

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN Operator

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018REC'D/MIDLAND
DEC 26 2019**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or recomplete an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM157756A

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 29 BS 104H9. API Well No.
30-015-45934-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

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

Sec 29 T25S R31E SENW 2310FWL 2040FWL
32.102207 N Lat, 103.802299 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | Change to Original A |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | PD |

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

XTO Permian Operating, LLC requests permission to make the following changes to the original APD:

Change BHL fr/200'FSL & 2310'FWL in Sec. 5-T26S-R31E to 200'FSL & 2430'FWL in Sec. 32-T25S-R31E.

Update the casing/cement design per the attached drilling program.

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

In addition, XTO requests a variance to be able to batch drill these wells if necessary. In doing so, XTO will set intermediate casing and ensure that the well is cemented properly and the wells are dead. With floats holding, no pressure on the intermediate csg annulus, and the installation of a

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

Electronic Submission #494653 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/05/2019 (20PP0577SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 12/05/2019

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

DEC 16 2019

Approved By

Title

Date

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

BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

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

(Instructions on page 2)

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

1/28/20 KS

Additional data for EC transaction #494653 that would not fit on the form

32. Additional remarks, continued

TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the surface and intermediate for the remaining wells on the pad. Once surface and intermediate are all completed, XTO will begin drilling the production hole on each of the wells.

Poker Lake Unit 29 BS 703H ? 30-015-45919

Poker Lake Unit 29 BS 903H ? 30-015-45920

Poker Lake Unit 29 BS 104H ? 30-015-45934

Poker Lake Unit 29 BS 123H ? Waiting on API number

Poker Lake Unit 29 BS 124H ? 30-015-45932

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 30-015-45934	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 29 BS	⁶ Well Number 104H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,358'

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
F	29	25 S	31 E		2,310	NORTH	2,040	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	25 S	31 E		200	SOUTH	2,430	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION ¹ 373075 Y= 401,324.3 X= 705,770.6 LAT.= 32.102206°N LONG.= 103.802297°W	LAST TAKE POINT NAD 83 NME Y= 393,344.2 X= 706,170.7 LAT.= 32.080265°N LONG.= 103.801132°W	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Kelly Kardos Signature Date 12/6/19
	FIRST TAKE POINT NAD 83 NME Y= 400,642.2 X= 706,158.4 LAT.= 32.100326°N LONG.= 103.801056°W	BOTTOM HOLE LOCATION NAD 83 NME Y= 393,214.2 X= 706,171.2 LAT.= 32.079908°N LONG.= 103.801133°W	
	CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,984.0 N, X= 706,383.3 E B - Y= 400,975.3 N, X= 705,056.4 E C - Y= 398,334.2 N, X= 706,368.7 E D - Y= 398,321.1 N, X= 705,044.2 E E - Y= 395,671.4 N, X= 706,385.5 E F - Y= 395,661.7 N, X= 705,058.7 E G - Y= 393,015.9 N, X= 706,402.2 E H - Y= 393,006.1 N, X= 705,072.1 E		
	CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,926.1 N, X= 665,197.8 E B - Y= 400,917.4 N, X= 663,870.9 E C - Y= 398,276.4 N, X= 665,183.1 E D - Y= 398,263.3 N, X= 663,858.6 E E - Y= 395,613.6 N, X= 665,199.8 E F - Y= 395,603.9 N, X= 663,873.0 E G - Y= 392,958.2 N, X= 665,216.4 E H - Y= 392,948.4 N, X= 663,886.3 E		
	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 401,266.4 X= 664,585.1 LAT.= 32.102082°N LONG.= 103.801818°W	LAST TAKE POINT NAD 27 NME Y= 393,286.5 X= 664,984.9 LAT.= 32.080140°N LONG.= 103.800654°W	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 07-08-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR 2017071008
	FIRST TAKE POINT NAD 27 NME Y= 400,584.3 X= 664,972.9 LAT.= 32.100202°N LONG.= 103.800577°W	BOTTOM HOLE LOCATION NAD 27 NME Y= 393,156.5 X= 664,985.4 LAT.= 32.079783°N LONG.= 103.800655°W	

Intent ☒ As Drilled ☐

API #
30-015-45934

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 29 BS	Well Number 104H
--	---	---------------------

Kick Off Point (KOP)

UL F	Section 29	Township 25S	Range 31E	Lot	Feet 2310	From N/S NORTH	Feet 2040	From E/W WEST	County EDDY
Latitude 32.102206					Longitude -103.802297			NAD 83	

First Take Point (FTP)

UL K	Section 29	Township 25S	Range 31E	Lot	Feet 2310	From N/S SOUTH	Feet 2430	From E/W WEST	County EDDY
Latitude 32.100326					Longitude -103.801056			NAD 83	

Last Take Point (LTP)

UL N	Section 32	Township 25S	Range 31E	Lot	Feet 330	From N/S SOUTH	Feet 2430	From E/W WEST	County EDDY
Latitude 32.080265					Longitude -103.801132			NAD 83	

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

☐ N

Is this well an infill well?

☐ Y

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

API #
30-015-45918

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: POKER LAKE UNIT 29 BS	Well Number 701H
--	---	---------------------

KZ 06/29/2018

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

XTO Energy Inc.
PLU 29 Big Sinks 104H
Projected TD: 19370' MD / 11587' TVD
SHL: 2310' FNL & 2040' FWL , Section 29, T25S, R31E
BHL: 200' FSL & 2430' FWL , Section 32, T25S, 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	824'	Water
Top of Salt	1187'	Water
Base of Salt	3923'	Water
Delaware	4137'	Water
Bone Spring	8079'	Water/Oil/Gas
1st Bone Spring Ss	9076'	Water/Oil/Gas
2nd Bone Spring Ss	9937'	Water/Oil/Gas
3rd Bone Spring Ss	11031'	Water/Oil/Gas
Wolfcamp	11442'	Water/Oil/Gas
Wolfcamp X	11471'	Water/Oil/Gas
Wolfcamp Y	11566'	Water/Oil/Gas
Target/Land Curve	11587'	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 @ 1030' (157' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3980' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 200' into the 9-5/8 inch casing. A 6 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1030'	13-3/8"	54.5	BTC	J-55	New	2.21	2.40	15.20
12-1/4"	0' - 3980'	9-5/8"	40	BTC	J-55	New	1.29	2.05	3.96
8-3/4"	0' - 11942'	7"	32	BTC	P-110	New	1.31	1.92	2.68
6"	11642' - 19370'	4-1/2"	13.5	BTC	P-110	New	1.31	2.32	2.15

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

WELLHEAD:

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

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

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

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, BTC casing to be set at +/- 1030'

Lead: 540 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

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

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

Top of Cement: Surface

Intermediate Casing: 9-5/8", 40 New J-55, BTC casing to be set at +/- 3980'

Lead: 1150 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

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

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

Top of Cement: Surface

2nd Intermediate Casing: 7", 32 New P-110, BTC casing to be set at +/- 11942'

Lead: 730 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 60 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

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

Top of Cement: 200' inside previous casing shoe

Production Casing: 4-1/2", 13.5 New P-110, BTC casing to be set at +/- 19370'

Tail: 650 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft³/sx, 8.38 gal/sx water)

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

Top of Cement: Top of liner

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4561 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 9-5/8" and 7" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 1030'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
1030' to 3980'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3980' to 11942'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
11942' to 19370'	6"	OBM	11.3-12.3	32-50	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 150 to 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. The maximum anticipated bottom hole pressure for this well is 7110 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.

Fill Line

Flowline

5000# (5M)
BOP

Annular Preventer

Pipe Rams

Blind Rams

Drilling Spool

Kill Line

3" Minimum Choke Line

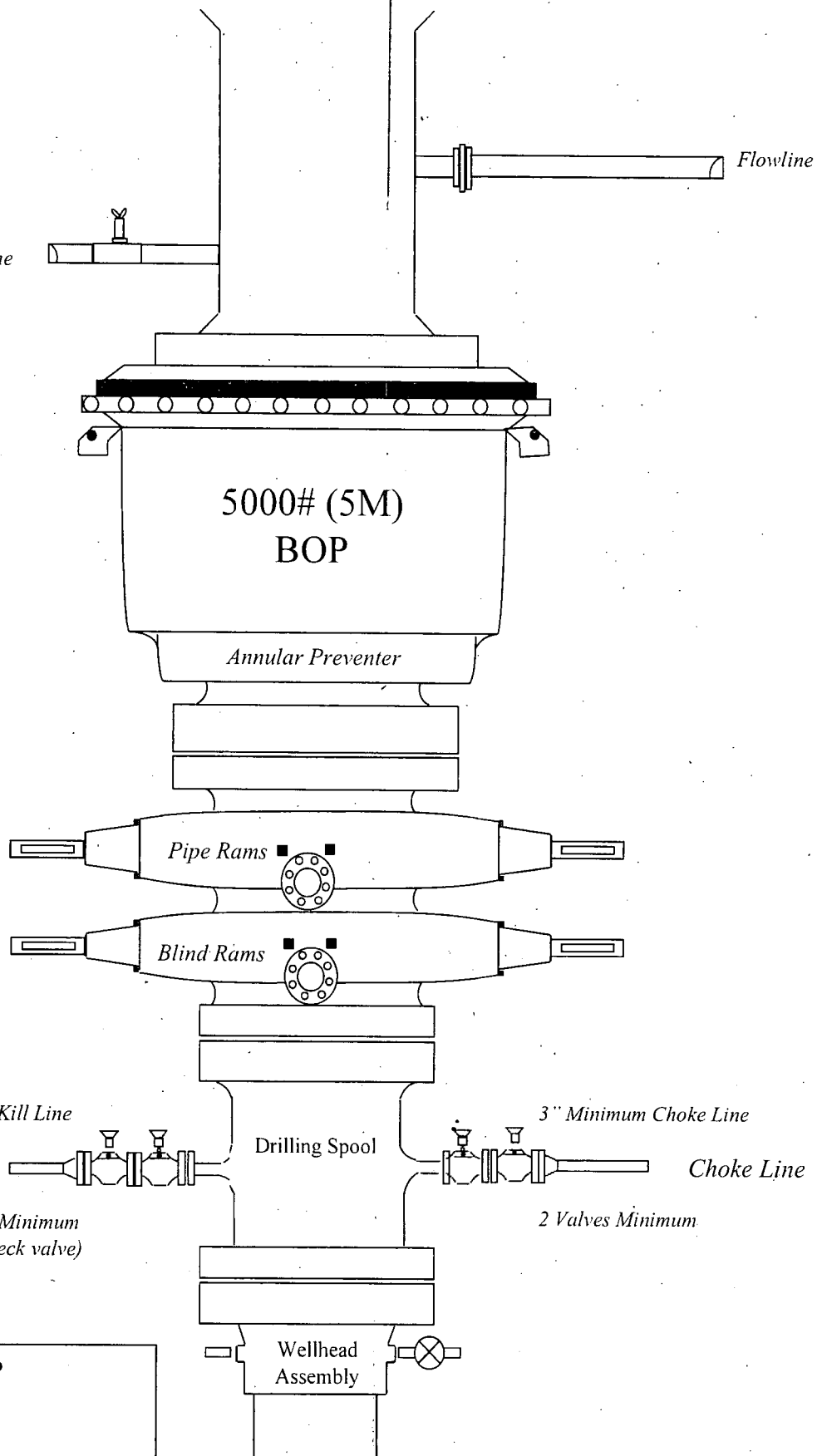
Choke Line

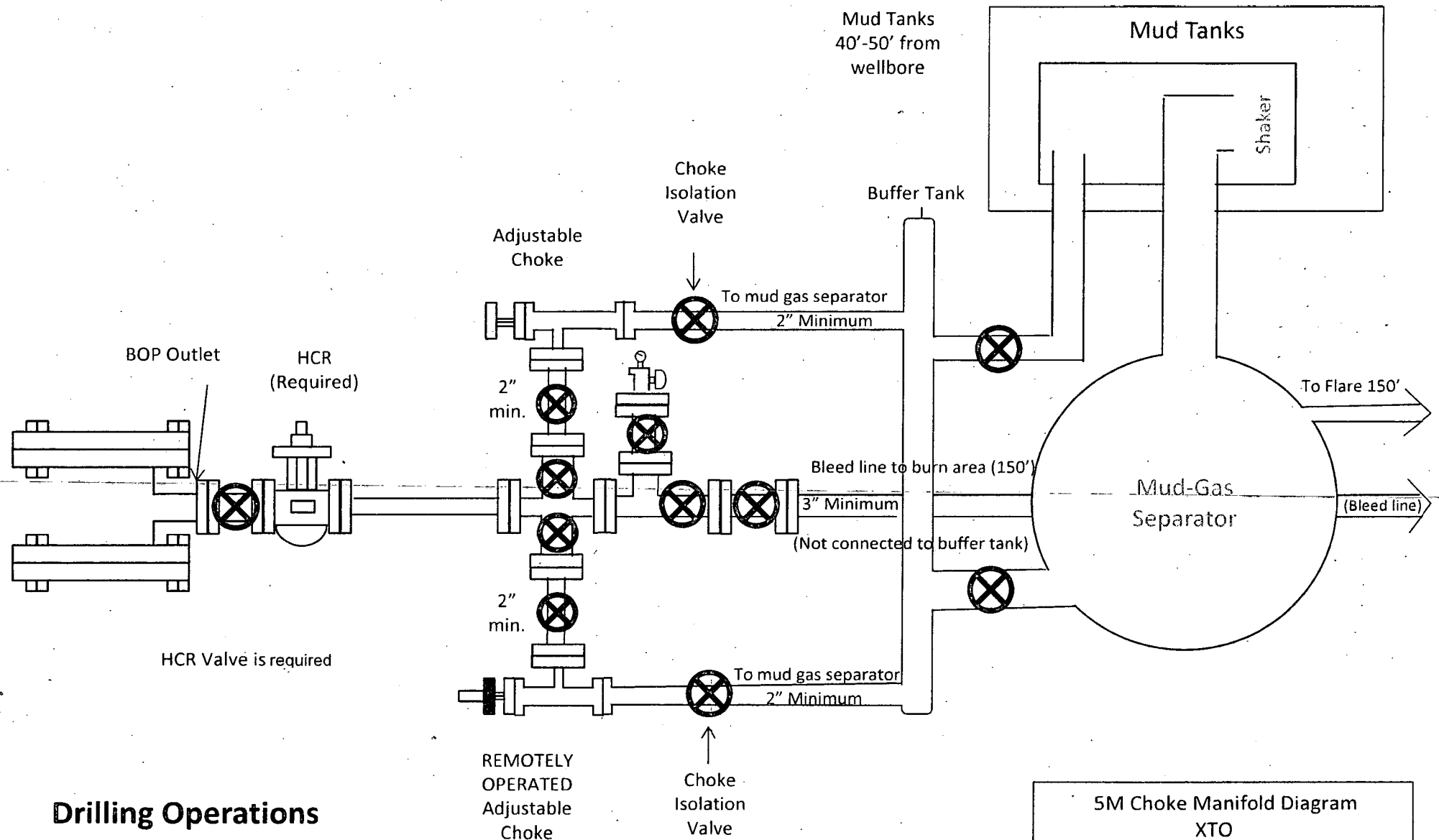
2 Valves Minimum
(and 1 check valve)

2 Valves Minimum

5000# BOP
XTO

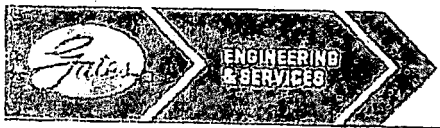
Wellhead
Assembly





Drilling Operations **Choke Manifold** **5M Service**

5M Choke Manifold Diagram
XTO



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

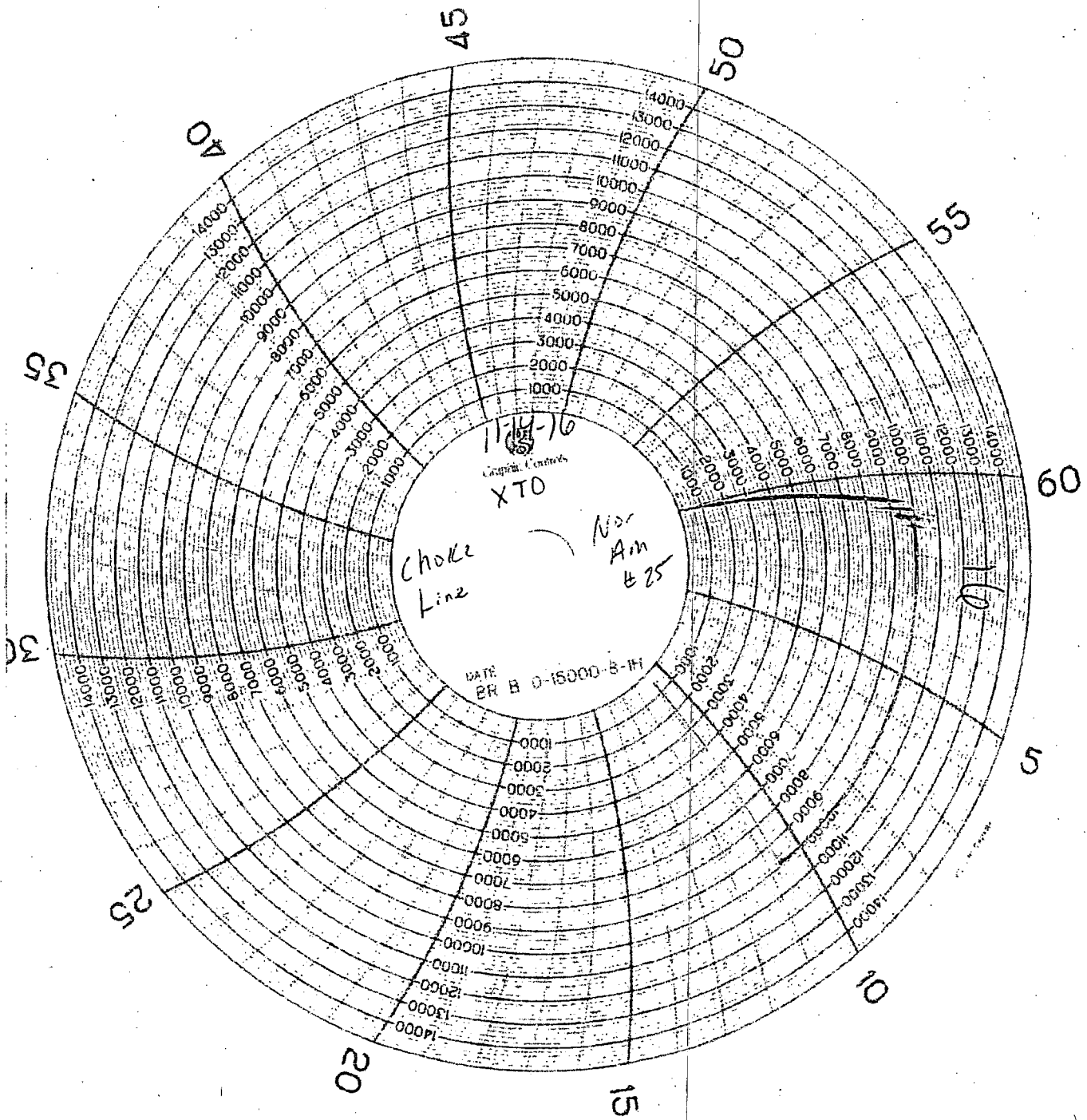
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

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 :	FD3.0-12.0R-11/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in. SK FLG	End Fitting 2 :	4 1/16 in. SK FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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

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



NOON

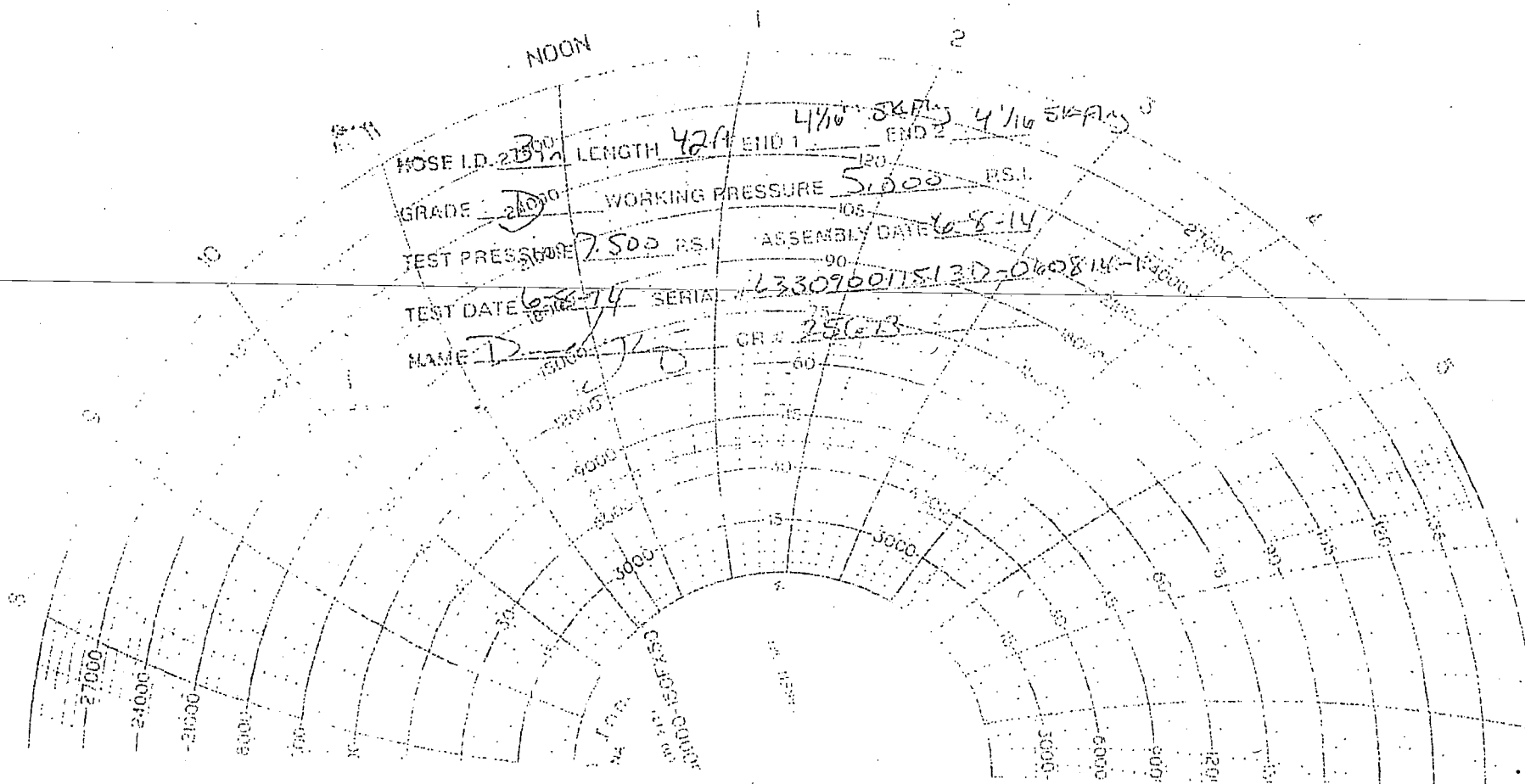
HOSE I.D. 2 1/2" LENGTH 42 ft END 1 4 1/16" 8KPS END 2 4 1/16" 5KPS

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-060814-15000

NAME D-175 CR 256B





Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: PLU 29 Big Sinks
Well: #104H
Wellbore: OH
Rig:
Design: Plan #2 / 13:08, November 13 2019



CORRECTION REFERENCE DATA:
To convert a Magnetic Direction to a Grid Direction, Add 6.68°
To convert a True Direction to a Grid Direction, Subtract 0.28°
To convert a Magnetic Direction to a True Direction, Add 6.78° East
Magnetic Declination: 6.78°
Grid Convergence: 0.28° West
Magnetic Dip Angle: 68.28°
Magnetic Field Strength: 47694.99932566nT

WELL DETAILS: #104H

RKB = 24' @ 3362.00nft

Ground Level: 3358.00

N/S	E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	401265.40	664585.20	32.102082	-103.801818

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	N/S	E/W	Diag	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00
3	5333.09	5.00	100.64	5332.66	-2.68	14.26	1.50	2.70
4	9558.96	5.00	100.64	9542.48	-70.62	375.98	0.00	71.28
5	9808.77	0.00	179.90	9791.98	-72.63	386.67	2.00	73.31
6	10938.77	0.00	179.90	10921.98	-72.63	386.67	0.00	73.31
7	11438.77	40.00	179.90	11382.34	-240.19	386.96	8.00	240.87
8	11941.77	90.30	179.90	11587.00	-682.10	387.70	10.00	682.78
9	19235.68	90.30	179.90	11548.79	-7979.30	399.98	0.00	7980.59
10	19369.68	90.30	179.90	11548.11	-8109.90	400.20	0.00	8110.59

DESIGN TARGET DETAILS

Name	TVD	N/S	E/W	Northing	Easting	Latitude	Longitude
#104H: SHL (2310' FNLJ 2040' FWL)	0.00	0.00	0.00	401265.40	664585.20	32.102082	-103.801818
#104H: PBHL (200' FSLJ 2430' FWL)	11548.11	-8109.90	400.20	393156.50	664985.40	32.079783	-103.800955
#104H: LTP	11548.79	-7979.90	399.70	393286.50	664984.90	32.080141	-103.800654
#104H: FTPLP	11587.00	-682.10	387.70	400584.30	664972.90	32.100202	-103.800577

FORMATION TOP DETAILS

TVD Path	Formation
874.00	Rustler
1197.00	Salado
3923.00	Base of Salt
4137.00	Delaware
5127.00	Cherry Canyon
6813.00	Brushy Canyon
7864.00	Basal Brushy Canyon
8079.00	Bone Spring
8106.00	Bone Spring Lime
9076.00	1st Bone Sand
9488.00	2nd Bone Lime
9937.00	2nd Bone Sand
10159.00	3rd Bone Lime
11031.00	3rd Bone Sand
11953.00	Red Hills
11442.00	Wolfcamp
11471.00	Wolfcamp X
11588.00	Wolfcamp Y
11587.00	LP

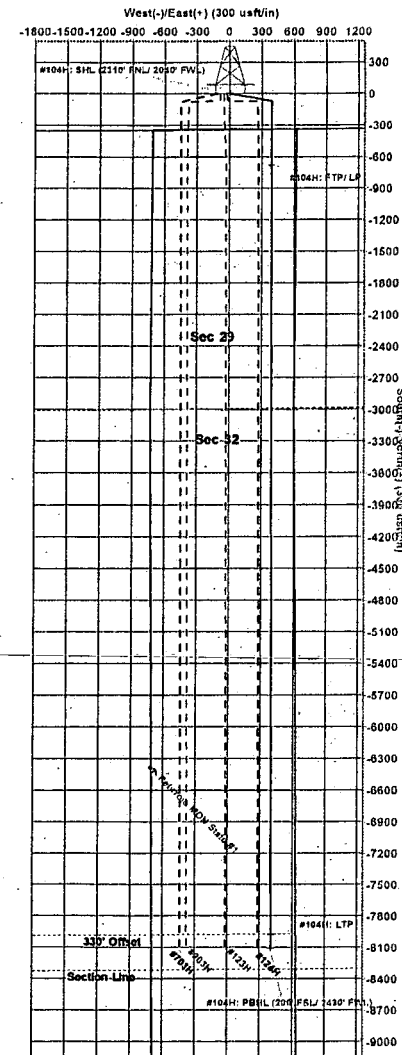


Azimuths to Grid North
True North: -0.28°
Magnetic North: 6.51°
Magnetic Field
Strength: 47694.99932566nT
Dip Angle: 68.28°
Date: 11/13/2019
Model: IGRF2015

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

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CORUS)
Ellipsoid: Clarke 1866
Curve: New Mexico East 3001
System Origin: Station One Level

Disclaimer:
All Plan Details, Boundary Lines and other well location survey data is provided as estimates and subject to customer approval.



Plan: Plan #2 (#104H/OH)

Created By: Pete Broussard Date: 13:08, November 13 2019

Vertical Section at 179.90° (300 usf/in)



XTO Energy

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

PLU 29 Big Sinks

#104H

OH

Plan: Plan #2

Standard Plan With Toolface

13 November, 2019



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

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

Site	PLU 29 Big Sinks		
Site Position:		Northing:	401,257.90 usft
From:	Map	Easting:	663,265.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.102077
		Longitude:	-103.806081
		Grid Convergence:	0.280 °

Well	#104H		
Well Position	+N-S	0.00 usft	Northing: 401,266.40 usft
	+E-W	0.00 usft	Easting: 664,585.20 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: 0.00 usft
			Latitude: 32.102082
			Longitude: -103.801818
			Ground Level: 3,358.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	11/13/2019	6.791
			(°)
			59.883
			47,594.99932568

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction: 179.90
			(°)

Survey Tool Program	Date 11/13/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
0.00	19,369.65	Plan #2 (OH)	MWD
			Description
			MWD - Standard



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey: _____

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
5,100.00	1.50	100.64	5,099.99	-0.24	1.29	0.24	1.50	1.50	0.00	100.638
5,200.00	3.00	100.64	5,199.91	-0.97	5.14	0.98	1.50	1.50	0.00	0.000
5,300.00	4.50	100.64	5,299.69	-2.17	11.57	2.19	1.50	1.50	0.00	0.000



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
5,333.09	5.00	100.64	5,332.66	-2.68	14.26	2.70	1.50	1.50	0.00	0.000	
5,400.00	5.00	100.64	5,399.32	-3.76	19.99	3.79	0.00	0.00	0.00	0.000	
5,500.00	5.00	100.64	5,498.94	-5.36	28.55	5.41	0.00	0.00	0.00	0.000	
5,600.00	5.00	100.64	5,598.56	-6.97	37.11	7.04	0.00	0.00	0.00	0.000	
5,700.00	5.00	100.64	5,698.18	-8.58	45.67	8.66	0.00	0.00	0.00	0.000	
5,800.00	5.00	100.64	5,797.80	-10.19	54.23	10.28	0.00	0.00	0.00	0.000	
5,900.00	5.00	100.64	5,897.42	-11.79	62.79	11.90	0.00	0.00	0.00	0.000	
6,000.00	5.00	100.64	5,997.04	-13.40	71.35	13.53	0.00	0.00	0.00	0.000	
6,100.00	5.00	100.64	6,096.66	-15.01	79.91	15.15	0.00	0.00	0.00	0.000	
6,200.00	5.00	100.64	6,196.28	-16.62	88.47	16.77	0.00	0.00	0.00	0.000	
6,300.00	5.00	100.64	6,295.90	-18.23	97.03	18.39	0.00	0.00	0.00	0.000	
6,400.00	5.00	100.64	6,395.52	-19.83	105.59	20.02	0.00	0.00	0.00	0.000	
6,500.00	5.00	100.64	6,495.14	-21.44	114.15	21.64	0.00	0.00	0.00	0.000	
6,600.00	5.00	100.64	6,594.76	-23.05	122.71	23.26	0.00	0.00	0.00	0.000	
6,700.00	5.00	100.64	6,694.38	-24.66	131.26	24.89	0.00	0.00	0.00	0.000	
6,800.00	5.00	100.64	6,794.00	-26.26	139.82	26.51	0.00	0.00	0.00	0.000	
6,900.00	5.00	100.64	6,893.62	-27.87	148.38	28.13	0.00	0.00	0.00	0.000	
7,000.00	5.00	100.64	6,993.24	-29.48	156.94	29.75	0.00	0.00	0.00	0.000	
7,100.00	5.00	100.64	7,092.86	-31.09	165.50	31.38	0.00	0.00	0.00	0.000	
7,200.00	5.00	100.64	7,192.48	-32.70	174.06	33.00	0.00	0.00	0.00	0.000	
7,300.00	5.00	100.64	7,292.10	-34.30	182.62	34.62	0.00	0.00	0.00	0.000	
7,400.00	5.00	100.64	7,391.72	-35.91	191.18	36.24	0.00	0.00	0.00	0.000	
7,500.00	5.00	100.64	7,491.34	-37.52	199.74	37.87	0.00	0.00	0.00	0.000	
7,600.00	5.00	100.64	7,590.96	-39.13	208.30	39.49	0.00	0.00	0.00	0.000	
7,700.00	5.00	100.64	7,690.58	-40.73	216.86	41.11	0.00	0.00	0.00	0.000	
7,800.00	5.00	100.64	7,790.20	-42.34	225.42	42.74	0.00	0.00	0.00	0.000	
7,900.00	5.00	100.64	7,889.82	-43.95	233.98	44.36	0.00	0.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big.Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
8,000.00	5.00	100.64	7,989.44	-45.56	242.54	45.98	0.00	0.00	0.00	0.000
8,100.00	5.00	100.64	8,089.06	-47.17	251.10	47.60	0.00	0.00	0.00	0.000
8,200.00	5.00	100.64	8,188.68	-48.77	259.66	49.23	0.00	0.00	0.00	0.000
8,300.00	5.00	100.64	8,288.30	-50.38	268.22	50.85	0.00	0.00	0.00	0.000
8,400.00	5.00	100.64	8,387.92	-51.99	276.78	52.47	0.00	0.00	0.00	0.000
8,500.00	5.00	100.64	8,487.54	-53.60	285.33	54.10	0.00	0.00	0.00	0.000
8,600.00	5.00	100.64	8,587.16	-55.20	293.89	55.72	0.00	0.00	0.00	0.000
8,700.00	5.00	100.64	8,686.78	-56.81	302.45	57.34	0.00	0.00	0.00	0.000
8,800.00	5.00	100.64	8,786.40	-58.42	311.01	58.96	0.00	0.00	0.00	0.000
8,900.00	5.00	100.64	8,886.02	-60.03	319.57	60.59	0.00	0.00	0.00	0.000
9,000.00	5.00	100.64	8,985.64	-61.64	328.13	62.21	0.00	0.00	0.00	0.000
9,100.00	5.00	100.64	9,085.26	-63.24	336.69	63.83	0.00	0.00	0.00	0.000
9,200.00	5.00	100.64	9,184.88	-64.85	345.25	65.45	0.00	0.00	0.00	0.000
9,300.00	5.00	100.64	9,284.50	-66.46	353.81	67.08	0.00	0.00	0.00	0.000
9,400.00	5.00	100.64	9,384.13	-68.07	362.37	68.70	0.00	0.00	0.00	0.000
9,500.00	5.00	100.64	9,483.75	-69.68	370.93	70.32	0.00	0.00	0.00	0.000
9,558.96	5.00	100.64	9,542.48	-70.62	375.98	71.28	0.00	0.00	0.00	0.000
9,600.00	4.18	100.64	9,583.39	-71.23	379.20	71.89	2.00	-2.00	0.00	180.000
9,700.00	2.18	100.64	9,683.23	-72.25	384.65	72.92	2.00	-2.00	0.00	180.000
9,808.77	0.00	179.90	9,791.98	-72.63	386.67	73.31	2.00	-2.00	0.00	180.000
9,900.00	0.00	0.00	9,883.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,000.00	0.00	0.00	9,983.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,100.00	0.00	0.00	10,083.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,200.00	0.00	0.00	10,183.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,300.00	0.00	0.00	10,283.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,400.00	0.00	0.00	10,383.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000
10,500.00	0.00	0.00	10,483.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
10,600.00	0.00	0.00	10,583.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000	
10,700.00	0.00	0.00	10,683.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000	
10,800.00	0.00	0.00	10,783.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000	
10,900.00	0.00	0.00	10,883.20	-72.63	386.67	73.31	0.00	0.00	0.00	0.000	
10,938.77	0.00	179.90	10,921.98	-72.63	386.67	73.31	0.00	0.00	0.00	179.904	
10,950.00	0.90	179.90	10,933.20	-72.72	386.67	73.40	8.00	8.00	0.00	179.904	
11,000.00	4.90	179.90	10,983.13	-75.25	386.68	75.92	8.00	8.00	0.00	0.000	
11,050.00	8.90	179.90	11,032.76	-81.25	386.69	81.93	8.00	8.00	0.00	0.000	
11,100.00	12.90	179.90	11,081.85	-90.70	386.70	91.38	8.00	8.00	0.00	0.000	
11,150.00	16.90	179.90	11,130.16	-103.56	386.73	104.23	8.00	8.00	0.00	0.000	
11,200.00	20.90	179.90	11,177.45	-119.75	386.75	120.42	8.00	8.00	0.00	0.000	
11,250.00	24.90	179.90	11,223.50	-139.20	386.79	139.87	8.00	8.00	0.00	0.000	
11,300.00	28.90	179.90	11,268.08	-161.81	386.82	162.49	8.00	8.00	0.00	0.000	
11,350.00	32.90	179.90	11,310.98	-187.48	386.87	188.16	8.00	8.00	0.00	0.000	
11,400.00	36.90	179.90	11,351.98	-216.08	386.92	216.76	8.00	8.00	0.00	0.000	
11,438.77	40.00	179.90	11,382.34	-240.19	386.96	240.87	8.00	8.00	0.00	0.000	
11,450.00	41.12	179.90	11,390.87	-247.49	386.97	248.17	10.00	10.00	0.00	0.000	
11,500.00	46.12	179.90	11,427.05	-281.97	387.03	282.65	10.00	10.00	0.00	0.000	
11,550.00	51.12	179.90	11,460.09	-319.48	387.09	320.16	10.00	10.00	0.00	0.000	
11,600.00	56.12	179.90	11,489.74	-359.73	387.16	360.40	10.00	10.00	0.00	0.000	
11,650.00	61.12	179.90	11,515.76	-402.40	387.23	403.07	10.00	10.00	0.00	0.000	
11,700.00	66.12	179.90	11,537.97	-447.18	387.30	447.85	10.00	10.00	0.00	0.000	
11,750.00	71.12	179.90	11,556.19	-493.72	387.38	494.40	10.00	10.00	0.00	0.000	
11,800.00	76.12	179.90	11,570.28	-541.68	387.46	542.36	10.00	10.00	0.00	0.000	
11,850.00	81.12	179.90	11,580.14	-590.68	387.55	591.36	10.00	10.00	0.00	0.000	
11,900.00	86.12	179.90	11,585.70	-640.36	387.63	641.03	10.00	10.00	0.00	0.000	
11,941.77	90.30	179.90	11,587.00	-682.10	387.70	682.78	10.00	10.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
12,000.00	90.30	179.90	11,586.70	-740.33	387.80	741.00	0.00	0.00	0.00	0.000
12,100.00	90.30	179.90	11,586.17	-840.33	387.97	841.00	0.00	0.00	0.00	0.000
12,200.00	90.30	179.90	11,585.65	-940.32	388.13	941.00	0.00	0.00	0.00	0.000
12,300.00	90.30	179.90	11,585.12	-1,040.32	388.30	1,041.00	0.00	0.00	0.00	0.000
12,400.00	90.30	179.90	11,584.60	-1,140.32	388.47	1,141.00	0.00	0.00	0.00	0.000
12,500.00	90.30	179.90	11,584.08	-1,240.32	388.64	1,241.00	0.00	0.00	0.00	0.000
12,600.00	90.30	179.90	11,583.55	-1,340.32	388.81	1,340.99	0.00	0.00	0.00	0.000
12,700.00	90.30	179.90	11,583.03	-1,440.32	388.98	1,440.99	0.00	0.00	0.00	0.000
12,800.00	90.30	179.90	11,582.51	-1,540.31	389.14	1,540.99	0.00	0.00	0.00	0.000
12,900.00	90.30	179.90	11,581.98	-1,640.31	389.31	1,640.99	0.00	0.00	0.00	0.000
13,000.00	90.30	179.90	11,581.46	-1,740.31	389.48	1,740.99	0.00	0.00	0.00	0.000
13,100.00	90.30	179.90	11,580.94	-1,840.31	389.65	1,840.99	0.00	0.00	0.00	0.000
13,200.00	90.30	179.90	11,580.41	-1,940.31	389.82	1,940.99	0.00	0.00	0.00	0.000
13,300.00	90.30	179.90	11,579.89	-2,040.31	389.99	2,040.98	0.00	0.00	0.00	0.000
13,400.00	90.30	179.90	11,579.36	-2,140.31	390.15	2,140.98	0.00	0.00	0.00	0.000
13,500.00	90.30	179.90	11,578.84	-2,240.30	390.32	2,240.98	0.00	0.00	0.00	0.000
13,600.00	90.30	179.90	11,578.32	-2,340.30	390.49	2,340.98	0.00	0.00	0.00	0.000
13,700.00	90.30	179.90	11,577.79	-2,440.30	390.66	2,440.98	0.00	0.00	0.00	0.000
13,800.00	90.30	179.90	11,577.27	-2,540.30	390.83	2,540.98	0.00	0.00	0.00	0.000
13,900.00	90.30	179.90	11,576.75	-2,640.30	391.00	2,640.98	0.00	0.00	0.00	0.000
14,000.00	90.30	179.90	11,576.22	-2,740.30	391.16	2,740.98	0.00	0.00	0.00	0.000
14,100.00	90.30	179.90	11,575.70	-2,840.30	391.33	2,840.97	0.00	0.00	0.00	0.000
14,200.00	90.30	179.90	11,575.18	-2,940.29	391.50	2,940.97	0.00	0.00	0.00	0.000
14,300.00	90.30	179.90	11,574.65	-3,040.29	391.67	3,040.97	0.00	0.00	0.00	0.000
14,400.00	90.30	179.90	11,574.13	-3,140.29	391.84	3,140.97	0.00	0.00	0.00	0.000
14,500.00	90.30	179.90	11,573.61	-3,240.29	392.01	3,240.97	0.00	0.00	0.00	0.000
14,600.00	90.30	179.90	11,573.08	-3,340.29	392.17	3,340.97	0.00	0.00	0.00	0.000



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
14,700.00	90.30	179.90	11,572.56	-3,440.29	392.34	3,440.97	0.00	0.00	0.00	0.000	
14,800.00	90.30	179.90	11,572.03	-3,540.28	392.51	3,540.96	0.00	0.00	0.00	0.000	
14,900.00	90.30	179.90	11,571.51	-3,640.28	392.68	3,640.96	0.00	0.00	0.00	0.000	
15,000.00	90.30	179.90	11,570.99	-3,740.28	392.85	3,740.96	0.00	0.00	0.00	0.000	
15,100.00	90.30	179.90	11,570.46	-3,840.28	393.01	3,840.96	0.00	0.00	0.00	0.000	
15,200.00	90.30	179.90	11,569.94	-3,940.28	393.18	3,940.96	0.00	0.00	0.00	0.000	
15,300.00	90.30	179.90	11,569.42	-4,040.28	393.35	4,040.96	0.00	0.00	0.00	0.000	
15,400.00	90.30	179.90	11,568.89	-4,140.28	393.52	4,140.96	0.00	0.00	0.00	0.000	
15,500.00	90.30	179.90	11,568.37	-4,240.27	393.69	4,240.95	0.00	0.00	0.00	0.000	
15,600.00	90.30	179.90	11,567.85	-4,340.27	393.86	4,340.95	0.00	0.00	0.00	0.000	
15,700.00	90.30	179.90	11,567.32	-4,440.27	394.02	4,440.95	0.00	0.00	0.00	0.000	
15,800.00	90.30	179.90	11,566.80	-4,540.27	394.19	4,540.95	0.00	0.00	0.00	0.000	
15,900.00	90.30	179.90	11,566.27	-4,640.27	394.36	4,640.95	0.00	0.00	0.00	0.000	
16,000.00	90.30	179.90	11,565.75	-4,740.27	394.53	4,740.95	0.00	0.00	0.00	0.000	
16,100.00	90.30	179.90	11,565.23	-4,840.26	394.70	4,840.95	0.00	0.00	0.00	0.000	
16,200.00	90.30	179.90	11,564.70	-4,940.26	394.87	4,940.94	0.00	0.00	0.00	0.000	
16,300.00	90.30	179.90	11,564.18	-5,040.26	395.03	5,040.94	0.00	0.00	0.00	0.000	
16,400.00	90.30	179.90	11,563.66	-5,140.26	395.20	5,140.94	0.00	0.00	0.00	0.000	
16,500.00	90.30	179.90	11,563.13	-5,240.26	395.37	5,240.94	0.00	0.00	0.00	0.000	
16,600.00	90.30	179.90	11,562.61	-5,340.26	395.54	5,340.94	0.00	0.00	0.00	0.000	
16,700.00	90.30	179.90	11,562.09	-5,440.26	395.71	5,440.94	0.00	0.00	0.00	0.000	
16,800.00	90.30	179.90	11,561.56	-5,540.25	395.88	5,540.94	0.00	0.00	0.00	0.000	
16,900.00	90.30	179.90	11,561.04	-5,640.25	396.04	5,640.94	0.00	0.00	0.00	0.000	
17,000.00	90.30	179.90	11,560.52	-5,740.25	396.21	5,740.93	0.00	0.00	0.00	0.000	
17,100.00	90.30	179.90	11,559.99	-5,840.25	396.38	5,840.93	0.00	0.00	0.00	0.000	
17,200.00	90.30	179.90	11,559.47	-5,940.25	396.55	5,940.93	0.00	0.00	0.00	0.000	
17,300.00	90.30	179.90	11,558.94	-6,040.25	396.72	6,040.93	0.00	0.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	XTO Energy	Local Co-ordinate Reference:	Well #104H
Project:	Eddy County, NM (Nad-27 / East Zone)	TVD Reference:	RKB = 24' @ 3382.00usft
Site:	PLU 29 Big Sinks	MD Reference:	RKB = 24' @ 3382.00usft
Well:	#104H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
17,400.00	90.30	179.90	11,558.42	-6,140.25	396.89	6,140.93	0.00	0.00	0.00	0.000	
17,500.00	90.30	179.90	11,557.90	-6,240.24	397.05	6,240.93	0.00	0.00	0.00	0.000	
17,600.00	90.30	179.90	11,557.37	-6,340.24	397.22	6,340.93	0.00	0.00	0.00	0.000	
17,700.00	90.30	179.90	11,556.85	-6,440.24	397.39	6,440.92	0.00	0.00	0.00	0.000	
17,800.00	90.30	179.90	11,556.33	-6,540.24	397.56	6,540.92	0.00	0.00	0.00	0.000	
17,900.00	90.30	179.90	11,555.80	-6,640.24	397.73	6,640.92	0.00	0.00	0.00	0.000	
18,000.00	90.30	179.90	11,555.28	-6,740.24	397.90	6,740.92	0.00	0.00	0.00	0.000	
18,100.00	90.30	179.90	11,554.76	-6,840.23	398.06	6,840.92	0.00	0.00	0.00	0.000	
18,200.00	90.30	179.90	11,554.23	-6,940.23	398.23	6,940.92	0.00	0.00	0.00	0.000	
18,300.00	90.30	179.90	11,553.71	-7,040.23	398.40	7,040.92	0.00	0.00	0.00	0.000	
18,400.00	90.30	179.90	11,553.18	-7,140.23	398.57	7,140.91	0.00	0.00	0.00	0.000	
18,500.00	90.30	179.90	11,552.66	-7,240.23	398.74	7,240.91	0.00	0.00	0.00	0.000	
18,600.00	90.30	179.90	11,552.14	-7,340.23	398.90	7,340.91	0.00	0.00	0.00	0.000	
18,700.00	90.30	179.90	11,551.61	-7,440.23	399.07	7,440.91	0.00	0.00	0.00	0.000	
18,800.00	90.30	179.90	11,551.09	-7,540.22	399.24	7,540.91	0.00	0.00	0.00	0.000	
18,900.00	90.30	179.90	11,550.57	-7,640.22	399.41	7,640.91	0.00	0.00	0.00	0.000	
19,000.00	90.30	179.90	11,550.04	-7,740.22	399.58	7,740.91	0.00	0.00	0.00	0.000	
19,100.00	90.30	179.90	11,549.52	-7,840.22	399.75	7,840.91	0.00	0.00	0.00	0.000	
19,200.00	90.30	179.90	11,549.00	-7,940.22	399.91	7,940.90	0.00	0.00	0.00	0.000	
19,239.68	90.30	179.90	11,548.79	-7,979.90	399.98	7,980.58	0.00	0.00	0.00	0.000	
19,300.00	90.30	179.90	11,548.47	-8,040.22	400.08	8,040.90	0.00	0.00	0.00	0.000	
19,369.68	90.30	179.90	11,548.11	-8,109.90	400.20	8,110.59	0.00	0.00	0.00	0.000	



Wellbenders Standard Plan With Toolface

Company: XTO Energy
Project: Eddy County, NM (Nad-27 / East Zone)
Site: PLU 29 Big Sinks
Well: #104H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #104H
TVD Reference: RKB = 24' @ 3382.00usft
MD Reference: RKB = 24' @ 3382.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,923.00	3,923.00	Base of Salt				
8,089.90	8,079.00	Bone Spring				
6,819.07	6,813.00	Brushy Canyon				
11,567.72	11,471.00	Wolfcamp X				
9,090.70	9,076.00	1st Bone Sand				
10,175.80	10,159.00	3rd Bone Lime				
11,783.14	11,566.00	Wolfcamp Y				
5,127.02	5,127.00	Cherry Canyon				
824.00	824.00	Rustler				
11,522.01	11,442.00	Wolfcamp				
9,504.27	9,488.00	2nd Bone Lime				
8,117.00	8,106.00	Bone Spring Lime				
1,187.00	1,187.00	Salado				
11,048.22	11,031.00	3rd Bone Sand				
7,874.08	7,864.00	Basal Brushy Canyon				
4,137.00	4,137.00	Delaware				
11,941.77	11,587.00	LP				
11,401.28	11,353.00	Red Hills				
9,953.80	9,937.00	2nd Bone Sand				

Checked By: _____ Approved By: _____ Date: _____

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMNM-0157756A
WELL NAME & NO.:	Poker Lake Unit 29 BS 104H
SURFACE HOLE FOOTAGE:	2310' FNL & 2040' FWL
BOTTOM HOLE FOOTAGE:	0200' FSL & 2430' FWL Sec. 32, T. 25 S., R 31 E.
LOCATION:	Section 29, T. 25 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. **Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**

3. The operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other wells.
4. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
5. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately **1030** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required through the curve and a minimum of one every other joint.

3. The minimum required fill of cement behind the 7 inch production casing is:

- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 17% - Additional cement may be required.**

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the 4-1/2 inch production Liner is:

- ☒ Cement as proposed. Operator shall provide method of verification.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 121619



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220-6292



Notice of Change to Procedure – Please Read

To All Operators,

This is to notify you that the Bureau of Land Management (BLM) Carlsbad Field Office will no longer be supplying copies of sundries (3160-5), applications for permit to drill (APDs), or completion reports (3160-4) to the New Mexico Oil Conservation Division (NMOCD).

Effective immediately, to be in compliance with C-104 requirements, the NMOCD is requiring operators to submit a copy of any sundries, APDs, or completion reports processed by the BLM to the appropriate NMOCD office. This change will affect all BLM sundries, APDs, and completion reports in Eddy and Lea counties.

If a copy of a previously processed sundry, APD, or completion report is needed for submission to NMOCD, the Carlsbad Field Office will send a copy to the operator.

If you have any questions, please contact Jonathon Shepard (BLM) 575-234-2237.

Thank you

Note: This notice is being included in multiple communications from the BLM Carlsbad Field Office and you may receive multiple copies.