

Well Name: BRUSHY DRAW 30 FEDERAL	Well Location: T25S / R30E / SEC 30 / SWSW / 32.094511 / -103.925404	County or Parish/State: EDDY / NM
Well Number: 122H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM014785, NMNM14785	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001545190	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2662751

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/18/2022

Time Sundry Submitted: 07:13

Date proposed operation will begin: 04/19/2022

Procedure Description: **Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change formation from Wolfcamp to Bone Spring Change Pool fr/Purple Sage; Wolfcamp (98220) to Corral Canyon; Bone Spring, South (13354) Change BHL fr/2440'FNL & 990'FWL to 2460'FNL & 2580'FWL Casing/Cement design per the attached drilling program. Batch & Spudder Rig Attachments: C102 Drilling Program Directional Plan Multibowl Diagram Spudder Rig Request Offline Cement Variance (Surface & Intermediate Only) Request BOP Breaktest Variance

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

BD_30_Fed_122H_Attachments_20220421133650.pdf

Received by OCD: 6/26/2025 7:44:36 AM

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Conditions of Approval

Additional

Sec_30_25S_30E_NMP_Sundry_2662751_Brushy_Draw_31_Federal_122H_Eddy_NMNM14785_XTO_13_22_44673_Allison_Morency_20220422102112.pdf

Sec_30_25S_30E_NMP_Sundry_2662751_Brushy_Draw_31_Federal_122H_Eddy_NMNM14785_XTO_COAs_20220422102111.pdf

Sec_30_25S_30E_NMP_Sundry_2662751_Brushy_Draw_31_Federal_122H_Break_Testing_COAs_20220422102111.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: STEPHANIE RABADUE	Signed on: APR 21, 2022 01:37 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Coordinator	
Street Address: 500 W. Illinois St, Ste 100	
City: Midland	State: TX
Phone: (432) 620-6714	
Email address: STEPHANIE.RABADUE@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: 04/22/2022
Signature: Chris Walls	

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

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 recompleate 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.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on page 2)

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

Attachments:

C102

Drilling Program

Directional Plan

Multibowl Diagram

Spudder Rig Request

Offline Cement Variance (Surface & Intermediate Only) Request

BOP Breaktest Variance

Location of Well

0. SHL: SWSW / 330 FSL / 1205 FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.094511 / LONG: -103.925404 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 330 FNL / 990 FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.092695 / LONG: -103.926093 (TVD: 10870 feet, MD: 11400 feet)

BHL: SWNW / 2440 FNL / 990 FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.05768 / LONG: -103.926035 (TVD: 10900 feet, MD: 24036 feet)

Sec 30-25S-30E-NMP Sundry 2662751 Brushy Draw 31 Federal 122H Eddy NMNM14785 XTO 13-22 44673 Allison
Morency

Brushy Draw 31 Federal 122H

9 5/8	surface csg in a	12 1/4	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	J 55	STC	13.55	6.45	0.86	834	10	1.46	11.95	33,360
"B"			STC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	834			33,360
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	300	493	261	89	9.20	2699	3M			0.81
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.											
Site plat (pipe racks S or E) as per O.O.I.I.D 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	2.09	2.52	1.91	4,000	2	3.38	4.32	118,800
"B"	29.70	HCL 80	Flush Joint	2.75	1.25	1.39	4,970	1	2.46	2.14	147,609
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	8,970	266,409		
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		834	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	590	1279	908	41	10.20	2796	3M			0.56
Class 'H' tail cmt yld > 1.20											

Tail cmt		casing inside the		7 5/8		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	3.25	2.48	2.55	8,870	3	4.52	4.41	177,400	
"B"	20.00	RY P 110	Semi-Flush	32.70	2.24	2.55	14,383	3	4.52	3.97	287,660	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,951							Totals:	23,253	465,060			
The cement volume(s) are intended to achieve a top of					8400	ft from surface or a		570	overlap.			
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist			
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg			
6 3/4	0.0835	1020	1576	1246	26	9.70			0.23			
Class 'C' tail cmt yld > 1.35												

#N/A		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

Updated COAs per Sundry 2662751 approved through engineering on 04/22/2022. Includes approval for an updated casing plan, to use a bradenhead squeeze to get the second stage cement to surface, to utilize a spudder rig, offline cementing for the surface and intermediate casing, and additional COAs for break / shell testing the BOP.

OPERATOR'S NAME:	XTO Permian Operating
WELL NAME & NO.:	Brushy Draw 30 Federal 122H
LOCATION:	Sec 30-25S-30E-NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☒ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

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 Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 9-5/8 inch surface casing shall be set at approximately 830 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and 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 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 a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Casing does not meet 0.422" clearance requirement so cement should tie-back at least **300 feet** into previous casing string. Operator shall provide method of verification.

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. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) 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 OOGO2.III.A.2.i must be followed.

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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(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 Onshore Oil and Gas Order No. 2 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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 OOGO2.III.A.2.i 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 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. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

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.

**Conditions of Approval
Brushy Draw 30 Federal 122H**

BOP Break Testing Variance (Note: Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater)

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.

A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45190	² Pool Code 13354	³ Pool Name Corral Canyon; Bone Spring, South
⁴ Property Code 322241	⁵ Property Name BRUSHY DRAW 30 FEDERAL	⁶ Well Number 122H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,091'

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
4	30	25 S	30 E		330	SOUTH	1,205	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	26 S	30 E		2,460	NORTH	2,580	EAST	EDDY

¹² Dedicated Acres 400	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.

	SHL (NAD83 NME) Y = 398,358.9 X = 667,661.2 LAT. = 32.094511 °N LONG. = 103.925404 °W FTP (NAD83 NME) Y = 397,708.4 X = 669,227.9 LAT. = 32.092707 °N LONG. = 103.920353 °W CORNER COORDINATES (NAD83 NME) A - Y = 398,037.8 N , X = 669,143.7 E B - Y = 395,382.0 N , X = 669,148.4 E C - Y = 392,724.6 N , X = 669,153.0 E D - Y = 390,069.4 N , X = 669,175.5 E E - Y = 387,411.8 N , X = 669,198.0 E F - Y = 384,756.2 N , X = 669,204.1 E G - Y = 398,047.7 N , X = 670,474.6 E H - Y = 395,390.9 N , X = 670,479.4 E I - Y = 392,734.7 N , X = 670,483.5 E J - Y = 390,079.0 N , X = 670,505.2 E K - Y = 387,422.3 N , X = 670,525.6 E L - Y = 384,766.4 N , X = 670,533.7 E SHL (NAD27 NME) Y = 398,300.7 X = 626,476.3 LAT. = 32.094386 °N LONG. = 103.924921 °W FTP (NAD27 NME) Y = 397,650.2 X = 628,042.9 LAT. = 32.092581 °N LONG. = 103.919870 °W CORNER COORDINATES (NAD27 NME) A - Y = 397,979.6 N , X = 627,958.8 E B - Y = 395,323.9 N , X = 627,963.3 E C - Y = 392,666.5 N , X = 627,967.9 E D - Y = 390,011.4 N , X = 627,990.3 E E - Y = 387,353.9 N , X = 628,012.7 E F - Y = 384,698.4 N , X = 628,018.8 E G - Y = 397,989.5 N , X = 629,289.6 E H - Y = 395,332.7 N , X = 629,294.4 E I - Y = 392,676.7 N , X = 629,298.4 E J - Y = 390,021.1 N , X = 629,320.0 E K - Y = 387,364.4 N , X = 629,340.3 E L - Y = 384,708.6 N , X = 629,348.4 E	LTP (NAD83 NME) Y = 385,102.4 X = 669,282.1 LAT. = 32.058053 °N LONG. = 103.920334 °W BHL (NAD83 NME) Y = 384,952.4 X = 669,282.7 LAT. = 32.057641 °N LONG. = 103.920334 °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. <i>Stephanie Rabadue</i> 04/14/2022 Signature Date Stephanie Rabadue Printed Name stephanie.rabadue@exxonmobil.com E-mail Address	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 4-14-2022 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number AW 2017060882		

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

XTO Energy Inc.
Brushy Draw 30 Federal 122H
Projected TD: 23253' MD / 9850' TVD
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	734'	Water
Top of Salt	884'	Water
Base of Salt	3255'	Water
Delaware	3480'	Water
Brushy Canyon	6260'	Water/Oil/Gas
Bone Spring	7290'	Water
1st Bone Spring Ss	8190'	Water/Oil/Gas
2nd Bone Spring Ss	8795'	Water/Oil/Gas
3rd Bone Spring Sh	9665'	Water/Oil/Gas
Target/Land Curve	9800'	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 @ 834' (50' 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 8970' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23253 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8670 feet).

3. Casing Design

Hole Size	TVD	Measured Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	834'	0' – 834'	9.625	40	J-55	BTC	New	1.55	6.81	18.88
8.75	3927'	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.72	2.65	2.09
8.75	8711'	4000' – 8970'	7.625	29.7	HC L-80	Flush Joint	New	2.70	2.23	2.75
6.75	8611'	0' – 8870'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.62	2.15
6.75	9850'	8870' - 23253'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.36	5.33

- Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2, 3.B.1
- 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 +/- 834'

Lead: 170 sxs EconoCem-HLTRRC (mixed at 12.9 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 +/- 8970'

1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 250 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6260

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: 700 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 (6260') 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 include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 +/- 23253'

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8670 feet

Tail: 990 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9453 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 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2545 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, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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' - 834'		12.25	FW/Native	8.7-9.2	35-40	NC
834' - 8970'		8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8970' - 23253'		6.75	OBM	9.2-9.7	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 165 to 185 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 4712 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 - Brushy Draw 30 Fed 122H

Measured Depth: 23252.00 ft

TVD RKB: 9850.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 398301.39 ft

Easting: 626484.92 ft

RKB: 3170.00 ft

Ground Level: 3140.00 ft

North Reference: Grid

Convergence Angle: 0.22 Deg

Site: BD 30 Pad B

Slot: Brushy Draw 30 Fed 122H

Plan Sections									
Brushy Draw 30 Fed 122H									
Measured			TVD			Build		Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	Target
0	0	0	0	0	0	0	0	0	

Released to Industry: 6/23/2025 12:43:38 PM

Received by OCD: 6/26/2025 7:44:36 AM

1500	0	0	1500	0	0	0	0	0
2276.88	15.54	88.03	2267.39	3.61	104.63	2	0	2
6911.46	15.54	88.03	6732.6	46.4	1345.37	0	0	0
7688.35	0	0	7500	50	1450	-2	0	2
9453.35	0	0	9265	50	1450	0	0	0
9903.35	45	161	9670.14	-108.67	1504.63	10	0	10
10382.99	90	179.75	9850.38	-533.97	1564.42	9.38	3.91	10
103252.62	90	179.75	9850	-13403.48	1619.3	0	0	0 BHL 2

Position Brushy Draw
Uncertainty 30 Fed 122H

Measured		TVD		Highside		Lateral		Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor Tool
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	0	0	0	0	0	0	0	2.297	0	0	0	0	OWSG 0 MWD+IFR1+ MS
100	0	0	100	0.358	0	0.358	0	2.299	0	0	0.358	0.358	OWSG 0 MWD+IFR1+ MS
200	0	0	200	0.717	0	0.717	0	2.307	0	0	0.717	0.717	OWSG 0 MWD+IFR1+ MS
300	0	0	300	1.075	0	1.075	0	2.321	0	0	1.075	1.075	OWSG 0 MWD+IFR1+ MS
400	0	0	400	1.434	0	1.434	0	2.34	0	0	1.434	1.434	OWSG 0 MWD+IFR1+ MS
500	0	0	500	1.792	0	1.792	0	2.364	0	0	1.792	1.792	OWSG 0 MWD+IFR1+ MS
600	0	0	600	2.151	0	2.151	0	2.393	0	0	2.151	2.151	OWSG 0 MWD+IFR1+ MS
700	0	0	700	2.509	0	2.509	0	2.428	0	0	2.509	2.509	OWSG 0 MWD+IFR1+ MS
800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	OWSG 0 MWD+IFR1+ MS

900	0	0	900	3.225	0	3.225	0	2.511	0	0	3.225	3.225	OWSG 0 MWD+IFR1+ MS
1000	0	0	1000	3.585	0	3.585	0	2.559	0	0	3.585	3.585	OWSG 0 MWD+IFR1+ MS
1100	0	0	1100	3.942	0	3.942	0	2.613	0	0	3.942	3.942	OWSG 0 MWD+IFR1+ MS
1200	0	0	1200	4.301	0	4.301	0	2.67	0	0	4.301	4.301	OWSG 0 MWD+IFR1+ MS
1300	0	0	1300	4.659	0	4.659	0	2.731	0	0	4.659	4.659	OWSG 0 MWD+IFR1+ MS
1400	0	0	1400	5.018	0	5.018	0	2.797	0	0	5.018	5.018	OWSG 0 MWD+IFR1+ MS
1500	0	0	1500	5.377	0	5.377	0	2.866	0	0	5.377	5.377	OWSG 0 MWD+IFR1+ MS
1600	1.999	88.02	1599.98	5.723	0	5.726	0	2.938	0	0	5.726	5.726	OWSG 0 MWD+IFR1+ MS
1700	4	88.02	1699.838	6.057	0	6.068	0	3.013	0	0	6.07	6.068	OWSG 0 MWD+IFR1+ MS
1800	6	88.02	1799.452	6.385	0	6.411	0	3.089	0	0	6.415	6.411	OWSG 1.317 MWD+IFR1+ MS
1900	7.999	88.02	1898.702	6.708	0	6.755	0	3.165	0	0	6.761	6.755	OWSG 2.773 MWD+IFR1+ MS
2000	10	88.02	1997.465	7.026	0	7.1	0	3.247	0	0	7.108	7.1	OWSG 4.678 MWD+IFR1+ MS
2100	11.99	88.02	2095.623	7.339	0	7.447	0	3.33	0	0	7.456	7.446	OWSG 7.003 MWD+IFR1+ MS
2200	14	88.02	2193.055	7.645	0	7.795	0	3.416	0	0	7.804	7.794	OWSG 11.572 MWD+IFR1+ MS
2276.8	15.53	88.02	2267.395	7.879	0	8.064	0	3.484	0	0	8.074	8.063	OWSG 14.732 MWD+IFR1+ MS
2300	15.53	88.02	2289.668	7.961	0	8.145	0	3.504	0	0	8.156	8.144	OWSG 15.003 MWD+IFR1+ MS
2400	15.53	88.02	2386.014	8.322	0	8.499	0	3.614	0	0	8.504	8.496	OWSG 33.414 MWD+IFR1+ MS

2500	15.53	88.02	2482.359	8.686	0	8.855	0	3.728	0	0	8.859	8.848	52.269	OWSG MWD+IFR1+ MS
2600	15.53	88.02	2578.704	9.053	0	9.215	0	3.847	0	0	9.218	9.202	61.299	OWSG MWD+IFR1+ MS
2700	15.53	88.02	2675.05	9.424	0	9.577	0	3.971	0	0	9.58	9.559	64.876	OWSG MWD+IFR1+ MS
2800	15.53	88.02	2771.395	9.798	0	9.941	0	4.099	0	0	9.945	9.919	66.331	OWSG MWD+IFR1+ MS
2900	15.53	88.02	2867.741	10.17	0	10.306	0	4.231	0	0	10.31	10.277	68.95	OWSG MWD+IFR1+ MS
3000	15.53	88.02	2964.086	10.552	0	10.673	0	4.367	0	0	10.678	10.644	66.698	OWSG MWD+IFR1+ MS
3100	15.53	88.02	3060.432	10.931	0	11.042	0	4.507	0	0	11.047	11.008	67.254	OWSG MWD+IFR1+ MS
3200	15.53	88.02	3156.777	11.311	0	11.412	0	4.649	0	0	11.417	11.373	67.562	OWSG MWD+IFR1+ MS
3300	15.53	88.02	3253.123	11.696	0	11.787	0	4.795	0	0	11.792	11.745	67.709	OWSG MWD+IFR1+ MS
3400	15.53	88.02	3349.468	12.083	0	12.159	0	4.944	0	0	12.165	12.116	66.063	OWSG MWD+IFR1+ MS
3500	15.53	88.02	3445.814	12.466	0	12.535	0	5.096	0	0	12.542	12.486	67.708	OWSG MWD+IFR1+ MS
3600	15.53	88.02	3542.159	12.855	0	12.909	0	5.252	0	0	12.917	12.859	66.251	OWSG MWD+IFR1+ MS
3700	15.53	88.02	3638.505	13.244	0	13.287	0	5.409	0	0	13.295	13.234	66.234	OWSG MWD+IFR1+ MS
3800	15.53	88.02	3734.85	13.633	0	13.662	0	5.57	0	0	13.671	13.609	64.935	OWSG MWD+IFR1+ MS
3900	15.53	88.02	3831.196	14.023	0	14.041	0	5.733	0	0	14.051	13.984	64.93	OWSG MWD+IFR1+ MS
4000	15.53	88.02	3927.541	14.414	0	14.421	0	5.899	0	0	14.431	14.361	64.885	OWSG MWD+IFR1+ MS
4100	15.53	88.02	4023.886	14.808	0	14.801	0	6.068	0	0	14.813	14.741	63.773	OWSG MWD+IFR1+ MS

4200	15.53	88.02	4120.232	15.2	0	15.178	0	6.239	0	0	15.191	15.117	62.726	OWSG MWD+IFR1+ MS
4300	15.53	88.02	4216.577	15.595	0	15.558	0	6.412	0	0	15.573	15.497	61.745	OWSG MWD+IFR1+ MS
4400	15.53	88.02	4312.923	15.987	0	15.94	0	6.589	0	0	15.955	15.876	61.795	OWSG MWD+IFR1+ MS
4500	15.53	88.02	4409.268	16.383	0	16.321	0	6.767	0	0	16.338	16.256	60.911	OWSG MWD+IFR1+ MS
4600	15.53	88.02	4505.614	16.778	0	16.703	0	6.948	0	0	16.721	16.638	60.087	OWSG MWD+IFR1+ MS
4700	15.53	88.02	4601.959	17.174	0	17.085	0	7.131	0	0	17.104	17.019	59.308	OWSG MWD+IFR1+ MS
4800	15.53	88.02	4698.305	17.57	0	17.47	0	7.316	0	0	17.49	17.401	59.393	OWSG MWD+IFR1+ MS
4900	15.53	88.02	4794.65	17.966	0	17.852	0	7.504	0	0	17.874	17.783	58.691	OWSG MWD+IFR1+ MS
5000	15.53	88.02	4890.996	18.365	0	18.235	0	7.694	0	0	18.259	18.166	57.264	OWSG MWD+IFR1+ MS
5100	15.53	88.02	4987.341	18.761	0	18.617	0	7.886	0	0	18.643	18.548	56.672	OWSG MWD+IFR1+ MS
5200	15.53	88.02	5083.687	19.16	0	19.003	0	8.081	0	0	19.03	18.933	56.113	OWSG MWD+IFR1+ MS
5300	15.53	88.02	5180.032	19.556	0	19.386	0	8.278	0	0	19.415	19.315	55.598	OWSG MWD+IFR1+ MS
5400	15.53	88.02	5276.377	19.955	0	19.772	0	8.476	0	0	19.802	19.7	55.112	OWSG MWD+IFR1+ MS
5500	15.53	88.02	5372.723	20.354	0	20.155	0	8.678	0	0	20.188	20.084	54.011	OWSG MWD+IFR1+ MS
5600	15.53	88.02	5469.068	20.752	0	20.541	0	8.881	0	0	20.575	20.468	53.611	OWSG MWD+IFR1+ MS
5700	15.53	88.02	5565.414	21.151	0	20.927	0	9.087	0	0	20.963	20.853	53.234	OWSG MWD+IFR1+ MS
5800	15.53	88.02	5661.759	21.552	0	21.311	0	9.295	0	0	21.35	21.239	51.716	OWSG MWD+IFR1+ MS

5900	15.53	88.02	5758.105	21.951	0	21.697	0	9.505	0	0	21.738	21.624	51.428	OWSG MWD+IFR1+ MS
6000	15.53	88.02	5854.45	22.351	0	22.083	0	9.718	0	0	22.126	22.01	50.616	OWSG MWD+IFR1+ MS
6100	15.53	88.02	5950.796	22.752	0	22.47	0	9.932	0	0	22.515	22.396	49.857	OWSG MWD+IFR1+ MS
6200	15.53	88.02	6047.141	23.152	0	22.856	0	10.149	0	0	22.904	22.782	49.15	OWSG MWD+IFR1+ MS
6300	15.53	88.02	6143.487	23.553	0	23.242	0	10.368	0	0	23.292	23.168	48.491	OWSG MWD+IFR1+ MS
6400	15.53	88.02	6239.832	23.953	0	23.628	0	10.588	0	0	23.681	23.554	47.879	OWSG MWD+IFR1+ MS
6500	15.53	88.02	6336.178	24.353	0	24.015	0	10.812	0	0	24.07	23.94	47.309	OWSG MWD+IFR1+ MS
6600	15.53	88.02	6432.523	24.754	0	24.401	0	11.036	0	0	24.46	24.328	46.335	OWSG MWD+IFR1+ MS
6700	15.53	88.02	6528.869	25.157	0	24.79	0	11.265	0	0	24.85	24.716	45.857	OWSG MWD+IFR1+ MS
6800	15.53	88.02	6625.214	25.556	0	25.176	0	11.498	0	0	25.239	25.101	45.413	OWSG MWD+IFR1+ MS
6900	15.53	88.02	6721.559	25.958	0	25.563	0	11.73	0	0	25.629	25.488	44.602	OWSG MWD+IFR1+ MS
6911.4	15.53	88.02	6732.605	26.004	0	25.608	0	11.756	0	0	25.674	25.533	44.603	OWSG MWD+IFR1+ MS
7000	13.76	88.02	6818.258	26.391	0	25.947	0	11.962	0	0	26.017	25.873	43.846	OWSG MWD+IFR1+ MS
7100	11.76	88.02	6915.781	26.794	0	26.328	0	12.194	0	0	26.4	26.254	43.51	OWSG MWD+IFR1+ MS
7200	9.766	88.02	7014.015	27.16	0	26.702	0	12.426	0	0	26.775	26.627	43.19	OWSG MWD+IFR1+ MS
7300	7.766	88.02	7112.842	27.49	0	27.068	0	12.653	0	0	27.143	26.993	42.882	OWSG MWD+IFR1+ MS
7400	5.766	88.02	7212.14	27.784	0	27.428	0	12.876	0	0	27.505	27.353	42.586	OWSG MWD+IFR1+ MS

7500	3.766	88.02	7311.789	28.039	0	27.779	0	13.1	0	0	27.857	27.704	42.635	OWSG MWD+IFR1+ MS
7600	1.766	88.02	7411.667	28.256	0	28.126	0	13.315	0	0	28.201	28.048	43.672	OWSG MWD+IFR1+ MS
7688.3	0	0	7500	28.415	0	28.417	0	13.509	0	0	28.492	28.339	44.671	OWSG MWD+IFR1+ MS
7700	0	0	7511.653	28.452	0	28.453	0	13.535	0	0	28.529	28.376	44.671	OWSG MWD+IFR1+ MS
7800	0	0	7611.653	28.777	0	28.773	0	13.751	0	0	28.851	28.699	45.653	OWSG MWD+IFR1+ MS
7900	0	0	7711.653	29.102	0	29.091	0	13.971	0	0	29.172	29.02	46.944	OWSG MWD+IFR1+ MS
8000	0	0	7811.653	29.428	0	29.413	0	14.199	0	0	29.496	29.344	47.892	OWSG MWD+IFR1+ MS
8100	0	0	7911.653	29.754	0	29.734	0	14.426	0	0	29.82	29.668	48.823	OWSG MWD+IFR1+ MS
8200	0	0	8011.653	30.082	0	30.057	0	14.656	0	0	30.145	29.993	49.733	OWSG MWD+IFR1+ MS
8300	0	0	8111.653	30.409	0	30.379	0	14.893	0	0	30.47	30.318	50.625	OWSG MWD+IFR1+ MS
8400	0	0	8211.653	30.738	0	30.702	0	15.129	0	0	30.796	30.643	51.791	OWSG MWD+IFR1+ MS
8500	0	0	8311.653	31.068	0	31.027	0	15.372	0	0	31.124	30.971	52.633	OWSG MWD+IFR1+ MS
8600	0	0	8411.653	31.397	0	31.353	0	15.614	0	0	31.452	31.298	53.452	OWSG MWD+IFR1+ MS
8700	0	0	8511.653	31.718	0	31.67	0	15.865	0	0	31.771	31.617	53.966	OWSG MWD+IFR1+ MS
8800	0	0	8611.653	32.047	0	32	0	16.115	0	0	32.1	31.947	53.918	OWSG MWD+IFR1+ MS
8900	0	0	8711.653	32.388	0	32.326	0	16.371	0	0	32.436	32.278	56.548	OWSG MWD+IFR1+ MS
9000	0	0	8811.653	32.711	0	32.65	0	16.628	0	0	32.759	32.602	56.488	OWSG MWD+IFR1+ MS

9100	0	0	8911.653	33.045	0	32.985	0	16.888	0	0	33.093	32.937	56.428	OWSG MWD+IFR1+ MS
9200	0	0	9011.653	33.377	0	33.317	0	17.152	0	0	33.424	33.269	56.37	OWSG MWD+IFR1+ MS
9300	0	0	9111.653	33.719	0	33.645	0	17.421	0	0	33.763	33.602	58.758	OWSG MWD+IFR1+ MS
9400	0	0	9211.653	34.044	0	33.971	0	17.692	0	0	34.087	33.927	58.69	OWSG MWD+IFR1+ MS
9453.3	0	0	9265	34.234	0	34.147	0	17.838	0	0	34.274	34.107	60.893	OWSG MWD+IFR1+ MS
9500	4.665	161	9311.602	34.433	0	34.271	0	17.967	0	0	34.424	34.263	58.468	OWSG MWD+IFR1+ MS
9600	14.66	161	9410.057	34.248	0	34.587	0	18.243	0	0	34.759	34.58	59.435	OWSG MWD+IFR1+ MS
9700	24.66	161	9504.105	33.326	0	34.91	0	18.515	0	0	35.088	34.897	55.979	OWSG MWD+IFR1+ MS
9800	34.66	161	9590.888	31.744	0	35.23	0	18.778	0	0	35.403	35.208	51.282	OWSG MWD+IFR1+ MS
9903.3	45	161	9670.142	29.53	0	35.526	0	19.042	0	0	35.68	35.496	47.188	OWSG MWD+IFR1+ MS
10000	53.83	166.1	9732.978	27.085	0	35.795	0	19.282	0	0	35.891	35.733	37.277	OWSG MWD+IFR1+ MS
10100	63.17	170.3	9785.18	24.464	0	36.024	0	19.527	0	0	36.06	35.926	21.649	OWSG MWD+IFR1+ MS
10200	72.6	173.9	9822.79	22.142	0	36.219	0	19.774	0	0	36.222	36.042	0.614	OWSG MWD+IFR1+ MS
10300	82.1	177.1	9844.663	20.597	0	36.351	0	20.022	0	0	36.358	36.084	-12.456	OWSG MWD+IFR1+ MS
10382	90	179.7	9850.376	20.234	0	36.416	0	20.234	0	0	36.456	36.069	-19.226	OWSG MWD+IFR1+ MS
10400	90	179.7	9850.376	20.278	0	36.429	0	20.278	0	0	36.479	36.073	-20.881	OWSG MWD+IFR1+ MS
10500	90	179.7	9850.376	20.552	0	36.512	0	20.552	0	0	36.605	36.029	-23.983	OWSG MWD+IFR1+ MS

10600	90	179.7	9850.376	20.852	0	36.609	0	20.852	0	0	36.745	35.997	-25.67	OWSG MWD+IFR1+ MS
10700	90	179.7	9850.376	21.178	0	36.705	0	21.178	0	0	36.886	35.964	-26.72	OWSG MWD+IFR1+ MS
10800	90	179.7	9850.376	21.527	0	36.829	0	21.527	0	0	37.045	35.926	-26.575	OWSG MWD+IFR1+ MS
10900	90	179.7	9850.376	21.9	0	36.951	0	21.9	0	0	37.207	35.898	-26.716	OWSG MWD+IFR1+ MS
11000	90	179.7	9850.376	22.293	0	37.087	0	22.293	0	0	37.378	35.873	-26.612	OWSG MWD+IFR1+ MS
11100	90	179.7	9850.376	22.707	0	37.236	0	22.707	0	0	37.559	35.851	-26.349	OWSG MWD+IFR1+ MS
11200	90	179.7	9850.376	23.139	0	37.398	0	23.139	0	0	37.751	35.831	-25.986	OWSG MWD+IFR1+ MS
11300	90	179.7	9850.376	23.59	0	37.572	0	23.59	0	0	37.952	35.814	-25.553	OWSG MWD+IFR1+ MS
11400	90	179.7	9850.376	24.058	0	37.758	0	24.058	0	0	38.165	35.811	-25.205	OWSG MWD+IFR1+ MS
11500	90	179.7	9850.376	24.542	0	37.944	0	24.542	0	0	38.375	35.796	-24.802	OWSG MWD+IFR1+ MS
11600	90	179.7	9850.376	25.042	0	38.155	0	25.042	0	0	38.606	35.785	-24.26	OWSG MWD+IFR1+ MS
11700	90	179.7	9850.376	25.556	0	38.365	0	25.556	0	0	38.838	35.786	-23.9	OWSG MWD+IFR1+ MS
11800	90	179.7	9850.376	26.083	0	38.6	0	26.083	0	0	39.088	35.779	-23.339	OWSG MWD+IFR1+ MS
11900	90	179.7	9850.376	26.623	0	38.833	0	26.623	0	0	39.339	35.783	-22.938	OWSG MWD+IFR1+ MS
12000	90	179.7	9850.376	27.175	0	39.078	0	27.175	0	0	39.599	35.789	-22.514	OWSG MWD+IFR1+ MS
12100	90	179.7	9850.376	27.738	0	39.333	0	27.738	0	0	39.868	35.785	-22.028	OWSG MWD+IFR1+ MS
12200	90	179.7	9850.376	28.311	0	39.6	0	28.311	0	0	40.148	35.793	-21.605	OWSG MWD+IFR1+ MS

12300	90	179.7	9850.376	28.895	0	39.878	0	28.895	0	0	40.436	35.804	-21.168	OWSG MWD+IFR1+ MS
12400	90	179.7	9850.376	29.489	0	40.153	0	29.489	0	0	40.723	35.814	-20.795	OWSG MWD+IFR1+ MS
12500	90	179.7	9850.376	30.09	0	40.452	0	30.09	0	0	41.03	35.827	-20.371	OWSG MWD+IFR1+ MS
12600	90	179.7	9850.376	30.7	0	40.748	0	30.7	0	0	41.335	35.839	-19.994	OWSG MWD+IFR1+ MS
12700	90	179.7	9850.376	31.318	0	41.067	0	31.318	0	0	41.66	35.853	-19.578	OWSG MWD+IFR1+ MS
12800	90	179.7	9850.376	31.937	0	41.383	0	31.937	0	0	41.982	35.867	-19.208	OWSG MWD+IFR1+ MS
12900	90	179.7	9850.376	32.573	0	41.708	0	32.573	0	0	42.315	35.895	-18.875	OWSG MWD+IFR1+ MS
13000	90	179.7	9850.376	33.211	0	42.044	0	33.211	0	0	42.654	35.911	-18.511	OWSG MWD+IFR1+ MS
13100	90	179.7	9850.376	33.853	0	42.388	0	33.853	0	0	43.002	35.928	-18.152	OWSG MWD+IFR1+ MS
13200	90	179.7	9850.376	34.496	0	42.741	0	34.496	0	0	43.359	35.958	-17.828	OWSG MWD+IFR1+ MS
13300	90	179.7	9850.376	35.157	0	43.091	0	35.157	0	0	43.713	35.975	-17.507	OWSG MWD+IFR1+ MS
13400	90	179.7	9850.376	35.819	0	43.461	0	35.819	0	0	44.085	36.007	-17.191	OWSG MWD+IFR1+ MS
13500	90	179.7	9850.376	36.483	0	43.829	0	36.483	0	0	44.455	36.038	-16.904	OWSG MWD+IFR1+ MS
13600	90	179.7	9850.376	37.162	0	44.216	0	37.162	0	0	44.844	36.07	-16.603	OWSG MWD+IFR1+ MS
13700	90	179.7	9850.376	37.829	0	44.599	0	37.829	0	0	45.228	36.089	-16.302	OWSG MWD+IFR1+ MS
13800	90	179.7	9850.376	38.51	0	44.99	0	38.51	0	0	45.62	36.122	-16.026	OWSG MWD+IFR1+ MS
13900	90	179.7	9850.376	39.192	0	45.389	0	39.192	0	0	46.02	36.155	-15.761	OWSG MWD+IFR1+ MS

14000	90	179.7	9850.376	39.887	0	45.796	0	39.887	0	0	46.426	36.189	-15.493	OWSG MWD+IFR1+ MS
14100	90	179.7	9850.376	40.571	0	46.21	0	40.571	0	0	46.839	36.236	-15.248	OWSG MWD+IFR1+ MS
14200	90	179.7	9850.376	41.267	0	46.62	0	41.267	0	0	47.249	36.27	-15.01	OWSG MWD+IFR1+ MS
14300	90	179.7	9850.376	41.964	0	47.047	0	41.964	0	0	47.675	36.305	-14.756	OWSG MWD+IFR1+ MS
14400	90	179.7	9850.376	42.661	0	47.471	0	42.661	0	0	48.099	36.339	-14.527	OWSG MWD+IFR1+ MS
14500	90	179.7	9850.376	43.37	0	47.912	0	43.37	0	0	48.538	36.388	-14.296	OWSG MWD+IFR1+ MS
14600	90	179.7	9850.376	44.068	0	48.349	0	44.068	0	0	48.973	36.423	-14.074	OWSG MWD+IFR1+ MS
14700	90	179.7	9850.376	44.777	0	48.792	0	44.777	0	0	49.415	36.471	-13.868	OWSG MWD+IFR1+ MS
14800	90	179.7	9850.376	45.497	0	49.242	0	45.497	0	0	49.862	36.507	-13.649	OWSG MWD+IFR1+ MS
14900	90	179.7	9850.376	46.206	0	49.697	0	46.206	0	0	50.316	36.556	-13.45	OWSG MWD+IFR1+ MS
15000	90	179.7	9850.376	46.925	0	50.158	0	46.925	0	0	50.775	36.605	-13.254	OWSG MWD+IFR1+ MS
15100	90	179.7	9850.376	47.634	0	50.615	0	47.634	0	0	51.23	36.654	-13.071	OWSG MWD+IFR1+ MS
15200	90	179.7	9850.376	48.363	0	51.088	0	48.363	0	0	51.699	36.704	-12.877	OWSG MWD+IFR1+ MS
15300	90	179.7	9850.376	49.082	0	51.556	0	49.082	0	0	52.165	36.753	-12.699	OWSG MWD+IFR1+ MS
15400	90	179.7	9850.376	49.81	0	52.039	0	49.81	0	0	52.646	36.803	-12.516	OWSG MWD+IFR1+ MS
15500	90	179.7	9850.376	50.527	0	52.518	0	50.527	0	0	53.122	36.852	-12.344	OWSG MWD+IFR1+ MS
15600	90	179.7	9850.376	51.254	0	53.002	0	51.254	0	0	53.603	36.902	-12.175	OWSG MWD+IFR1+ MS

15700	90	179.7	9850.376	51.99	0	53.491	0	51.99	0	0	54.088	36.952	-12.009	OWSG MWD+IFR1+ MS
15800	90	179.7	9850.376	52.716	0	53.985	0	52.716	0	0	54.579	37.015	-11.853	OWSG MWD+IFR1+ MS
15900	90	179.7	9850.376	53.451	0	54.483	0	53.451	0	0	55.074	37.065	-11.693	OWSG MWD+IFR1+ MS
16000	90	179.7	9850.376	54.185	0	54.986	0	54.185	0	0	55.573	37.116	-11.535	OWSG MWD+IFR1+ MS
16100	90	179.7	9850.376	54.918	0	55.484	0	54.918	0	0	56.069	37.179	-11.393	OWSG MWD+IFR1+ MS
16200	90	179.7	9850.376	55.651	0	55.996	0	55.651	0	0	56.577	37.242	-11.247	OWSG MWD+IFR1+ MS
16300	90	179.7	9850.376	56.391	0	56.504	0	56.391	0	0	57.081	37.292	-11.106	OWSG MWD+IFR1+ MS
16400	90	179.7	9850.376	57.131	0	57.015	0	57.131	0	0	57.59	37.355	-10.97	OWSG MWD+IFR1+ MS
16500	90	179.7	9850.376	57.871	0	57.531	0	57.871	0	0	58.102	37.419	-10.836	OWSG MWD+IFR1+ MS
16600	90	179.7	9850.376	58.609	0	58.05	0	58.609	0	0	58.618	37.482	-10.704	OWSG MWD+IFR1+ MS
16700	90	179.7	9850.376	59.355	0	58.574	0	59.355	0	0	59.138	37.545	-10.577	OWSG MWD+IFR1+ MS
16800	90	179.7	9850.376	60.1	0	59.101	0	60.1	0	0	59.662	37.609	-10.449	OWSG MWD+IFR1+ MS
16900	90	179.7	9850.376	60.844	0	59.632	0	60.844	0	0	60.19	37.672	-10.326	OWSG MWD+IFR1+ MS
17000	90	179.7	9850.376	61.587	0	60.159	0	61.587	0	0	60.713	37.736	-10.207	OWSG MWD+IFR1+ MS
17100	90	179.7	9850.376	62.338	0	60.697	0	62.338	0	0	61.247	37.799	-10.087	OWSG MWD+IFR1+ MS
17200	90	179.7	9850.376	63.079	0	61.231	0	63.079	0	0	61.777	37.862	-9.972	OWSG MWD+IFR1+ MS
17300	90	179.7	9850.376	63.828	0	61.768	0	63.828	0	0	62.311	37.938	-9.864	OWSG MWD+IFR1+ MS

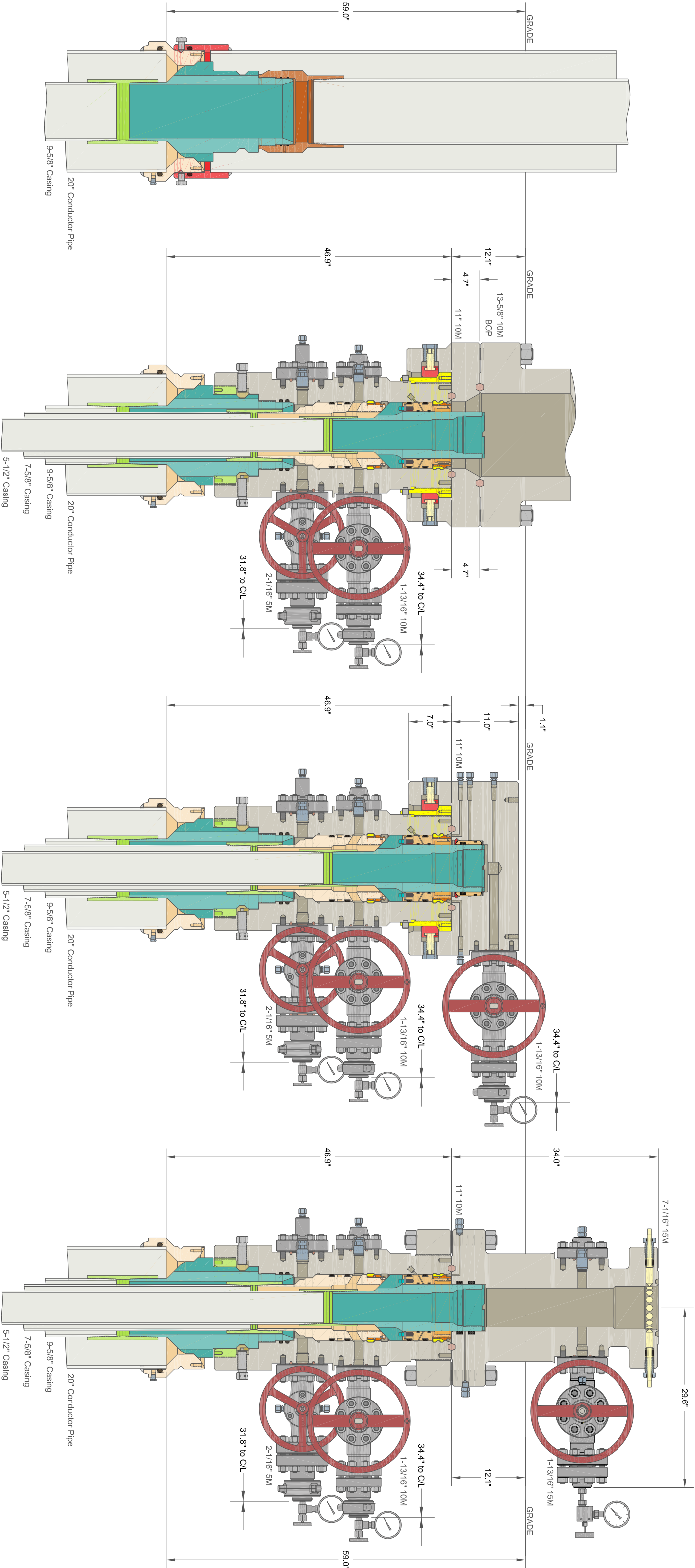
17400	90	179.7	9850.376	64.583	0	62.308	0	64.583	0	0	62.848	38.001	-9.752	OWSG MWD+IFR1+ MS
17500	90	179.7	9850.376	65.33	0	62.852	0	65.33	0	0	63.389	38.077	-9.647	OWSG MWD+IFR1+ MS
17600	90	179.7	9850.376	66.083	0	63.399	0	66.083	0	0	63.932	38.14	-9.54	OWSG MWD+IFR1+ MS
17700	90	179.7	9850.376	66.836	0	63.949	0	66.836	0	0	64.479	38.217	-9.436	OWSG MWD+IFR1+ MS
17800	90	179.7	9850.376	67.587	0	64.502	0	67.587	0	0	65.028	38.292	-9.336	OWSG MWD+IFR1+ MS
17900	90	179.7	9850.376	68.337	0	65.051	0	68.337	0	0	65.574	38.368	-9.241	OWSG MWD+IFR1+ MS
18000	90	179.7	9850.376	69.094	0	65.61	0	69.094	0	0	66.129	38.431	-9.14	OWSG MWD+IFR1+ MS
18100	90	179.7	9850.376	69.85	0	66.164	0	69.85	0	0	66.68	38.507	-9.045	OWSG MWD+IFR1+ MS
18200	90	179.7	9850.376	70.605	0	66.729	0	70.605	0	0	67.241	38.582	-8.95	OWSG MWD+IFR1+ MS
18300	90	179.7	9850.376	71.358	0	67.289	0	71.358	0	0	67.798	38.658	-8.86	OWSG MWD+IFR1+ MS
18400	90	179.7	9850.376	72.118	0	67.852	0	72.118	0	0	68.358	38.745	-8.774	OWSG MWD+IFR1+ MS
18500	90	179.7	9850.376	72.87	0	68.418	0	72.87	0	0	68.92	38.821	-8.686	OWSG MWD+IFR1+ MS
18600	90	179.7	9850.376	73.627	0	68.979	0	73.627	0	0	69.478	38.896	-8.601	OWSG MWD+IFR1+ MS
18700	90	179.7	9850.376	74.384	0	69.549	0	74.384	0	0	70.045	38.971	-8.516	OWSG MWD+IFR1+ MS
18800	90	179.7	9850.376	75.147	0	70.123	0	75.147	0	0	70.615	39.058	-8.434	OWSG MWD+IFR1+ MS
18900	90	179.7	9850.376	75.908	0	70.691	0	75.908	0	0	71.18	39.133	-8.353	OWSG MWD+IFR1+ MS
19000	90	179.7	9850.376	76.668	0	71.262	0	76.668	0	0	71.748	39.22	-8.277	OWSG MWD+IFR1+ MS

19100	90	179.7	9850.376	77.427	0	71.843	0	77.427	0	0	72.325	39.307	-8.198	OWSG MWD+IFR1+ MS
19200	90	179.7	9850.376	78.186	0	72.418	0	78.186	0	0	72.898	39.382	-8.12	OWSG MWD+IFR1+ MS
19300	90	179.7	9850.376	78.949	0	72.996	0	78.949	0	0	73.473	39.469	-8.045	OWSG MWD+IFR1+ MS
19400	90	179.7	9850.376	79.712	0	73.577	0	79.712	0	0	74.05	39.555	-7.973	OWSG MWD+IFR1+ MS
19500	90	179.7	9850.376	80.474	0	74.159	0	80.474	0	0	74.629	39.642	-7.9	OWSG MWD+IFR1+ MS
19600	90	179.7	9850.376	81.234	0	74.737	0	81.234	0	0	75.204	39.728	-7.83	OWSG MWD+IFR1+ MS
19700	90	179.7	9850.376	81.994	0	75.324	0	81.994	0	0	75.788	39.814	-7.76	OWSG MWD+IFR1+ MS
19800	90	179.7	9850.376	82.759	0	75.906	0	82.759	0	0	76.367	39.9	-7.692	OWSG MWD+IFR1+ MS
19900	90	179.7	9850.376	83.522	0	76.497	0	83.522	0	0	76.955	39.986	-7.624	OWSG MWD+IFR1+ MS
20000	90	179.7	9850.376	84.285	0	77.084	0	84.285	0	0	77.539	40.072	-7.557	OWSG MWD+IFR1+ MS
20100	90	179.7	9850.376	85.053	0	77.672	0	85.053	0	0	78.124	40.17	-7.494	OWSG MWD+IFR1+ MS
20200	90	179.7	9850.376	85.82	0	78.263	0	85.82	0	0	78.711	40.256	-7.429	OWSG MWD+IFR1+ MS
20300	90	179.7	9850.376	86.585	0	78.855	0	86.585	0	0	79.301	40.353	-7.368	OWSG MWD+IFR1+ MS
20400	90	179.7	9850.376	87.35	0	79.449	0	87.35	0	0	79.892	40.438	-7.306	OWSG MWD+IFR1+ MS
20500	90	179.7	9850.376	88.114	0	80.045	0	88.114	0	0	80.485	40.535	-7.244	OWSG MWD+IFR1+ MS
20600	90	179.7	9850.376	88.882	0	80.637	0	88.882	0	0	81.074	40.632	-7.186	OWSG MWD+IFR1+ MS
20700	90	179.7	9850.376	89.649	0	81.236	0	89.649	0	0	81.671	40.717	-7.126	OWSG MWD+IFR1+ MS

20800	90	179.7	9850.376	90.416	0	81.831	0	90.416	0	0	82.263	40.813	-7.07	OWSG MWD+IFR1+ MS
20900	90	179.7	9850.376	91.181	0	82.428	0	91.181	0	0	82.858	40.91	-7.014	OWSG MWD+IFR1+ MS
21000	90	179.7	9850.376	91.951	0	83.033	0	91.951	0	0	83.46	41.006	-6.957	OWSG MWD+IFR1+ MS
21100	90	179.7	9850.376	92.715	0	83.634	0	92.715	0	0	84.057	41.102	-6.901	OWSG MWD+IFR1+ MS
21200	90	179.7	9850.376	93.483	0	84.23	0	93.483	0	0	84.651	41.198	-6.848	OWSG MWD+IFR1+ MS
21300	90	179.7	9850.376	94.255	0	84.833	0	94.255	0	0	85.252	41.293	-6.795	OWSG MWD+IFR1+ MS
21400	90	179.7	9850.376	95.021	0	85.439	0	95.021	0	0	85.854	41.401	-6.743	OWSG MWD+IFR1+ MS
21500	90	179.7	9850.376	95.791	0	86.045	0	95.791	0	0	86.459	41.496	-6.69	OWSG MWD+IFR1+ MS
21600	90	179.7	9850.376	96.561	0	86.648	0	96.561	0	0	87.059	41.591	-6.641	OWSG MWD+IFR1+ MS
21700	90	179.7	9850.376	97.329	0	87.252	0	97.329	0	0	87.66	41.697	-6.592	OWSG MWD+IFR1+ MS
21800	90	179.7	9850.376	98.097	0	87.864	0	98.097	0	0	88.269	41.792	-6.541	OWSG MWD+IFR1+ MS
21900	90	179.7	9850.376	98.869	0	88.471	0	98.869	0	0	88.874	41.898	-6.493	OWSG MWD+IFR1+ MS
22000	90	179.7	9850.376	99.639	0	89.079	0	99.639	0	0	89.48	42.004	-6.445	OWSG MWD+IFR1+ MS
22100	90	179.7	9850.376	100.399	0	89.689	0	100.399	0	0	90.088	42.098	-6.398	OWSG MWD+IFR1+ MS
22200	90	179.7	9850.376	101.143	0	90.301	0	101.143	0	0	90.697	42.203	-6.352	OWSG MWD+IFR1+ MS
22300	90	179.7	9850.376	101.931	0	90.908	0	101.931	0	0	91.302	42.309	-6.306	OWSG MWD+IFR1+ MS
22400	90	179.7	9850.376	102.713	0	91.523	0	102.713	0	0	91.914	42.413	-6.262	OWSG MWD+IFR1+ MS

Plan Targets		Brushy Draw 30 Fed 122H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 2	10499.3	397651.12	628049.77	6680	CIRCLE
LTP 2	23102.92	385047.78	628103.96	6680	CIRCLE
BHL 2	23252.64	384897.91	628104.22	6680	CIRCLE

22500	90	179.7	9850.376	103.489	0	92.138	0	103.489	0	0	92.527	42.518	-6.217	OWSG MWD+IFR1+ MS
22600	90	179.7	9850.376	104.259	0	92.75	0	104.259	0	0	93.136	42.623	-6.174	OWSG MWD+IFR1+ MS
22700	90	179.7	9850.376	105.024	0	93.362	0	105.024	0	0	93.746	42.727	-6.13	OWSG MWD+IFR1+ MS
22800	90	179.7	9850.376	105.783	0	93.977	0	105.783	0	0	94.358	42.831	-6.088	OWSG MWD+IFR1+ MS
22900	90	179.7	9850.376	106.536	0	94.592	0	106.536	0	0	94.972	42.946	-6.046	OWSG MWD+IFR1+ MS
23000	90	179.7	9850.376	107.331	0	95.209	0	107.331	0	0	95.586	43.05	-6.005	OWSG MWD+IFR1+ MS
23100	90	179.7	9850.376	108.12	0	95.827	0	108.12	0	0	96.202	43.165	-5.964	OWSG MWD+IFR1+ MS
23200	90	179.7	9850.376	108.858	0	96.446	0	108.858	0	0	96.819	43.268	-5.924	OWSG MWD+IFR1+ MS
23252	90	179.7	9850	109.27	0	96.772	0	109.27	0	0	97.144	43.325	-5.903	OWSG MWD+IFR1+ MS



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CACTUS WELLHEAD LLC			ALL DIMENSIONS APPROXIMATE		
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			XTO ENERGY INC ICARUS PAD		
DRAWN		DLE	18JAN21		
APPRV					
DRAWING NO.		HBE0000479			

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order (OOGO) No. 2, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. OOGO No. 2, Section I.D.2 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since OOGO No. 2 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. OOGO No. 2 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

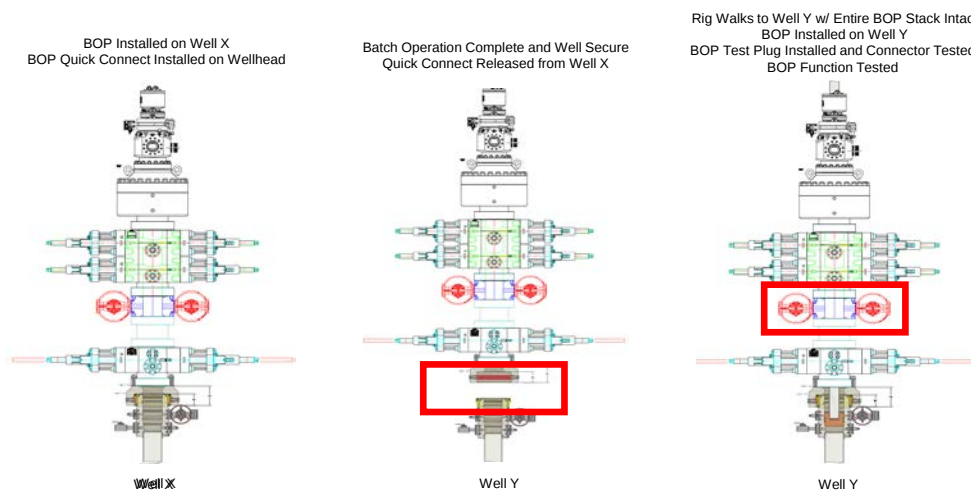
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the OOGO No.2.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

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.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

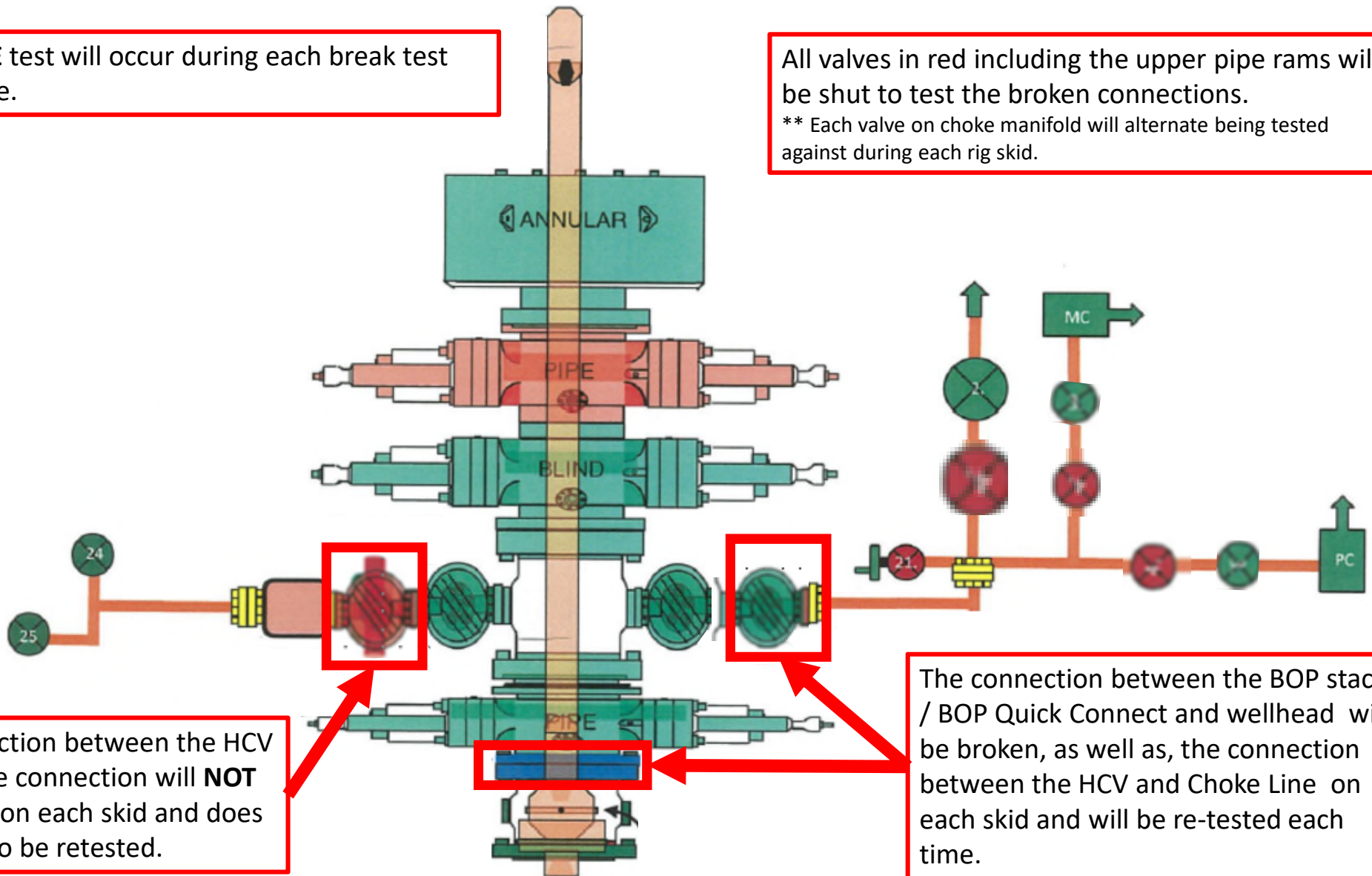
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

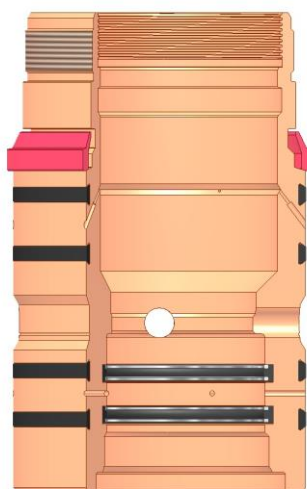
1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

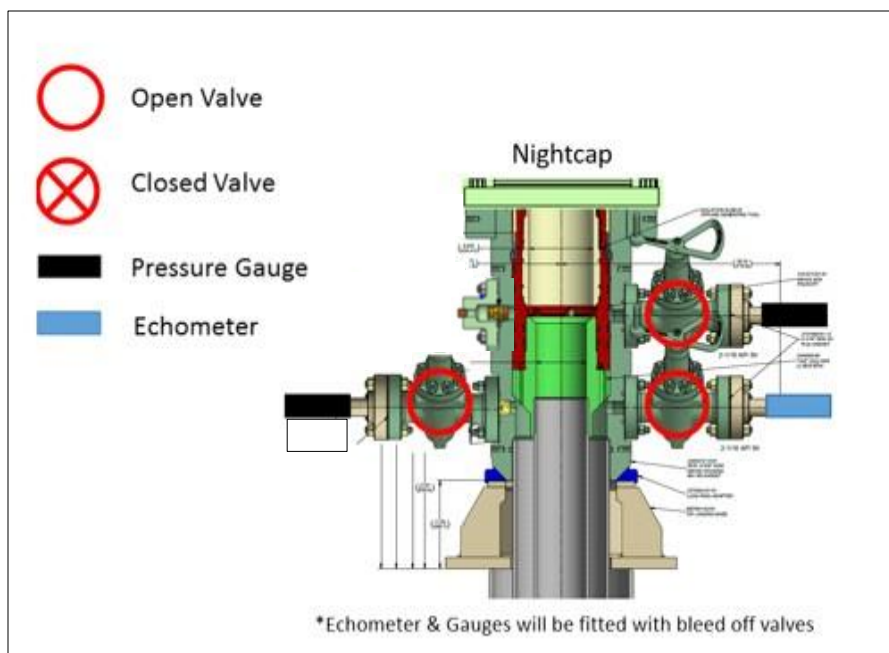
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



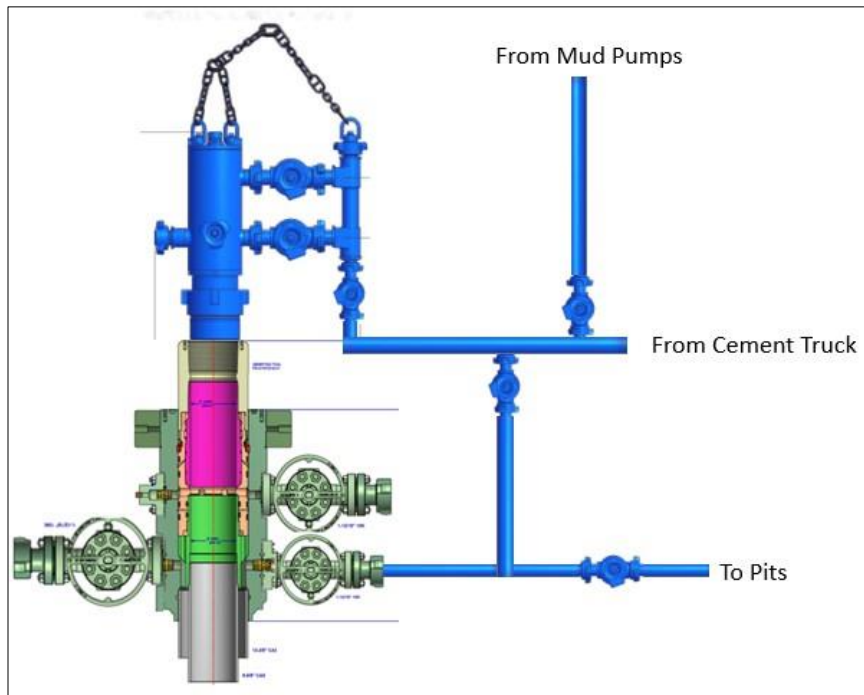
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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

Action 479067

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 479067
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	10/23/2025
ward.rikala	Administrative order required for non-standard spacing unit prior to production.	10/23/2025