

Well Name: POKER LAKE UNIT 30-19 BS	Well Location: T25S / R31E / SEC 30 / SWNE /	County or Parish/State: /
Well Number: 155H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC061634A	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001553440	Well Status: Drilling Well	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2758986

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/31/2023	Time Sundry Submitted: 09:39
Date proposed operation will begin: 11/07/2023	

Procedure Description: ** Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change XTO Permian Operating, LCC. requests permission to make the following changes to the original APD: No Additional Surface Disturbance SHL: fr/1695'FNL & 2391'FEL to 1696'FNL & 1901'FEL FTP: fr/2310'FNL & 2080'FEL to 2115'FNL & 470'FWL LTP: fr/100'FNL & 2080'FEL to 2365'FSL & 1663'FEL BHL: fr/50'FNL & 2080'FEL to 2446'FSL & 1701'FEL, Section 19-T25S-R31E Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program MBS Directional Plan

NOI Attachments

Procedure Description

PLU_30_19_BS_155H_Sundry_attachments_20231031213915.pdf

Well Name: POKER LAKE UNIT 30-19 BS	Well Location: T25S / R31E / SEC 30 / SWNE /	County or Parish/State: /
Well Number: 155H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC061634A	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001553440	Well Status: Drilling Well	Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_30_25S_31E_NMP_Sundry_2758986_Poker_Lake_Unit_30_19_BS_155H_Eng_Worksheet_20231116133751.pdf

Sec_30_25S_31E_NMP_Sundry_2758986_Poker_Lake_Unit_30_19_BS_155H_COAs_20231116133751.pdf

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: CASSIE EVANS

Signed on: NOV 20, 2023 02:31 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland **State:** TX

Phone: (432) 218-3671

Email address: CASSIE.EVANS@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 12/05/2023

Signature: Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.5. Lease Serial No. **NMLC061634A**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **XTO PERMIAN OPERATING LLC**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)
(432) 683-22774. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 30/T25S/R31E/NMP7. If Unit of CA/Agreement, Name and/or No.
NMNM71016X8. Well Name and No. **POKER LAKE UNIT 30-19 BS/155H**9. API Well No. **3001553440**10. Field and Pool or Exploratory Area
PURPLE SAGE/BONE SPRING11. 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				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 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 detennined that the site is ready for final inspection.)

**** Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change**

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

No Additional Surface Disturbance

SHL: fr/1695FNL & 2391FEL to 1696FNL & 1901FEL

FTP: fr/2310FNL & 2080FEL to 2115FNL & 470FWL

LTP: fr/100FNL & 2080FEL to 2365FSL & 1663FEL

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
CASSIE EVANS / Ph: (432) 218-3671

Title **Regulatory Analyst**

(Electronic Submission)
Signature

Date **11/20/2023**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title **Petroleum Engineer**

Date **12/05/2023**

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 of this form to U.S. Department of the Interior, Bureau of Land 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

Additional Remarks

BHL: fr/50FNL & 2080FEL to 2446FSL & 1701FEL, Section 19-T25S-R31E

Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program.

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

MBS

Directional Plan

Location of Well

0. SHL: SWNE / 1695 FNL / 2391 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.103878 / LONG: -103.816591 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2310 FNL / 2080 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.102188 / LONG: -103.815603 (TVD: 11827 feet, MD: 11903 feet)

PPP: SWSE / 2310 FSL / 2080 FEL / TWSP: 25S / RANGE: 31E / SECTION: 19 / LAT: 32.114027 / LONG: -103.815224 (TVD: 12470 feet, MD: 14543 feet)

BHL: NWNE / 50 FNL / 2080 FWL / TWSP: 25S / RANGE: 31E / SECTION: 19 / LAT: 32.123019 / LONG: -103.815416 (TVD: 12470 feet, MD: 20451 feet)

Sec 30-25S-31E-NMP Sundry 2758986 Poker Lake Unit 30-19 BS 155H Eng Worksheet

Poker Lake Unit 30-19 BS 155H

9 5/8	surface csg in a	12 1/4	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	J 55	BTC	14.76	5.21	1.78	1,067	8	2.94	9.94	42,680
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does not	circ to sfc.	Totals:	1,067			42,680
Comparison of Proposed to Minimum Required Cement Volumes											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
12 1/4	0.3132	380	643	334	92	8.90	1343	2M			0.81
Site plat (pipe racks S or E) as per O O 1 DED 4-1, not found.											

7 5/8	casing inside the	9 5/8	Design Factors					Int 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	RY P 110	Flush Joint	4.70	2.41	1.19	4,000	4	1.77	3.98	118,800
"B"	29.70	HCL 80	Flush Joint	∞	2.60	0.87	7,842	3	1.29	4.30	232,907
w/8.4/g mud, 30min Sfc Csg Test psig:							Totals:	11,842	351,707		
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		1067	overlap.		
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg		
8 3/4	0.1005	820	1618	1199	35	10.70	5346	10M	0.56		
Class 'H' tail cmt yld > 1.20							MASP is within 10% of 5000psig, need exrta equip?				
Burst Frac Gradient(s) for Segment(s): A, B, C, D = a, 1.72, c, d All > 0.70, OK.											

Tail cmt				Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	RY P 110	Semi-Premiur	2.73	1.4	1.59	11,742	2	2.36	2.08	234,840
"B"	20.00	RY P 110	Semi-Flush	∞	1.40	1.59	6,457	2	2.36	2.08	129,140
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,583							Totals:	18,199			363,980
The cement volume(s) are intended to achieve a top of				10000	ft from surface or a		1842				overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
6 3/4	0.0835	760	1011	703	44	13.00					0.23
Class 'C' tail cmt yld > 1.35											

#N/A											
0	5 1/2			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from surface or a		#N/A				overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 30-19 BS 155H
LOCATION:	Sec 30-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2758986** on 11/16/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> Batch APD / Sundry				

A. HYDROGEN SULFIDE

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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 1,067 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6790'**
 - b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 7-5/8" X 5-1/2" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **300 feet** into previous casing string. Operator shall provide method of verification. Additional tieback requirements due to not meeting 0.422" clearance requirement per 43 CFR 3172. **Wait on cement (WOC) time for a primary cement job is**

to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. 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.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

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.

Commercial Well Determination

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

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL 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

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. 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 are located, this does not include the dog house or stairway area.
3. 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.

A. CASING

1. 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.
2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. 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.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. 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.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - 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.
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 cement), 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 **43 CFR part 3170 Subpart 3172**.

C. 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.

D. 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.

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

☐ AMENDED REPORT

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

XTO Energy Inc.

PLU 30-19 BS 154H

Projected TD: 18199.26' MD / 11889' TVD

SHL: 1696' FNL & 1901' FEL , Section 30, T25S, R31E

BHL: 2446' FSL & 1701' FEL , Section 19, T25S, 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	967'	Water
Top of Salt	1357'	Water
Base of Salt	4011'	Water
Delaware	4193'	Water
Brushy Canyon	6790'	Water/Oil/Gas
Bone Spring	8101'	Water
1st Bone Spring	9064'	Water/Oil/Gas
2nd Bone Spring	9739'	Water/Oil/Gas
3rd Bone Spring	11033'	Water/Oil/Gas
Wolfcamp	11442'	Water/Oil/Gas
Wolfcamp X	11470'	Water/Oil/Gas
Wolfcamp Y	11571'	Water/Oil/Gas
Wolfcamp A	11604'	Water/Oil/Gas
Target/Land Curve	11889'	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 9.625 inch casing @ 1067' (290' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 11841.67' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 18199.26 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 11541.67 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1067'	9.625	40	J-55	BTC	New	1.07	5.90	14.76
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.85	2.52	1.59
8.75	4000' – 11841.67'	7.625	29.7	HC L-80	Flush Joint	New	1.35	1.55	1.74
6.75	0' – 11741.67'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.45	2.15
6.75	11741.67' - 18199.26'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.44	2.15

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 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 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1067'

Lead: 250 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 11841.67'

1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 460 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6790

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)

Tail: 760 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6790') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 18199.26'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 11541.67 feet

Tail: 440 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 12041.67 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 10M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 5112 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).

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 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. 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.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1067'	12.25	FW/Native	8.4-8.9	35-40	NC
1067' - 11841.67'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
11841.67' - 18199.26'	6.75	OBM	12.5-13	50-60	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 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut 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 9.625 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 180 to 200 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 7728 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - POKER LAKE UNIT 30-19 BS 155H

Measured Depth: 18199.26 ft

TVD RKB: 11902.00 ft

Location

Cartographic
Reference System: New Mexico East -
NAD 27

Northing: 401855.10 ft

Easting: 660646.10 ft

RKB: 3408.00 ft

Ground Level: 3389.00 ft

North Reference: Grid

Convergence Angle: 0.28 Deg

Site: 30-19

Slot: POKER LAKE UNIT 30-
19 BS 155H

Plan Sections

POKER LAKE UNIT 30-19 BS 155H

Measured				TVD			Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target		
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)			
0.00	0.00	0.00	-13.00	0.00	0.00	0.00	0.00	0.00			
1100.00	0.00	0.00	1087.00	0.00	0.00	0.00	0.00	0.00			
3035.83	38.72	111.44	2878.83	-230.10	585.98	2.00	0.00	2.00			
5620.04	38.72	111.44	4895.17	-820.88	2090.49	0.00	0.00	0.00			
7555.87	0.00	0.00	6687.00	-1050.98	2676.46	-2.00	0.00	2.00			
12041.67	0.00	0.00	11172.80	-1050.98	2676.46	0.00	0.00	0.00			
13166.67	90.00	334.62	11889.00	-403.90	2369.50	8.00	0.00	8.00	FTP 11		
18109.93	90.00	334.62	11889.00	4062.30	250.80	0.00	0.00	0.00	LTP 11		
18199.26	90.00	334.62	11889.00	4143.01	212.51	0.00	0.00	0.00	BHL 11		

Position Uncertainty

POKER LAKE UNIT 30-19 BS 155H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.582	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	111.439	1199.980	4.474	0.000	4.973	-0.000	2.691	0.000	0.000	5.066	4.371	133.604	MWD+IFR1+MS
1300.000	4.000	111.439	1299.838	5.319	0.000	5.301	-0.000	2.752	0.000	0.000	5.394	5.232	-19.118	MWD+IFR1+MS
1400.000	6.000	111.439	1399.452	6.061	0.000	5.634	-0.000	2.817	0.000	0.000	6.083	5.628	27.864	MWD+IFR1+MS
1500.000	8.000	111.439	1498.702	6.734	0.000	5.973	-0.000	2.890	0.000	0.000	6.791	5.940	32.432	MWD+IFR1+MS
1600.000	10.000	111.439	1597.465	7.356	0.000	6.317	-0.000	2.973	0.000	0.000	7.449	6.256	33.943	MWD+IFR1+MS
1700.000	12.000	111.439	1695.623	7.936	0.000	6.667	-0.000	3.068	0.000	0.000	8.067	6.580	34.731	MWD+IFR1+MS
1800.000	14.000	111.439	1793.055	8.484	0.000	7.024	-0.000	3.176	0.000	0.000	8.652	6.913	35.248	MWD+IFR1+MS
1900.000	16.000	111.439	1889.643	9.004	0.000	7.389	-0.000	3.299	0.000	0.000	9.210	7.257	35.645	MWD+IFR1+MS
2000.000	18.000	111.439	1985.268	9.500	0.000	7.764	-0.000	3.439	0.000	0.000	9.746	7.612	35.989	MWD+IFR1+MS
2100.000	20.000	111.439	2079.816	9.977	0.000	8.149	-0.000	3.597	0.000	0.000	10.262	7.979	36.317	MWD+IFR1+MS
2200.000	22.000	111.439	2173.169	10.435	0.000	8.548	-0.000	3.774	0.000	0.000	10.762	8.361	36.655	MWD+IFR1+MS
2300.000	24.000	111.439	2265.215	10.878	0.000	8.961	-0.000	3.970	0.000	0.000	11.248	8.758	37.023	MWD+IFR1+MS
2400.000	26.000	111.439	2355.841	11.308	0.000	9.391	-0.000	4.188	0.000	0.000	11.720	9.173	37.442	MWD+IFR1+MS
2500.000	28.000	111.439	2444.937	11.725	0.000	9.839	-0.000	4.427	0.000	0.000	12.182	9.606	37.936	MWD+IFR1+MS
2600.000	30.000	111.439	2532.394	12.132	0.000	10.308	-0.000	4.687	0.000	0.000	12.634	10.061	38.530	MWD+IFR1+MS
2700.000	32.000	111.439	2618.107	12.529	0.000	10.800	-0.000	4.971	0.000	0.000	13.078	10.537	39.263	MWD+IFR1+MS
2800.000	34.000	111.439	2701.970	12.918	0.000	11.317	-0.000	5.276	0.000	0.000	13.514	11.036	40.181	MWD+IFR1+MS
2900.000	36.000	111.439	2783.881	13.300	0.000	11.860	-0.000	5.605	0.000	0.000	13.944	11.559	41.353	MWD+IFR1+MS
3000.000	38.000	111.439	2863.740	13.675	0.000	12.433	-0.000	5.957	0.000	0.000	14.370	12.106	42.874	MWD+IFR1+MS

3035.825	38.717	111.439	2891.832	13.749	0.000	12.639	-0.000	6.033	0.000	0.000	14.486	12.307	43.568	MWD+IFR1+MS
3100.000	38.717	111.439	2941.905	13.981	0.000	13.017	-0.000	6.175	0.000	0.000	14.683	12.670	45.155	MWD+IFR1+MS
3200.000	38.717	111.439	3019.930	14.354	0.000	13.630	-0.000	6.412	0.000	0.000	15.010	13.246	48.508	MWD+IFR1+MS
3300.000	38.717	111.439	3097.955	14.744	0.000	14.261	-0.000	6.664	0.000	0.000	15.367	13.818	53.057	MWD+IFR1+MS
3400.000	38.717	111.439	3175.980	15.145	0.000	14.904	-0.000	6.926	0.000	0.000	15.759	14.376	58.957	MWD+IFR1+MS
3500.000	38.717	111.439	3254.005	15.557	0.000	15.557	-0.000	7.197	0.000	0.000	16.196	14.905	66.132	MWD+IFR1+MS
3600.000	38.717	111.439	3332.030	15.978	0.000	16.220	-0.000	7.477	0.000	0.000	16.687	15.397	73.904	MWD+IFR1+MS
3700.000	38.717	111.439	3410.055	16.408	0.000	16.891	-0.000	7.764	0.000	0.000	17.231	15.850	81.197	MWD+IFR1+MS
3800.000	38.717	111.439	3488.080	16.846	0.000	17.570	-0.000	8.057	0.000	0.000	17.820	16.271	87.264	MWD+IFR1+MS
3900.000	38.717	111.439	3566.105	17.292	0.000	18.254	-0.000	8.357	0.000	0.000	18.443	16.670	91.977	MWD+IFR1+MS
4000.000	38.717	111.439	3644.130	17.745	0.000	18.945	-0.000	8.661	0.000	0.000	19.090	17.055	95.555	MWD+IFR1+MS
4100.000	38.717	111.439	3722.155	18.205	0.000	19.640	-0.000	8.971	0.000	0.000	19.754	17.433	98.279	MWD+IFR1+MS
4200.000	38.717	111.439	3800.180	18.670	0.000	20.341	-0.000	9.285	0.000	0.000	20.431	17.808	100.383	MWD+IFR1+MS
4300.000	38.717	111.439	3878.205	19.141	0.000	21.045	-0.000	9.602	0.000	0.000	21.118	18.181	102.038	MWD+IFR1+MS
4400.000	38.717	111.439	3956.230	19.617	0.000	21.753	-0.000	9.924	0.000	0.000	21.813	18.554	103.363	MWD+IFR1+MS
4500.000	38.717	111.439	4034.255	20.098	0.000	22.465	-0.000	10.248	0.000	0.000	22.514	18.928	104.442	MWD+IFR1+MS
4600.000	38.717	111.439	4112.280	20.584	0.000	23.179	-0.000	10.576	0.000	0.000	23.220	19.304	105.335	MWD+IFR1+MS
4700.000	38.717	111.439	4190.305	21.073	0.000	23.897	-0.000	10.906	0.000	0.000	23.930	19.682	106.083	MWD+IFR1+MS
4800.000	38.717	111.439	4268.330	21.567	0.000	24.616	-0.000	11.239	0.000	0.000	24.645	20.061	106.718	MWD+IFR1+MS
4900.000	38.717	111.439	4346.355	22.064	0.000	25.339	-0.000	11.574	0.000	0.000	25.362	20.443	107.262	MWD+IFR1+MS
5000.000	38.717	111.439	4424.380	22.564	0.000	26.063	-0.000	11.911	0.000	0.000	26.083	20.827	107.733	MWD+IFR1+MS
5100.000	38.717	111.439	4502.405	23.068	0.000	26.790	-0.000	12.251	0.000	0.000	26.806	21.213	108.144	MWD+IFR1+MS
5200.000	38.717	111.439	4580.430	23.575	0.000	27.518	-0.000	12.592	0.000	0.000	27.532	21.601	108.505	MWD+IFR1+MS
5300.000	38.717	111.439	4658.455	24.084	0.000	28.248	-0.000	12.935	0.000	0.000	28.259	21.992	108.825	MWD+IFR1+MS
5400.000	38.717	111.439	4736.480	24.596	0.000	28.979	-0.000	13.280	0.000	0.000	28.989	22.384	109.110	MWD+IFR1+MS
5500.000	38.717	111.439	4814.505	25.110	0.000	29.712	-0.000	13.626	0.000	0.000	29.720	22.779	109.365	MWD+IFR1+MS
5600.000	38.717	111.439	4892.530	25.627	0.000	30.446	-0.000	13.974	0.000	0.000	30.453	23.175	109.595	MWD+IFR1+MS
5620.042	38.717	111.439	4908.168	25.730	0.000	30.592	-0.000	14.042	0.000	0.000	30.598	23.254	109.645	MWD+IFR1+MS
5700.000	37.117	111.439	4971.245	26.258	0.000	31.167	-0.000	14.322	0.000	0.000	31.172	23.577	109.815	MWD+IFR1+MS
5800.000	35.117	111.439	5052.022	26.951	0.000	31.864	-0.000	14.699	0.000	0.000	31.869	24.032	109.900	MWD+IFR1+MS
5900.000	33.117	111.439	5134.807	27.618	0.000	32.533	-0.000	15.062	0.000	0.000	32.538	24.505	109.940	MWD+IFR1+MS
6000.000	31.117	111.439	5219.499	28.239	0.000	33.172	-0.000	15.398	0.000	0.000	33.177	24.981	109.969	MWD+IFR1+MS
6100.000	29.117	111.439	5305.994	28.813	0.000	33.781	-0.000	15.708	0.000	0.000	33.785	25.458	109.987	MWD+IFR1+MS

6200.000	27.117	111.439	5394.188	29.339	0.000	34.358	-0.000	15.993	0.000	0.000	34.363	25.934	109.994	MWD+IFR1+MS
6300.000	25.117	111.439	5483.973	29.817	0.000	34.906	-0.000	16.255	0.000	0.000	34.911	26.407	109.992	MWD+IFR1+MS
6400.000	23.117	111.439	5575.240	30.245	0.000	35.423	-0.000	16.494	0.000	0.000	35.428	26.876	109.981	MWD+IFR1+MS
6500.000	21.117	111.439	5667.876	30.624	0.000	35.910	-0.000	16.711	0.000	0.000	35.915	27.339	109.961	MWD+IFR1+MS
6600.000	19.117	111.439	5761.771	30.953	0.000	36.367	-0.000	16.909	0.000	0.000	36.373	27.796	109.931	MWD+IFR1+MS
6700.000	17.117	111.439	5856.808	31.232	0.000	36.797	-0.000	17.087	0.000	0.000	36.802	28.243	109.893	MWD+IFR1+MS
6800.000	15.117	111.439	5952.873	31.460	0.000	37.198	-0.000	17.248	0.000	0.000	37.204	28.681	109.846	MWD+IFR1+MS
6900.000	13.117	111.439	6049.847	31.638	0.000	37.574	-0.000	17.393	0.000	0.000	37.580	29.108	109.790	MWD+IFR1+MS
7000.000	11.117	111.439	6147.614	31.765	0.000	37.923	-0.000	17.523	0.000	0.000	37.930	29.522	109.725	MWD+IFR1+MS
7100.000	9.117	111.439	6246.054	31.843	0.000	38.249	-0.000	17.641	0.000	0.000	38.256	29.924	109.652	MWD+IFR1+MS
7200.000	7.117	111.439	6345.048	31.871	0.000	38.552	-0.000	17.747	0.000	0.000	38.560	30.311	109.569	MWD+IFR1+MS
7300.000	5.117	111.439	6444.473	31.851	0.000	38.833	-0.000	17.843	0.000	0.000	38.842	30.684	109.478	MWD+IFR1+MS
7400.000	3.117	111.439	6544.210	31.782	0.000	39.095	-0.000	17.931	0.000	0.000	39.104	31.042	109.378	MWD+IFR1+MS
7500.000	1.117	111.439	6644.137	31.666	0.000	39.338	-0.000	18.013	0.000	0.000	39.348	31.383	109.269	MWD+IFR1+MS
7555.867	0.000	0.000	6700.000	38.685	0.000	32.484	0.000	18.057	0.000	0.000	39.472	31.522	109.285	MWD+IFR1+MS
7600.000	0.000	0.000	6744.133	38.782	0.000	32.583	0.000	18.091	0.000	0.000	39.568	31.624	109.270	MWD+IFR1+MS
7700.000	0.000	0.000	6844.133	39.003	0.000	32.811	0.000	18.169	0.000	0.000	39.787	31.856	109.251	MWD+IFR1+MS
7800.000	0.000	0.000	6944.133	39.228	0.000	33.044	0.000	18.250	0.000	0.000	40.011	32.091	109.246	MWD+IFR1+MS
7900.000	0.000	0.000	7044.133	39.456	0.000	33.279	0.000	18.334	0.000	0.000	40.238	32.329	109.241	MWD+IFR1+MS
8000.000	0.000	0.000	7144.133	39.685	0.000	33.516	0.000	18.420	0.000	0.000	40.466	32.569	109.236	MWD+IFR1+MS
8100.000	0.000	0.000	7244.133	39.916	0.000	33.755	0.000	18.509	0.000	0.000	40.696	32.811	109.231	MWD+IFR1+MS
8200.000	0.000	0.000	7344.133	40.149	0.000	33.997	0.000	18.601	0.000	0.000	40.928	33.055	109.226	MWD+IFR1+MS
8300.000	0.000	0.000	7444.133	40.384	0.000	34.240	0.000	18.695	0.000	0.000	41.162	33.301	109.221	MWD+IFR1+MS
8400.000	0.000	0.000	7544.133	40.621	0.000	34.486	0.000	18.793	0.000	0.000	41.397	33.549	109.216	MWD+IFR1+MS
8500.000	0.000	0.000	7644.133	40.859	0.000	34.733	0.000	18.893	0.000	0.000	41.635	33.800	109.211	MWD+IFR1+MS
8600.000	0.000	0.000	7744.133	41.099	0.000	34.983	0.000	18.996	0.000	0.000	41.874	34.052	109.206	MWD+IFR1+MS
8700.000	0.000	0.000	7844.133	41.341	0.000	35.234	0.000	19.102	0.000	0.000	42.115	34.306	109.201	MWD+IFR1+MS
8800.000	0.000	0.000	7944.133	41.585	0.000	35.487	0.000	19.211	0.000	0.000	42.357	34.562	109.196	MWD+IFR1+MS
8900.000	0.000	0.000	8044.133	41.830	0.000	35.742	0.000	19.323	0.000	0.000	42.601	34.820	109.192	MWD+IFR1+MS
9000.000	0.000	0.000	8144.133	42.077	0.000	35.999	0.000	19.438	0.000	0.000	42.847	35.079	109.187	MWD+IFR1+MS
9100.000	0.000	0.000	8244.133	42.325	0.000	36.257	0.000	19.556	0.000	0.000	43.094	35.340	109.182	MWD+IFR1+MS
9200.000	0.000	0.000	8344.133	42.575	0.000	36.517	0.000	19.678	0.000	0.000	43.343	35.603	109.178	MWD+IFR1+MS
9300.000	0.000	0.000	8444.133	42.827	0.000	36.779	0.000	19.802	0.000	0.000	43.593	35.868	109.173	MWD+IFR1+MS

9400.000	0.000	0.000	8544.133	43.080	0.000	37.043	0.000	19.930	0.000	0.000	43.845	36.134	109.169	MWD+IFR1+MS
9500.000	0.000	0.000	8644.133	43.334	0.000	37.308	0.000	20.061	0.000	0.000	44.098	36.402	109.164	MWD+IFR1+MS
9600.000	0.000	0.000	8744.133	43.590	0.000	37.574	0.000	20.196	0.000	0.000	44.353	36.671	109.160	MWD+IFR1+MS
9700.000	0.000	0.000	8844.133	43.848	0.000	37.842	0.000	20.334	0.000	0.000	44.609	36.942	109.155	MWD+IFR1+MS
9800.000	0.000	0.000	8944.133	44.107	0.000	38.112	0.000	20.475	0.000	0.000	44.867	37.214	109.151	MWD+IFR1+MS
9900.000	0.000	0.000	9044.133	44.367	0.000	38.383	0.000	20.619	0.000	0.000	45.125	37.488	109.147	MWD+IFR1+MS
10000.000	0.000	0.000	9144.133	44.629	0.000	38.655	0.000	20.768	0.000	0.000	45.386	37.763	109.143	MWD+IFR1+MS
10100.000	0.000	0.000	9244.133	44.892	0.000	38.929	0.000	20.919	0.000	0.000	45.647	38.040	109.138	MWD+IFR1+MS
10200.000	0.000	0.000	9344.133	45.156	0.000	39.204	0.000	21.074	0.000	0.000	45.910	38.318	109.134	MWD+IFR1+MS
10300.000	0.000	0.000	9444.133	45.421	0.000	39.481	0.000	21.233	0.000	0.000	46.175	38.597	109.130	MWD+IFR1+MS
10400.000	0.000	0.000	9544.133	45.688	0.000	39.758	0.000	21.395	0.000	0.000	46.440	38.878	109.126	MWD+IFR1+MS
10500.000	0.000	0.000	9644.133	45.956	0.000	40.037	0.000	21.561	0.000	0.000	46.707	39.159	109.122	MWD+IFR1+MS
10600.000	0.000	0.000	9744.133	46.226	0.000	40.318	0.000	21.731	0.000	0.000	46.975	39.442	109.118	MWD+IFR1+MS
10700.000	0.000	0.000	9844.133	46.496	0.000	40.599	0.000	21.904	0.000	0.000	47.244	39.727	109.114	MWD+IFR1+MS
10800.000	0.000	0.000	9944.133	46.768	0.000	40.882	0.000	22.081	0.000	0.000	47.514	40.012	109.110	MWD+IFR1+MS
10900.000	0.000	0.000	10044.133	47.041	0.000	41.166	0.000	22.261	0.000	0.000	47.786	40.299	109.106	MWD+IFR1+MS
11000.000	0.000	0.000	10144.133	47.315	0.000	41.451	0.000	22.445	0.000	0.000	48.058	40.587	109.102	MWD+IFR1+MS
11100.000	0.000	0.000	10244.133	47.590	0.000	41.738	0.000	22.633	0.000	0.000	48.332	40.876	109.098	MWD+IFR1+MS
11200.000	0.000	0.000	10344.133	47.866	0.000	42.025	0.000	22.825	0.000	0.000	48.607	41.166	109.094	MWD+IFR1+MS
11300.000	0.000	0.000	10444.133	48.143	0.000	42.313	0.000	23.020	0.000	0.000	48.883	41.457	109.090	MWD+IFR1+MS
11400.000	0.000	0.000	10544.133	48.422	0.000	42.603	0.000	23.220	0.000	0.000	49.160	41.749	109.087	MWD+IFR1+MS
11500.000	0.000	0.000	10644.133	48.701	0.000	42.893	0.000	23.422	0.000	0.000	49.438	42.042	109.083	MWD+IFR1+MS
11600.000	0.000	0.000	10744.133	48.981	0.000	43.185	0.000	23.629	0.000	0.000	49.717	42.336	109.079	MWD+IFR1+MS
11700.000	0.000	0.000	10844.133	49.263	0.000	43.478	0.000	23.840	0.000	0.000	49.997	42.631	109.076	MWD+IFR1+MS
11800.000	0.000	0.000	10944.133	49.545	0.000	43.771	0.000	24.054	0.000	0.000	50.278	42.927	109.072	MWD+IFR1+MS
11900.000	0.000	0.000	11044.133	49.829	0.000	44.066	0.000	24.273	0.000	0.000	50.560	43.224	109.068	MWD+IFR1+MS
12000.000	0.000	0.000	11144.133	50.113	0.000	44.361	0.000	24.495	0.000	0.000	50.843	43.522	109.065	MWD+IFR1+MS
12041.670	0.000	0.000	11185.803	50.231	0.000	44.483	0.000	24.588	0.000	0.000	50.960	43.646	109.055	MWD+IFR1+MS
12100.000	4.666	334.621	11244.069	46.925	0.000	47.532	0.000	24.719	0.000	0.000	51.133	43.823	108.941	MWD+IFR1+MS
12200.000	12.666	334.621	11342.846	45.905	0.000	47.791	0.000	24.972	0.000	0.000	51.692	44.316	106.862	MWD+IFR1+MS
12300.000	20.666	334.621	11438.568	44.648	0.000	48.035	0.000	25.338	0.000	0.000	52.414	44.849	103.982	MWD+IFR1+MS
12400.000	28.666	334.621	11529.369	42.920	0.000	48.265	0.000	25.868	0.000	0.000	53.087	45.272	101.744	MWD+IFR1+MS
12500.000	36.666	334.621	11613.484	40.873	0.000	48.484	0.000	26.599	0.000	0.000	53.682	45.604	100.163	MWD+IFR1+MS

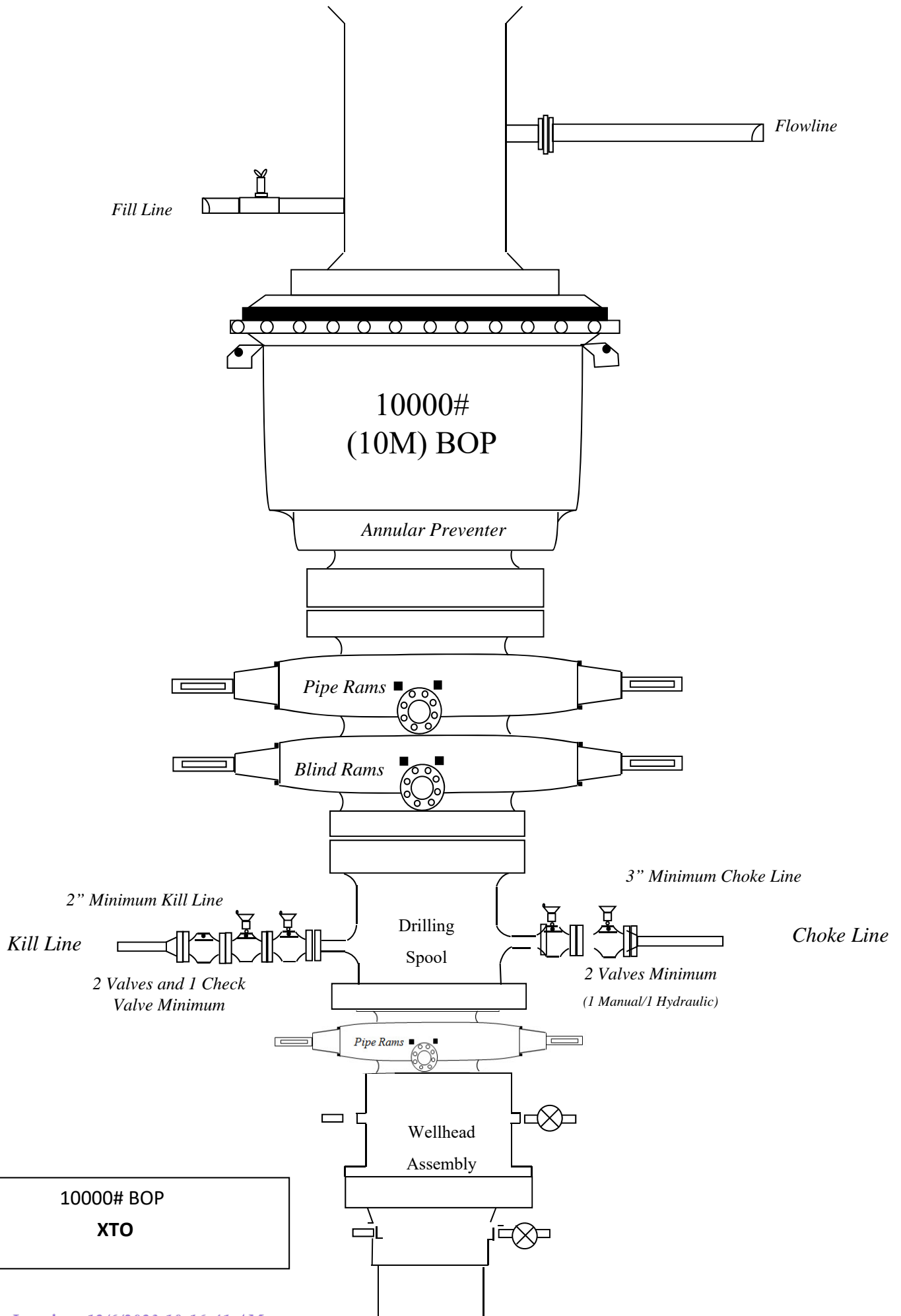
12600.000	44.666	334.621	11689.274	38.700	0.000	48.693	0.000	27.549	0.000	0.000	54.181	45.859	99.185	MWD+IFR1+MS
12700.000	52.666	334.621	11755.264	36.641	0.000	48.892	0.000	28.710	0.000	0.000	54.576	46.053	98.719	MWD+IFR1+MS
12800.000	60.666	334.621	11810.171	34.970	0.000	49.079	0.000	30.055	0.000	0.000	54.867	46.197	98.663	MWD+IFR1+MS
12900.000	68.666	334.621	11852.925	33.964	0.000	49.254	0.000	31.539	0.000	0.000	55.066	46.305	98.902	MWD+IFR1+MS
13000.000	76.666	334.621	11882.694	33.840	0.000	49.412	0.000	33.111	0.000	0.000	55.189	46.388	99.315	MWD+IFR1+MS
13100.000	84.666	334.621	11898.899	34.692	0.000	49.548	0.000	34.715	0.000	0.000	55.256	46.460	99.766	MWD+IFR1+MS
13166.670	90.000	334.621	11902.000	35.340	0.000	49.622	0.000	35.340	0.000	0.000	55.279	46.507	100.008	MWD+IFR1+MS
13200.000	90.000	334.621	11902.000	35.480	0.000	49.656	0.000	35.480	0.000	0.000	55.288	46.532	100.112	MWD+IFR1+MS
13300.000	90.000	334.621	11902.000	35.861	0.000	49.776	0.000	35.861	0.000	0.000	55.322	46.617	100.479	MWD+IFR1+MS
13400.000	90.000	334.621	11902.000	36.258	0.000	49.917	0.000	36.258	0.000	0.000	55.364	46.716	100.915	MWD+IFR1+MS
13500.000	90.000	334.621	11902.000	36.668	0.000	50.078	0.000	36.668	0.000	0.000	55.413	46.829	101.415	MWD+IFR1+MS
13600.000	90.000	334.621	11902.000	37.089	0.000	50.258	0.000	37.089	0.000	0.000	55.471	46.952	101.982	MWD+IFR1+MS
13700.000	90.000	334.621	11902.000	37.523	0.000	50.456	0.000	37.523	0.000	0.000	55.537	47.087	102.617	MWD+IFR1+MS
13800.000	90.000	334.621	11902.000	37.967	0.000	50.674	0.000	37.967	0.000	0.000	55.612	47.233	103.322	MWD+IFR1+MS
13900.000	90.000	334.621	11902.000	38.423	0.000	50.910	0.000	38.423	0.000	0.000	55.697	47.388	104.098	MWD+IFR1+MS
14000.000	90.000	334.621	11902.000	38.889	0.000	51.164	0.000	38.889	0.000	0.000	55.793	47.551	104.947	MWD+IFR1+MS
14100.000	90.000	334.621	11902.000	39.365	0.000	51.437	0.000	39.365	0.000	0.000	55.899	47.722	105.870	MWD+IFR1+MS
14200.000	90.000	334.621	11902.000	39.851	0.000	51.727	0.000	39.851	0.000	0.000	56.018	47.899	106.865	MWD+IFR1+MS
14300.000	90.000	334.621	11902.000	40.346	0.000	52.034	0.000	40.346	0.000	0.000	56.150	48.081	107.934	MWD+IFR1+MS
14400.000	90.000	334.621	11902.000	40.850	0.000	52.359	0.000	40.850	0.000	0.000	56.295	48.268	109.073	MWD+IFR1+MS
14500.000	90.000	334.621	11902.000	41.363	0.000	52.700	0.000	41.363	0.000	0.000	56.455	48.457	110.281	MWD+IFR1+MS
14600.000	90.000	334.621	11902.000	41.885	0.000	53.058	0.000	41.885	0.000	0.000	56.631	48.647	111.552	MWD+IFR1+MS
14700.000	90.000	334.621	11902.000	42.414	0.000	53.431	0.000	42.414	0.000	0.000	56.823	48.838	112.882	MWD+IFR1+MS
14800.000	90.000	334.621	11902.000	42.952	0.000	53.821	0.000	42.952	0.000	0.000	57.033	49.028	114.263	MWD+IFR1+MS
14900.000	90.000	334.621	11902.000	43.497	0.000	54.226	0.000	43.497	0.000	0.000	57.261	49.215	115.686	MWD+IFR1+MS
15000.000	90.000	334.621	11902.000	44.049	0.000	54.646	0.000	44.049	0.000	0.000	57.509	49.399	117.141	MWD+IFR1+MS
15100.000	90.000	334.621	11902.000	44.608	0.000	55.081	0.000	44.608	0.000	0.000	57.776	49.578	118.619	MWD+IFR1+MS
15200.000	90.000	334.621	11902.000	45.174	0.000	55.531	0.000	45.174	0.000	0.000	58.063	49.752	120.107	MWD+IFR1+MS
15300.000	90.000	334.621	11902.000	45.746	0.000	55.994	0.000	45.746	0.000	0.000	58.371	49.921	121.594	MWD+IFR1+MS
15400.000	90.000	334.621	11902.000	46.325	0.000	56.471	0.000	46.325	0.000	0.000	58.700	50.082	123.069	MWD+IFR1+MS
15500.000	90.000	334.621	11902.000	46.909	0.000	56.962	0.000	46.909	0.000	0.000	59.050	50.237	124.522	MWD+IFR1+MS
15600.000	90.000	334.621	11902.000	47.500	0.000	57.465	0.000	47.500	0.000	0.000	59.420	50.385	125.942	MWD+IFR1+MS
15700.000	90.000	334.621	11902.000	48.095	0.000	57.981	0.000	48.095	0.000	0.000	59.811	50.525	127.323	MWD+IFR1+MS

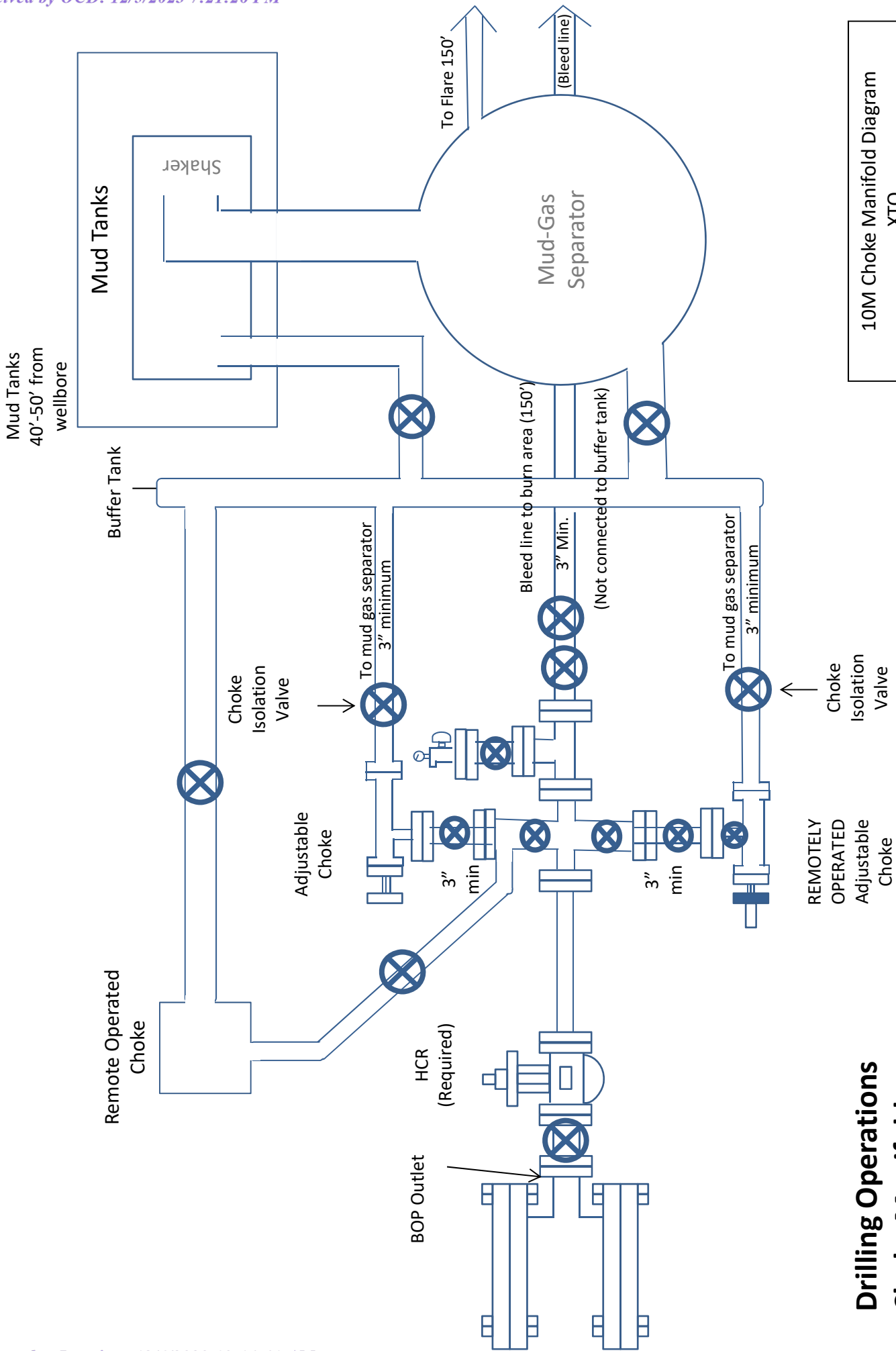
15800.000	90.000	334.621	11902.000	48.697	0.000	58.510	0.000	48.697	0.000	0.000	60.222	50.658	128.657	MWD+IFR1+MS
15900.000	90.000	334.621	11902.000	49.303	0.000	59.051	0.000	49.303	0.000	0.000	60.653	50.785	129.939	MWD+IFR1+MS
16000.000	90.000	334.621	11902.000	49.914	0.000	59.603	0.000	49.914	0.000	0.000	61.102	50.904	131.166	MWD+IFR1+MS
16100.000	90.000	334.621	11902.000	50.531	0.000	60.167	0.000	50.531	0.000	0.000	61.570	51.017	132.335	MWD+IFR1+MS
16200.000	90.000	334.621	11902.000	51.151	0.000	60.741	0.000	51.151	0.000	0.000	62.056	51.124	133.446	MWD+IFR1+MS
16300.000	90.000	334.621	11902.000	51.777	0.000	61.327	0.000	51.777	0.000	0.000	62.559	51.225	134.498	MWD+IFR1+MS
16400.000	90.000	334.621	11902.000	52.406	0.000	61.923	0.000	52.406	0.000	0.000	63.078	51.320	-44.508	MWD+IFR1+MS
16500.000	90.000	334.621	11902.000	53.040	0.000	62.529	0.000	53.040	0.000	0.000	63.613	51.411	-43.571	MWD+IFR1+MS
16600.000	90.000	334.621	11902.000	53.677	0.000	63.145	0.000	53.677	0.000	0.000	64.163	51.496	-42.688	MWD+IFR1+MS
16700.000	90.000	334.621	11902.000	54.319	0.000	63.770	0.000	54.319	0.000	0.000	64.728	51.578	-41.857	MWD+IFR1+MS
16800.000	90.000	334.621	11902.000	54.964	0.000	64.405	0.000	54.964	0.000	0.000	65.306	51.656	-41.076	MWD+IFR1+MS
16900.000	90.000	334.621	11902.000	55.613	0.000	65.049	0.000	55.613	0.000	0.000	65.897	51.730	-40.342	MWD+IFR1+MS
17000.000	90.000	334.621	11902.000	56.265	0.000	65.701	0.000	56.265	0.000	0.000	66.501	51.800	-39.652	MWD+IFR1+MS
17100.000	90.000	334.621	11902.000	56.921	0.000	66.362	0.000	56.921	0.000	0.000	67.117	51.868	-39.004	MWD+IFR1+MS
17200.000	90.000	334.621	11902.000	57.580	0.000	67.032	0.000	57.580	0.000	0.000	67.744	51.933	-38.395	MWD+IFR1+MS
17300.000	90.000	334.621	11902.000	58.242	0.000	67.709	0.000	58.242	0.000	0.000	68.382	51.996	-37.823	MWD+IFR1+MS
17400.000	90.000	334.621	11902.000	58.907	0.000	68.394	0.000	58.907	0.000	0.000	69.031	52.056	-37.285	MWD+IFR1+MS
17500.000	90.000	334.621	11902.000	59.575	0.000	69.087	0.000	59.575	0.000	0.000	69.689	52.115	-36.779	MWD+IFR1+MS
17600.000	90.000	334.621	11902.000	60.245	0.000	69.786	0.000	60.245	0.000	0.000	70.357	52.172	-36.302	MWD+IFR1+MS
17700.000	90.000	334.621	11902.000	60.919	0.000	70.493	0.000	60.919	0.000	0.000	71.035	52.227	-35.853	MWD+IFR1+MS
17800.000	90.000	334.621	11902.000	61.595	0.000	71.207	0.000	61.595	0.000	0.000	71.721	52.280	-35.430	MWD+IFR1+MS
17900.000	90.000	334.621	11902.000	62.274	0.000	71.928	0.000	62.274	0.000	0.000	72.416	52.332	-35.031	MWD+IFR1+MS
18000.000	90.000	334.621	11902.000	62.955	0.000	72.655	0.000	62.955	0.000	0.000	73.118	52.383	-34.655	MWD+IFR1+MS
18109.931	90.000	334.621	11902.000	63.707	0.000	73.462	0.000	63.707	0.000	0.000	73.901	52.439	-34.264	MWD+IFR1+MS
18199.264	90.000	334.621	11902.000	64.319	0.000	74.122	0.000	64.319	0.000	0.000	74.542	52.482	-33.965	MWD+IFR1+MS

Plan Targets

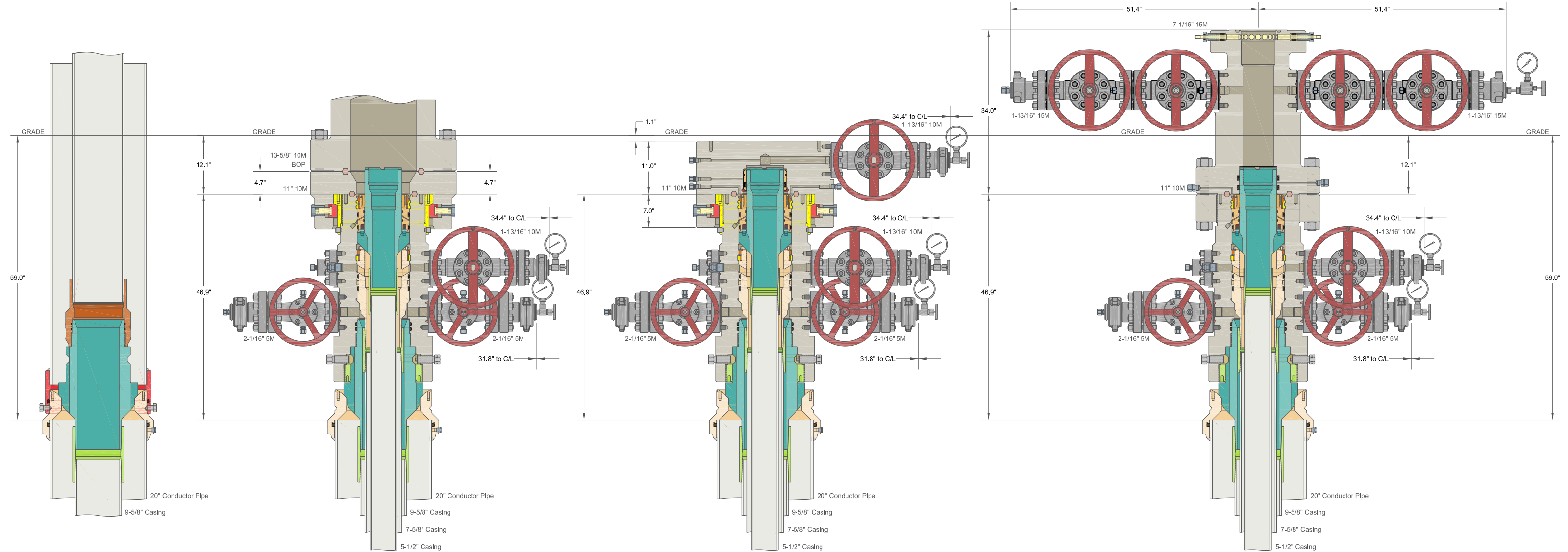
POKER LAKE UNIT 30-19 BS 155H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
BHL 11	18212.27	405998.10	660858.80	8481.00	RECTANGLE
LTP 11	18122.93	405917.40	660896.90	8481.00	RECTANGLE
FTP 11	13179.67	401451.20	663015.60	8481.00	RECTANGLE





**Drilling Operations
Choke Manifold
10M Service**



ALL DIMENSIONS APPROXIMATE			
CACTUS WELLHEAD LLC		XTO ENERGY INC DELAWARE BASIN	
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers	DRAWN	VJK	31MAR22
	APPRV		
DRAWING NO.		HBE0000479	

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 291536

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 291536
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during a cement job, then a CBL is required for that string.	12/6/2023