00	4.98	8,494.70	124.57	10.86	124.52	0.00	0.00	0.00
8,600.00	5.00	4.98	8,594.32	133.25	11.62	133.20	0.00	0.00	0.00
8,700.00	5.00	4.98	8,693.94	141.93	12.38	141.88	0.00	0.00	0.00
8,800.00	5.00	4.98	8,793.56	150.61	13.13	150.55	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: PLU 23 Dog Town Draw
 Well: #907
 Wellbore: OH
 Design: PERMIT v3

Local Co-ordinate Reference: Well #907
 TVD Reference: RKB = 25' @ 3458.00usft
 MD Reference: RKB = 25' @ 3458.00usft
 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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.00	5.00	4.98	8,893.18	159.29	13.89	159.23	0.00	0.00	0.00
8,972.10	5.00	4.98	8,965.00	165.55	14.44	165.49	0.00	0.00	0.00
1st Bone Spring Ss									
9,000.00	5.00	4.98	8,992.80	167.97	14.65	167.91	0.00	0.00	0.00
9,100.00	5.00	4.98	9,092.42	176.65	15.41	176.58	0.00	0.00	0.00
9,200.00	5.00	4.98	9,192.04	185.33	16.16	185.26	0.00	0.00	0.00
9,300.00	5.00	4.98	9,291.66	194.01	16.92	193.94	0.00	0.00	0.00
9,400.00	5.00	4.98	9,391.28	202.69	17.68	202.62	0.00	0.00	0.00
9,500.00	5.00	4.98	9,490.90	211.38	18.43	211.29	0.00	0.00	0.00
9,600.00	5.00	4.98	9,590.52	220.06	19.19	219.97	0.00	0.00	0.00
9,700.00	5.00	4.98	9,690.14	228.74	19.95	228.65	0.00	0.00	0.00
9,710.91	5.00	4.98	9,701.00	229.68	20.03	229.59	0.00	0.00	0.00
2nd Bone Spring Ss									
9,800.00	5.00	4.98	9,789.76	237.42	20.70	237.32	0.00	0.00	0.00
9,900.00	5.00	4.98	9,889.38	246.10	21.46	246.00	0.00	0.00	0.00
10,000.00	5.00	4.98	9,989.00	254.78	22.22	254.68	0.00	0.00	0.00
10,069.27	5.00	4.98	10,058.00	260.79	22.74	260.69	0.00	0.00	0.00
3rd Bone Spring Lm									
10,100.00	5.00	4.98	10,088.62	263.46	22.97	263.35	0.00	0.00	0.00
10,200.00	5.00	4.98	10,188.24	272.14	23.73	272.03	0.00	0.00	0.00
10,300.00	5.00	4.98	10,287.85	280.82	24.49	280.71	0.00	0.00	0.00
10,400.00	5.00	4.98	10,387.47	289.50	25.25	289.38	0.00	0.00	0.00
10,500.00	5.00	4.98	10,487.09	298.18	26.00	298.06	0.00	0.00	0.00
10,600.00	5.00	4.98	10,586.71	306.86	26.76	306.74	0.00	0.00	0.00
10,629.17	5.00	4.98	10,615.77	309.39	26.98	309.27	0.00	0.00	0.00
10,650.00	7.08	3.44	10,636.49	311.58	27.14	311.45	10.00	9.97	-7.43
10,700.00	12.07	1.89	10,685.77	319.88	27.49	319.76	10.00	9.99	-3.09
10,750.00	17.07	1.24	10,734.15	332.45	27.83	332.32	10.00	9.99	-1.30
10,800.00	22.07	0.88	10,781.25	349.18	28.13	349.06	10.00	10.00	-0.72
10,850.00	27.06	0.65	10,826.71	369.96	28.40	369.83	10.00	10.00	-0.47
10,900.00	32.06	0.48	10,870.19	394.62	28.64	394.49	10.00	10.00	-0.33
10,900.96	32.16	0.48	10,871.00	395.13	28.65	395.00	10.00	10.00	-0.28
3rd Bone Spring Ss									
10,950.00	37.06	0.36	10,911.35	422.98	28.85	422.85	10.00	10.00	-0.25
11,000.00	42.06	0.26	10,949.88	454.81	29.02	454.68	10.00	10.00	-0.20
11,050.00	47.06	0.18	10,985.50	489.89	29.15	489.75	10.00	10.00	-0.16
11,100.00	52.06	0.11	11,017.92	527.93	29.25	527.80	10.00	10.00	-0.14
11,150.00	57.06	0.05	11,046.90	568.65	29.30	568.52	10.00	10.00	-0.12
11,200.00	62.06	360.00	11,072.22	611.75	29.32	611.61	10.00	10.00	-0.11
11,250.00	67.06	359.95	11,093.69	656.89	29.30	656.75	10.00	10.00	-0.10
11,300.00	72.06	359.90	11,111.15	703.72	29.24	703.59	10.00	10.00	-0.09
11,350.00	77.06	359.86	11,124.45	751.90	29.14	751.77	10.00	10.00	-0.09
11,400.00	82.06	359.82	11,133.51	801.06	29.00	800.93	10.00	10.00	-0.08
11,450.00	87.06	359.78	11,138.25	850.82	28.82	850.69	10.00	10.00	-0.08
11,479.39	90.00	359.75	11,139.00	880.20	28.70	880.07	10.00	10.00	-0.08
LP									
11,500.00	90.00	359.75	11,139.00	900.81	28.61	900.67	0.00	0.00	0.00
11,600.00	90.00	359.75	11,139.00	1,000.81	28.18	1,000.67	0.00	0.00	0.00
11,700.00	90.00	359.75	11,139.00	1,100.80	27.75	1,100.67	0.00	0.00	0.00
11,800.00	90.00	359.75	11,139.00	1,200.80	27.32	1,200.67	0.00	0.00	0.00
11,900.00	90.00	359.75	11,139.00	1,300.80	26.89	1,300.67	0.00	0.00	0.00
12,000.00	90.00	359.75	11,139.00	1,400.80	26.46	1,400.67	0.00	0.00	0.00
12,100.00	90.00	359.75	11,139.00	1,500.80	26.03	1,500.67	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
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Project: Eddy County, NM (NAD-27)
Site: PLU 23 Dog Town Draw
Well: #907
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Local Co-ordinate Reference: Well #907
TVD Reference: RKB = 25' @ 3458.00usft
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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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.00	90.00	359.75	11,139.00	1,600.80	25.60	1,600.67	0.00	0.00	0.00
12,300.00	90.00	359.75	11,139.00	1,700.80	25.17	1,700.67	0.00	0.00	0.00
12,400.00	90.00	359.75	11,139.00	1,800.80	24.74	1,800.67	0.00	0.00	0.00
12,500.00	90.00	359.75	11,139.00	1,900.80	24.32	1,900.67	0.00	0.00	0.00
12,600.00	90.00	359.75	11,139.00	2,000.80	23.89	2,000.67	0.00	0.00	0.00
12,700.00	90.00	359.75	11,139.00	2,100.80	23.46	2,100.67	0.00	0.00	0.00
12,800.00	90.00	359.75	11,139.00	2,200.79	23.03	2,200.67	0.00	0.00	0.00
12,900.00	90.00	359.75	11,139.00	2,300.79	22.60	2,300.67	0.00	0.00	0.00
13,000.00	90.00	359.75	11,139.00	2,400.79	22.17	2,400.67	0.00	0.00	0.00
13,100.00	90.00	359.75	11,139.00	2,500.79	21.74	2,500.67	0.00	0.00	0.00
13,200.00	90.00	359.75	11,139.00	2,600.79	21.31	2,600.67	0.00	0.00	0.00
13,300.00	90.00	359.75	11,139.00	2,700.79	20.88	2,700.67	0.00	0.00	0.00
13,400.00	90.00	359.75	11,139.00	2,800.79	20.45	2,800.67	0.00	0.00	0.00
13,500.00	90.00	359.75	11,139.00	2,900.79	20.02	2,900.67	0.00	0.00	0.00
13,600.00	90.00	359.75	11,139.00	3,000.79	19.59	3,000.67	0.00	0.00	0.00
13,700.00	90.00	359.75	11,139.00	3,100.79	19.16	3,100.67	0.00	0.00	0.00
13,800.00	90.00	359.75	11,139.00	3,200.79	18.73	3,200.67	0.00	0.00	0.00
13,900.00	90.00	359.75	11,139.00	3,300.78	18.30	3,300.67	0.00	0.00	0.00
14,000.00	90.00	359.75	11,139.00	3,400.78	17.87	3,400.67	0.00	0.00	0.00
14,100.00	90.00	359.75	11,139.00	3,500.78	17.44	3,500.67	0.00	0.00	0.00
14,200.00	90.00	359.75	11,139.00	3,600.78	17.01	3,600.67	0.00	0.00	0.00
14,300.00	90.00	359.75	11,139.00	3,700.78	16.58	3,700.67	0.00	0.00	0.00
14,400.00	90.00	359.75	11,139.00	3,800.78	16.15	3,800.67	0.00	0.00	0.00
14,500.00	90.00	359.75	11,139.00	3,900.78	15.72	3,900.67	0.00	0.00	0.00
14,600.00	90.00	359.75	11,139.00	4,000.78	15.29	4,000.67	0.00	0.00	0.00
14,700.00	90.00	359.75	11,139.00	4,100.78	14.86	4,100.67	0.00	0.00	0.00
14,800.00	90.00	359.75	11,139.00	4,200.78	14.43	4,200.67	0.00	0.00	0.00
14,900.00	90.00	359.75	11,139.00	4,300.78	14.00	4,300.67	0.00	0.00	0.00
15,000.00	90.00	359.75	11,139.00	4,400.77	13.57	4,400.67	0.00	0.00	0.00
15,100.00	90.00	359.75	11,139.00	4,500.77	13.15	4,500.67	0.00	0.00	0.00
15,200.00	90.00	359.75	11,139.00	4,600.77	12.72	4,600.67	0.00	0.00	0.00
15,300.00	90.00	359.75	11,139.00	4,700.77	12.29	4,700.67	0.00	0.00	0.00
15,400.00	90.00	359.75	11,139.00	4,800.77	11.86	4,800.67	0.00	0.00	0.00
15,500.00	90.00	359.75	11,139.00	4,900.77	11.43	4,900.67	0.00	0.00	0.00
15,600.00	90.00	359.75	11,139.00	5,000.77	11.00	5,000.67	0.00	0.00	0.00
15,700.00	90.00	359.75	11,139.00	5,100.77	10.57	5,100.67	0.00	0.00	0.00
15,800.00	90.00	359.75	11,139.00	5,200.77	10.14	5,200.67	0.00	0.00	0.00
15,900.00	90.00	359.75	11,139.00	5,300.77	9.71	5,300.67	0.00	0.00	0.00
16,000.00	90.00	359.75	11,139.00	5,400.76	9.28	5,400.67	0.00	0.00	0.00
16,100.00	90.00	359.75	11,139.00	5,500.76	8.85	5,500.67	0.00	0.00	0.00
16,200.00	90.00	359.75	11,139.00	5,600.76	8.42	5,600.67	0.00	0.00	0.00
16,300.00	90.00	359.75	11,139.00	5,700.76	7.99	5,700.67	0.00	0.00	0.00
16,400.00	90.00	359.75	11,139.00	5,800.76	7.56	5,800.67	0.00	0.00	0.00
16,500.00	90.00	359.75	11,139.00	5,900.76	7.13	5,900.67	0.00	0.00	0.00
16,600.00	90.00	359.75	11,139.00	6,000.76	6.70	6,000.67	0.00	0.00	0.00
16,700.00	90.00	359.75	11,139.00	6,100.76	6.27	6,100.67	0.00	0.00	0.00
16,800.00	90.00	359.75	11,139.00	6,200.76	5.84	6,200.67	0.00	0.00	0.00
16,900.00	90.00	359.75	11,139.00	6,300.76	5.41	6,300.67	0.00	0.00	0.00
17,000.00	90.00	359.75	11,139.00	6,400.76	4.98	6,400.67	0.00	0.00	0.00
17,100.00	90.00	359.75	11,139.00	6,500.75	4.55	6,500.67	0.00	0.00	0.00
17,200.00	90.00	359.75	11,139.00	6,600.75	4.12	6,600.67	0.00	0.00	0.00
17,300.00	90.00	359.75	11,139.00	6,700.75	3.69	6,700.67	0.00	0.00	0.00
17,400.00	90.00	359.75	11,139.00	6,800.75	3.26	6,800.67	0.00	0.00	0.00
17,500.00	90.00	359.75	11,139.00	6,900.75	2.83	6,900.67	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 23 Dog Town Draw
Well: #907
Wellbore: OH
Design: PERMIT v3

Local Co-ordinate Reference: Well #907
TVD Reference: RKB = 25' @ 3458.00usft
MD Reference: RKB = 25' @ 3458.00usft
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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,600.00	90.00	359.75	11,139.00	7,000.75	2.40	7,000.67	0.00	0.00	0.00
17,700.00	90.00	359.75	11,139.00	7,100.75	1.97	7,100.67	0.00	0.00	0.00
17,800.00	90.00	359.75	11,139.00	7,200.75	1.55	7,200.67	0.00	0.00	0.00
17,900.00	90.00	359.75	11,139.00	7,300.75	1.12	7,300.67	0.00	0.00	0.00
18,000.00	90.00	359.75	11,139.00	7,400.75	0.69	7,400.67	0.00	0.00	0.00
18,100.00	90.00	359.75	11,139.00	7,500.75	0.26	7,500.67	0.00	0.00	0.00
18,200.00	90.00	359.75	11,139.00	7,600.74	-0.17	7,600.67	0.00	0.00	0.00
18,300.00	90.00	359.75	11,139.00	7,700.74	-0.60	7,700.67	0.00	0.00	0.00
18,400.00	90.00	359.75	11,139.00	7,800.74	-1.03	7,800.67	0.00	0.00	0.00
18,500.00	90.00	359.75	11,139.00	7,900.74	-1.46	7,900.67	0.00	0.00	0.00
18,600.00	90.00	359.75	11,139.00	8,000.74	-1.89	8,000.67	0.00	0.00	0.00
18,700.00	90.00	359.75	11,139.00	8,100.74	-2.32	8,100.67	0.00	0.00	0.00
18,800.00	90.00	359.75	11,139.00	8,200.74	-2.75	8,200.67	0.00	0.00	0.00
18,900.00	90.00	359.75	11,139.00	8,300.74	-3.18	8,300.67	0.00	0.00	0.00
19,000.00	90.00	359.75	11,139.00	8,400.74	-3.61	8,400.67	0.00	0.00	0.00
19,100.00	90.00	359.75	11,139.00	8,500.74	-4.04	8,500.67	0.00	0.00	0.00
19,200.00	90.00	359.75	11,139.00	8,600.74	-4.47	8,600.67	0.00	0.00	0.00
19,300.00	90.00	359.75	11,139.00	8,700.73	-4.90	8,700.67	0.00	0.00	0.00
19,400.00	90.00	359.75	11,139.00	8,800.73	-5.33	8,800.67	0.00	0.00	0.00
19,500.00	90.00	359.75	11,139.00	8,900.73	-5.76	8,900.67	0.00	0.00	0.00
19,600.00	90.00	359.75	11,139.00	9,000.73	-6.19	9,000.67	0.00	0.00	0.00
19,700.00	90.00	359.75	11,139.00	9,100.73	-6.62	9,100.67	0.00	0.00	0.00
19,800.00	90.00	359.75	11,139.00	9,200.73	-7.05	9,200.67	0.00	0.00	0.00
19,900.00	90.00	359.75	11,139.00	9,300.73	-7.48	9,300.67	0.00	0.00	0.00
20,000.00	90.00	359.75	11,139.00	9,400.73	-7.91	9,400.67	0.00	0.00	0.00
20,100.00	90.00	359.75	11,139.00	9,500.73	-8.34	9,500.67	0.00	0.00	0.00
20,200.00	90.00	359.75	11,139.00	9,600.73	-8.77	9,600.67	0.00	0.00	0.00
20,300.00	90.00	359.75	11,139.00	9,700.73	-9.20	9,700.67	0.00	0.00	0.00
20,400.00	90.00	359.75	11,139.00	9,800.72	-9.62	9,800.67	0.00	0.00	0.00
20,500.00	90.00	359.75	11,139.00	9,900.72	-10.05	9,900.67	0.00	0.00	0.00
20,600.00	90.00	359.75	11,139.00	10,000.72	-10.48	10,000.67	0.00	0.00	0.00
20,700.00	90.00	359.75	11,139.00	10,100.72	-10.91	10,100.67	0.00	0.00	0.00
20,800.00	90.00	359.75	11,139.00	10,200.72	-11.34	10,200.67	0.00	0.00	0.00
20,900.00	90.00	359.75	11,139.00	10,300.72	-11.77	10,300.67	0.00	0.00	0.00
21,000.00	90.00	359.75	11,139.00	10,400.72	-12.20	10,400.67	0.00	0.00	0.00
21,100.00	90.00	359.75	11,139.00	10,500.72	-12.63	10,500.67	0.00	0.00	0.00
21,200.00	90.00	359.75	11,139.00	10,600.72	-13.06	10,600.67	0.00	0.00	0.00
21,300.00	90.00	359.75	11,139.00	10,700.72	-13.49	10,700.67	0.00	0.00	0.00
21,400.00	90.00	359.75	11,139.00	10,800.72	-13.92	10,800.67	0.00	0.00	0.00
21,500.00	90.00	359.75	11,139.00	10,900.71	-14.35	10,900.67	0.00	0.00	0.00
21,600.00	90.00	359.75	11,139.00	11,000.71	-14.78	11,000.67	0.00	0.00	0.00
21,700.00	90.00	359.75	11,139.00	11,100.71	-15.21	11,100.67	0.00	0.00	0.00
21,800.00	90.00	359.75	11,139.00	11,200.71	-15.64	11,200.67	0.00	0.00	0.00
21,900.00	90.00	359.75	11,139.00	11,300.71	-16.07	11,300.67	0.00	0.00	0.00
22,000.00	90.00	359.75	11,139.00	11,400.71	-16.50	11,400.67	0.00	0.00	0.00
22,100.00	90.00	359.75	11,139.00	11,500.71	-16.93	11,500.67	0.00	0.00	0.00
22,200.00	90.00	359.75	11,139.00	11,600.71	-17.36	11,600.67	0.00	0.00	0.00
22,300.00	90.00	359.75	11,139.00	11,700.71	-17.79	11,700.67	0.00	0.00	0.00
22,400.00	90.00	359.75	11,139.00	11,800.71	-18.22	11,800.67	0.00	0.00	0.00
22,500.00	90.00	359.75	11,139.00	11,900.71	-18.65	11,900.67	0.00	0.00	0.00
22,600.00	90.00	359.75	11,139.00	12,000.70	-19.08	12,000.67	0.00	0.00	0.00
22,700.00	90.00	359.75	11,139.00	12,100.70	-19.51	12,100.67	0.00	0.00	0.00
22,800.00	90.00	359.75	11,139.00	12,200.70	-19.94	12,200.67	0.00	0.00	0.00
22,900.00	90.00	359.75	11,139.00	12,300.70	-20.37	12,300.67	0.00	0.00	0.00



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Wellbore: OH
Design: PERMIT v3

Local Co-ordinate Reference: Well #907
TVD Reference: RKB = 25' @ 3458.00usft
MD Reference: RKB = 25' @ 3458.00usft
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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
23,000.00	90.00	359.75	11,139.00	12,400.70	-20.79	12,400.67	0.00	0.00	0.00
23,100.00	90.00	359.75	11,139.00	12,500.70	-21.22	12,500.67	0.00	0.00	0.00
23,200.00	90.00	359.75	11,139.00	12,600.70	-21.65	12,600.67	0.00	0.00	0.00
23,300.00	90.00	359.75	11,139.00	12,700.70	-22.08	12,700.67	0.00	0.00	0.00
23,400.00	90.00	359.75	11,139.00	12,800.70	-22.51	12,800.67	0.00	0.00	0.00
23,500.00	90.00	359.75	11,139.00	12,900.70	-22.94	12,900.67	0.00	0.00	0.00
23,600.00	90.00	359.75	11,139.00	13,000.69	-23.37	13,000.67	0.00	0.00	0.00
23,700.00	90.00	359.75	11,139.00	13,100.69	-23.80	13,100.67	0.00	0.00	0.00
23,800.00	90.00	359.75	11,139.00	13,200.69	-24.23	13,200.67	0.00	0.00	0.00
23,900.00	90.00	359.75	11,139.00	13,300.69	-24.66	13,300.67	0.00	0.00	0.00
24,000.00	90.00	359.75	11,139.00	13,400.69	-25.09	13,400.67	0.00	0.00	0.00
24,011.71	90.00	359.75	11,139.00	13,412.40	-25.14	13,412.38	0.00	0.00	0.00
24,100.00	90.00	359.75	11,139.00	13,500.69	-25.52	13,500.67	0.00	0.00	0.00
24,141.71	90.00	359.75	11,139.00	13,542.40	-25.70	13,542.38	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PLU 23 DTD #907: St	0.00	0.00	0.00	0.00	0.00	440,096.60	650,794.10	32.209003	-103.845786
- plan hits target center									
- Point									
PLU 907 DTD #907: L	0.00	0.00	11,139.00	13,412.40	-25.20	453,509.00	650,768.90	32.245872	-103.845671
- plan misses target center by 0.06usft at 24011.71usft MD (11139.00 TVD, 13412.40 N, -25.14 E)									
- Point									
PLU 907 DTD #907: F	0.00	0.00	11,139.00	880.20	28.70	440,976.80	650,822.80	32.211422	-103.845680
- plan hits target center									
- Point									
PLU 23 DTD #907: Pl	0.00	0.00	11,139.00	13,542.40	-25.70	453,639.00	650,768.40	32.246230	-103.845670
- plan hits target center									
- Point									

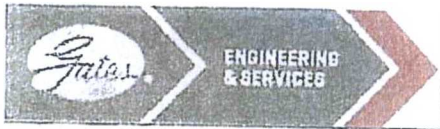


Database: EDM 5000.1 Single User Db
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Site: PLU 23 Dog Town Draw
Well: #907
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Design: PERMIT v3

Local Co-ordinate Reference: Well #907
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MD Reference: RKB = 25' @ 3458.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
501.00	501.00	Rustler			
877.00	877.00	Top Salt			
3,874.00	3,874.00	Base Salt			
4,094.00	4,094.00	Delaware			
4,972.00	4,972.00	Cherry Canyon			
6,630.00	6,630.00	Brushy Canyon			
7,950.21	7,947.00	Bone Spring			
7,981.33	7,978.00	Bone Spring Lm			
8,972.10	8,965.00	1st Bone Spring Ss			
9,710.91	9,701.00	2nd Bone Spring Ss			
10,069.27	10,058.00	3rd Bone Spring Lm			
10,900.96	10,871.00	3rd Bone Spring Ss			
11,479.39	11,139.00	LP			



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

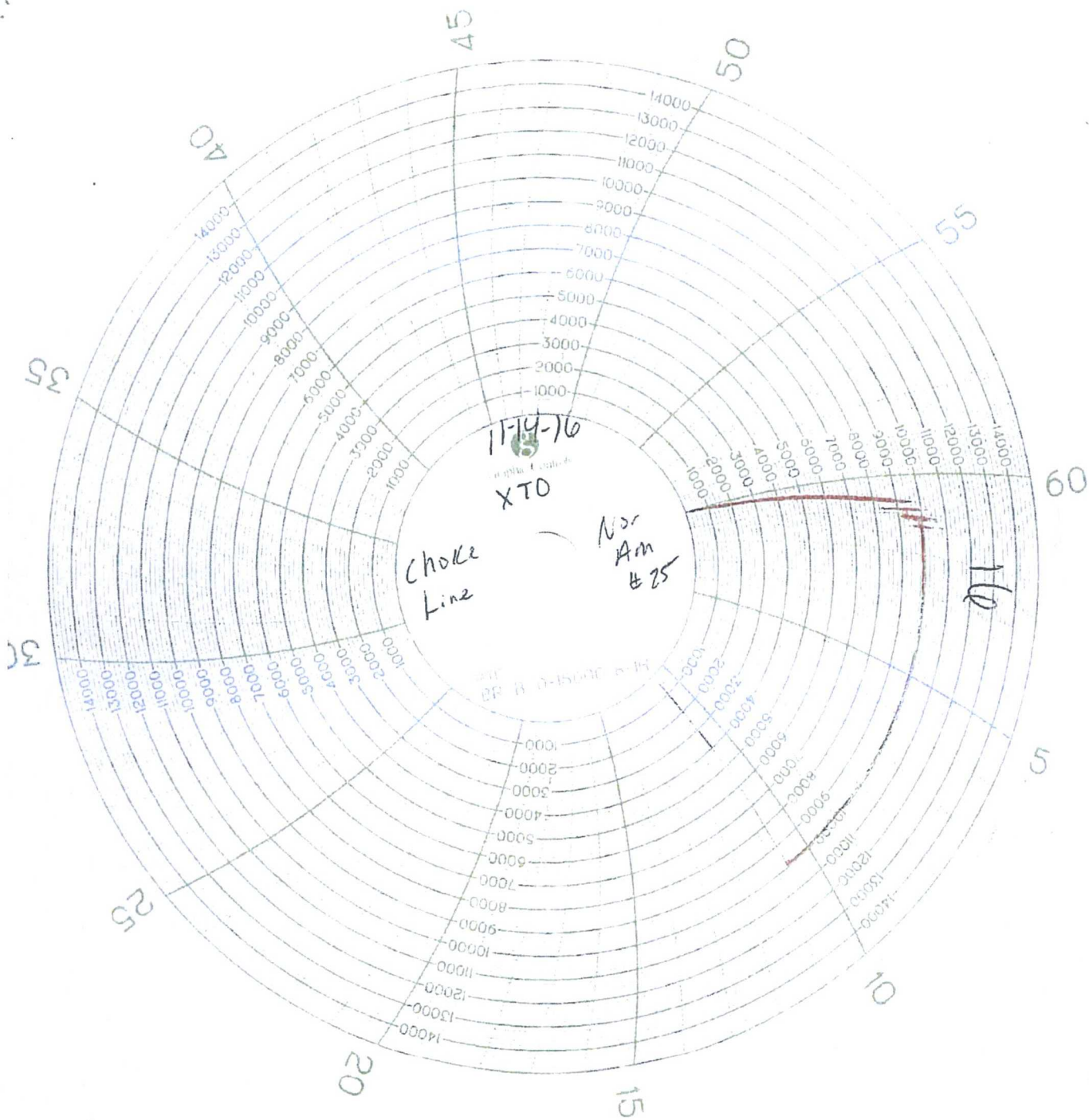
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

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

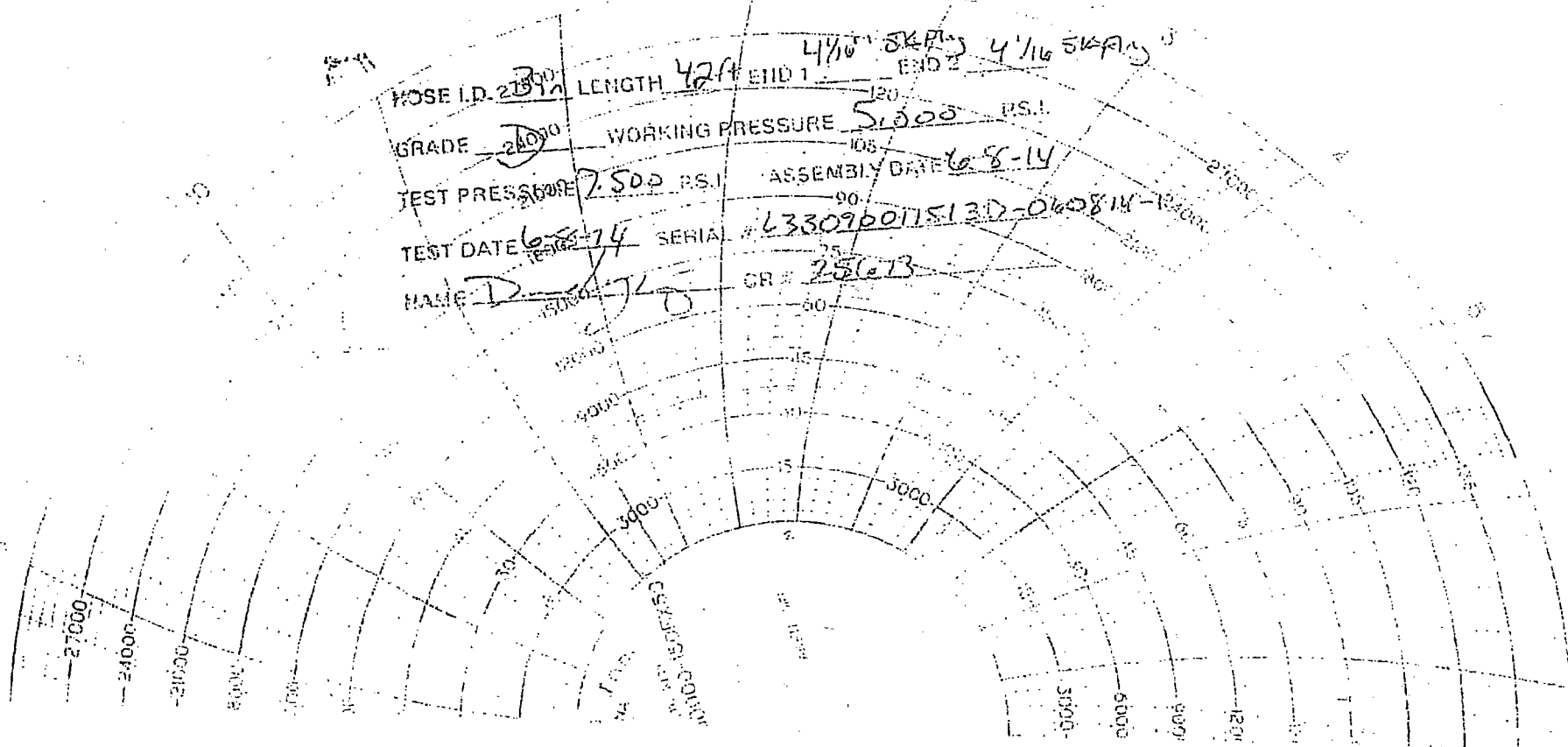
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance 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 :	



NOON

HOSE I.D. 2 1/2 IN. LENGTH 424 END 1 4 1/2" SKP END 2 4 1/2" SKP
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 # L33096011513D-060814-1200
NAME D-728 OR # 25613



WELL DETAILS: #907

Rig Name:					
RKB = 25' @ 3458.00usft					
Ground Level: 3433.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440096.60	650794.10	32.209003	-103.845786

DESIGN TARGET DETAILS

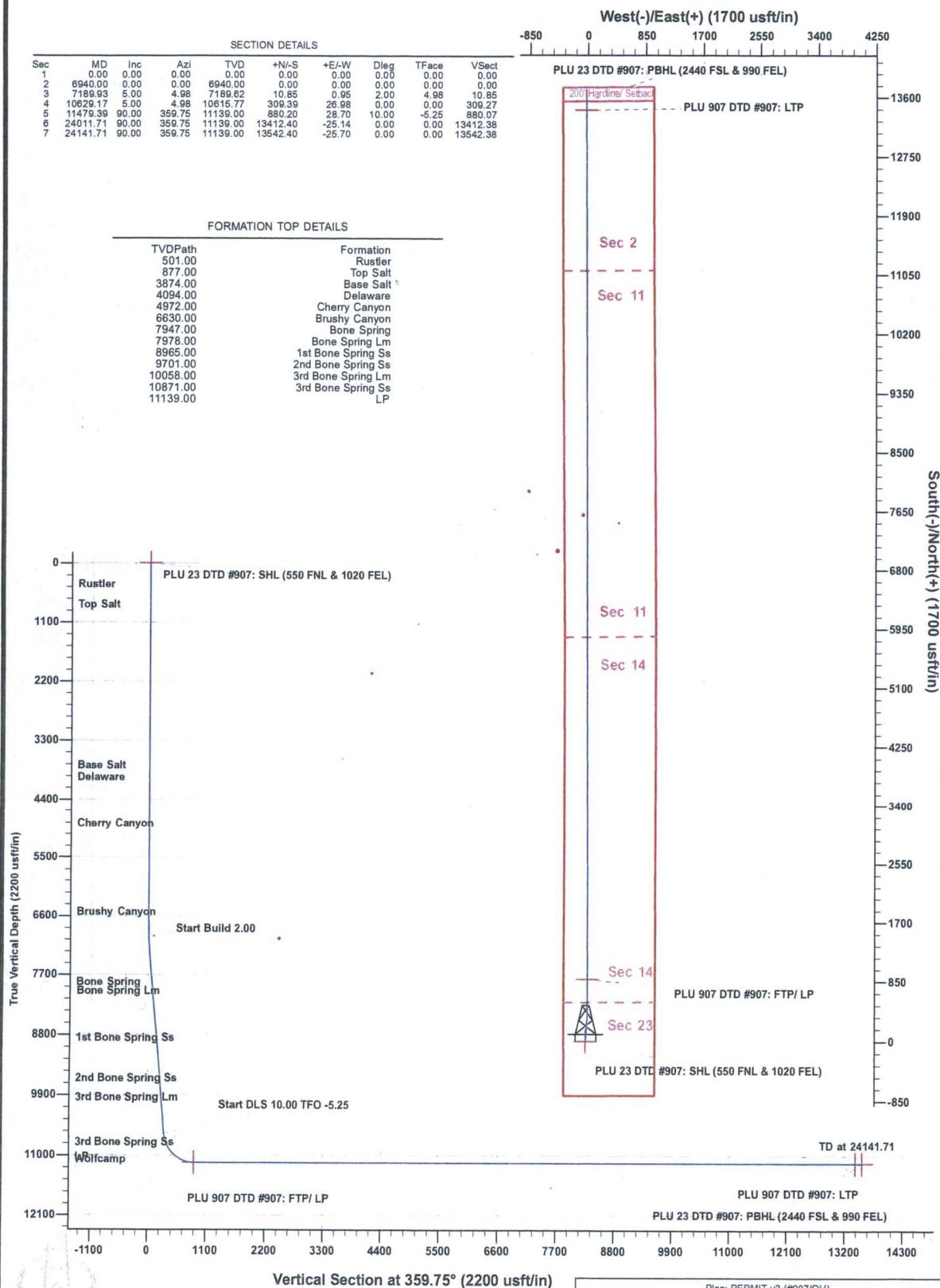
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PLU 23 DTD #907: SHL (550 FNL & 1020 FEL)	0.00	0.00	0.00	4400986.80	650794.10	32.209003	-103.845786	Point
PLU 23 DTD #907: PBHL (2440 FSL & 990 FEL)	11139.00	13542.40	-25.70	4536399.00	650768.40	32.246230	-103.845670	Point
PLU 907 DTD #907: FLP / LP	11139.00	880.20	28.70	4409786.80	650822.80	32.214422	-103.845680	Point
PLU 907 DTD #907: LTP	11139.00	13412.40	-25.20	4535009.00	650768.90	32.245872	-103.845670	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6940.00	0.00	0.00	6940.00	0.00	0.00	0.00	0.00	0.00
3	7189.93	0.00	4.98	7189.92	10.95	0.98	2.00	4.98	10.95
4	10628.17	5.00	4.98	10615.77	309.39	26.98	0.00	309.27	0.00
5	11479.39	90.00	359.75	11479.00	880.20	28.70	10.00	-5.25	880.07
6	24011.71	90.00	359.75	11139.00	13412.40	-25.14	0.00	0.00	13412.38
7	24141.71	90.00	359.75	11139.00	13542.40	-25.70	0.00	0.00	13542.38

FORMATION TOP DETAILS

TVDPATH	FORMATION
501.00	Rustler
877.00	Top Salt
3874.00	Base Salt
4094.00	Delaware
4972.00	Cherry Canyon
6630.00	Brushy Canyon
7947.00	Bone Spring
7978.00	Bone Spring Lm
8965.00	1st Bone Spring Ss
9701.00	2nd Bone Spring Ss
10058.00	3rd Bone Spring Lm
10871.00	3rd Bone Spring Ss
11139.00	LP



Note: All Plan details including boundary lines and offset well data is subject to customers approval.

Plan: PERMIT v3 (#907/OH)

Created By: Matthew May Date: 15:39, May 03 2018