

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.
NNMN15302

6. If Indian, Allottee or Tribe Name

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

326 258

8. Well Name and No.
CORRAL CANYON FEDERAL 9H9. API Well No.
30-015-4371210. Field and Pool or Exploratory Area
WILLOW LAKE; BS, SE11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

XTO ENERGY INC

Contact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com

3a. Address

6401 HOLIDAY HILL RD 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 3 T25S R29E Mer NMP SWSW 170FSL 84FWL

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 well name fr/Corral Canyon Federal 9H to Corral Canyon 3 Fed 9H.

Change BHL fr/330'FNL & 660'FWL to 50'FNL & 660'FWL

Change casing/cement design

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

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED

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

Electronic Submission #480992 verified by the BLM Well Information System
For XTO ENERGY INC. sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 08/29/2019 ()

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 08/29/2019

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

AUG 29 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)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RWP 10-30-19

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

RECEIVED

SEP 23 2019

Form C-102

Revised August 1, 2011

Submit a copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 43712	² Pool Code 96217	³ Pool Name WILLOW LAKE; BONE SPRING, SE
⁴ Property Code 326258	⁵ Property Name CORRAL CANYON 3 FED	⁶ Well Number 9H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 2,998'

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
M	3	25 S	29 E		170	SOUTH	84	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
4	3	25 S	29 E		50	NORTH	660	WEST	EDDY

¹² Dedicated Acres 159.95	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	16 SEC. 33 SEC. 34 T24S R29E SEC. 4 SEC. 3 T25S R29E SEC. 9 SEC. 10 LOT 1 39.97 AC LOT 3 39.85 AC LOT 4 39.95 AC HZSU AREA B.H.L. L.T.P. S.H.L. F.T.P. GRID AZ=359°38'23" HORIZ. DIST.=5,207.72' GRID AZ=101°22'04" HORIZ. DIST.=588.64'	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 419,297.3 X= 609,317.0 LAT.= 32.152272°N LONG.= 103.980108°W FIRST TAKE POINT NAD 27 NME Y= 419,181.3 X= 609,894.1 LAT.= 32.151948°N LONG.= 103.978244°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 424,436.0 N, X= 609,201.3 E B - Y= 424,441.8 N, X= 610,534.2 E C - Y= 421,781.3 N, X= 609,218.2 E D - Y= 421,789.7 N, X= 610,546.7 E E - Y= 419,127.1 N, X= 609,234.4 E F - Y= 419,135.6 N, X= 610,558.8 E CORNER COORDINATES TABLE NAD 83 NME A - Y= 424,494.6 N, X= 650,385.3 E B - Y= 424,500.4 N, X= 651,718.3 E C - Y= 421,839.9 N, X= 650,402.3 E D - Y= 421,848.2 N, X= 651,730.8 E E - Y= 419,185.6 N, X= 650,418.6 E F - Y= 419,194.1 N, X= 651,743.0 E LAST TAKE POINT NAD 27 NME Y= 424,338.8 X= 609,861.5 LAT.= 32.166126°N LONG.= 103.978294°W BOTTOM HOLE LOCATION NAD 27 NME Y= 424,388.8 X= 609,861.5 LAT.= 32.166264°N LONG.= 103.978294°W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 419,355.8 X= 650,501.2 LAT.= 32.152396°N LONG.= 103.980595°W FIRST TAKE POINT NAD 83 NME Y= 419,239.8 X= 651,078.3 LAT.= 32.152072°N LONG.= 103.978732°W LAST TAKE POINT NAD 83 NME Y= 424,397.4 X= 651,045.9 LAT.= 32.166250°N LONG.= 103.978781°W BOTTOM HOLE LOCATION NAD 83 NME Y= 424,447.4 X= 651,045.6 LAT.= 32.166387°N LONG.= 103.978782°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 8/28/19 Signature Date Kelly Kardos Printed Name kelly_kardos@xtoenergy.com E-mail Address	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 08-27-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number 2017091546 AI/TM/AW
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RwP 10-30-19

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

XTO Energy Inc.
Corral Canyon 3 Fed 9H
Projected TD: 14340' MD / 8734' TVD
SHL: 170' FSL & 84' FWL , Section 3, T25S, R29E
BHL: 50' FNL & 660' FWL , Section 3, T25S, R29E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	374'	Water
Top of Salt	752'	Water
Base of Salt	2829'	Water
Delaware	3036'	Water
Bone Spring Lm	6830'	Water/Oil/Gas
1st Bone Spring Ss	7731'	Water/Oil/Gas
2nd Bone Spring Ss	8506'	Water/Oil/Gas
Target/Land Curve	8734'	Water/Oil/Gas

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 @ 600' (100' into the Rustler) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 7350'. A DV tool will be set @ 675' (100' below the surface shoe). Cement will be circulated to surface. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back at least 500' into the intermediate casing.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 600'	13-3/8"	54.5	STC	J-55	New	1.24	4.21	15.72
12-1/4"	0' – 7350'	9-5/8"	40	LTC	HCL-80	New	2.27	1.89	2.85
8-3/4" x 8-1/2"	0' – 14340'	5-1/2"	17	BTC	P-110	New	1.12	1.68	2.93

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

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

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Manufacturer will witness installation of test plug for initial test.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, STC casing to be set at +/- 600'

Lead: 220 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

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

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

Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 7350'

First Stage

Lead: 2040 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

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

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

If losses are severe, a DV tool will be set @ 675' (100' below the surface shoe).

Second Stage

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

Tail: 180 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, ft3/sx, 6.39 gal/sx water)

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

1.88 yields
1.33

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 14340'

Lead: 160 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)

Tail: 1250 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)

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

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2529 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" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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 600'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
600' to 7350'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
7350' to 14340'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer / OBM	9.5 - 9.8	29-32	NC - 20

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

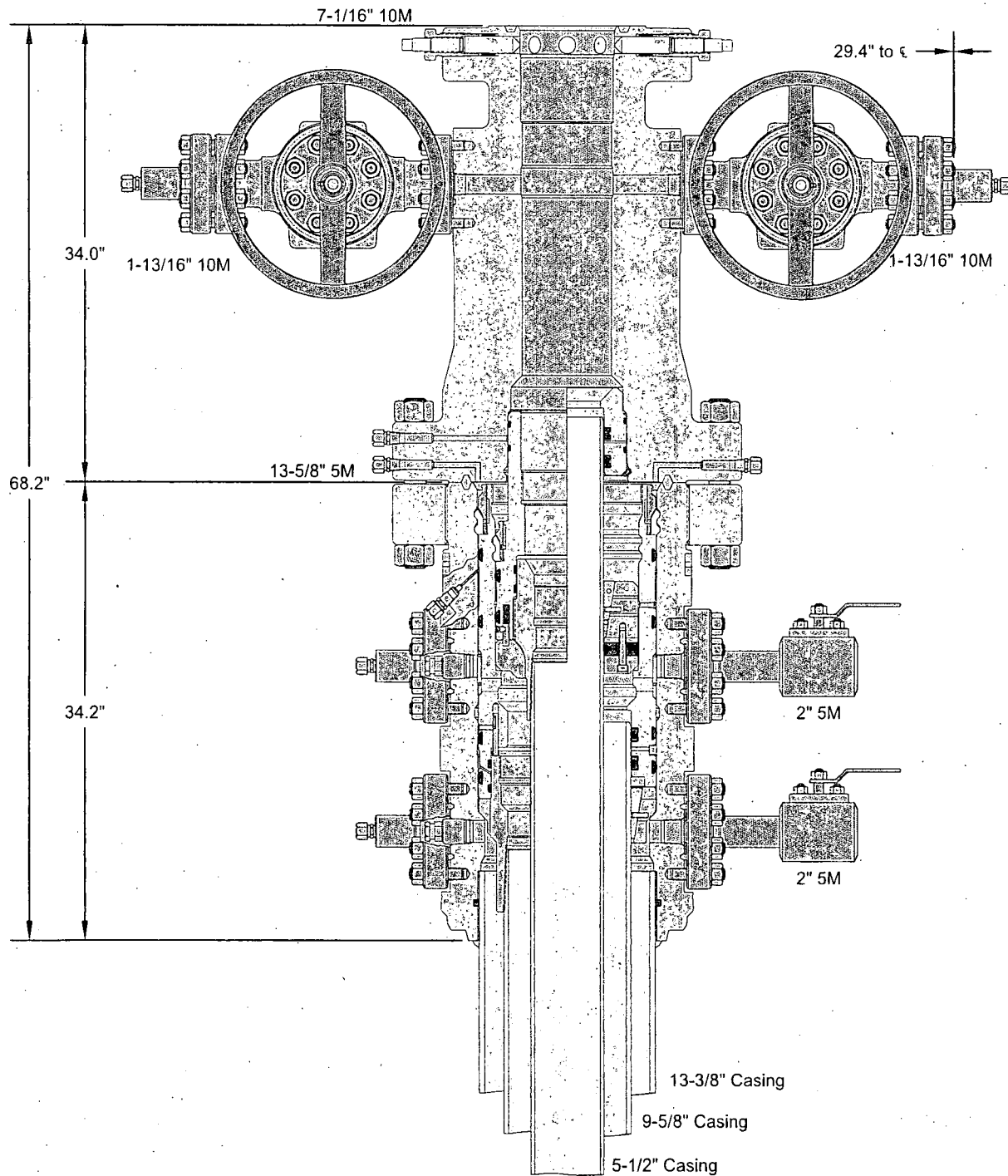
None Anticipated. BHT of 135 to 155 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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 4451 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.



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

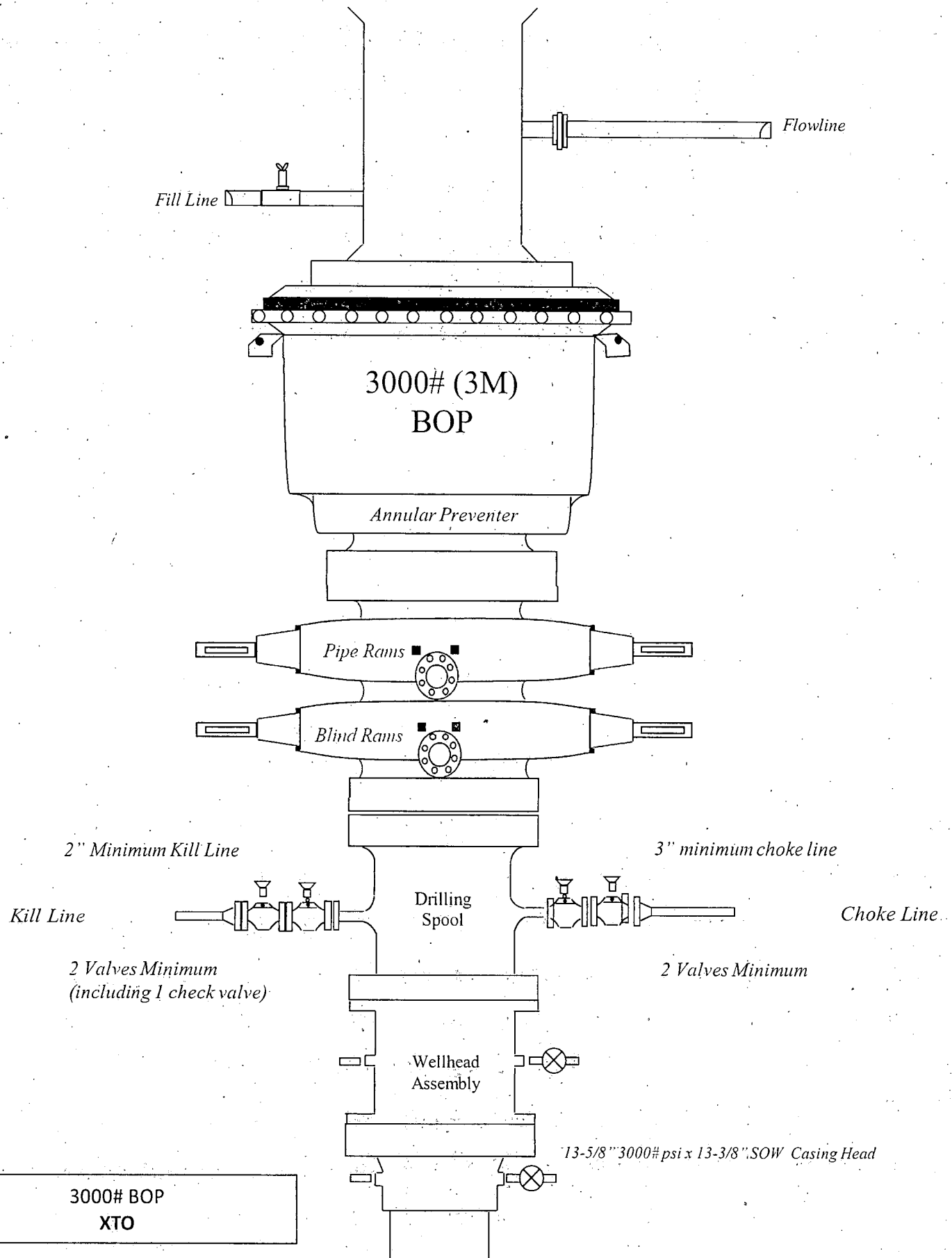
This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

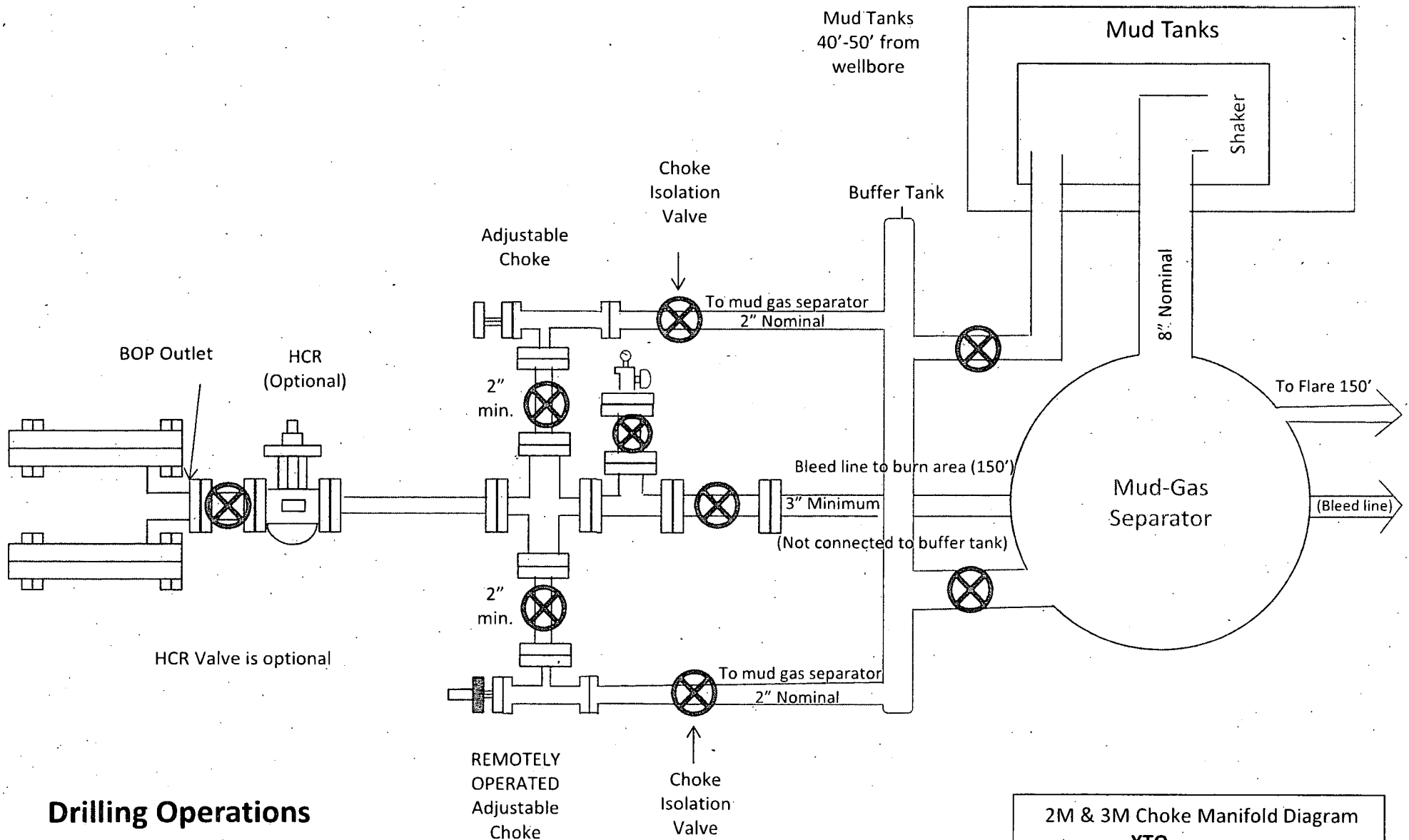
XTO ENERGY, INC.

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

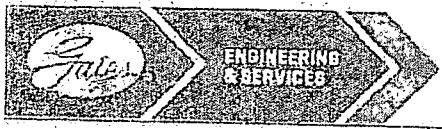
FOR REFERENCE ONLY
DRAWING NO. 10012842





Drilling Operations **Choke Manifold** **2M & 3M Service**

2M & 3M Choke Manifold Diagram
 XTO



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

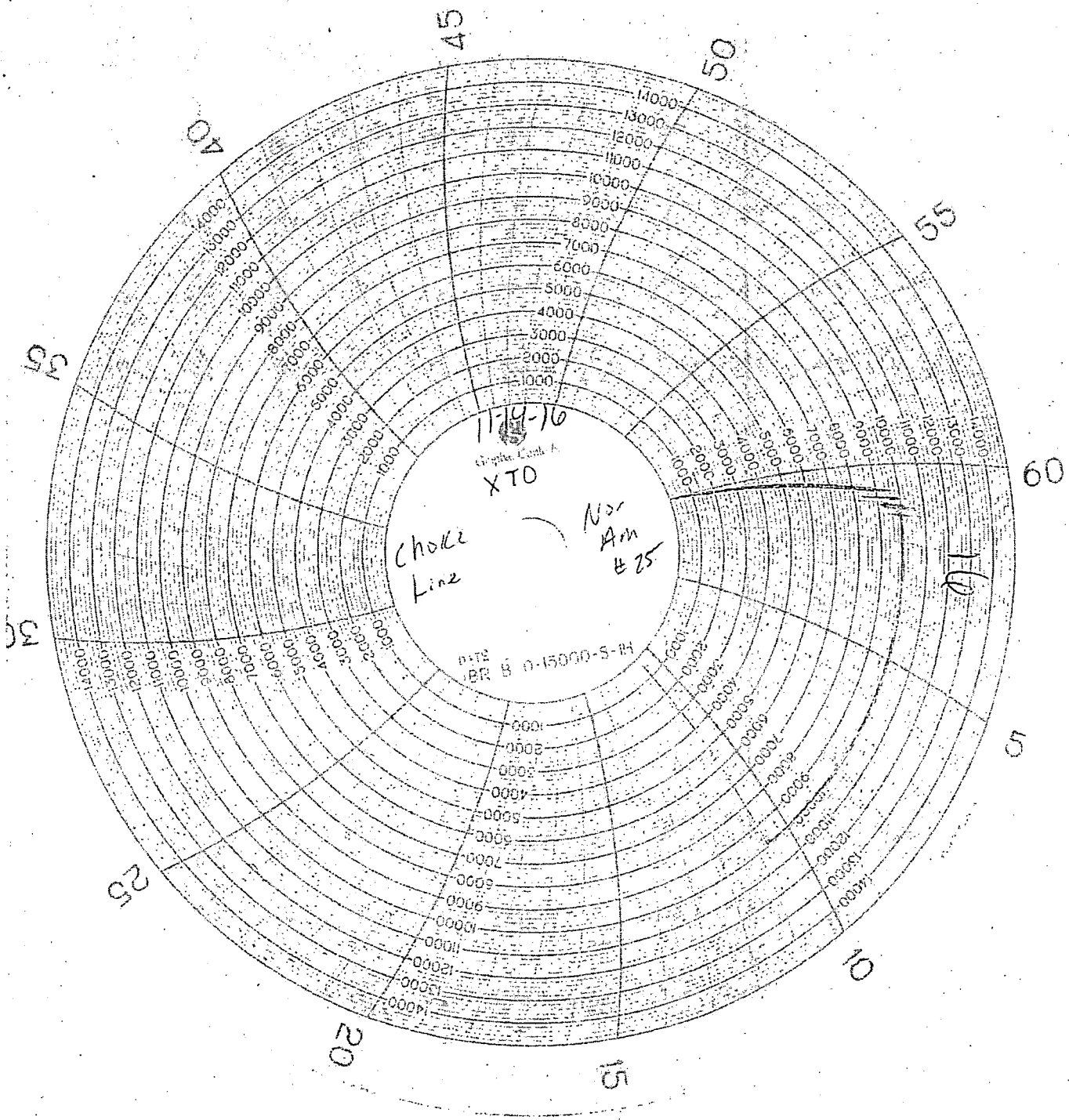
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

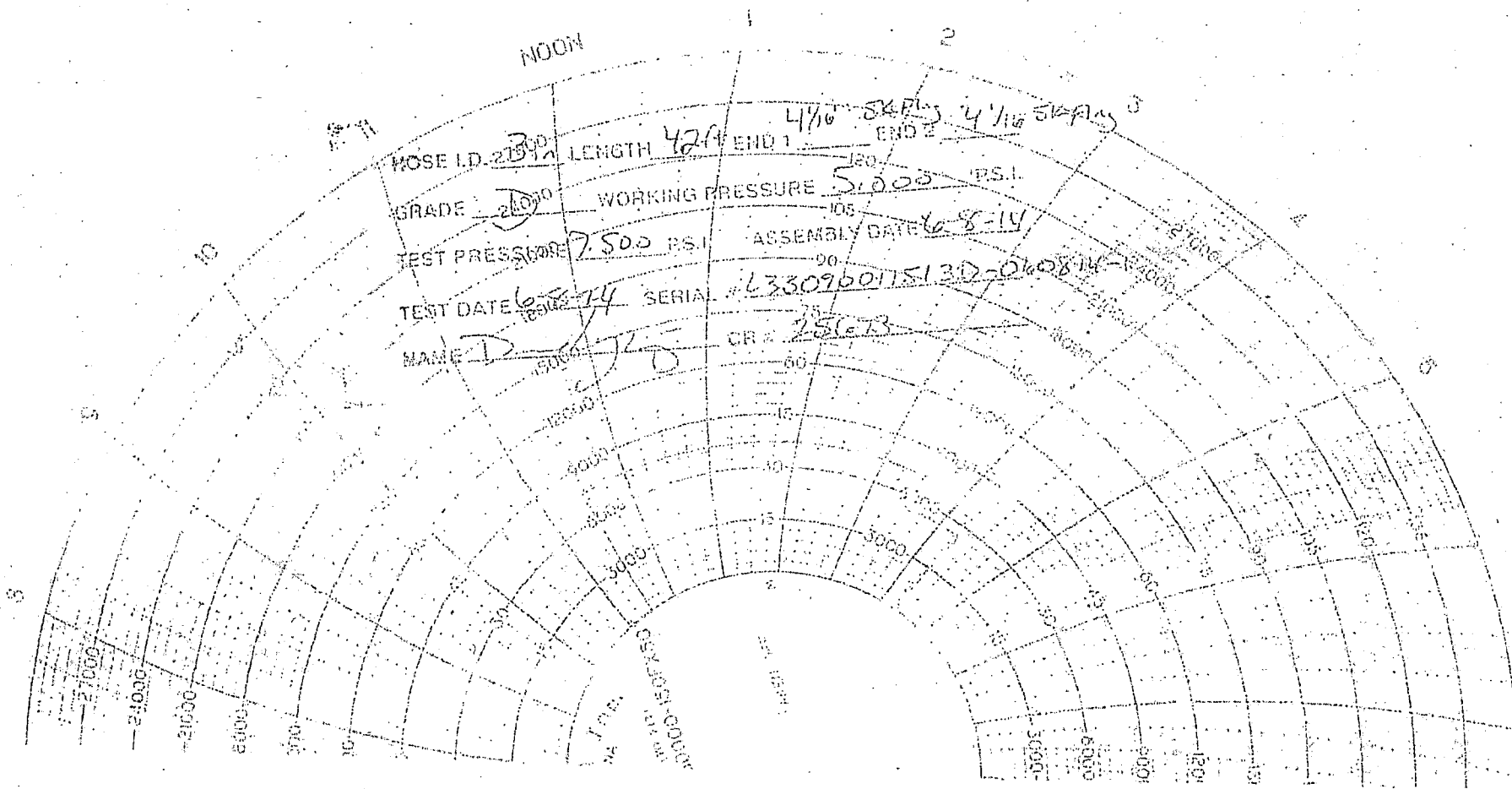
GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORHA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	1/16 in. 5K FLG	End Fitting 2 :	1/16 in. 5K FLG
Gains 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 :	





**5D Plan Report****XTO Energy**

Field Name: *XTO NAD 27 NME*
Site Name: *Corral Canyon 3 Fed 9H*
Well Name: *Corral Canyon 3 Fed 9H*
File number: *13948664*
Plan: *P1:V1 (Current plan)*

28 August 2019



**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.9.1.0

Report Date: August 28, 2019
Job Number: 13948664
Customer: XTO Energy Inc.
Well Name: Corral Canyon 3 Fed 9H
API Number: _____
Rig Name: Ensign 451 (25' KB)
Location: Eddy Co, NM (Nad 27 NME)
Block: _____
Engineer: RWJ

NAD27 / New Mexico East	NAD27
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1927	Datum: North American Datum 1927
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
EPSG: 32012	EPSG: 4267
North: 419297.30 US Survey Foot	Latitude: 32.152272 Degree
East: 609317.00 US Survey Foot	Longitude: -103.980108 Degree
Convergence: 0.19°	
Declination: 6.98°	
Total Correction: 6.79°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 usft
Latitude = 32° 09' 08.18" N
Longitude = 103° 58' 48.39" W

Magnetic Declination = 6.98 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6839
Local Field Strength = 47687 nT	Magnetic Vector X = 23792 nT
Magnetic Dip = 59.82 deg	Magnetic Vector Y = 2912 nT
Magnetic Model = bggm2018.bgs	Magnetic Vector Z = 41225 nT
Run Date = September 10, 2019	Magnetic Vector H = 23970 nT

Signed: _____ Date: _____

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Warning: This information is controlled, and any printed version is deemed as uncontrolled unless suitably endorsed by a controlling authority or accompanied by a controlled table of contents in order to ensure adequate revision control.

5D Plan Report

Casing Points: (Relative to Slot centre) (TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
650.00	0.00	0.00	650.00	-2373.00	-0.00	-0.00	419297.30	609317.00	13 3/8 in
7559.72	4.62	140.28	7500.00	4477.00	-684.65	568.88	418612.65	609885.88	9 5/8 in

Wellpath created using minimum curvature.

Salient Points: (Relative to Slot centre) (TVD relative to Drill Floor)												
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-3023.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	
650.00	0.00	0.00	650.00	-2373.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	13 3/8 in
750.00	0.00	0.00	750.00	-2273.00	0.00	-0.00	-0.00	0.00	0.00	0.00	0.00	Nudge
1140.56	7.81	140.28	1139.35	-1883.65	-20.55	-20.44	16.99	2.00	0.00	140.28	2.00	Hold
7240.24	7.81	140.28	7182.43	4159.43	-661.48	-658.06	546.78	0.00	0.00	0.00	0.00	Drop
7559.72	4.62	140.28	7500.00	4477.00	-688.22	-684.65	568.88	-1.00	-0.00	180.00	1.00	9 5/8 in
8021.35	0.00	0.00	7961.13	4938.13	-702.59	-698.95	580.76	-1.00	0.00	180.00	1.00	Hold
8221.35	0.00	0.00	8161.13	5138.13	-702.59	-698.95	580.76	0.00	0.00	0.00	0.00	KOP
9131.36	91.00	359.64	8734.00	5711.00	-119.62	-116.00	577.10	10.00	0.00	359.64	10.00	LP/FTP
14339.75	91.00	359.64	8643.10	5620.10	5087.98	5091.50	544.50	-0.00	0.00	113.58	0.00	PBHL 9H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-3023.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
100.00	0.00	0.00	100.00	-2923.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
200.00	0.00	0.00	200.00	-2823.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
300.00	0.00	0.00	300.00	-2723.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
400.00	0.00	0.00	400.00	-2623.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
500.00	0.00	0.00	500.00	-2523.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
600.00	0.00	0.00	600.00	-2423.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
650.00	0.00	0.00	650.00	-2373.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	13 3/8 in
700.00	0.00	0.00	700.00	-2323.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	
750.00	0.00	0.00	750.00	-2273.00	0.00	-0.00	-0.00	419297.30	609317.00	0.00	Nudge
800.00	1.00	140.28	800.00	-2223.00	-0.34	-0.34	0.28	419296.96	609317.28	2.00	
900.00	3.00	140.28	899.93	-2123.07	-3.04	-3.02	2.51	419294.28	609319.51	2.00	
1000.00	5.00	140.28	999.68	-2023.32	-8.43	-8.38	6.97	419288.92	609323.97	2.00	
1100.00	7.00	140.28	1099.13	-1923.87	-16.51	-16.42	13.65	419280.88	609330.65	2.00	
1140.56	7.81	140.28	1139.35	-1883.65	-20.55	-20.44	16.99	419276.86	609333.99	2.00	Hold
1200.00	7.81	140.28	1198.24	-1824.76	-26.80	-26.66	22.15	419270.64	609339.15	0.00	
1300.00	7.81	140.28	1297.31	-1725.69	-37.30	-37.11	30.84	419260.19	609347.84	0.00	
1400.00	7.81	140.28	1396.38	-1626.62	-47.81	-47.56	39.52	419249.74	609356.52	0.00	
1500.00	7.81	140.28	1495.46	-1527.54	-58.32	-58.02	48.21	419239.28	609365.21	0.00	
1600.00	7.81	140.28	1594.53	-1428.47	-68.83	-68.47	56.89	419228.83	609373.89	0.00	
1700.00	7.81	140.28	1693.60	-1329.40	-79.34	-78.92	65.58	419218.38	609382.58	0.00	
1800.00	7.81	140.28	1792.67	-1230.33	-89.84	-89.38	74.26	419207.92	609391.26	0.00	
1900.00	7.81	140.28	1891.74	-1131.26	-100.35	-99.83	82.95	419197.47	609399.95	0.00	
2000.00	7.81	140.28	1990.82	-1032.18	-110.86	-110.28	91.64	419187.02	609408.64	0.00	
2100.00	7.81	140.28	2089.89	-933.11	-121.37	-120.74	100.32	419176.56	609417.32	0.00	
2200.00	7.81	140.28	2188.96	-834.04	-131.87	-131.19	109.01	419166.11	609426.01	0.00	
2300.00	7.81	140.28	2288.03	-734.97	-142.38	-141.64	117.69	419155.66	609434.69	0.00	
2400.00	7.81	140.28	2387.11	-635.89	-152.89	-152.10	126.38	419145.20	609443.38	0.00	
2500.00	7.81	140.28	2486.18	-536.82	-163.40	-162.55	135.06	419134.75	609452.06	0.00	
2600.00	7.81	140.28	2585.25	-437.75	-173.90	-173.00	143.75	419124.30	609460.75	0.00	
2700.00	7.81	140.28	2684.32	-338.68	-184.41	-183.46	152.44	419113.84	609469.44	0.00	
2800.00	7.81	140.28	2783.39	-239.61	-194.92	-193.91	161.12	419103.39	609478.12	0.00	
2900.00	7.81	140.28	2882.47	-140.53	-205.43	-204.36	169.81	419092.94	609486.81	0.00	
3000.00	7.81	140.28	2981.54	-41.46	-215.93	-214.82	178.49	419082.48	609495.49	0.00	
3100.00	7.81	140.28	3080.61	57.61	-226.44	-225.27	187.18	419072.03	609504.18	0.00	
3200.00	7.81	140.28	3179.68	156.68	-236.95	-235.72	195.86	419061.58	609512.86	0.00	
3300.00	7.81	140.28	3278.75	255.75	-247.46	-246.18	204.55	419051.12	609521.55	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre) (TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
3400.00	7.81	140.28	3377.83	354.83	-257.96	-256.63	213.23	419040.67	609530.23	0.00	
3500.00	7.81	140.28	3476.90	453.90	-268.47	-267.08	221.92	419030.22	609538.92	0.00	
3600.00	7.81	140.28	3575.97	552.97	-278.98	-277.54	230.61	419019.76	609547.61	0.00	
3700.00	7.81	140.28	3675.04	652.04	-289.49	-287.99	239.29	419009.31	609556.29	0.00	
3800.00	7.81	140.28	3774.12	751.12	-300.00	-298.44	247.98	418998.86	609564.98	0.00	
3900.00	7.81	140.28	3873.19	850.19	-310.50	-308.90	256.66	418988.40	609573.66	0.00	
4000.00	7.81	140.28	3972.26	949.26	-321.01	-319.35	265.35	418977.95	609582.35	0.00	
4100.00	7.81	140.28	4071.33	1048.33	-331.52	-329.80	274.03	418967.50	609591.03	0.00	
4200.00	7.81	140.28	4170.40	1147.40	-342.03	-340.26	282.72	418957.04	609599.72	0.00	
4300.00	7.81	140.28	4269.48	1246.48	-352.53	-350.71	291.41	418946.59	609608.41	0.00	
4400.00	7.81	140.28	4368.55	1345.55	-363.04	-361.16	300.09	418936.14	609617.09	0.00	
4500.00	7.81	140.28	4467.62	1444.62	-373.55	-371.62	308.78	418925.68	609625.78	0.00	
4600.00	7.81	140.28	4566.69	1543.69	-384.06	-382.07	317.46	418915.23	609634.46	0.00	
4700.00	7.81	140.28	4665.76	1642.76	-394.56	-392.52	326.15	418904.78	609643.15	0.00	
4800.00	7.81	140.28	4764.84	1741.84	-405.07	-402.98	334.83	418894.32	609651.83	0.00	
4900.00	7.81	140.28	4863.91	1840.91	-415.58	-413.43	343.52	418883.87	609660.52	0.00	
5000.00	7.81	140.28	4962.98	1939.98	-426.09	-423.88	352.21	418873.42	609669.21	0.00	
5100.00	7.81	140.28	5062.05	2039.05	-436.59	-434.34	360.89	418862.96	609677.89	0.00	
5200.00	7.81	140.28	5161.13	2138.13	-447.10	-444.79	369.58	418852.51	609686.58	0.00	
5300.00	7.81	140.28	5260.20	2237.20	-457.61	-455.24	378.26	418842.06	609695.26	0.00	
5400.00	7.81	140.28	5359.27	2336.27	-468.12	-465.70	386.95	418831.60	609703.95	0.00	
5500.00	7.81	140.28	5458.34	2435.34	-478.63	-476.15	395.63	418821.15	609712.63	0.00	
5600.00	7.81	140.28	5557.41	2534.41	-489.13	-486.60	404.32	418810.70	609721.32	0.00	
5700.00	7.81	140.28	5656.49	2633.49	-499.64	-497.06	413.01	418800.24	609730.01	0.00	
5800.00	7.81	140.28	5755.56	2732.56	-510.15	-507.51	421.69	418789.79	609738.69	0.00	
5900.00	7.81	140.28	5854.63	2831.63	-520.66	-517.96	430.38	418779.34	609747.38	0.00	
6000.00	7.81	140.28	5953.70	2930.70	-531.16	-528.42	439.06	418768.88	609756.06	0.00	
6100.00	7.81	140.28	6052.77	3029.77	-541.67	-538.87	447.75	418758.43	609764.75	0.00	
6200.00	7.81	140.28	6151.85	3128.85	-552.18	-549.32	456.43	418747.98	609773.43	0.00	
6300.00	7.81	140.28	6250.92	3227.92	-562.69	-559.78	465.12	418737.52	609782.12	0.00	
6400.00	7.81	140.28	6349.99	3326.99	-573.19	-570.23	473.80	418727.07	609790.80	0.00	
6500.00	7.81	140.28	6449.06	3426.06	-583.70	-580.68	482.49	418716.62	609799.49	0.00	
6600.00	7.81	140.28	6548.14	3525.14	-594.21	-591.13	491.18	418706.17	609808.18	0.00	
6700.00	7.81	140.28	6647.21	3624.21	-604.72	-601.59	499.86	418695.71	609816.86	0.00	
6800.00	7.81	140.28	6746.28	3723.28	-615.22	-612.04	508.55	418685.26	609825.55	0.00	
6900.00	7.81	140.28	6845.35	3822.35	-625.73	-622.49	517.23	418674.81	609834.23	0.00	
7000.00	7.81	140.28	6944.42	3921.42	-636.24	-632.95	525.92	418664.35	609842.92	0.00	
7100.00	7.81	140.28	7043.50	4020.50	-646.75	-643.40	534.60	418653.90	609851.60	0.00	
7200.00	7.81	140.28	7142.57	4119.57	-657.26	-653.85	543.29	418643.45	609860.29	0.00	
7240.24	7.81	140.28	7182.43	4159.43	-661.48	-658.06	546.78	418639.24	609863.78	0.00	Drop
7300.00	7.21	140.28	7241.68	4218.68	-667.52	-664.07	551.78	418633.23	609868.78	1.00	
7400.00	6.21	140.28	7340.99	4317.99	-676.56	-673.06	559.25	418624.24	609876.25	1.00	
7500.00	5.21	140.28	7440.50	4417.50	-684.26	-680.72	565.61	418616.58	609882.61	1.00	
7559.72	4.62	140.28	7500.00	4477.00	-688.22	-684.65	568.88	418612.65	609885.88	1.00	9 5/8 in
7600.00	4.21	140.28	7540.16	4517.16	-690.61	-687.04	570.86	418610.26	609887.86	1.00	
7700.00	3.21	140.28	7639.95	4616.95	-695.62	-692.02	575.00	418605.28	609892.00	1.00	
7800.00	2.21	140.28	7739.83	4716.83	-699.28	-695.66	578.03	418601.64	609895.03	1.00	
7900.00	1.21	140.28	7839.79	4816.79	-701.59	-697.96	579.94	418599.34	609896.94	1.00	
8000.00	0.21	140.28	7939.78	4916.78	-702.55	-698.92	580.73	418598.38	609897.73	1.00	
8021.35	0.00	0.00	7961.13	4938.13	-702.59	-698.95	580.76	418598.35	609897.76	1.00	Hold
8100.00	0.00	0.00	8039.78	5016.78	-702.59	-698.95	580.76	418598.35	609897.76	0.00	
8200.00	0.00	0.00	8139.78	5116.78	-702.59	-698.95	580.76	418598.35	609897.76	0.00	
8221.35	0.00	0.00	8161.13	5138.13	-702.59	-698.95	580.76	418598.35	609897.76	0.00	KOP
8300.00	7.86	359.64	8239.53	5216.53	-697.20	-693.56	580.73	418603.74	609897.73	10.00	
8400.00	17.86	359.64	8336.90	5313.90	-674.96	-671.32	580.59	418625.98	609897.59	10.00	
8500.00	27.86	359.64	8428.92	5405.92	-636.15	-632.52	580.34	418664.78	609897.34	10.00	
8600.00	37.86	359.64	8512.81	5489.81	-581.96	-578.32	580.00	418718.98	609897.00	10.00	
8700.00	47.86	359.64	8586.01	5563.01	-514.02	-510.38	579.58	418786.92	609896.58	10.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
8800.00	57.86	359.64	8646.31	5623.31	-434.39	-430.76	579.08	418866.54	609896.08	10.00	
8900.00	67.86	359.64	8691.86	5668.86	-345.51	-341.89	578.52	418955.41	609895.52	10.00	
9000.00	77.86	359.64	8721.28	5698.28	-250.07	-246.45	577.92	419050.85	609894.92	10.00	
9100.00	87.86	359.64	8733.69	5710.69	-150.97	-147.35	577.30	419149.95	609894.30	10.00	
9131.36	91.00	359.64	8734.00	5711.00	-119.62	-116.00	577.10	419181.30	609894.10	10.00	LP/FTP
9200.00	91.00	359.64	8732.80	5709.80	-50.99	-47.37	576.67	419249.93	609893.67	0.00	
9300.00	91.00	359.64	8731.06	5708.06	48.99	52.61	576.04	419349.91	609893.04	0.00	
9400.00	91.00	359.64	8729.31	5706.31	148.98	152.60	575.41	419449.90	609892.41	0.00	
9500.00	91.00	359.64	8727.56	5704.56	248.96	252.58	574.79	419549.88	609891.79	0.00	
9600.00	91.00	359.64	8725.82	5702.82	348.95	352.56	574.16	419649.86	609891.16	0.00	
9700.00	91.00	359.64	8724.07	5701.07	448.93	452.55	573.53	419749.85	609890.53	0.00	
9800.00	91.00	359.64	8722.33	5699.33	548.92	552.53	572.90	419849.83	609889.90	0.00	
9900.00	91.00	359.64	8720.58	5697.58	648.90	652.51	572.28	419949.81	609889.28	0.00	
10000.00	91.00	359.64	8718.83	5695.83	748.89	752.49	571.65	420049.79	609888.65	0.00	
10100.00	91.00	359.64	8717.09	5694.09	848.87	852.48	571.02	420149.78	609888.02	0.00	
10200.00	91.00	359.64	8715.34	5692.34	948.86	952.46	570.40	420249.76	609887.40	0.00	
10300.00	91.00	359.64	8713.60	5690.60	1048.84	1052.44	569.77	420349.74	609886.77	0.00	
10400.00	91.00	359.64	8711.85	5688.85	1148.83	1152.43	569.14	420449.73	609886.14	0.00	
10500.00	91.00	359.64	8710.11	5687.11	1248.81	1252.41	568.52	420549.71	609885.52	0.00	
10600.00	91.00	359.64	8708.36	5685.36	1348.80	1352.39	567.89	420649.69	609884.89	0.00	
10700.00	91.00	359.64	8706.61	5683.61	1448.78	1452.37	567.26	420749.67	609884.26	0.00	
10800.00	91.00	359.64	8704.87	5681.87	1548.77	1552.36	566.64	420849.66	609883.64	0.00	
10900.00	91.00	359.64	8703.12	5680.12	1648.75	1652.34	566.01	420949.64	609883.01	0.00	
11000.00	91.00	359.64	8701.38	5678.38	1748.73	1752.32	565.38	421049.62	609882.38	0.00	
11100.00	91.00	359.64	8699.63	5676.63	1848.72	1852.30	564.76	421149.60	609881.76	0.00	
11200.00	91.00	359.64	8697.89	5674.89	1948.70	1952.29	564.13	421249.59	609881.13	0.00	
11300.00	91.00	359.64	8696.14	5673.14	2048.69	2052.27	563.50	421349.57	609880.50	0.00	
11400.00	91.00	359.64	8694.40	5671.40	2148.67	2152.25	562.88	421449.55	609879.88	0.00	
11500.00	91.00	359.64	8692.65	5669.65	2248.66	2252.24	562.25	421549.54	609879.25	0.00	
11600.00	91.00	359.64	8690.91	5667.91	2348.64	2352.22	561.62	421649.52	609878.62	0.00	
11700.00	91.00	359.64	8689.16	5666.16	2448.63	2452.20	561.00	421749.50	609878.00	0.00	
11800.00	91.00	359.64	8687.41	5664.41	2548.61	2552.18	560.37	421849.48	609877.37	0.00	
11900.00	91.00	359.64	8685.67	5662.67	2648.60	2652.17	559.75	421949.47	609876.75	0.00	
12000.00	91.00	359.64	8683.92	5660.92	2748.58	2752.15	559.12	422049.45	609876.12	0.00	
12100.00	91.00	359.64	8682.18	5659.18	2848.57	2852.13	558.50	422149.43	609875.50	0.00	
12200.00	91.00	359.64	8680.43	5657.43	2948.55	2952.12	557.87	422249.42	609874.87	0.00	
12300.00	91.00	359.64	8678.69	5655.69	3048.54	3052.10	557.24	422349.40	609874.24	0.00	
12400.00	91.00	359.64	8676.94	5653.94	3148.52	3152.08	556.62	422449.38	609873.62	0.00	
12500.00	91.00	359.64	8675.20	5652.20	3248.51	3252.06	555.99	422549.36	609872.99	0.00	
12600.00	91.00	359.64	8673.45	5650.45	3348.49	3352.05	555.37	422649.35	609872.37	0.00	
12700.00	91.00	359.64	8671.71	5648.71	3448.48	3452.03	554.74	422749.33	609871.74	0.00	
12800.00	91.00	359.64	8669.96	5646.96	3548.46	3552.01	554.12	422849.31	609871.12	0.00	
12900.00	91.00	359.64	8668.22	5645.22	3648.45	3652.00	553.49	422949.30	609870.49	0.00	
13000.00	91.00	359.64	8666.47	5643.47	3748.43	3751.98	552.87	423049.28	609869.87	0.00	
13100.00	91.00	359.64	8664.73	5641.73	3848.42	3851.96	552.24	423149.26	609869.24	0.00	
13200.00	91.00	359.64	8662.98	5639.98	3948.40	3951.94	551.62	423249.24	609868.62	0.00	
13300.00	91.00	359.64	8661.24	5638.24	4048.38	4051.93	550.99	423349.23	609867.99	0.00	
13400.00	91.00	359.64	8659.49	5636.49	4148.37	4151.91	550.37	423449.21	609867.37	0.00	
13500.00	91.00	359.64	8657.75	5634.75	4248.35	4251.89	549.74	423549.19	609866.74	0.00	
13600.00	91.00	359.64	8656.01	5633.01	4348.34	4351.88	549.12	423649.18	609866.12	0.00	
13700.00	91.00	359.64	8654.26	5631.26	4448.32	4451.86	548.49	423749.16	609865.49	0.00	
13800.00	91.00	359.64	8652.52	5629.52	4548.31	4551.84	547.87	423849.14	609864.87	0.00	
13900.00	91.00	359.64	8650.77	5627.77	4648.29	4651.82	547.25	423949.12	609864.25	0.00	
14000.00	91.00	359.64	8649.03	5626.03	4748.28	4751.81	546.62	424049.11	609863.62	0.00	
14100.00	91.00	359.64	8647.28	5624.28	4848.26	4851.79	546.00	424149.09	609863.00	0.00	
14200.00	91.00	359.64	8645.54	5622.54	4948.25	4951.77	545.37	424249.07	609862.37	0.00	
14300.00	91.00	359.64	8643.79	5620.79	5048.23	5051.75	544.75	424349.05	609861.75	0.00	
14339.75	91.00	359.64	8643.10	5620.10	5087.98	5091.50	544.50	424388.80	609861.50	0.00	PBHL 9H

5D Plan Report

Formation Points (Relative to Slot centre) (TVD relative to Drill Floor)										
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
3rd Bone Spring Lime	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Rustler	374.00	0.00	0.00	374.00	-2649.00	-0.00	-0.00	419297.30	609317.00	
Top Salt	752.00	0.04	140.28	752.00	-2271.00	-0.00	0.00	419297.30	609317.00	
Base Salt	2846.03	7.81	140.28	2829.00	-194.00	-198.72	165.12	419098.58	609482.12	
Delaware	3054.97	7.81	140.28	3036.00	13.00	-220.56	183.27	419076.74	609500.27	
Cherry Canyon	3926.05	7.81	140.28	3899.00	876.00	-311.62	258.93	418985.68	609575.93	
Brushy Canyon	5578.39	7.81	140.28	5536.00	2513.00	-484.34	402.44	418812.96	609719.44	
Basal Brushy Canyon	6604.91	7.81	140.28	6553.00	3530.00	-591.65	491.60	418705.65	609808.60	
Bone Spring	6845.14	7.81	140.28	6791.00	3768.00	-616.76	512.47	418680.54	609829.47	
Bone Spring Lime	6884.50	7.81	140.28	6830.00	3807.00	-620.87	515.89	418676.43	609832.89	
Avalon Shale	7032.88	7.81	140.28	6977.00	3954.00	-636.39	528.77	418660.91	609845.77	
Avalon Lime	7361.77	6.60	140.28	7303.00	4280.00	-669.78	556.52	418627.52	609873.52	
1st Bone Spring Ss	7791.16	2.30	140.28	7731.00	4708.00	-695.39	577.81	418601.91	609894.81	
2nd Bone Spring Lm	8090.22	0.00	0.00	8030.00	5007.00	-698.95	580.76	418598.35	609897.76	
2nd Bone Spring Sand	8591.42	37.01	359.64	8506.00	5483.00	-583.54	580.04	418713.76	609897.04	
2nd Bone Spring Sand B	8808.93	58.76	359.64	8651.00	5628.00	-423.16	579.03	418874.14	609896.03	



Corral Canyon 3 Fed 9H Eddy Co, NM

Plan Data for Corral Canyon 3 Fed 9H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft									
Position offsets from Slot centre									
MD	Inc	Az	TVD Elevation	+N/-S	+E/-W	Northing	Easting	VSec	DLS Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	3023.00	-0.00	-0.00	419297.30	609317.00	0.00
750.00	0.00	0.00	750.00	2273.00	-0.00	-0.00	419297.30	609317.00	0.00
1140.56	7.81	140.28	1139.35	1883.65	-20.44	16.99	419276.86	609333.99	-20.55
7240.24	7.81	140.28	7182.43	-4159.43	-650.06	546.78	418639.24	609863.78	-661.48
8021.35	0.00	0.00	7961.13	-4938.13	-698.95	580.76	418598.35	609897.76	-702.59
8221.35	0.00	0.00	8161.13	-5138.13	-698.95	580.76	418598.35	609897.76	-702.59
9131.36	91.00	359.64	8734.00	-5711.00	-116.00	577.10	419181.30	609894.10	-119.62
14339.75	91.00	359.64	8643.10	-5620.10	-5091.50	544.50	424388.80	609861.50	5087.98

Plan Data for Corral Canyon 3 Fed 9H

Target Set Information:									
Name: Corral Canyon 3 Fed 9H									
Position offsets from Slot centre									
Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting	(USft)	(USft)	(USft)	(USft)
S Tgt	8161.13	-5138.13	-698.95	580.76	418598.35	609897.76			
FTP	8734.00	-5711.00	-116.00	577.10	419181.30	609894.10			
LTP	8643.97	-5620.97	5041.50	544.80	424338.80	609861.80			
PBHL 9H	8643.10	-5620.10	5091.50	544.50	424388.80	609861.50			

Plan Data for Corral Canyon 3 Fed 9H

Casing Point Information:									
Position offsets from Slot centre									
Name	MD	TVD Elevation	+N/-S	+E/-W	Northing	Easting	(USft)	(USft)	(USft)
13 3/8 in	650.00	650.00	2373.00	-0.00	-0.00	419297.30	609317.00		
9 5/8 in	7559.72	7500.00	-4477.00	-684.65	568.88	418612.65	609885.88		

Formation Point Information:

Name	TVD Elevation	MD	(USft)	(USft)	(USft)
3rd Bone Spring Lime	8828.00	-5805.00	-1.00		
Rustler	374.00	2649.00	374.00		
Top Salt	752.00	2271.00	752.00		
Base Salt	2829.00	194.00	2846.03		
Delaware	3036.00	-13.00	3054.97		
Cherry Canyon	3899.00	-876.00	3926.05		
Brushy Canyon	5536.00	-2513.00	5578.39		
Basal Brushy Canyon	6553.00	-3530.00	6604.91		
Bone Spring Lime	6791.00	-3768.00	6845.14		
Bone Spring Lime	6830.00	-3807.00	6884.50		
Avalon Shale	6977.00	-3954.00	7032.88		
Avalon Lime	7303.00	-4280.00	7361.77		
1st Bone Spring Ss	7731.00	-4708.00	7791.16		
2nd Bone Spring Lm	8030.00	-5007.00	8090.22		
2nd Bone Spring Sand	8506.00	-5483.00	8591.42		
2nd Bone Spring Sand	8651.00	-5628.00	8888.93		

Plan Data for Corral Canyon 3 Fed 9H

Field: XTO NAD 27 NME
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD27 / New Mexico East

Site: Corral Canyon 3 Fed 9H

Unit: USFt TVD Reference:

Company Name: XTO Energy

Position: Northing: 419297.30USFt Latitude: 32.152272°
Easting: 609317.00USFt Longitude: -103.980108°
North Reference: Grid Grid Convergence: 0.19°
Elevation Above VRD: 2998.00USFt

Slot: Corral Canyon 3 Fed 9H

Position:

Offset is from Site centre

+N/-S: 0.00USFt Northing: 419297.30USFt Latitude: 32.152272°
+E/-W: 0.00USFt Easting: 609317.00USFt Longitude: -103.980108°
Elevation Above VRD: 2998.00USFt

Well: Corral Canyon 3 Fed 9H

Type: Main-Well

File Number: 13948664

Plan Folder: P1

Plan: P1:V1

Vertical Section: Position offset of origin from Slot centre:

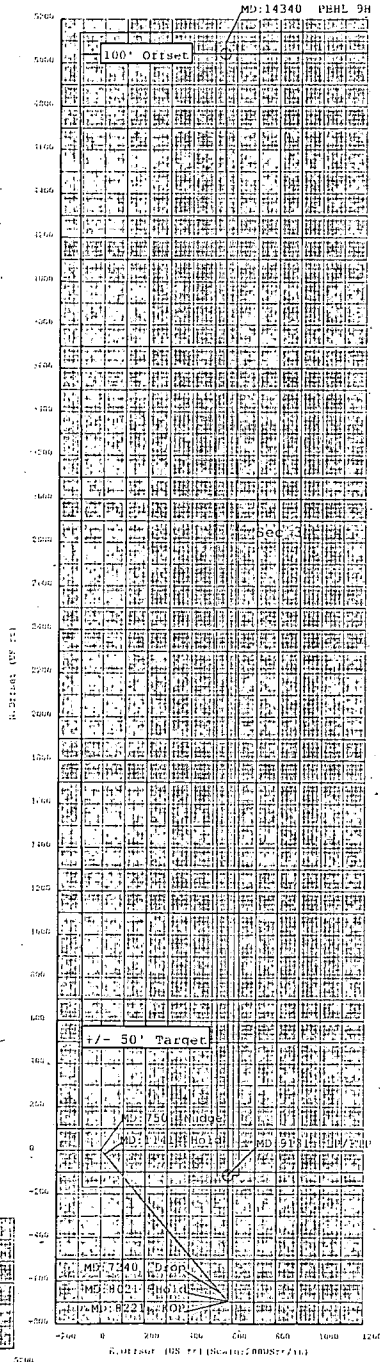
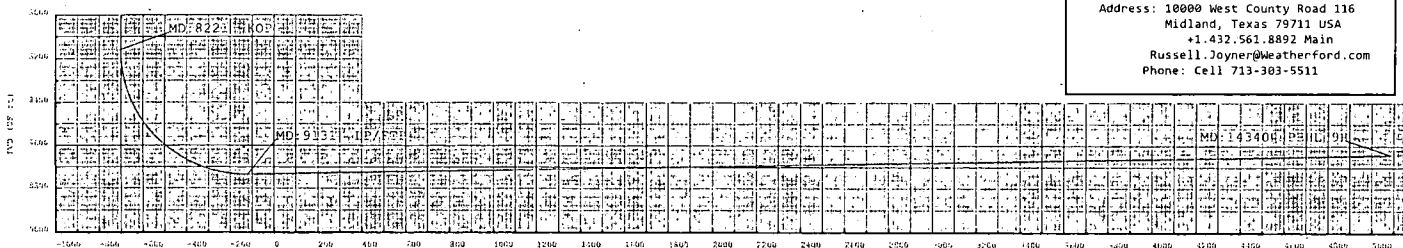
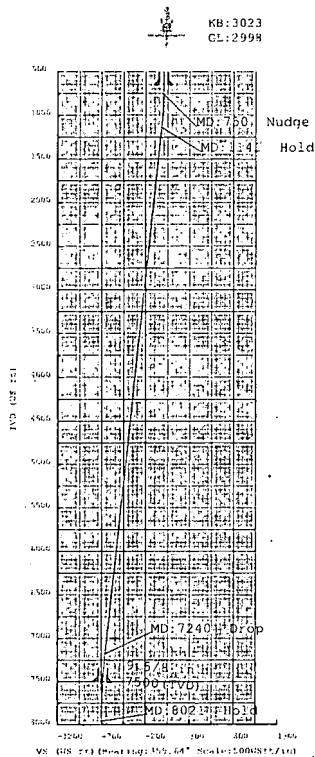
+N/-S: -0.00USFt Azimuth: 359.64°

+E/-W: -0.00USFt

Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:
bggm2018 47665(nT) 6.98° 59.83° 2019-09-10

Drawing By: RWJ Date: 28 August 2019
Office Name: Weatherford - Drilling Services
Address: 10000 West County Road 116
Midland, Texas 79711 USA
+1.432.561.8892 Main
Russell.Joyner@Weatherford.com
Phone: Cell 713-303-5511



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Inc.
LEASE NO.:	NMNM-15302
WELL NAME & NO.:	Corral Canyon 3 Fed 9H
SURFACE HOLE FOOTAGE:	0170' FSL & 0084' FWL
BOTTOM HOLE FOOTAGE:	0050' FNL & 0660' FWL
LOCATION:	Section 03, T. 25 S., R 29 E., NMPM
COUNTY:	Eddy County, New Mexico

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.**