U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

08/13/2025

Well Name: POKER LAKE UNIT 28 BS

Well Location: T25S / R31E / SEC 28 / SWNE / 32.102208 / -103.781027

County or Parish/State: EDDY / NM

Well Number: 905H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC063136A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016AU, NMNM71016X

US Well Number: 3001545509

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2867498

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/08/2025

Time Sundry Submitted: 09:24

Date proposed operation will begin: 08/08/2025

Procedure Description: Effective Date: 7/1/19 XTO Permian Operating LLC respectfully requests to make the following changes for well record clean up for updated C-102 on new required form with previous approved BLM sundry id# 468257. No new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_28_BS_905H_C_102_ORIGINAL_FINAL_05_14_2019_UPDATED_AMENDED_7_21_2025_20250808092404.pdf

Well Name: POKER LAKE UNIT 28 BS

Well Location: T25S / R31E / SEC 28 / SWNE / 32.102208 / -103.781027

County or Parish/State: EDDY / NM

Well Number: 905H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC063136A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016AU, NMNM71016X

US Well Number: 3001545509

Operator: XTO PERMIAN OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LACEY GRANILLO

Signed on: AUG 12, 2025 02:10 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD

City: MIDLAND **State:** TX

Phone: (432) 894-0057

Email address: LACEY.GRANILLO@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MARIAH HUGHES

BLM POC Title: Land Law Examiner

BLM POC Phone: 5752345972

BLM POC Email Address: mhughes@blm.gov

Disposition: Approved

Disposition Date: 08/12/2025

Signature: Cody Layton Assistant Field Manager

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC063136A

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016AU, NMNM71016X

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT 28 BS/905H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001545509

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 28/T25S/R31E/NMP

11. Country or Parish, State EDDY/NM

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

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

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

Effective Date: 7/1/19

XTO Permian Operating LLC respectfully requests to make the following changes for well record clean up for updated C-102 on new required form with previous approved BLM sundry id# 468257. No new surface disturbance.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* LACEY GRANILLO / Ph: (432) 894-0057

Title Regulatory Analyst

Signature (Electronic Submission)

Date 08/12/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by MARIAH HUGHES / Ph: (575) 234-5972 / Approved

Title Land Law Examiner

Date 08/12/2025

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNE / 2310 FNL / 2010 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.102208 / LONG: -103.781027 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 2286 FNL / 2314 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.092161 / LONG: -103.781047 (TVD: 12620 feet, MD: 15745 feet)

PPP: NWsE / 2286 FSL / 2348 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.100342 / LONG: -103.782026 (TVD: 12620 feet, MD: 13105 feet)

BHL: SWSE / 236 FSL / 2285 FEL / TWSP: 26S / RANGE: 31E / SECTION: 4 / LAT: 32.06541 / LONG: -103.782017 (TVD: 12620 feet, MD: 25810 feet)

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-45509	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
325599	POKER LAKE UNIT 28 BS	905H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,341'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	28	25 S	31 E		2,310' FNL	2,010' FEL	32.102209	-103.781027	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	4	26 S	31 E		200' FSL	2,310' FEL	32.065311	-103.782098	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
800	INFILL	30-015-45484	Y	U

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	28	25 S	31 E		2,310' FNL	2,010' FEL	32.102209	-103.781027	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	28	25 S	31 E		2,310' FSL	2,310' FEL	32.100333	-103.782012	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	4	26 S	31 E		330' FSL	2,310' FEL	32.065668	-103.782097	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,341'

OPERATOR CERTIFICATIONS

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.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.

Lacey Granillo 8/8/25

Signature Date

Lacey Granillo

Printed Name

lacey.granillo@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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.

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	ORIGINALLY 5-14-2019 UPDATED 7-21-2025

Note: 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.

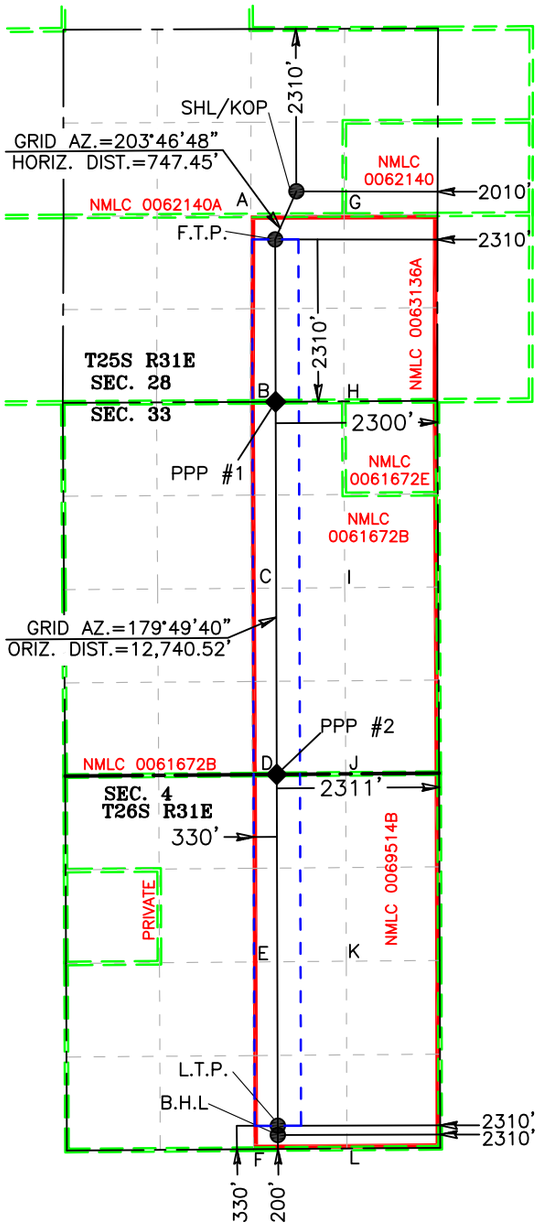
FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street - Columbus, TX 78934
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net

DATE:	7-21-2025	PROJECT NO:	2017070997
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	1

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	401,358.1	N	Y =	400,674.1	N
X =	712,356.8	E	X =	712,055.4	E
LAT. =	32.102209	°N	LAT. =	32.100333	°N
LONG. =	103.781027	°W	LONG. =	103.782012	°W
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	388,063.6	N	Y =	387,933.6	N
X =	712,093.3	E	X =	712,093.7	E
LAT. =	32.065668	°N	LAT. =	32.065311	°N
LONG. =	103.782097	°W	LONG. =	103.782098	°W
SHL/KOP (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	401,300.2	N	Y =	400,616.2	N
X =	671,171.2	E	X =	670,869.8	E
LAT. =	32.102084	°N	LAT. =	32.100208	°N
LONG. =	103.780549	°W	LONG. =	103.781534	°W
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	388,006.0	N	Y =	387,876.0	N
X =	670,907.2	E	X =	670,907.6	E
LAT. =	32.065543	°N	LAT. =	32.065186	°N
LONG. =	103.781621	°W	LONG. =	103.781622	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,364.1	N	Y =	398,306.3	N
X =	712,062.3	E	X =	670,876.5	E
LAT. =	32.093983	°N	LAT. =	32.093858	°N
LONG. =	103.782028	°W	LONG. =	103.781550	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	393,062.7	N	Y =	393,005.0	N
X =	712,078.3	E	X =	670,892.3	E
LAT. =	32.079410	°N	LAT. =	32.079285	°N
LONG. =	103.782064	°W	LONG. =	103.781587	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	401,014.4	N	A - X =	711,707.2	E
B - Y =	398,362.0	N	B - X =	711,700.3	E
C - Y =	395,711.7	N	C - X =	711,714.8	E
D - Y =	393,060.0	N	D - X =	711,729.2	E
E - Y =	390,394.6	N	E - X =	711,738.3	E
F - Y =	387,731.0	N	F - X =	711,747.4	E
G - Y =	401,020.7	N	G - X =	713,036.5	E
H - Y =	398,369.9	N	H - X =	713,031.4	E
I - Y =	395,722.1	N	E - X =	713,045.2	E
J - Y =	393,070.2	N	F - X =	713,059.0	E
K - Y =	390,405.5	N	G - X =	713,067.5	E
L - Y =	387,741.0	N	H - X =	713,075.6	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	400,956.5	N	A - X =	670,521.5	E
B - Y =	398,304.2	N	B - X =	670,514.5	E
C - Y =	395,654.0	N	C - X =	670,528.9	E
D - Y =	393,002.3	N	D - X =	670,543.2	E
E - Y =	390,337.0	N	E - X =	670,552.2	E
F - Y =	387,673.5	N	F - X =	670,561.2	E
G - Y =	400,962.8	N	G - X =	671,850.7	E
H - Y =	398,312.1	N	H - X =	671,845.5	E
I - Y =	395,664.4	N	E - X =	671,859.3	E
J - Y =	393,012.5	N	F - X =	671,873.0	E
K - Y =	390,347.9	N	G - X =	671,881.4	E
L - Y =	387,683.5	N	H - X =	671,889.4	E

FSC INC SURVEYORS+ENGINEERS
2205 Walnut Street - Columbus, TX 78934
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net

DATE:	7-21-2025	PROJECT NO:	2017070997
DRAWN BY:	LM	SCALE:	1" = 2,500'
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	1

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMLC063136A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000303X

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
POKER LAKE UNIT 28 BS 905H

2. Name of Operator
XTO PERMIAN OPERATING LLC
Contact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.
30-015-45509-00-X1

3a. Address
6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)
Ph: 432-620-4374

10. Field and Pool or Exploratory Area
WILDCAT - BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 28 T25S R31E SWNE 2310FNL 2010FEL
32.102207 N Lat, 103.781029 W Lon

11. County or Parish, State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
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☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
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XTO Permian Operating, LLC respectfully requests permission to make the following changes to the original APD:

1. Change formation from Jennings Bone Spring, West (Oil) to Purple Sage; Wolfcamp (Gas).

2. Change casing/cement from a 3-string design to a 4-string design.

Attachments:
C102 & supplement
Drilling Program
Multibowl Diagram/BOP/CK/FH

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

Electronic Submission #468257 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/11/2019 (19PP2361SE)

Name *(Printed/Typed)* KELLY KARDOS — Title REGULATORY COORDINATOR

Signature (Electronic Submission) — Date 06/10/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) — Title — Date 06/14/2019

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

Office Carlsbad

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(Instructions on page 2)

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

Additional data for EC transaction #468257 that would not fit on the form

32. Additional remarks, continued

DD Plan

Revisions to Operator-Submitted EC Data for Sundry Notice #468257

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC063136A	NMLC063136A
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:	JENNINGS BONE SPRING WEST	WILDCAT - BONE SPRING
Well/Facility:	POKER LAKE UNIT 28 BS 905H Sec 28 T25S R31E Mer NMP SWNE 2310FNL 2010FEL	POKER LAKE UNIT 28 BS 905H Sec 28 T25S R31E SWNE 2310FNL 2010FEL 32.102207 N Lat, 103.781029 W Lon

PECOS DISTRICT DRILLING
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**XTO Permian Operating, LLC**
LEASE NO.:	**NMLC-063136A**
WELL NAME & NO.:	**Poker Lake Unit 28 BS 905H**
SURFACE HOLE FOOTAGE:	**2310' FNL & 2010' FEL**
BOTTOM HOLE FOOTAGE	**0200' FSL & 2310' FEL Sec. 04, T. 26 S., R 31 E.**
LOCATION:	**Section 28, T. 25 S., R 31 E., NMPM**
COUNTY:	**Eddy County, New Mexico**

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

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

A. DRILLING OPERATIONS REQUIREMENTS

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

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

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

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please 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.

Medium Cave/Karst
Possibility of water flows in the Salado and Castile.
Possibility of lost circulation in the Red beds, Rustler, and Delaware.
Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

1. The **18-5/8** inch surface casing shall be set at approximately **1090** 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.

13-3/8'' 1st Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing is:

    ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

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 (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.

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:

   ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 23% - Additional cement may be required.**

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 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.

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 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 1st intermediate casing shoe shall be 10,000 (10M) 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.)

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

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.

JAM 061419

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	[2] Pool Code	[3] Pool Name
30-015-45509		

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 28 BS	905H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,341'

[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
G	28	25 S	31 E		2,310	NORTH	2,010	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	26 S	31 E		200	SOUTH	2,310	EAST	EDDY

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 401,300.2
X= 671,171.2
LAT.= 32.102084'N
LONG.= 103.780549'W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 401,358.1
X= 712,356.8
LAT.= 32.102209'N
LONG.= 103.781027'W

FIRST TAKE POINT
NAD 27 NME
Y= 400,616.2
X= 670,869.8
LAT.= 32.100208'N
LONG.= 103.781534'W

FIRST TAKE POINT
NAD 83 NME
Y= 400,674.1
X= 712,055.4
LAT.= 32.100333'N
LONG.= 103.782012'W

CORNER COORDINATES TABLE
NAD 27 NME

A	Y= 400,956.5 N,	X= 670,521.7 E	
B	Y= 400,962.8 N,	X= 671,850.9 E	
C	Y= 398,304.2 N,	X= 670,514.6 E	
D	Y= 398,312.1 N,	X= 671,845.7 E	
E	Y= 395,652.3 N,	X= 670,529.0 E	
F	Y= 395,661.9 N,	X= 671,859.4 E	
G	Y= 393,002.3 N,	X= 670,543.3 E	
H	Y= 393,012.5 N,	X= 671,873.1 E	
I	Y= 390,337.1 N,	X= 670,552.3 E	
J	Y= 390,347.9 N,	X= 671,881.5 E	
K	Y= 387,673.5 N,	X= 670,561.3 E	
L	Y= 387,683.4 N,	X= 671,889.6 E	

CORNER COORDINATES TABLE
NAD 83 NME

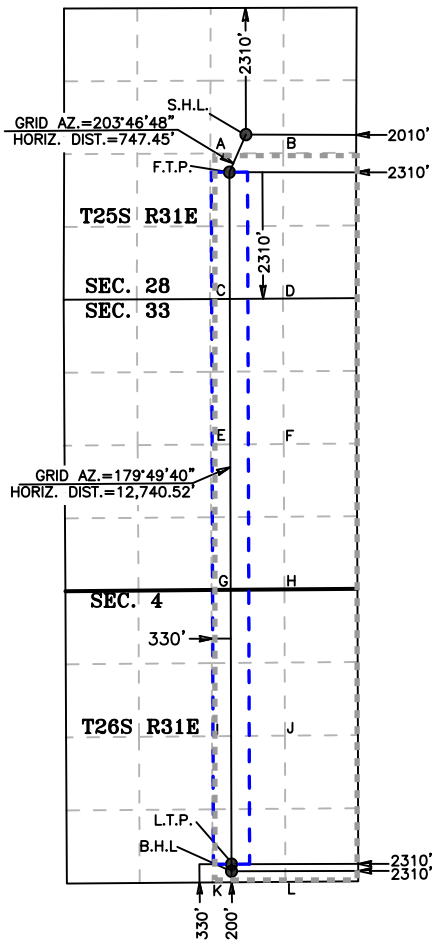
A	Y= 401,014.4 N,	X= 711,707.3 E	
B	Y= 401,020.7 N,	X= 713,036.5 E	
C	Y= 398,362.0 N,	X= 711,700.3 E	
D	Y= 398,369.9 N,	X= 713,031.4 E	
E	Y= 395,710.0 N,	X= 711,714.8 E	
F	Y= 395,719.6 N,	X= 713,045.2 E	
G	Y= 393,060.0 N,	X= 711,729.2 E	
H	Y= 393,070.2 N,	X= 713,059.0 E	
I	Y= 390,394.7 N,	X= 711,738.3 E	
J	Y= 390,405.5 N,	X= 713,067.5 E	
K	Y= 387,731.1 N,	X= 711,747.4 E	
L	Y= 387,741.0 N,	X= 713,075.8 E	

LAST TAKE POINT
NAD 27 NME
Y= 388,006.0
X= 670,907.2
LAT.= 32.065543'N
LONG.= 103.781621'W

LAST TAKE POINT
NAD 83 NME
Y= 388,063.6
X= 712,093.3
LAT.= 32.065668'N
LONG.= 103.782097'W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 387,876.0
X= 670,907.6
LAT.= 32.065186'N
LONG.= 103.781622'W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 387,933.6
X= 712,093.7
LAT.= 32.065311'N
LONG.= 103.782098'W



[17] OPERATOR CERTIFICATION

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

Kelly Kardos

Signature Date

Printed Name

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.

05-14-2019
Date of Survey

Signatue and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number AW/TM 2017070997

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
Poker Lake Unit 28 BS 905H
Projected TD: 25846' MD / 12650' TVD
SHL: 2310' FNL & 2010' FEL , Section 28, T25S, R31E
BHL: 200' FSL & 2310' FEL , Section 4, T26S, R31E
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	911'	Water
Top of Salt	1274'	Water
Base of Salt	4010'	Water
Delaware	4224'	Water
Bone Spring	8166'	Water/Oil/Gas
Wolfcamp	11529'	Water/Oil/Gas
Wolfcamp A	11687'	Water/Oil/Gas
Wolfcamp E	12660'	Water/Oil/Gas
Target/Land Curve	12650'	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 @ 1090' (184' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 4110' and circulating cement to surface. 9-5/8 inch intermediate casing will be set at 11600' and cemented into the 13-3/8 inch casing shoe. An 8-3/4 inch curve and lateral hole will be drilled to TD, where 5-1/2 inch casing will be set and cemented back up to 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' – 1090'	18-5/8"	87.5	STC	J-55	New	1.76	1.65	7.91
17-1/2"	0' – 4110'	13-3/8"	68	STC	J-55	New	1.17	1.51	2.42
12-1/4"	0' – 11600'	9-5/8"	40	LTC	HCL-80	New	1.06	1.42	1.80
8-3/4"	0' – 25846'	5-1/2"	20	BTC	P-110	New	1.33	1.35	1.82

· XTO requests to not utilize centralizers in the curve and lateral
· 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running.
· 13-3/8" & 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 & Casing will be limited to 70% burst of the casing or 1500 psi, whichver is less

Wellhead:

Temporary Wellhead

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

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom
B. Tubing Head: 13-5/8" 10M bottom flange x 7" 15M 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 BLM Onshore Order 2
· Wellhead manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New J-55, STC casing to be set at +/- 1090'

Lead: 2830 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

1st Intermediate Casing: 13-3/8", 68 New J-55, STC casing to be set at +/- 4110'

Lead: 2830 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

2nd Intermediate Casing: 9-5/8", 40 New HCL-80, LTC casing to be set at +/- 11600'

Lead: 2290 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

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 25846'

Tail: 2930 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) on surface casing/temp. wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1276 psi.

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP. MASP should not exceed 5440 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. When nippling up on the 13-5/8" 10M bradenhead and flange, the BOP test will be limited to 10M psi. Since a multibowl system will be used, subsequent BOP pressure tests will be performed as necessary based on required testing schedule (i.e., at least every 30 days). All BOP tests will include a low pressure test as per BLM regulations. The 10M 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' - 1090'	24"	FW/Native	8.4-8.8	35-40	NC
1090' - 4110'	17-1/2”	Brine	9.8-10.2	30-32	NC
4110' to 11600'	12-1/4”	FW/Cut Brine	8.7-10.0	30-32	NC
11600' to 25846'	8-3/4”	FW / Cut Brine / Polymer	12.2 - 12.5	29-32	NC - 20

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

Spud with fresh water/native mud. Drill out from under 18-5/8” 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 include quad combo.

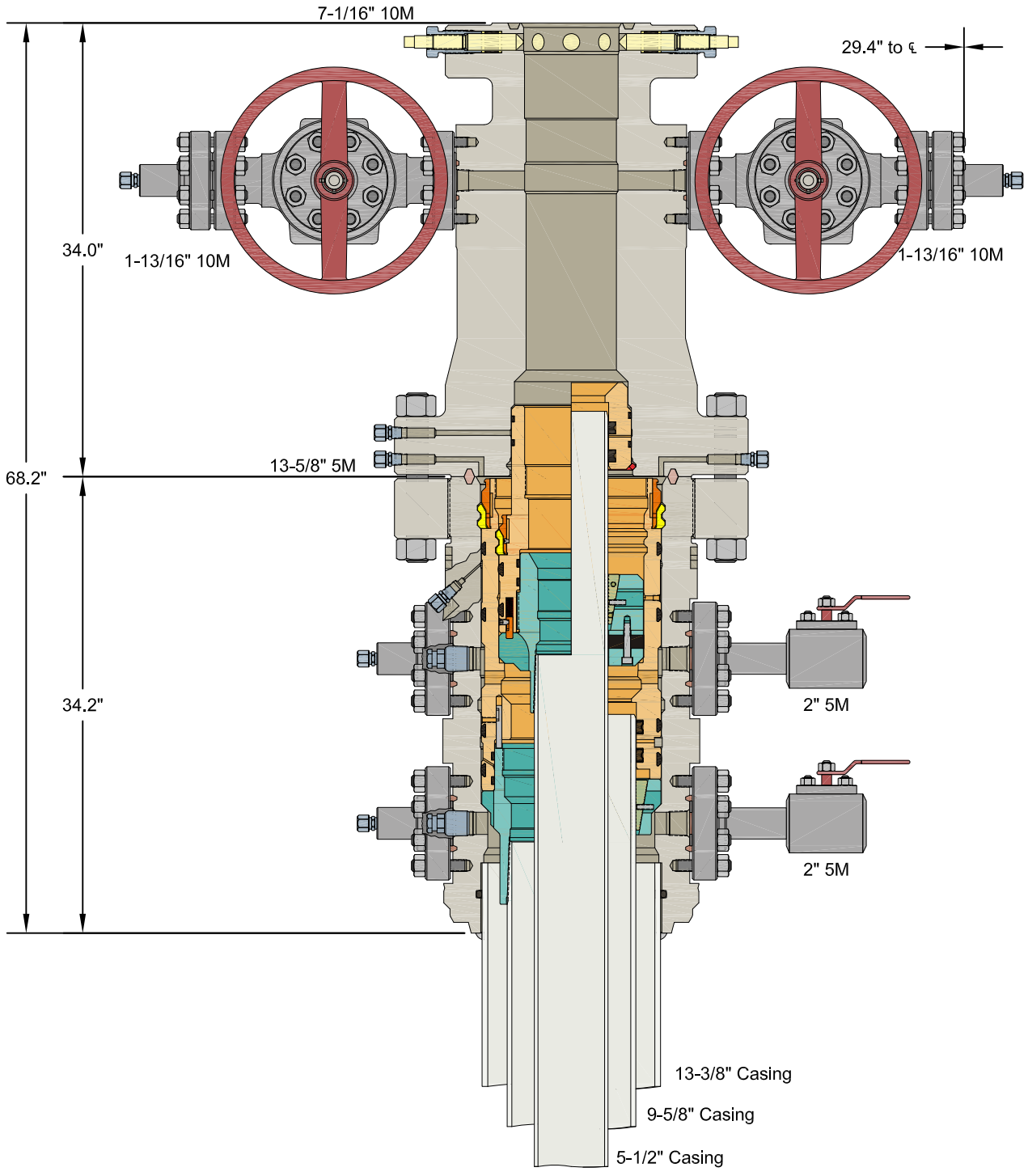
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 8223 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



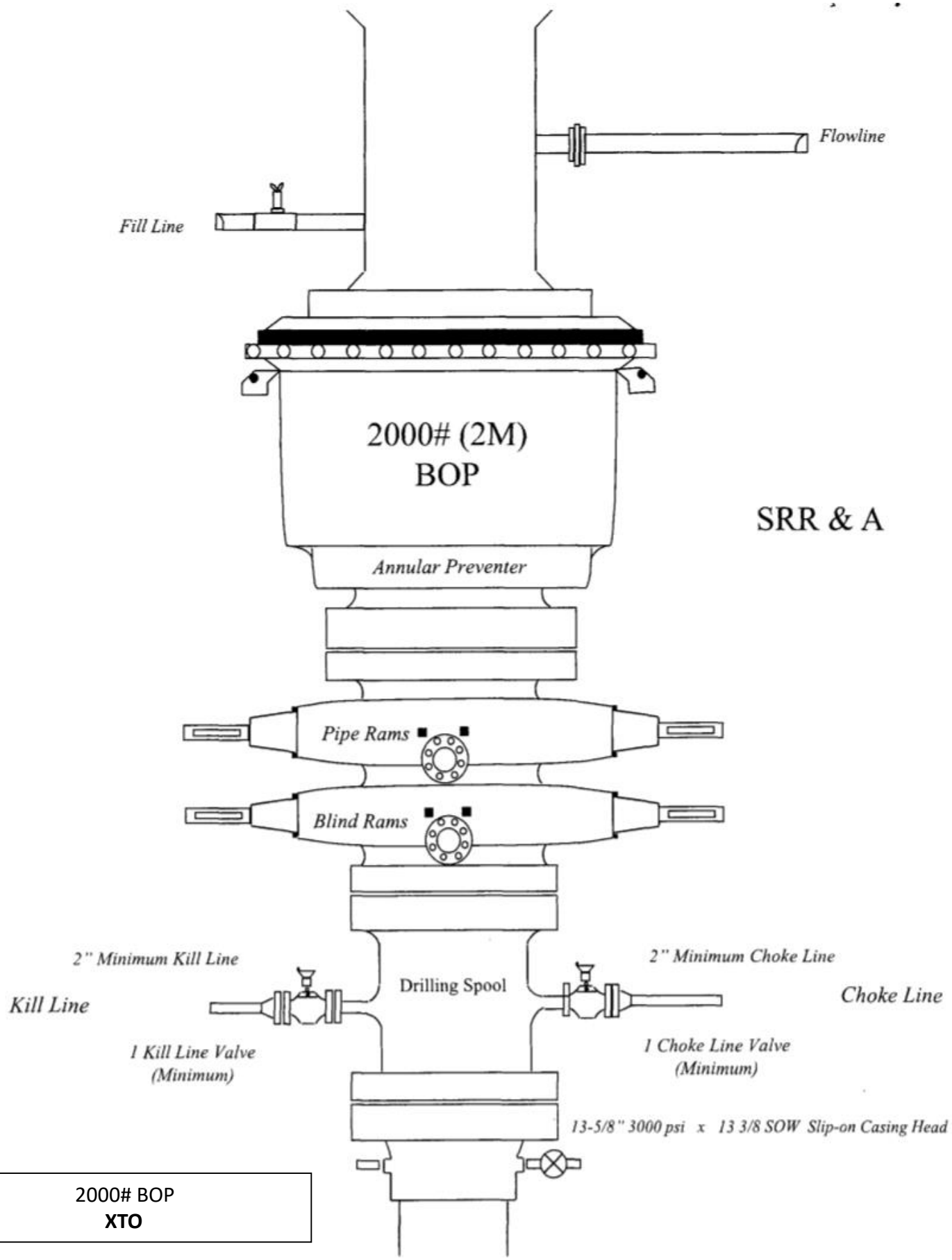
ALL DIMENSIONS ARE APPROXIMATE

XTO ENERGY, INC.

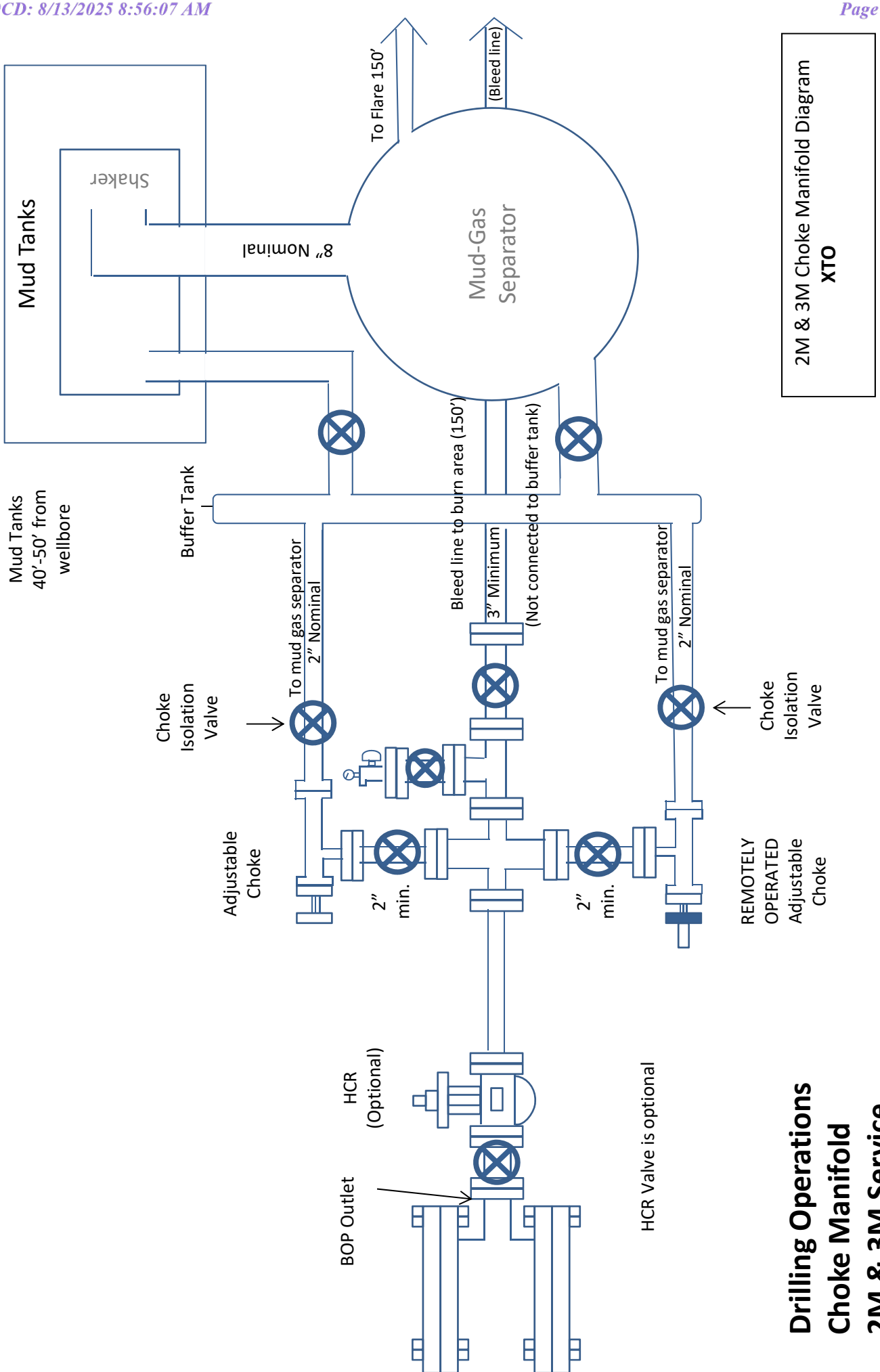
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head

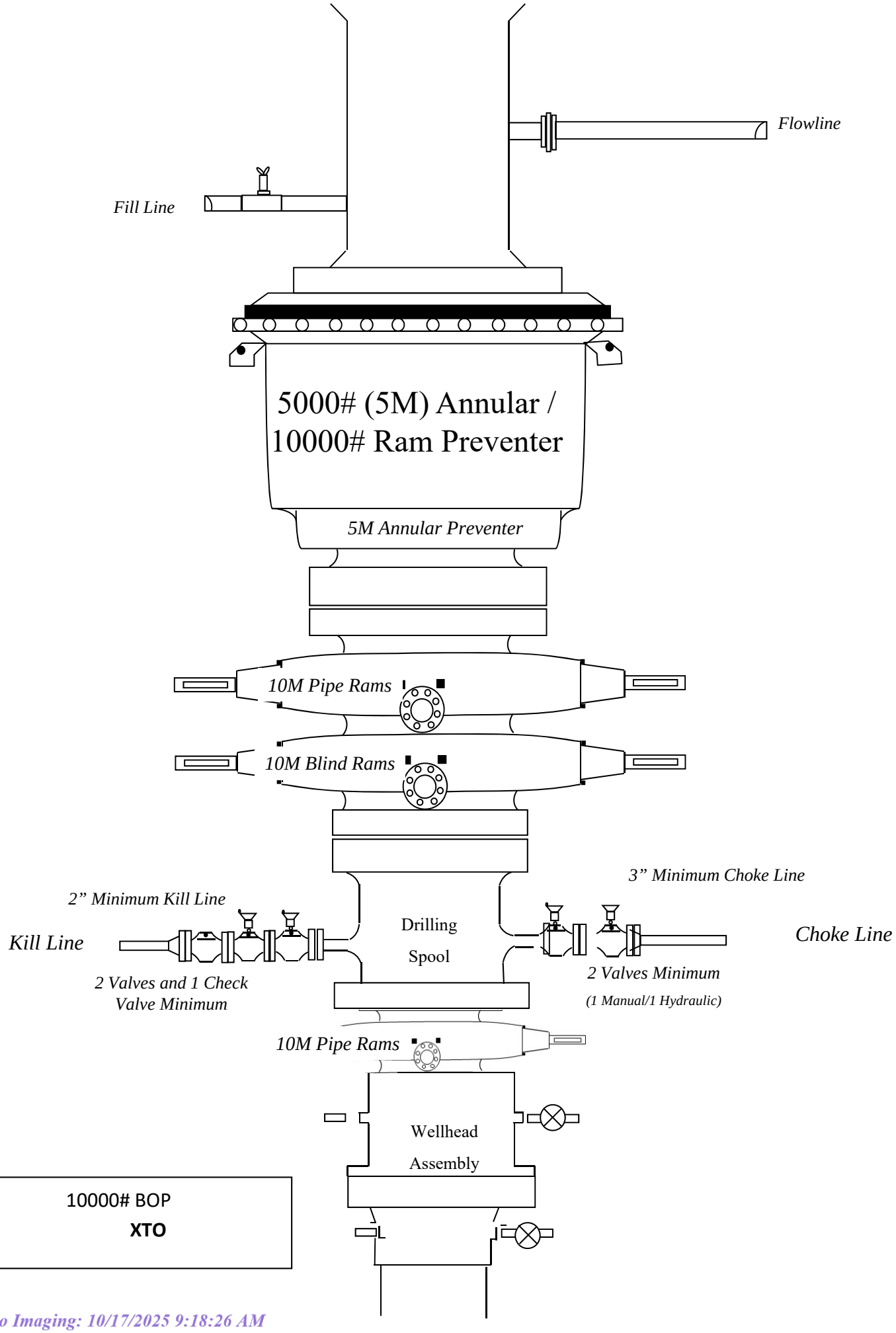
DRAWN	VJK	16FEB17
APPRV	KN	16FEB17

FOR REFERENCE ONLY
DRAWING NO. 10012842


Flowline
Fill Line
2000# (2M)
BOP
SRR & A
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
2" Minimum Choke Line
Drilling Spool
Kill Line
Choke Line
1 Kill Line Valve
(Minimum)
1 Choke Line Valve
(Minimum)
13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

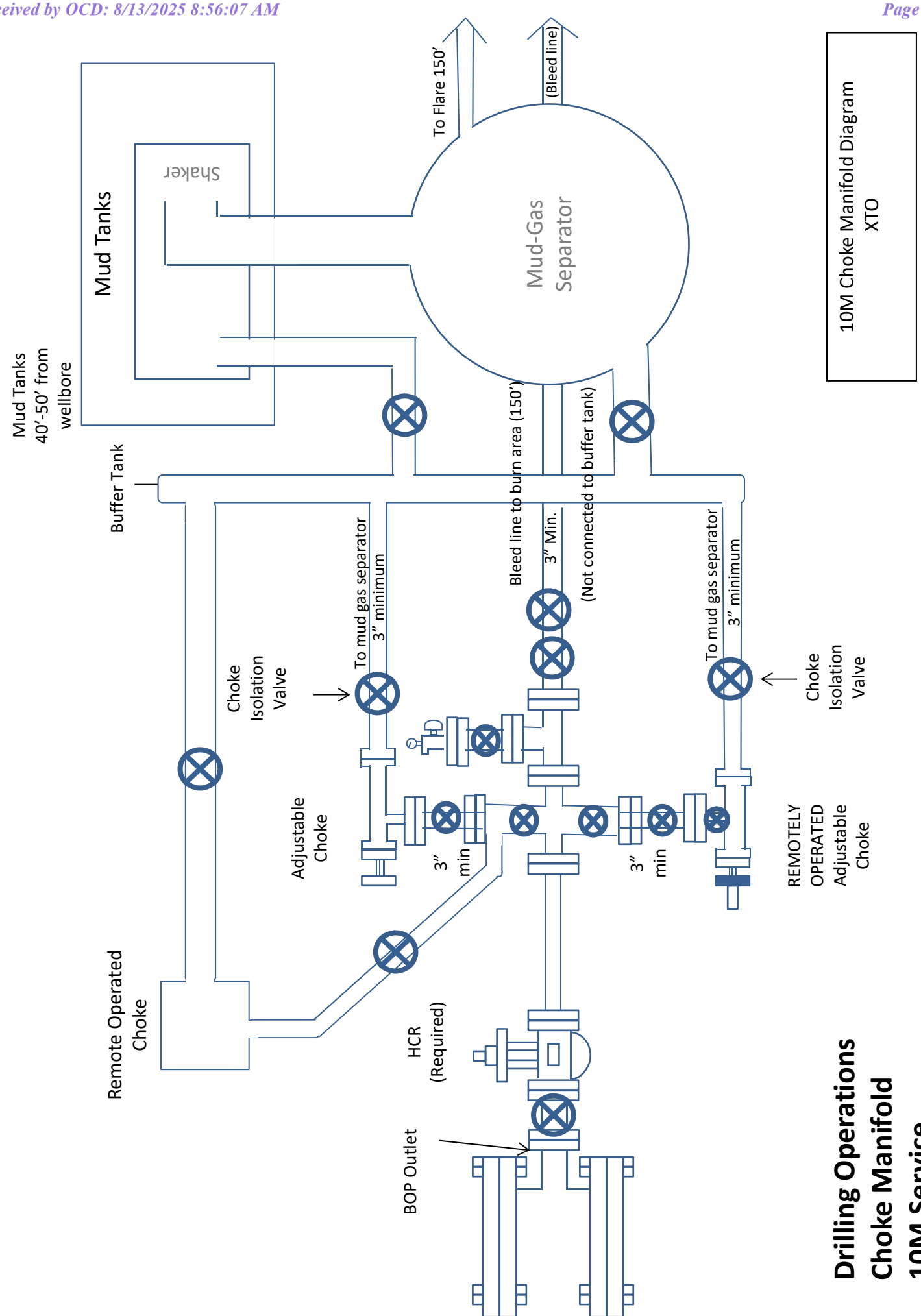
2000# BOP
XTO


Drilling Operations
Choke Manifold
2M & 3M Service
2M & 3M Choke Manifold Diagram
XTO
Mud Tanks
Shaker
8" Nominal
Mud-Gas Separator
To Flare 150'
(Bleed line)
Mud Tanks 40'-50' from wellbore
Buffer Tank
To mud gas separator 2" Nominal
Bleed line to burn area (150')
3" Minimum
(Not connected to buffer tank)
To mud gas separator 2" Nominal
Choke Isolation Valve
Choke Isolation Valve
Adjustable Choke
2" min.
2" min.
REMOTELY OPERATED Adjustable Choke
HCR (Optional)
BOP Outlet
HCR Valve is optional



10000# BOP

XTO


Mud Tanks
40'-50' from wellbore
Mud Tanks
Shaker
Mud-Gas Separator
To Flare 150'
(Bleed line)
Buffer Tank
Bleed line to burn area (150')
3" Min.
(Not connected to buffer tank)
To mud gas separator
3" minimum
To mud gas separator
3" minimum
Choke Isolation Valve
Choke Isolation Valve
Adjustable Choke
3" min
3" min
REMOTELY OPERATED Adjustable Choke
Remote Operated Choke
HCR (Required)
BOP Outlet
10M Choke Manifold Diagram
XTO
Drilling Operations
Choke Manifold
10M Service

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
    a. Perform flow check. If flowing, continue to (b).
    b. Sound alarm (alert crew)
    c. Stab full-opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper variable bore rams
    e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. Stab crossover and full-opening safety valve and close
    c. Space out drill string with upset just beneath the upper variable bore rams
    d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP & SICP

ii. Pit gain
iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
   c. If impossible to pull string clear of the stack:
   d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
   e. Space out drill string with tooljoint just beneath the upper variable bore ram
   f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
   g. Confirm shut-in
   h. Notify toolpusher/company representative
   i. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   j. Regroup and identify forward plan

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

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

GRADE D PRESSURE TEST CERTIFICATE

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

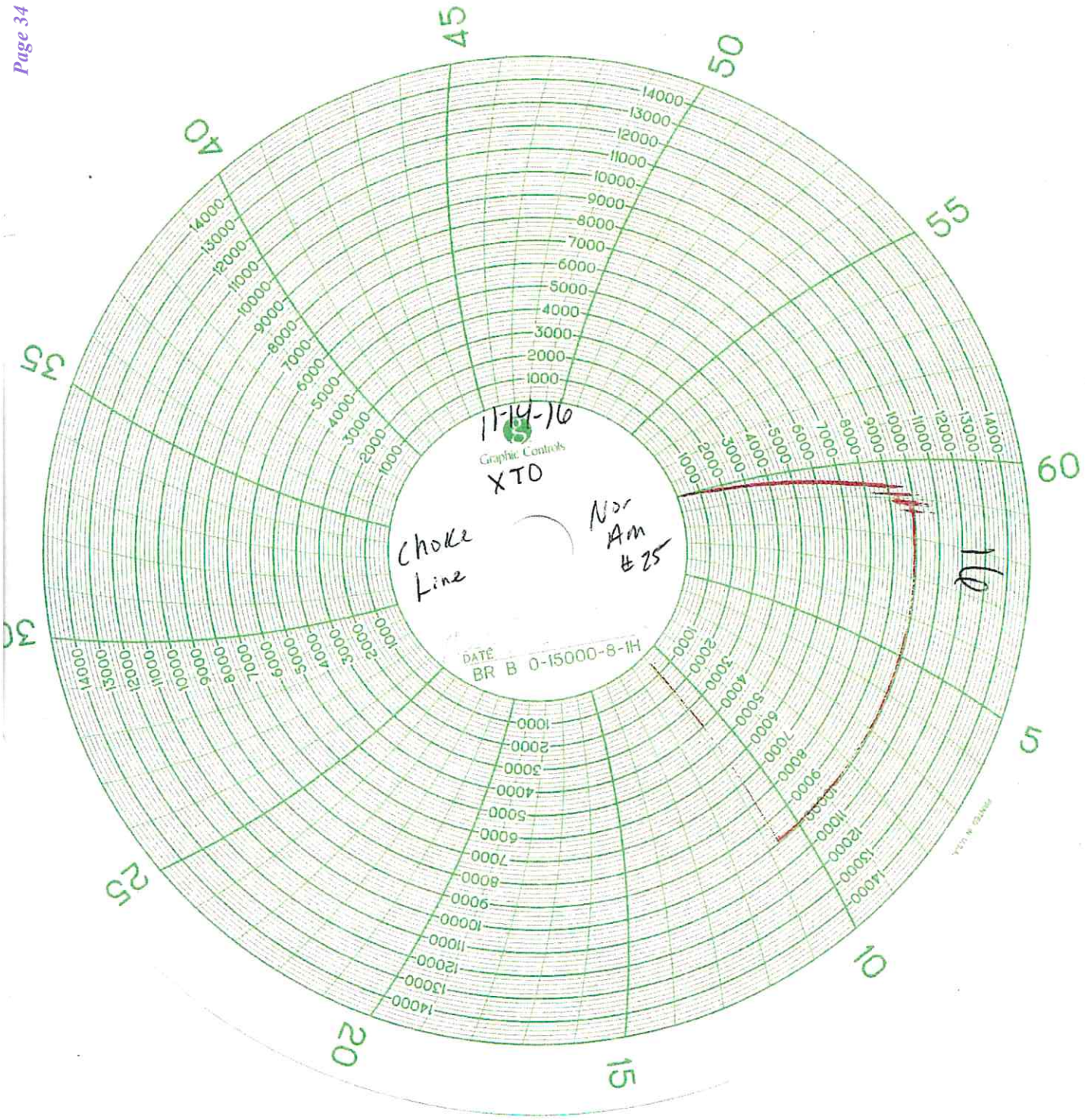
Product Description:	FD3.042.0R41/16.5KFLGE/E LE

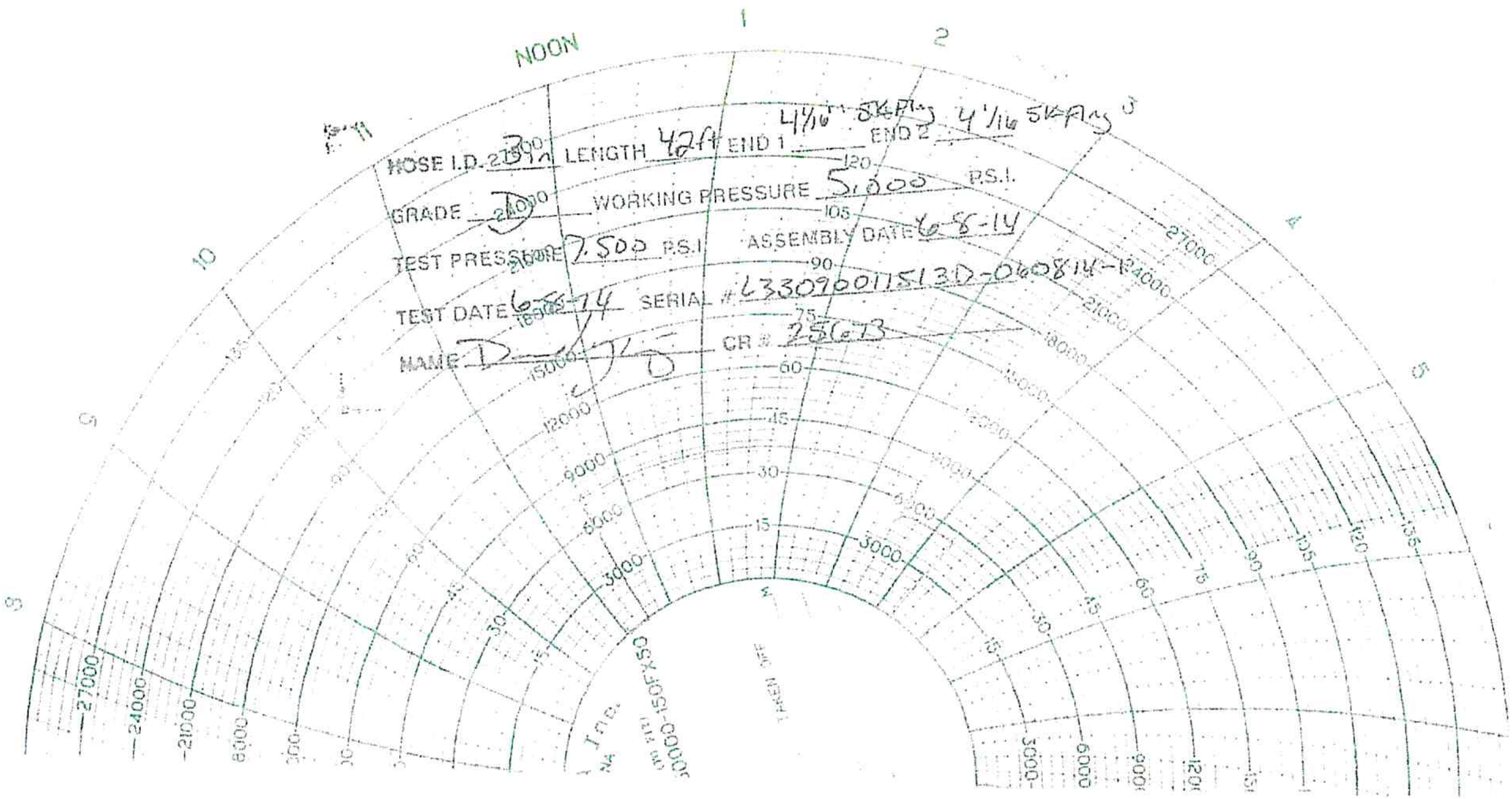
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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

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

Form PTC - 01 Rev.0 2





Schlumberger

XTO Energy PLU 28 BS 905H Rev0 JP 15May19 Proposal Geodetic Report

XTO ENERGY

(Non-Def Plan)

Report Date:	May 16, 2019 - 11:28 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	XTO Energy	**Vertical Section Azimuth:**	179.830 ° (Grid North)
Field:	NM Eddy County (NAD 27)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	XTO Energy PLU 28 BS 905H / New Slot	**TVD Reference Datum:**	RKB
Well:	PLU 28 BS 905H	**TVD Reference Elevation:**	3371.000 ft above MSL
Borehole:	PLU 28 BS 905H	**Seabed / Ground Elevation:**	3341.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.686 °
Survey Name:	XTO Energy PLU 28 BS 905H Rev0 JP 15May19	**Total Gravity Field Strength:**	998.4231mgn (9.80665 Based)
Survey Date:	May 15, 2019	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	102.278 ° / 13761.024 ft / 6.458 / 1.085	**Total Magnetic Field Strength:**	47805.813 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.728 °
Location Lat / Long:	N 32° 6' 7.50252", W 103° 46' 49.97691"	**Declination Date:**	May 15, 2019
Location Grid N/E Y/X:	N 401300.200 ftUS, E 671171.200 ftUS	**Magnetic Declination Model:**	HDGM 2019
CRS Grid Convergence Angle:	0.2938 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99994265	**Grid Convergence Used:**	0.2938 °
Version / Patch:	2.10.760.0	**Total Corr Mag North->Grid North:**	6.3918 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	401300.20	671171.20	N 32 6 7.50	W 103 46 49.98
Nudge 1.5° DLS	4100.00	0.00	276.00	4100.00	0.00	0.00	0.00	0.00	401300.20	671171.20	N 32 6 7.50	W 103 46 49.98
Hold	4499.33	5.99	276.00	4498.61	-2.24	2.18	-20.74	1.50	401302.38	671150.46	N 32 6 7.53	W 103 46 50.22
Drop 1.5° DLS	7014.46	5.99	276.00	7000.00	-30.45	29.62	-281.77	0.00	401329.81	670889.45	N 32 6 7.81	W 103 46 53.25
Hold to KOP	7413.79	0.00	276.00	7398.61	-32.69	31.80	-302.51	1.50	401331.99	670868.71	N 32 6 7.83	W 103 46 53.49
KOP, Build 8° DLS	11980.19	0.00	276.00	11965.00	-32.69	31.80	-302.51	0.00	401331.99	670868.71	N 32 6 7.83	W 103 46 53.49
Landing Point	13108.91	90.30	179.83	12681.19	687.23	-688.12	-300.43	8.00	400612.12	670870.79	N 32 6 0.71	W 103 46 53.51
XTO Energy PLU 28 BS 905H - PBHL	25846.01	90.30	179.83	12615.00	13424.16	-13425.00	-263.62	0.00	387876.00	670907.60	N 32 3 54.67	W 103 46 53.84

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	30.000	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS-Depth Only	PLU 28 BS 905H / XTO Energy PLU 28 BS 905H Rev0 JP 15May19
	1	30.000	25846.009	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS	PLU 28 BS 905H / XTO Energy PLU 28 BS 905H Rev0 JP

Schlumberger

Cactus 118

XTO Energy

Rev0

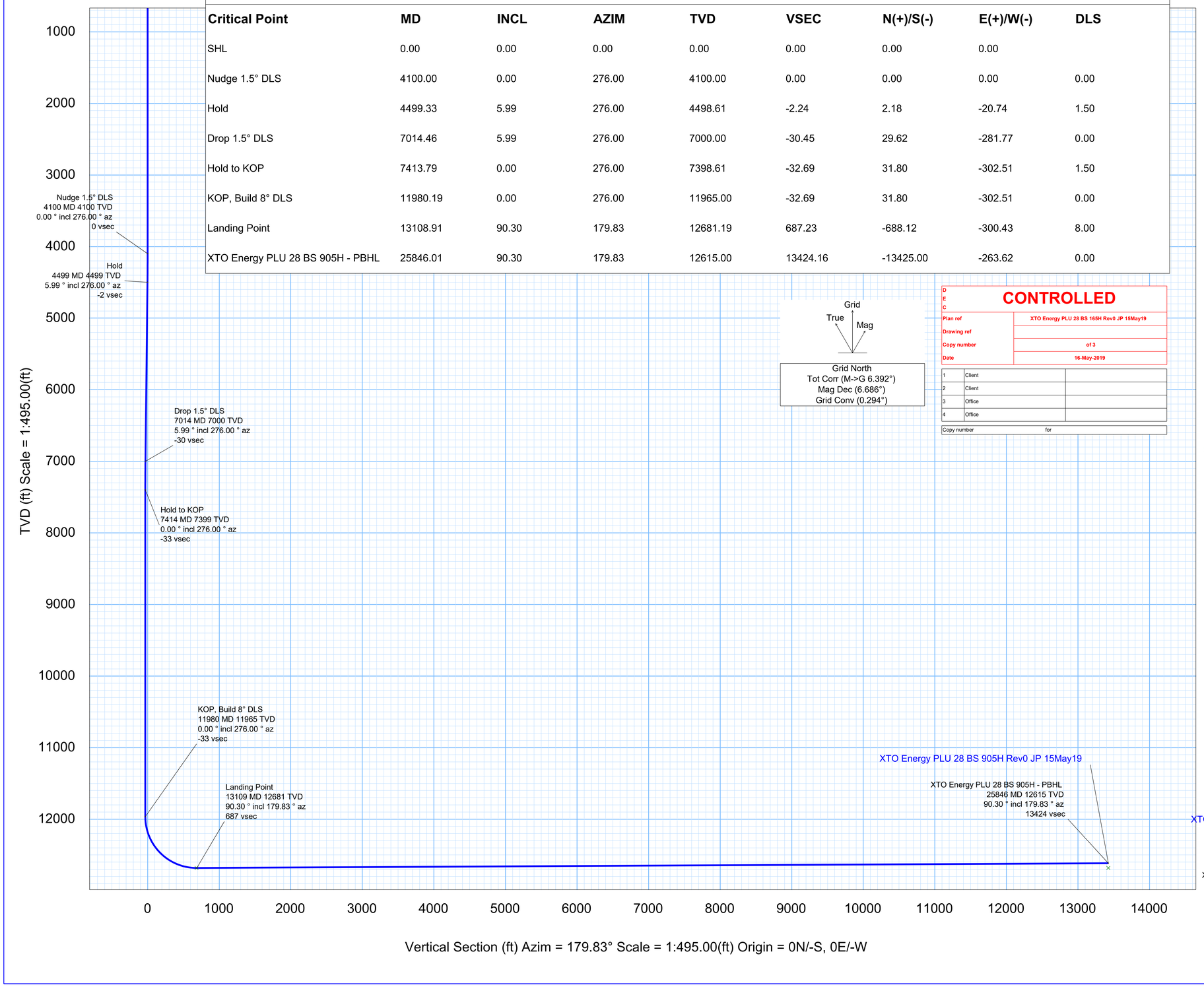
XTO ENERGY

Borehole:	Well:	Field:	Structure:
PLU 28 BS 905H	PLU 28 BS 905H	NM Eddy County (NAD 27)	XTO Energy PLU 28 BS 905H

Gravity & Magnetic Parameters						Surface Location	NAD27 New Mexico State Plane, Eastern Zone, US Feet					Miscellaneous			
Model:	HDGM 2019	Dip:	59.728°	Date:	15-May-2019	Lat:	N 32 6 7.50	Northing:	401300.2ftUS	Grid Conv:	0.2938°	Slot:	New Slot	TVD Ref:	RKB(3371ft above MSL)
MagDec:	6.686°	FS:	47805.813nT	Gravity FS:	998.423mgn (9.80665 Based)	Lon:	W 103 46 49.98	Easting:	671171.2ftUS	Scale Fact:	0.99994265	Plan:	XTO Energy PLU 28 BS 905H Rev0 JP 15May19		

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Nudge 1.5° DLS	4100.00	0.00	276.00	4100.00	0.00	0.00	0.00	0.00
Hold	4499.33	5.99	276.00	4498.61	-2.24	2.18	-20.74	1.50
Drop 1.5° DLS	7014.46	5.99	276.00	7000.00	-30.45	29.62	-281.77	0.00
Hold to KOP	7413.79	0.00	276.00	7398.61	-32.69	31.80	-302.51	1.50
KOP, Build 8° DLS	11980.19	0.00	276.00	11965.00	-32.69	31.80	-302.51	0.00
Landing Point	13108.91	90.30	179.83	12681.19	687.23	-688.12	-300.43	8.00
XTO Energy PLU 28 BS 905H - PBHL	25846.01	90.30	179.83	12615.00	13424.16	-13425.00	-263.62	0.00

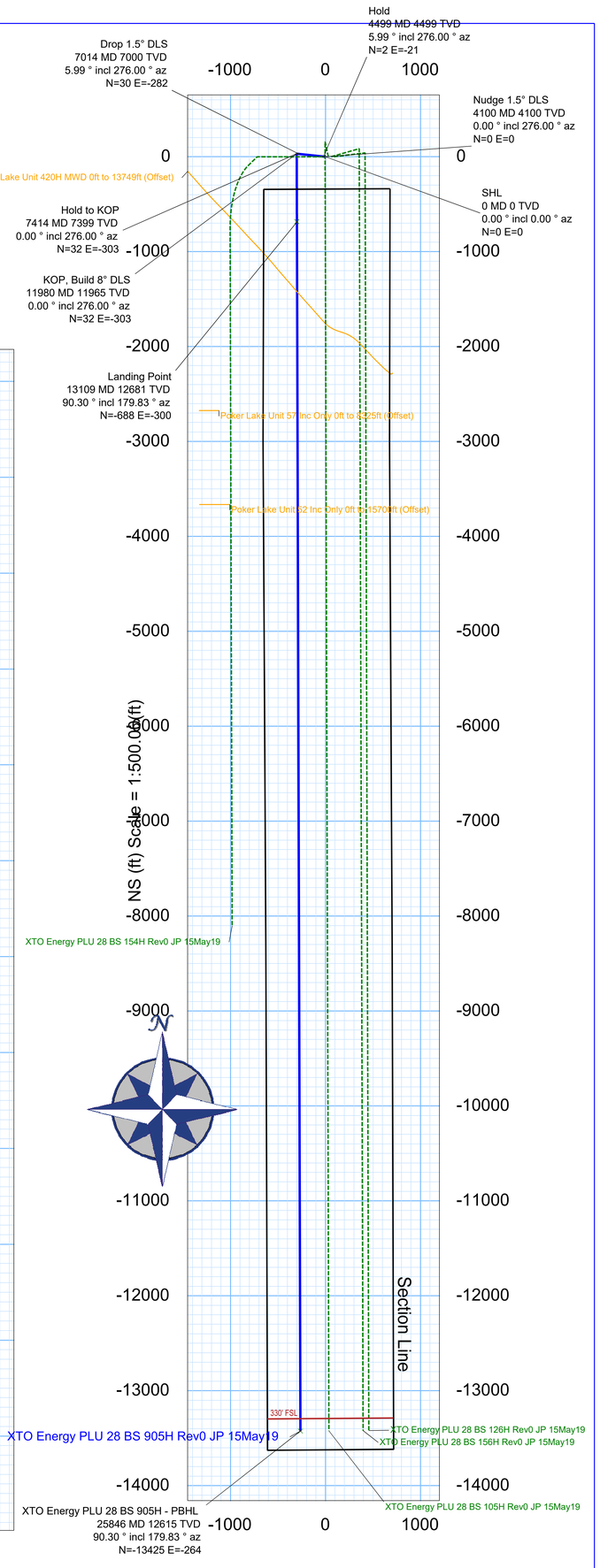


DEC **CONTROLLED**

Plan ref	XTO Energy PLU 28 BS 165H Rev0 JP 15May19
Drawing ref	
Copy number	of 3
Date	16-May-2019

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 495500
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	10/17/2025