

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
ArtesiaFORM 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.
NMNM030453

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
891000303X8. Well Name and No.
POKER LAKE UNIT 13 DTD 703H9. API Well No.
30-015-45843-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
XTO PERMIAN OPERATING LLC
Contact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com3a. Address
6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 797073b. Phone No. (include area code)
Ph: 432-620-4374

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

Sec 24 T24S R30E NENW 654FNL 2025FWL
32.208836 N Lat, 103.836426 W Lon

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

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

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

XTO Energy Inc., requests permission to make the following changes to the approved APD:

Change BHL from 2440'FNL & 1650'FWL, Sec. 36-T24S-R30E to 200'FSL & 1671'FWL, Sec. 25-T24S-R30E.

Change formation from WC; Bone Spring (Oil) to Purple Sage; Wolfcamp (Gas). *already was?*

Change from a 3-string casing design to a 4-string casing design.

In addition, XTO requests to not utilize centralizer in the curve and lateral.

Batch Drill approved on 7/15/19 (WIS: 472914)

SEE ATTACHED FOR
CONDITIONS OF APPROVALNM OIL CONSERVATION
ARTESIA DISTRICT

OCT 17 2019

RECEIVED

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

Electronic Submission #485387 verified by the BLM Well Information System
For XTO/PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 09/26/2019 (19JAS0040SE)

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 09/26/2019 APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

OCT 02 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 hereon.

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 **

RWP10-21-19

Additional data for EC transaction #485387 that would not fit on the form

32. Additional remarks, continued

Attachments:
C102 & Supplement
Drilling Program
Multibowl/BOP/Choke Diagrams
Flex hose Diagram
Directional Drill Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #485387

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM030453	NMNM030453
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	WILDCAT BONE SPRING	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 13 DTD 703H Sec 24 T24S R30E Mer NMP NENW 654FNL 2025FWL	POKER LAKE UNIT 13 DTD 703H Sec 24 T24S R30E NENW 654FNL 2025FWL 32.208836 N Lat, 103.836426 W Lon

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 30-015-45843	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 13 DTD	⁶ Well Number 703H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,457'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	24	24 S	30 E		654	NORTH	2,025	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	25	24 S	30 E		200	SOUTH	1,671	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
640			

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 27 NME SURFACE LOCATION Y= 440,004.2 X= 653,839.2 LAT= 32.208710°N LONG= 103.835942°W FIRST TAKE POINT NAD 27 NME Y= 440,327.1 X= 653,484.6 LAT= 32.209602°N LONG= 103.837084°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 440,715.0 N, X= 694,332.7 E B - Y= 440,718.6 N, X= 695,668.2 E C - Y= 438,075.1 N, X= 694,339.5 E D - Y= 438,079.8 N, X= 695,677.6 E E - Y= 435,438.8 N, X= 694,344.6 E F - Y= 435,438.2 N, X= 695,687.0 E G - Y= 432,796.2 N, X= 694,360.8 E H - Y= 432,798.6 N, X= 695,700.7 E I - Y= 430,155.7 N, X= 694,377.1 E J - Y= 430,157.5 N, X= 695,714.4 E CORNER COORDINATES TABLE NAD 27 NME A - Y= 440,656.2 N, X= 653,148.8 E B - Y= 440,659.8 N, X= 654,484.2 E C - Y= 438,016.4 N, X= 653,155.5 E D - Y= 438,021.1 N, X= 654,493.6 E E - Y= 435,380.1 N, X= 653,160.5 E F - Y= 435,379.5 N, X= 654,502.9 E G - Y= 432,737.6 N, X= 653,176.6 E H - Y= 432,740.0 N, X= 654,516.5 E I - Y= 430,097.1 N, X= 653,192.8 E J - Y= 430,098.9 N, X= 654,530.1 E LAST TAKE POINT NAD 27 NME Y= 430,427.6 X= 653,524.1 LAT= 32.182389°N LONG= 103.837104°W BOTTOM HOLE LOCATION NAD 27 NME Y= 430,297.6 X= 653,525.1 LAT= 32.182032°N LONG= 103.837102°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 undivided 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 9/26/19 Date kelly_kardos@xtoenergy.com E-mail Address
	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 440,063.0 X= 695,023.2 LAT= 32.208834°N LONG= 103.836427°W FIRST TAKE POINT NAD 83 NME Y= 440,385.9 X= 694,668.6 LAT= 32.209726°N LONG= 103.837569°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. 6-10-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number JCTM 2018010148

RwP10-21-19

Intent ☒ As Drilled ☐

API #
30-015-45843

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number 703H
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Kick Off Point (KOP)

UL C	Section 24	Township 24S	Range 30E	Lot	Feet 654	From N/S North	Feet 2025	From E/W West	County Eddy
Latitude 32.208834					Longitude -103.836427			NAD NAD83	

First Take Point (FTP)

UL C	Section 24	Township 24S	Range 30E	Lot	Feet 330	From N/S North	Feet 1671	From E/W West	County Eddy
Latitude 32.209726					Longitude -103.837569			NAD NAD83	

Last Take Point (LTP)

UL N	Section 25	Township 24S	Range 30E	Lot	Feet 330	From N/S South	Feet 1671	From E/W West	County Eddy
Latitude 32.182513					Longitude -103.837587			NAD NAD83	

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

Is this well an infill well? ☐ Y

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

API #

Operator Name: XTO Permian Operating, LLC	Property Name: Poker Lake Unit 13 DTD	Well Number: 202H
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KZ 06/29/2018

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

XTO Energy Inc.
PLU 13 Dog Town Draw 703H
Projected TD: 21455' MD / 11393' TVD
SHL: 654' FNL & 2025' FWL , Section 24, T24S, R30E
BHL: 200' FSL & 1671' FWL , Section 25, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	459'	Water
Top of Salt	908'	Water
Base of Salt	3983'	Water
Delaware	4148'	Water
Bone Spring	8003'	Water/Oil/Gas
1st Bone Spring Ss	8953'	Water/Oil/Gas
2nd Bone Spring Ss	9793'	Water/Oil/Gas
3rd Bone Spring Ss	10943'	Water/Oil/Gas
Wolfcamp Shale	11343'	Water/Oil/Gas
Target/Land Curve	11393'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 710' (198' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 4058' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 10238' and 9-5/8 inch casing ran and cemented 200' into the 13-3/8 inch casing. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' - 710'	18-5/8"	87.5	BTC	J-55	New	1.85	1.96	22.00
17-1/2"	0' - 4058'	13-3/8"	68	BTC	HCL-80	New	1.98	2.18	5.60
12-1/4"	0' - 10238'	9-5/8"	40	BTC	HCL-80	New	1.21	1.50	2.24
8-3/4-8-1/2"	0' - 21455'	5-1/2"	20	BTC	P-110	New	1.18	1.58	2.12

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

13-3/8" Collapse analyzed using 50% evacuation based on regional experience.

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

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

WELLHEAD:

Temporary Wellhead

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

Permanent Wellhead - GE RSH Multibowl System

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 per Onshore Order 2.
- Wellhead manufacturer representative may not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New J-55, BTC casing to be set at +/- 710'

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

Tail: 550 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

1st Intermediate Casing: 13-3/8", 68 New HCL-80, BTC casing to be set at +/- 4058'

Lead: 2390 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 830 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

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

Top of Cement: Surface

*2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 10238'
ECP/DV Tool to be set at 4108'*

1st Stage

Lead: 1100 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft³/sx, 9.61 gal/sx water)

Tail: 380 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

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

2nd Stage

Lead: 1700 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Compressives:

Top of Cement: 200' inside previous casing shoe

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 21455'

Lead: 50 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 2550 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: 300' inside previous casing shoe

5. Pressure Control Equipment

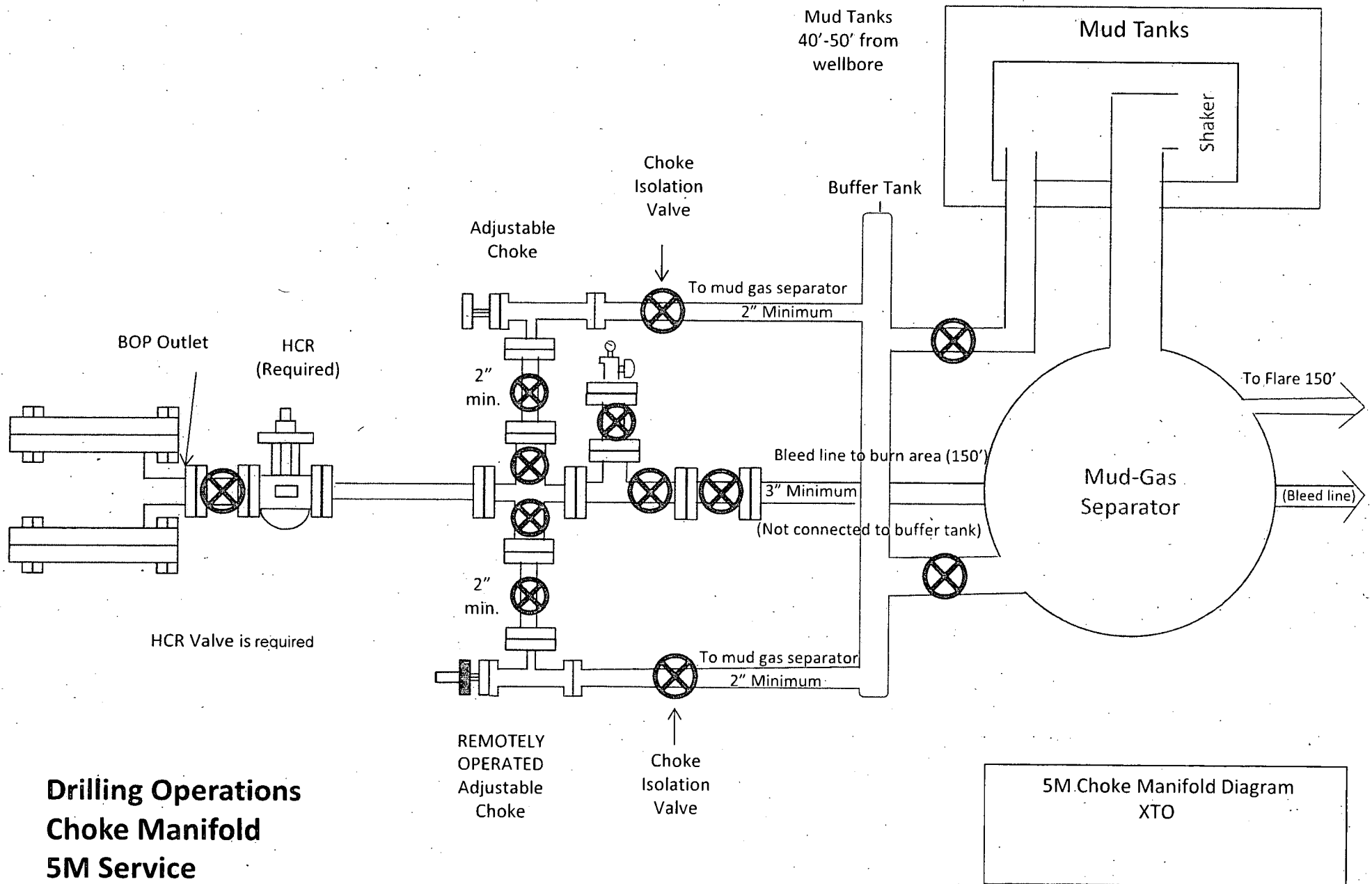
The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1217 psi.

Once the permanent wellhead is installed 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 4484 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 13-3/8" and 9-5/8" 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.

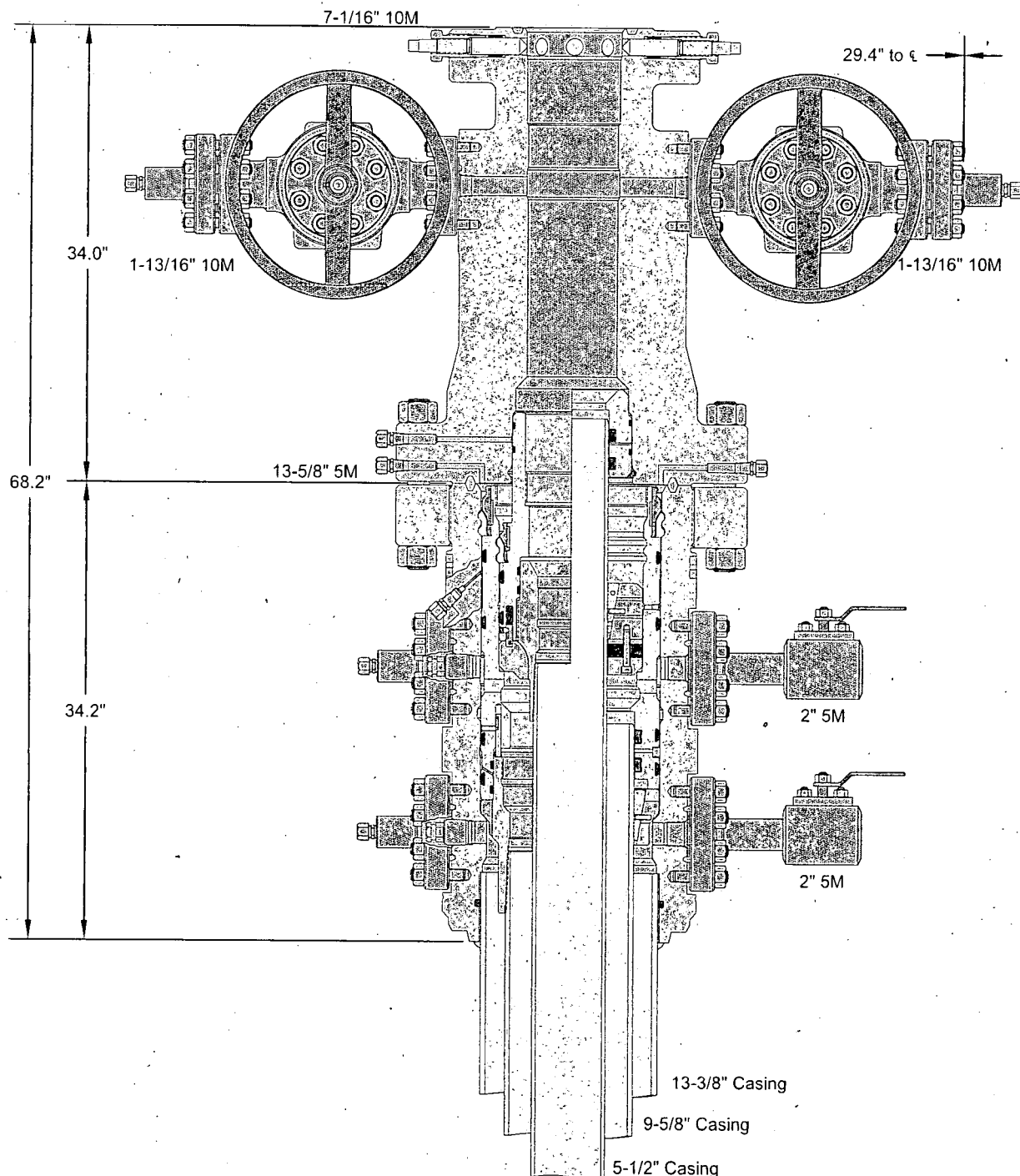
A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be

kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.





GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

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

XTO ENERGY, INC.

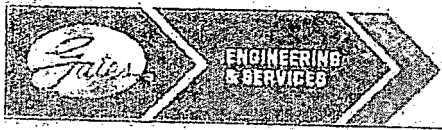
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

DRAWN VJK 16FEB17

APPRV KN 16FEB17

FOR REFERENCE ONLY

DRAWING NO. 10012842



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

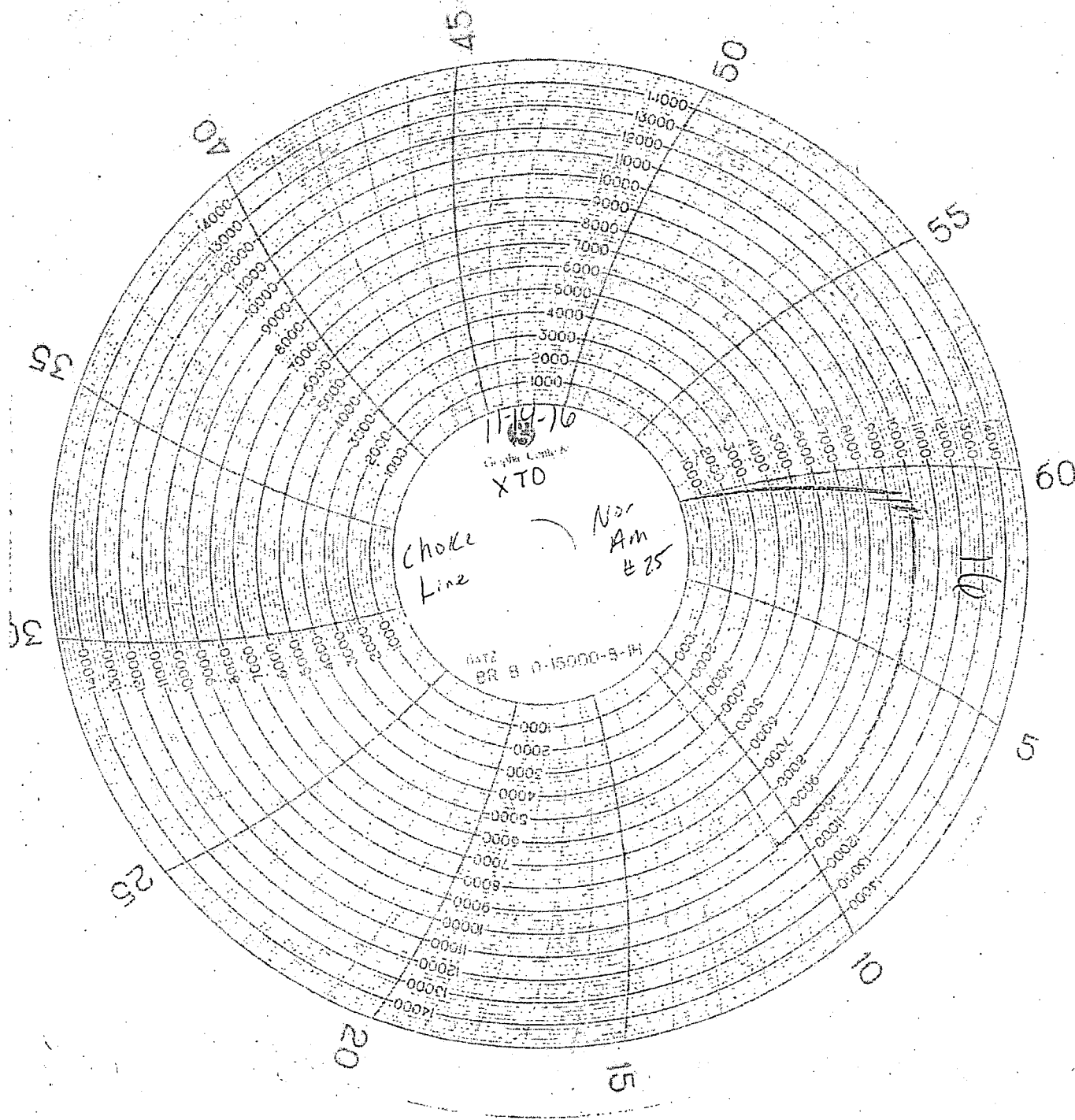
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

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:	NORHA
Product Description:	FD3.042.0R41/16.5KFLGE/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

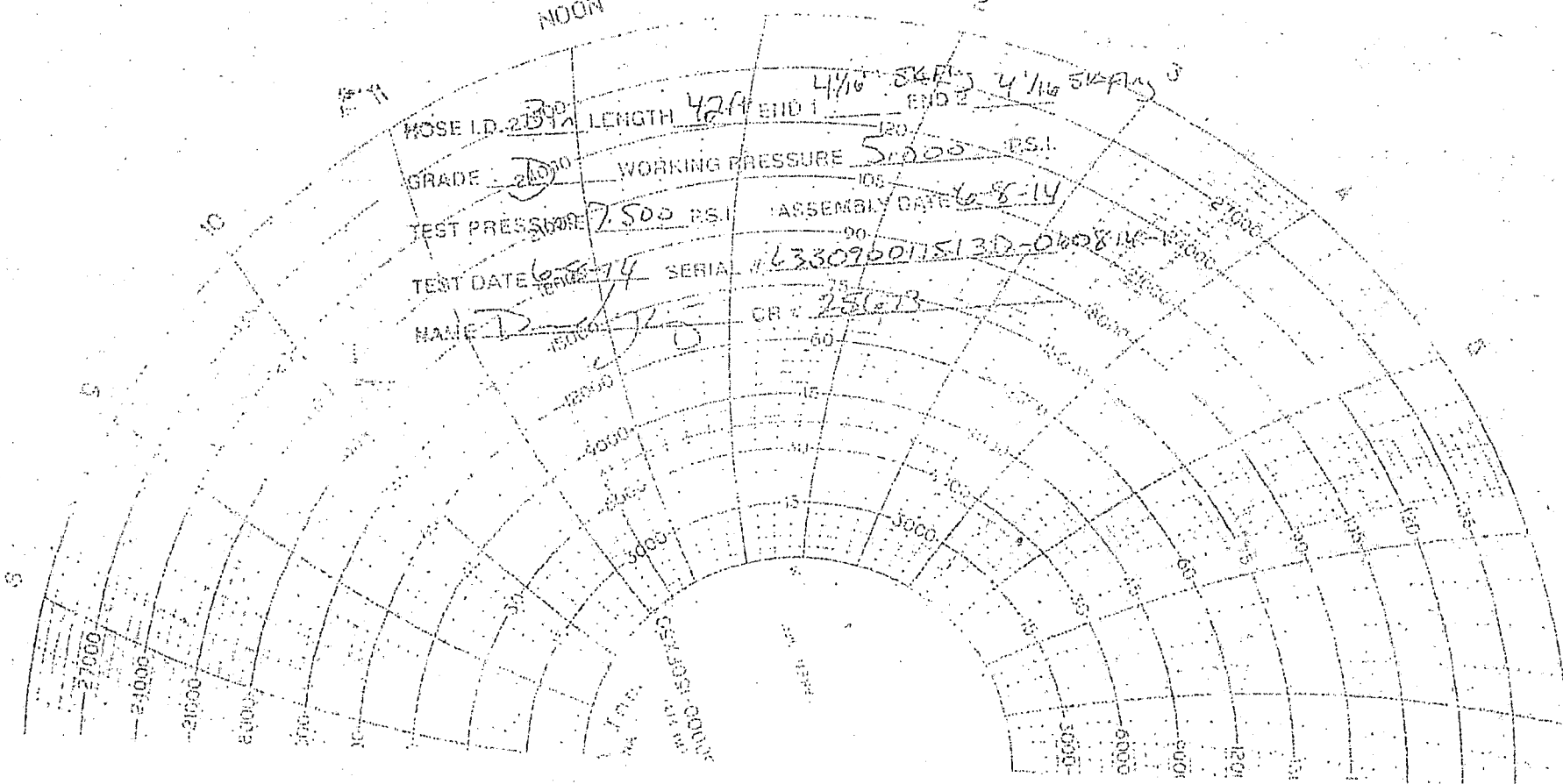
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance 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' END 1 4 1/16 SAE END 2 4 1/16 SAE
GRADE 2000 WORKING PRESSURE 5000 P.S.I.
TEST PRESSURE 7500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL # 633090011513D-060814
NAME D. J. CR # 25613





XTO ENERGY, INC.

Eddy County, NM

Sec 24, T24S, R30E

Poker Lake Unit 13 DTD #703H (103H)

Wellbore #1

Plan: Design #3

QES Well Planning Report

31 July, 2019





Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 13 DTD #703H (103H)
Company:	XTO ENERGY, INC.	TVD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project:	Eddy County, NM		
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		Sec 24, T24S, R30E			
Site Position:		Northing:	440,004.20 usft	Latitude:	32° 12' 31.357 N
From:	Map	Easting:	653,839.20 usft	Longitude:	103° 50' 9.392 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well	Poker Lake Unit 13 DTD #703H (103H)					
Well Position	+N/-S	0.0 usft	Northing:	440,004.20 usft	Latitude:	32° 12' 31.357 N
	+E/-W	0.0 usft	Easting:	653,839.20 usft	Longitude:	103° 50' 9.392 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,457.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/16/2019	6.80	59.90	47,901.60000000

Design:	Design #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.85

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,466.3	6.99	331.73	5,465.1	25.0	-13.5	1.50	1.50	0.00	331.73	
10,763.1	6.99	331.73	10,722.5	593.1	-318.9	0.00	0.00	0.00	0.00	
11,724.8	90.00	179.77	11,356.0	23.3	-353.2	10.00	8.63	-15.80	-151.78	
21,454.8	90.00	179.77	11,356.0	-9,706.6	-314.1	0.00	0.00	0.00	0.00	PLU 13 DTD 703H



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 13 DTD #703H (103H)
Company:	XTO ENERGY, INC.	TVD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
RSLR									
458.0	0.00	0.00	458.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
T/SALT									
853.0	0.00	0.00	853.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
B/SALT									
3,928.0	0.00	0.00	3,928.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
DLWR									
4,158.0	0.00	0.00	4,158.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00



Well Planning Report



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Company:	XTO ENERGY INC.	TVD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
Build 1.5°/100'										
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	1.50	331.73	5,100.0	1.2	-0.6	-1.1	1.50	1.50	0.00	
5,200.0	3.00	331.73	5,199.9	4.6	-2.5	-4.5	1.50	1.50	0.00	
5,300.0	4.50	331.73	5,299.7	10.4	-5.6	-10.2	1.50	1.50	0.00	
5,400.0	6.00	331.73	5,399.3	18.4	-9.9	-18.1	1.50	1.50	0.00	
EOB @ 6.99° Inc. / 331.73° Azm										
5,466.3	6.99	331.73	5,465.1	25.0	-13.5	-24.6	1.50	1.50	0.00	
5,500.0	6.99	331.73	5,498.6	28.7	-15.4	-28.1	0.00	0.00	0.00	
5,600.0	6.99	331.73	5,597.8	39.4	-21.2	-38.7	0.00	0.00	0.00	
5,700.0	6.99	331.73	5,697.1	50.1	-26.9	-49.2	0.00	0.00	0.00	
5,800.0	6.99	331.73	5,796.4	60.8	-32.7	-59.7	0.00	0.00	0.00	
5,900.0	6.99	331.73	5,895.6	71.6	-38.5	-70.3	0.00	0.00	0.00	
6,000.0	6.99	331.73	5,994.9	82.3	-44.2	-80.8	0.00	0.00	0.00	
6,100.0	6.99	331.73	6,094.1	93.0	-50.0	-91.3	0.00	0.00	0.00	
6,200.0	6.99	331.73	6,193.4	103.7	-55.8	-101.9	0.00	0.00	0.00	
6,300.0	6.99	331.73	6,292.6	114.4	-61.5	-112.4	0.00	0.00	0.00	
6,400.0	6.99	331.73	6,391.9	125.2	-67.3	-122.9	0.00	0.00	0.00	
6,500.0	6.99	331.73	6,491.2	135.9	-73.1	-133.5	0.00	0.00	0.00	
6,600.0	6.99	331.73	6,590.4	146.6	-78.8	-144.0	0.00	0.00	0.00	
BYCN										
6,668.1	6.99	331.73	6,658.0	153.9	-82.8	-151.2	0.00	0.00	0.00	
6,700.0	6.99	331.73	6,689.7	157.3	-84.6	-154.5	0.00	0.00	0.00	
6,800.0	6.99	331.73	6,788.9	168.1	-90.4	-165.1	0.00	0.00	0.00	
6,900.0	6.99	331.73	6,888.2	178.8	-96.1	-175.6	0.00	0.00	0.00	
7,000.0	6.99	331.73	6,987.4	189.5	-101.9	-186.1	0.00	0.00	0.00	
7,100.0	6.99	331.73	7,086.7	200.2	-107.7	-196.7	0.00	0.00	0.00	
7,200.0	6.99	331.73	7,185.9	211.0	-113.4	-207.2	0.00	0.00	0.00	
7,300.0	6.99	331.73	7,285.2	221.7	-119.2	-217.7	0.00	0.00	0.00	
7,400.0	6.99	331.73	7,384.5	232.4	-125.0	-228.3	0.00	0.00	0.00	
7,500.0	6.99	331.73	7,483.7	243.1	-130.7	-238.8	0.00	0.00	0.00	
7,600.0	6.99	331.73	7,583.0	253.9	-136.5	-249.3	0.00	0.00	0.00	
7,700.0	6.99	331.73	7,682.2	264.6	-142.3	-259.9	0.00	0.00	0.00	
7,800.0	6.99	331.73	7,781.5	275.3	-148.0	-270.4	0.00	0.00	0.00	
7,900.0	6.99	331.73	7,880.7	286.0	-153.8	-280.9	0.00	0.00	0.00	
BSPG LM										
7,987.9	6.99	331.73	7,968.0	295.5	-158.9	-290.2	0.00	0.00	0.00	
8,000.0	6.99	331.73	7,980.0	296.8	-159.6	-291.5	0.00	0.00	0.00	
8,100.0	6.99	331.73	8,079.2	307.5	-165.3	-302.0	0.00	0.00	0.00	
8,200.0	6.99	331.73	8,178.5	318.2	-171.1	-312.5	0.00	0.00	0.00	
8,300.0	6.99	331.73	8,277.8	328.9	-176.9	-323.1	0.00	0.00	0.00	
8,400.0	6.99	331.73	8,377.0	339.7	-182.6	-333.6	0.00	0.00	0.00	
8,500.0	6.99	331.73	8,476.3	350.4	-188.4	-344.1	0.00	0.00	0.00	
8,600.0	6.99	331.73	8,575.5	361.1	-194.2	-354.6	0.00	0.00	0.00	
8,700.0	6.99	331.73	8,674.8	371.8	-199.9	-365.2	0.00	0.00	0.00	
8,800.0	6.99	331.73	8,774.0	382.6	-205.7	-375.7	0.00	0.00	0.00	
8,900.0	6.99	331.73	8,873.3	393.3	-211.5	-386.2	0.00	0.00	0.00	
BSPG1										
8,990.4	6.99	331.73	8,963.0	403.0	-216.7	-395.8	0.00	0.00	0.00	



Well Planning Report



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Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.0	6.99	331.73	8,972.5	404.0	-217.2	-396.8	0.00	0.00	0.00
9,100.0	6.99	331.73	9,071.8	414.7	-223.0	-407.3	0.00	0.00	0.00
9,200.0	6.99	331.73	9,171.1	425.5	-228.8	-417.8	0.00	0.00	0.00
9,300.0	6.99	331.73	9,270.3	436.2	-234.5	-428.4	0.00	0.00	0.00
BSPG2_LM									
9,348.0	6.99	331.73	9,318.0	441.3	-237.3	-433.4	0.00	0.00	0.00
9,400.0	6.99	331.73	9,369.6	446.9	-240.3	-438.9	0.00	0.00	0.00
9,500.0	6.99	331.73	9,468.8	457.6	-246.1	-449.4	0.00	0.00	0.00
9,600.0	6.99	331.73	9,568.1	468.4	-251.8	-460.0	0.00	0.00	0.00
9,700.0	6.99	331.73	9,667.3	479.1	-257.6	-470.5	0.00	0.00	0.00
BSPG2									
9,766.2	6.99	331.73	9,733.0	486.2	-261.4	-477.5	0.00	0.00	0.00
9,800.0	6.99	331.73	9,766.6	489.8	-263.4	-481.0	0.00	0.00	0.00
9,900.0	6.99	331.73	9,865.8	500.5	-269.1	-491.6	0.00	0.00	0.00
10,000.0	6.99	331.73	9,965.1	511.3	-274.9	-502.1	0.00	0.00	0.00
10,100.0	6.99	331.73	10,064.4	522.0	-280.7	-512.6	0.00	0.00	0.00
BSPG3_LM									
10,174.2	6.99	331.73	10,138.0	529.9	-285.0	-520.5	0.00	0.00	0.00
10,200.0	6.99	331.73	10,163.6	532.7	-286.4	-523.2	0.00	0.00	0.00
10,300.0	6.99	331.73	10,262.9	543.4	-292.2	-533.7	0.00	0.00	0.00
10,400.0	6.99	331.73	10,362.1	554.2	-298.0	-544.2	0.00	0.00	0.00
10,500.0	6.99	331.73	10,461.4	564.9	-303.7	-554.8	0.00	0.00	0.00
10,600.0	6.99	331.73	10,560.6	575.6	-309.5	-565.3	0.00	0.00	0.00
10,700.0	6.99	331.73	10,659.9	586.3	-315.3	-575.8	0.00	0.00	0.00
Build 10°/100'									
10,763.1	6.99	331.73	10,722.5	593.1	-318.9	-582.5	0.00	0.00	0.00
10,800.0	4.13	306.71	10,759.3	595.9	-321.0	-585.2	10.00	-7.77	-67.79
10,900.0	8.21	203.33	10,858.9	591.5	-326.8	-580.6	10.00	4.08	-103.38
BSPG3									
10,924.5	10.49	197.91	10,883.0	587.7	-328.1	-576.8	10.00	9.34	-22.16
11,000.0	17.82	190.10	10,956.2	569.8	-332.3	-558.7	10.00	9.70	-10.33
11,100.0	27.70	186.08	11,048.3	531.5	-337.5	-520.3	10.00	9.88	-4.03
11,200.0	37.64	184.06	11,132.4	477.8	-342.1	-466.5	10.00	9.94	-2.02
11,300.0	47.61	182.79	11,205.9	410.3	-346.1	-398.9	10.00	9.96	-1.27
11,400.0	57.58	181.87	11,266.5	331.0	-349.2	-319.5	10.00	9.97	-0.92
WFMP									
11,476.2	65.18	181.30	11,303.0	264.2	-351.1	-252.7	10.00	9.98	-0.75
11,500.0	67.56	181.13	11,312.5	242.4	-351.5	-230.9	10.00	9.98	-0.69
WFMP_X									
11,529.2	70.48	180.94	11,323.0	215.1	-352.0	-203.6	10.00	9.98	-0.66
11,600.0	77.54	180.50	11,342.5	147.1	-352.9	-135.6	10.00	9.98	-0.62
11,700.0	87.53	179.91	11,355.5	48.1	-353.2	-36.7	10.00	9.98	-0.59
EOB @ 90.00° Inc. / 179.77° Azim									
11,724.8	90.00	179.77	11,356.0	23.3	-353.2	-11.9	10.00	9.98	-0.58
11,800.0	90.00	179.77	11,356.0	-51.9	-352.9	63.3	0.00	0.00	0.00
11,900.0	90.00	179.77	11,356.0	-151.9	-352.5	163.2	0.00	0.00	0.00
12,000.0	90.00	179.77	11,356.0	-251.9	-352.1	263.1	0.00	0.00	0.00
12,100.0	90.00	179.77	11,356.0	-351.9	-351.7	363.1	0.00	0.00	0.00
12,200.0	90.00	179.77	11,356.0	-451.9	-351.3	463.0	0.00	0.00	0.00
12,300.0	90.00	179.77	11,356.0	-551.9	-350.8	562.9	0.00	0.00	0.00
12,400.0	90.00	179.77	11,356.0	-651.9	-350.4	662.9	0.00	0.00	0.00
12,500.0	90.00	179.77	11,356.0	-751.9	-350.0	762.8	0.00	0.00	0.00
12,600.0	90.00	179.77	11,356.0	-851.9	-349.6	862.7	0.00	0.00	0.00



Well Planning Report



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Design:	Design #3		

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)	
12,700.0	90.00	179.77	11,356.0	-951.9	-349.2	962.7	0.00	0.00	0.00	
12,800.0	90.00	179.77	11,356.0	-1,051.9	-348.8	1,062.6	0.00	0.00	0.00	
12,900.0	90.00	179.77	11,356.0	-1,151.9	-348.4	1,162.5	0.00	0.00	0.00	
13,000.0	90.00	179.77	11,356.0	-1,251.9	-348.0	1,262.5	0.00	0.00	0.00	
13,100.0	90.00	179.77	11,356.0	-1,351.9	-347.6	1,362.4	0.00	0.00	0.00	
13,200.0	90.00	179.77	11,356.0	-1,451.9	-347.2	1,462.4	0.00	0.00	0.00	
13,300.0	90.00	179.77	11,356.0	-1,551.9	-346.8	1,562.3	0.00	0.00	0.00	
13,400.0	90.00	179.77	11,356.0	-1,651.9	-346.4	1,662.2	0.00	0.00	0.00	
13,500.0	90.00	179.77	11,356.0	-1,751.9	-346.0	1,762.2	0.00	0.00	0.00	
13,600.0	90.00	179.77	11,356.0	-1,851.9	-345.6	1,862.1	0.00	0.00	0.00	
13,700.0	90.00	179.77	11,356.0	-1,951.9	-345.2	1,962.0	0.00	0.00	0.00	
13,800.0	90.00	179.77	11,356.0	-2,051.9	-344.8	2,062.0	0.00	0.00	0.00	
13,900.0	90.00	179.77	11,356.0	-2,151.9	-344.4	2,161.9	0.00	0.00	0.00	
14,000.0	90.00	179.77	11,356.0	-2,251.9	-344.0	2,261.8	0.00	0.00	0.00	
14,100.0	90.00	179.77	11,356.0	-2,351.9	-343.6	2,361.8	0.00	0.00	0.00	
14,200.0	90.00	179.77	11,356.0	-2,451.9	-343.2	2,461.7	0.00	0.00	0.00	
14,300.0	90.00	179.77	11,356.0	-2,551.9	-342.8	2,561.6	0.00	0.00	0.00	
14,400.0	90.00	179.77	11,356.0	-2,651.9	-342.4	2,661.6	0.00	0.00	0.00	
14,500.0	90.00	179.77	11,356.0	-2,751.9	-342.0	2,761.5	0.00	0.00	0.00	
14,600.0	90.00	179.77	11,356.0	-2,851.9	-341.6	2,861.4	0.00	0.00	0.00	
14,700.0	90.00	179.77	11,356.0	-2,951.9	-341.2	2,961.4	0.00	0.00	0.00	
14,800.0	90.00	179.77	11,356.0	-3,051.9	-340.8	3,061.3	0.00	0.00	0.00	
14,900.0	90.00	179.77	11,356.0	-3,151.9	-340.4	3,161.2	0.00	0.00	0.00	
15,000.0	90.00	179.77	11,356.0	-3,251.9	-340.0	3,261.2	0.00	0.00	0.00	
15,100.0	90.00	179.77	11,356.0	-3,351.9	-339.6	3,361.1	0.00	0.00	0.00	
15,200.0	90.00	179.77	11,356.0	-3,451.9	-339.2	3,461.0	0.00	0.00	0.00	
15,300.0	90.00	179.77	11,356.0	-3,551.9	-338.8	3,561.0	0.00	0.00	0.00	
15,400.0	90.00	179.77	11,356.0	-3,651.9	-338.4	3,660.9	0.00	0.00	0.00	
15,500.0	90.00	179.77	11,356.0	-3,751.9	-338.0	3,760.8	0.00	0.00	0.00	
15,600.0	90.00	179.77	11,356.0	-3,851.9	-337.6	3,860.8	0.00	0.00	0.00	
15,700.0	90.00	179.77	11,356.0	-3,951.9	-337.2	3,960.7	0.00	0.00	0.00	
15,800.0	90.00	179.77	11,356.0	-4,051.9	-336.8	4,060.6	0.00	0.00	0.00	
15,900.0	90.00	179.77	11,356.0	-4,151.9	-336.4	4,160.6	0.00	0.00	0.00	
16,000.0	90.00	179.77	11,356.0	-4,251.9	-336.0	4,260.5	0.00	0.00	0.00	
16,100.0	90.00	179.77	11,356.0	-4,351.9	-335.6	4,360.4	0.00	0.00	0.00	
16,200.0	90.00	179.77	11,356.0	-4,451.9	-335.2	4,460.4	0.00	0.00	0.00	
16,300.0	90.00	179.77	11,356.0	-4,551.9	-334.8	4,560.3	0.00	0.00	0.00	
16,400.0	90.00	179.77	11,356.0	-4,651.9	-334.4	4,660.2	0.00	0.00	0.00	
16,500.0	90.00	179.77	11,356.0	-4,751.9	-334.0	4,760.2	0.00	0.00	0.00	
16,600.0	90.00	179.77	11,356.0	-4,851.9	-333.6	4,860.1	0.00	0.00	0.00	
16,700.0	90.00	179.77	11,356.0	-4,951.9	-333.2	4,960.0	0.00	0.00	0.00	
16,800.0	90.00	179.77	11,356.0	-5,051.9	-332.8	5,060.0	0.00	0.00	0.00	
16,900.0	90.00	179.77	11,356.0	-5,151.8	-332.4	5,159.9	0.00	0.00	0.00	
17,000.0	90.00	179.77	11,356.0	-5,251.8	-332.0	5,259.8	0.00	0.00	0.00	
17,100.0	90.00	179.77	11,356.0	-5,351.8	-331.6	5,359.8	0.00	0.00	0.00	
17,200.0	90.00	179.77	11,356.0	-5,451.8	-331.2	5,459.7	0.00	0.00	0.00	
17,300.0	90.00	179.77	11,356.0	-5,551.8	-330.8	5,559.6	0.00	0.00	0.00	
17,400.0	90.00	179.77	11,356.0	-5,651.8	-330.4	5,659.6	0.00	0.00	0.00	
17,500.0	90.00	179.77	11,356.0	-5,751.8	-330.0	5,759.5	0.00	0.00	0.00	
17,600.0	90.00	179.77	11,356.0	-5,851.8	-329.6	5,859.4	0.00	0.00	0.00	
17,700.0	90.00	179.77	11,356.0	-5,951.8	-329.2	5,959.4	0.00	0.00	0.00	
17,800.0	90.00	179.77	11,356.0	-6,051.8	-328.8	6,059.3	0.00	0.00	0.00	
17,900.0	90.00	179.77	11,356.0	-6,151.8	-328.4	6,159.2	0.00	0.00	0.00	
18,000.0	90.00	179.77	11,356.0	-6,251.8	-328.0	6,259.2	0.00	0.00	0.00	



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 13 DTD #703H (103H)
Company:	XTO ENERGY, INC.	TVD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker-Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
18,100.0	90.00	179.77	11,356.0	-6,351.8	-327.6	6,359.1	0.00	0.00	0.00
18,200.0	90.00	179.77	11,356.0	-6,451.8	-327.2	6,459.0	0.00	0.00	0.00
18,300.0	90.00	179.77	11,356.0	-6,551.8	-326.8	6,559.0	0.00	0.00	0.00
18,400.0	90.00	179.77	11,356.0	-6,651.8	-326.4	6,658.9	0.00	0.00	0.00
18,500.0	90.00	179.77	11,356.0	-6,751.8	-326.0	6,758.8	0.00	0.00	0.00
18,600.0	90.00	179.77	11,356.0	-6,851.8	-325.6	6,858.8	0.00	0.00	0.00
18,700.0	90.00	179.77	11,356.0	-6,951.8	-325.2	6,958.7	0.00	0.00	0.00
18,800.0	90.00	179.77	11,356.0	-7,051.8	-324.8	7,058.6	0.00	0.00	0.00
18,900.0	90.00	179.77	11,356.0	-7,151.8	-324.4	7,158.6	0.00	0.00	0.00
19,000.0	90.00	179.77	11,356.0	-7,251.8	-324.0	7,258.5	0.00	0.00	0.00
19,100.0	90.00	179.77	11,356.0	-7,351.8	-323.6	7,358.5	0.00	0.00	0.00
19,200.0	90.00	179.77	11,356.0	-7,451.8	-323.2	7,458.4	0.00	0.00	0.00
19,300.0	90.00	179.77	11,356.0	-7,551.8	-322.7	7,558.3	0.00	0.00	0.00
19,400.0	90.00	179.77	11,356.0	-7,651.8	-322.3	7,658.3	0.00	0.00	0.00
19,500.0	90.00	179.77	11,356.0	-7,751.8	-321.9	7,758.2	0.00	0.00	0.00
19,600.0	90.00	179.77	11,356.0	-7,851.8	-321.5	7,858.1	0.00	0.00	0.00
19,700.0	90.00	179.77	11,356.0	-7,951.8	-321.1	7,958.1	0.00	0.00	0.00
19,800.0	90.00	179.77	11,356.0	-8,051.8	-320.7	8,058.0	0.00	0.00	0.00
19,900.0	90.00	179.77	11,356.0	-8,151.8	-320.3	8,157.9	0.00	0.00	0.00
20,000.0	90.00	179.77	11,356.0	-8,251.8	-319.9	8,257.9	0.00	0.00	0.00
20,100.0	90.00	179.77	11,356.0	-8,351.8	-319.5	8,357.8	0.00	0.00	0.00
20,200.0	90.00	179.77	11,356.0	-8,451.8	-319.1	8,457.7	0.00	0.00	0.00
20,300.0	90.00	179.77	11,356.0	-8,551.8	-318.7	8,557.7	0.00	0.00	0.00
20,400.0	90.00	179.77	11,356.0	-8,651.8	-318.3	8,657.6	0.00	0.00	0.00
20,500.0	90.00	179.77	11,356.0	-8,751.8	-317.9	8,757.5	0.00	0.00	0.00
20,600.0	90.00	179.77	11,356.0	-8,851.8	-317.5	8,857.5	0.00	0.00	0.00
20,700.0	90.00	179.77	11,356.0	-8,951.8	-317.1	8,957.4	0.00	0.00	0.00
20,800.0	90.00	179.77	11,356.0	-9,051.8	-316.7	9,057.3	0.00	0.00	0.00
20,900.0	90.00	179.77	11,356.0	-9,151.8	-316.3	9,157.3	0.00	0.00	0.00
21,000.0	90.00	179.77	11,356.0	-9,251.8	-315.9	9,257.2	0.00	0.00	0.00
21,100.0	90.00	179.77	11,356.0	-9,351.8	-315.5	9,357.1	0.00	0.00	0.00
21,200.0	90.00	179.77	11,356.0	-9,451.8	-315.1	9,457.1	0.00	0.00	0.00
21,300.0	90.00	179.77	11,356.0	-9,551.8	-314.7	9,557.0	0.00	0.00	0.00
21,400.0	90.00	179.77	11,356.0	-9,651.8	-314.3	9,656.9	0.00	0.00	0.00
TD @ 21454.8' MD / 11356.0' TVD									
21,454.8	90.00	179.77	11,356.0	-9,706.6	-314.1	9,711.7	0.00	0.00	0.00

Design Targets									
Target Name	Hit/Miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	
PLU 13 DTD 703H - F	-	0.00	0.00	11,343.0	322.9	-354.6	440,327.10	653,484.60	32° 12' 34.568 N 103° 50' 13.501 W
- plan misses target center by 62.1usft at 11443.9usft MD (11288.6 TVD, 293.1 N, -350.4 E)									
- Point									
PLU 13 DTD 703H - L	-	0.00	0.00	11,343.0	-9,576.6	-315.1	430,427.60	653,524.10	32° 10' 56.601 N 103° 50' 13.573 W
- plan misses target center by 13.0usft at 21324.8usft MD (11356.0 TVD, -9576.6 N, -314.6 E)									
- Point									
PLU 13 DTD 703H - F	-	0.00	0.00	11,356.0	-9,706.6	-314.1	430,297.60	653,525.10	32° 10' 55.314 N 103° 50' 13.569 W
- plan hits target center									
- Rectangle (sides W100.0 H10,029.0 D0.0)									



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Poker Lake Unit 13 DTD #703H (103H)
Company:	XTO ENERGY, INC.	TVD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Project:	Eddy County, NM	MD Reference:	KB=26' @ 3483.0usft (Trinidad #121)
Site:	Sec 24, T24S, R30E	North Reference:	Grid
Well:	Poker Lake Unit 13 DTD #703H (103H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
458.0	458.0	RSLR				
853.0	853.0	T/SALT				
3,928.0	3,928.0	B/SALT				
4,158.0	4,158.0	DLWR				
6,668.1	6,658.0	BYCN				
7,987.9	7,968.0	BSPG_LM				
8,990.4	8,963.0	BSPG1				
9,348.0	9,318.0	BSPG2_LM				
9,766.2	9,733.0	BSPG2				
10,174.2	10,138.0	BSPG3_LM				
10,924.5	10,883.0	BSPG3				
11,476.2	11,303.0	WFMP				
11,529.2	11,323.0	WFMP_X				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,000.0	5,000.0	0.0	0.0	Build 1.5°/100'	
5,466.3	5,465.1	25.0	-13.5	EOB @ 6.99° Inc. / 331.73° Azm	
10,763.1	10,722.5	593.1	-318.9	Build 10°/100'	
11,724.8	11,356.0	23.3	-353.2	EOB @ 90.00° Inc. / 179.77° Azm	
21,454.8	11,356.0	-9,706.6	-314.1	TD @ 21454.8' MD / 11356.0' TVD	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMNM-0030453
WELL NAME & NO.:	Poker Lake Unit 13 DTD 703H
SURFACE HOLE FOOTAGE:	0654' FNL & 2025' FWL
BOTTOM HOLE FOOTAGE:	0200' FSL & 1671' FWL Sec. 25, T. 24 S., R 30 E.
LOCATION:	Section 24, T. 24 S., R 30 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. 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.
4. 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.

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 **18-5/8 inch** surface casing shall be set at approximately **710 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt)** and cemented to the surface.
 - 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.
2. The minimum required fill of cement behind the **13-3/8 inch 1st** intermediate casing is **(ensure casing is 25 feet below the base of the salt):**

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

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.

9-5/8" 2nd Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the **9-5/8 inch 2nd** intermediate casing is:

Operator has proposed DV tool at depth of 4108', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

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.

4. The minimum required fill of cement behind the 5-1/2 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 19% - Additional cement may be required.**

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 **2000 (2M) psi**.
4. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch 1st intermediate casing shoe shall be 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the 9-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

5. 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.

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