Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUR	EAU OF LAND MANAGEMENT		3. Lease Serial No.	NMNM102033					
	IOTICES AND REPORTS ON V		6. If Indian, Allottee	or Tribe Name					
	orm for proposals to drill or to Use Form 3160-3 (APD) for su								
	TRIPLICATE - Other instructions on pag	ge 2	7. If Unit of CA/Agre	eement, Name and/or No.					
1. Type of Well Oil Well Gas W	Vell Other		8. Well Name and No	D. BRUSHY DRAW 31 FEDERAL/124H					
2. Name of Operator XTO PERMIAN	<del></del>		9. API Well No. 300	15/15/107					
		(include area and							
3a. Address 6401 Holiday Hill Road,	Bldg 5, Midland, TX 7970 3b. Phone No. (432) 682-88		7	PURPLE SAGE/null					
4. Location of Well (Footage, Sec., T., R SEC 31/T25S/R30E/NMP	C.,M., or Survey Description)		11. Country or Parish EDDY/NM	ı, State					
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATUR	E OF NOTICE, REPORT OR OT	HER DATA					
TYPE OF SUBMISSION		TY	PE OF ACTION						
Notice of Intent	Acidize Deep	pen raulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity					
Subsequent Report		Construction	Recomplete	✓ Other					
Subsequent Report	Change Plans Plug	and Abandon	Temporarily Abandon						
Final Abandonment Notice	Convert to Injection Plug	Back	Water Disposal						
is ready for final inspection.)  **Spacing, Casing/Cement, Dr  XTO Permian Operating, LLC  No Additional Surface Disturbate  Change formation from Wolfcate  Change Pool fr/Purple Sage; Version of the control of the c	requests permission to make the follow ance amp to Bone Spring Volfcamp (98220) to Corral Canyon; Bo	ing changes to th	ne original APD:	the operator has determined that the site					
· ·	10FWL to 2460FNL & 1870FEL								
Casing/Cement design per the Batch & Spudder Rig	attached drilling program.								
Continued on page 3 additiona	Iinformation								
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)		0 " (						
STEPHANIE RABADUE / Ph: (432	) 620-6714	Title	y Coordinator						
Signature		Date	04/22/2	2022					
	THE SPACE FOR FED	ERAL OR ST	ATE OFICE USE						
Approved by									
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Title	oleum Engineer	04/27/2022 Date					
	ned. Approval of this notice does not warran equitable title to those rights in the subject le duct operations thereon.		ARLSBAD						

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: NWNE / 223 FNL / 2344 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.093001 / LONG: -103.919596 ( TVD: 0 feet, MD: 0 feet )

PPP: NENW / 300 FNL / 2310 FEL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092704 / LONG: -103.92183 ( TVD: 10879 feet, MD: 11300 feet )

BHL: SENW / 2440 FNL / 2310 FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057692 / LONG: -103.921774 ( TVD: 10879 feet, MD: 24093 feet )

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

# 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

<sup>1</sup> API Number 30-015-45197	er <sup>2</sup> Pool Code 1 3 3 5 4	<sup>3</sup> Pool Name Corral Canyon; Bone Spring, South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name	<sup>6</sup> Well Number
	BRUS	SHY DRAW 31 FED	124H
<sup>7</sup> OGRID No.		<sup>8</sup> Operator Name	<sup>9</sup> Elevation
373075	XTO PERM	MIAN OPERATING, LLC	3,099'

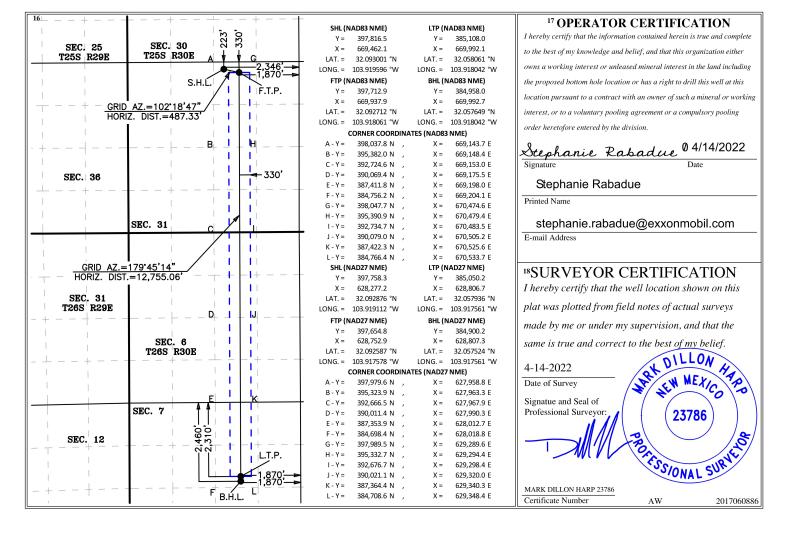
# <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	31	25 S	30 E		223	NORTH	2,346	EAST	EDDY

# <sup>11</sup> 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	25 S	30 E		2,460	NORTH	1,870	EAST	EDDY
12 Dedicated Acres	<sup>13</sup> Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.				
400									

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.



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

XTO Energy Inc.
Brushy Draw 31 Federal 124H
Projected TD: 22473' MD / 9340' 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	764'	Water
Top of Salt	914'	Water
Base of Salt	3672'	Water
Delaware	3800'	Water
Brushy Canyon	6290'	Water/Oil/Gas
Bone Spring	7370'	Water
1st Bone Spring Ss	8265'	Water/Oil/Gas
2nd Bone Spring Ss	8920'	Water/Oil/Gas
Target/Land Curve	9330'	Water/Oil/Gas

<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

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 @ 864' (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 8740' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22473 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8440 feet).

# 3. Casing Design

Hole Size	TVD	Measured Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	864'	0' - 864'	9.625	40	J-55	втс	New	1.59	6.58	18.23
8.75	3984'	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.36	2.65	2.15
8.75	8747'	4000' – 8740'	7.625	29.7	HC L-80	Flush Joint	New	3.17	2.29	2.88
6.75	8547'	0' – 8640'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.84	2.26
6.75	9340'	8640' - 22473'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.63	5.78

- · 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.
- $\cdot\,5.5\,\text{Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35$
- 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

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

#### 4. Cement Program

#### Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 864'

Lead: 180 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 +/- 8740'

<u>1st Stage</u>

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

TOC: Surface

Tail: 220 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6290

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: 710 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 (6290') 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 +/- 22473'

 Lead: 10 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:
 8440 feet

 Tail: 980 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:
 8820 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 2171 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 nippling up on the 9.625, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling 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	Viscosity	Fluid Loss
INTERVAL	Tible Size	waa rype	(ppg)	(sec/qt)	(cc)
0' - 864'	12.25	FW/Native	8.7-9.2	35-40	NC
864' - 8740'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8740' - 22473'	6.75	ОВМ	8.7-9.2	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 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4225 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 124H

Nessured Death: 22472.00 ft

TVP/RKB: 9340.00 ft

Carographic New Mexico
Reference East-NAD
System: 27

397759.69 ft Northing:

628283.79 ft Easting: 3170.00 ft Ground

RKB:

3140.00 ft

Level: North

Grid

0.22 Deg Reference: Convergence Angle: BD 31 Pad A

Site:

Brushy Draw 30 Fed 124H

Slot:

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OWSG MWD+IFR	MS OWSG 0 MWD+IFR1+ MS	OWSG MWD+IFR1+: MS	OWSG MWD+IFR1+6733	OWSG MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 0 MWD+IFR1+ MS	WSG IWD+IFR IS	OWSG 0 MWD+IFR1+ MS
0 2	2022	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥	0 ≥ ≥
10	~!	_	•	m	_	10	m	~1	_	•	_	10	=+	m	01	_
3.585	3.942	4.301	4.659	5.018	5.377	5.735	6.093	6.452	6.81	7.169	7.527	7.886	8.244	8.603	8.962	9.317
3.585	3.942	4.301	4.659	5.018	5.377	5.735	6.093	6.452	6.81	7.169	7.527	7.886	8.244	8.603	8.962	9.317
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
													_			
2.559	2.613	2.67	2.731	2.797	2.866	2.939	3.015	3.095	3.178	3.265	3.354	3.447	3.544	3.643	3.744	3.848
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.585	3.942	4.301	4.659	5.018	5.377	5.735	6.093	6.452	6.81	7.169	7.527	7.886	8.244	8.603	8.962	9.317
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.585	3.942	4.301	4.659	5.018	5.377	5.735	6.093	6.452	6.81	7.169	7.527	7.886	8.244	8.603	8.962	9.312
1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	9.98
1	1	Т	1	1	Η	П	1	1	Π.	2	2	2	2	2	2	2599.98
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45.41
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.999
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1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
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- Re	ceived_by	OCD. 07	<del>21/2<u>0</u>23</del>	)	PM	+	+	+	+	+	+	+	+	+	Pag	<del>e 12_of 4</del> 2
'SG /D+IFR1	MS OWSG 135 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 0.908 MWD+IFR1+ MS	OWSG 2.348 MWD+IFR1+ MS	0WSG 13.349 MWD+IFR1+ MS	0WSG 21.896 MWD+IFR1+ MS	OWSG 27.308 MWD+IFR1+ MS	OWSG OWSG 25.49 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 26.811 MWD+IFR1+ MS	OWSG 25.724 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 26.416 MWD+IFR1+ MS	OWSG 27.719 MWD+IFR1+ MS	OWSG 26.791 MWD+IFR1+ MS	OWSG 27.835 MWD+IFR1+ MS
OWSG 164 MWD+	MS OW 135 MW MS	OWSG 135 MWD+ MS	OWSG 308 MWD+	OWSG OWSG 348 MWD+ MS	OWSG OWSG 349 MWD+ MS	OWSG 396 MWD+ MS	OWSG 308 MWD+ MS	OWSG .49 MWD+ MS	OWSG 28.37 MWD+ MS	OWSG 311 MWD+ MS	OWSG 724 MWD+ MS		OWSG OWSG 116 MWD+ MS	OWSG 719 MWD+ MS	OW 791 MM MS	OWSG 335 MWD+ MS
-22.	X.		0.9	2.3	13.3	21.8	27.3	25	28	26.8	25.7	27.427	26.4	27.7	26.7	27.8
9.67	10.02	10.373	10.621	10.724	11.072	11.426	11.778	12.129	12.485	12.84	13.197	13.554	13.911	14.271	14.631	14.991
						П						7	П			
9.671	10.02	10.373	10.625	10.728	11.082	11.438	11.793	12.149	12.507	12.866	13.227	13.586	13.946	14.308	14.671	15.032
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.953	4.061	4.169	4.245	4.278	4.397	4.519	4.645	4.774	4.906	5.041	5.178	5.319	5.463	5.609	5.758	5.909
8	4	4	4	4	4	4	4	4	4	ľ	ĽΛ	ľ	ľ	ľ	ľ	ιn
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.67	02	73	23	56	79	37	791	146	05	63	23	83	42	05	29	59
9.	10.02	10.373	10.623	10.726	11.079	11.437	11.7	12.1	12.505	12.863	13.223	13.583	13.942	14.305	14.667	15.029
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.65	9.975	10.292	10.51	10.613	10.967	11.325	11.681	12.037	12.397	12.757	13.119	13.481	13.842	14.207	14.572	14.936
838	452	702	736	7.49	142	795	447	3392.1	752	404	057	709	361	014	999	318
2699.838	2799.452	2898.702	2968.736	2997.49	3096.142	3194.795	3293.447	336	3490.752	3589.404	3688.057	3786.709	3885.361	3984.014	4082.666	4181.318
45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41
4	9	7.999	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417
		7.5	9.4	9.4	9.4	9.4	9.4	9.4	9.6	9.4	9.4	9.4	9.6	9.4	9.6	9.4
2700	2800	2900	2970.8	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200
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OWSG 25.345 MWD+IFR1+3	MS OWSG MWD+IFR1+ MS	OWSG OWSG MWD+IFR1+:430	OWSG 26.33 MWD+IFR1÷ MS	OWSG 24.467 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 24.577 MWD+IFR1+ MS	OWSG 24.078 MWD+IFR1+ MS	OWSG 23.608 MWD+IFR1+ MS	OWSG 23.164 MWD+IFR1+ MS	OWSG 22.739 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG 21.541 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG , MWD+IFR1+1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	OWSG 21.044 MWD+IFR1+ MS
OWSG 45 MWD+	MS OWSG 37 MWD+ MS	OWSG 83 MWD+ MS	33 MW MS	OWSG OWSG 67 MWD+		OWSG 77 MWD+ MS	OWSG 78 MWD+ MS	OWSG 08 MWD+ MS	OWSG 64 MWD+ MS	OWSG 39 MWD+ MS		OWSG 04 MWD+ MS	OWSG 41 MWD+ MS	OWSG 57 MWD+ MS	OW 47 MW MS	OWSG 44 MWD+ MS
25.3	26.237	25.583	26.	24.4	25.113	24.5	24.0	23.6	23.1	22.7.	22.327	22.704	21.5	21.857	21.447	21.0
15.351	713	16.075	16.437	16.798	17.163	17.526	17.89	18.252	18.618	18.983	19.348	19.713	20.078	20.445	20.811	21.178
15.	15.71	16.	16.	16.	17.	17.	17	18.	18.	18.	19.	19.	20.	20.	20.	21.
15.397	15.76	16.124	16.487	16.853	17.217	17.582	17.949	18.313	18.68	19.046	19.413	19.778	20.146	20.513	20.88	21.248
		Н	П	Н	<b>H</b>	Н	Н	Н		$\vdash$	П	1	2	2		7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.064	6.222	6.381	6.544	6.709	6.877	7.048	7.221	7.397	7.575	7.756	7.94	8.126	8.314	8.506	8.7	8.896
6.0	9.5	9:	9:9	6.7	9.9	7.0	7.2	7.3	7.5	7.7	7	8.7	∞.	∞.		8.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.391	15.755	16.119	16.482	16.846	17.211	17.575	17.941	18.304	18.672	19.037	19.403	19.769	20.135	20.502	20.869	21.236
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
)2	69	35	11	69	37	)5	74	<b>1</b> 1	12	31	51	72	91	52	32	94
15.302	15.669	16.035	16.401	16.769	17.137	17.505	17.874	18.241	18.612	18.981	19.351	19.72	20.091	20.462	20.832	21.204
971	623	275	928	4.58	232	885	537	189	842	494	146	799	451	104	756	408
4279.971	4378.623	4477.275	4575.928	4674.58	4773.232	4871.885	4970.537	5069.189	5167.842	5266.494	5365.146	5463.799	5562.451	5661.104	5759.756	5858.408
45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41
9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.417
0	Ó	ō	Q	ō	Ō	Q	Q	Ō	Ō	Ō	Q	0	Ō	0	Q	<u>o</u>
4300	4400	4500	4600	4700	4800	4900	2000	5100	5200	5300	5400	5500	2600	5700	2800	2900
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OWSG 20.029 MWD+IFR1+	MS OWSG 20.238 MWD+IFR1+ MS	OWSG MWD+IFR1+QS MS	OWSG MWD+IFR1+C/173	OWSG OWSG MWD+IFR1+CMD	OWSG 18.174 MWD+IFR1+ MS	OWSG MWD+IFR1+	0WSG 0WSG 17.814 MWD+IFR1+		MS OWSG MWD+IFR1+	MS OWSG MWD+IFR1+	MS OWSG 18.014 MWD+IFR1+	MS OWSG 18.418 MWD+IFR1+ MS		0WSG 18.649 MWD+IFR1+ MS	OWSG MWD+IFR1++	OWSG 19.58 MWD+IFR1+
20.029	20.238	19.853	19.45	18.552	18.174	17.776	17.814	17.57	1 17.424 I	17.391	18.014	18.418	18.348	18.649	19.33	19.58
21.544	21.912	22.278	22.646	23.012	23.381	23.682	23.748	24.113	24.476	24.836	25.191	25.377	25.54	25.889	26.238	26.587
16	84					9/	25						23	74		
21.616	21.984	22.351	22.719	23.088	23.457	23.76	23.825	24.192	24.555	24.917	25.272	25.458	25.623	25.974	26.323	26.674
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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رم.	_	2	0	80	Ф	10	4	0	m	1	LO.	1	7	80	æ	Ø
960'6	9.297	9.502	9.709	9.918	10.129	10.305	10.344	10.559	10.78	11	11.216	11.331	11.437	11.658	11.883	12.108
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03	71	38	05	72	41	43	60	75	38	66	55	.45	14	92	13	65
21.603	21.971	22.338	22.705	23.072	23.441	23.743	23.809	24.175	24.538	24.899	25.255	25.	25.614	25.965	26.313	26.665
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.575	21.946	22.317	22.689	23.061	23.434	23.739	23.813	24.214	24.585	24.929	25.241	25.385	25.548	25.898	26.247	26.597
21	21	22	22	23	23	23	23	24	24	24	25	25	25	25	26	26
5957.061	6055.713	6154.365	6253.018	6351.67	6450.322	6531.264	6548.984	6647.991	6747.428	6847.172	6947.103	7000	7047.1	7147.1	7247.1	7347.1
45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	45.41	0	0	0	0	0
9.417	9.417	9.417	9.417	9.417	9.417	9.417	9.058	7.058	5.058	3.058	1.058	0	0	0	0	0
0009	6100	6200	9300	6400	90059	6582	0099	90029	0089	0069	7000	7052.9	7100	7200	7300	7400
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0WSG   0WSG   12.337 0 0 27.025 26.936 19.814 MWD+IFR1+32	12.57 0 0 27.375 27.286 20.419 MWD+IFR1+	0WSG 0 27.728 27.636 20.614 MWD+IFR1+:9 MS	0WSG 7 13.046 0 0 28.078 27.986 21.168 MWD+IFR1+ MS	13.289 0 0 28.429 28.337 21.71 MWD+IFR1+32 MS	0 WSG 28.781 28.687 21.854 MWD+IFR1+ MS	0WSG 13.78 0 0 29.134 29.038 21.997 MWD+IFR1+ MS	0WSG 14.032 0 0 29.486 29.389 22.125 MWD+IFR1+ MS	0WSG 14.286 0 0 29.837 29.74 22.591 MWD+IFR1+ MS	14.543 0 0 30.19 30.091 23.048 MWD+IFR1+ MS	0 WSG 14.802 0 0 30.542 30.443 23.14 MWD+IFR1+ MS	0 30.895 30.793 23.227 MWD+IFR1+ MS	0WSG 15.33 0 0 31.248 31.146 23.644 MWD+IFR1+ MS	0 31.6 31.497 23.715 MWD+IFR1+ MS	0WSG 15.652 0 0 31.671 31.568 23.792 MWD+IFR1+ MS	0WSG 15.865 0 0 31.925 31.824 25.886 MWD+IFR1+1-5 MS	0WSG 16.118 0 0 32.236 32.107 22 MWD+IFR1+ MS
27.015 0	27.364 0	27.716 0	28.066 0	28.417 0	28.768 0	29.12 0	29.472 0	29.823 0	30.174 0	30.527 0	30.879 0	31.231 0	31.583 0	31.654 0	31.906 0	32.218 0
0 2	0	0 2	0 2	0 2	0 2	0	0 2	0 2	0	0	0	0	0	0	0	0
26.946	27.297	27.648	27.998	28.35	28.7	29.052	29.402	29.754	30.106	30.458	30.809	31.162	31.513	31.585	31.425	30.553
7447.1	7547.1	7647.1	7747.1	7847.1	7947.1	8047.1	8147.1	8247.1	8347.1	8447.1	8547.1	8647.1	8747.1	8767	8846.839	8944.148
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179.7	179.7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.009	18
7500	7600	7700	7800	7900	8000	8100	8200	8300	8400	8500	8600	8700	8800	8819.9	8900	0006
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OWSG MWD+IFR1	MS OWSG 19.07 MWD+IFR1+ MS	OWSG MWD+IFR1+: MS	OWSG ' MWD+IFR1+6733 MS	OWSG 9.014 MWD+IFR1+: MS	OWSG 6.589 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -6.005 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -7.501 MWD+IFR1+ MS	OWSG MWD+IFR1++ MS	OWSG -8.011 MWD+IFR1+91 MS
OV 2.085 MN	MS OW 19.07 MW	OV 15.008 MV MS	OW 12.057 MM MS	OW 9.014 MW MS	OV 5.589 MV MS	3.828 MW	3.325 MW	 OW 1.141 MM MS	0W -1.303 MW MS	OW -3.253 MM MS	OW -4.781 MW MS	OW 3.005 MM MS	OW -6.782 MW MS	OW 7.501 MM MS	OW -7.886 MM MS	00 3.011 MN
22		Ħ	13	O,	ų.	(1)	(1)			Ÿ	7-	Ψ	Ψ	77	ר'	Ψ
32.367	32.568	32.724	32.834	32.899	32.933	32.952	32.953	32.954	32.969	32.968	32.965	32.976	32.972	32.982	32.993	32.989
32.517	32.762	32.987	33.166	33.312	33.398	33.469	33.468	33.496	33.541	33.618	33.695	33.787	33.895	34.002	34.139	34.288
32.	32.	32.	33.	33.	33.	33.	33.	33.	33.	33.	33.	33.	33.	34.	34.	34.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.346	16.55	16.733	16.9	17.065	17.237	17.421	17.461	17.63	17.866	18.136	18.434	18.759	19.113	19.491	19.892	20.317
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.496	32.741	32.969	33.15	33.301	33.391	.466	33.466	33.496	33.541	33.616	69:	33.78	33.883	33.987	34.119	34.265
32.	32.	32.	33	33.	33.	33.	33.	33.	33.	33.	33	33	33.	33.	34.	34.
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29.027	26.922	24.43	21.808	19.431	17.792	17.373	17.461	17.63	17.866	18.136	18.434	18.759	19.113	19.491	19.892	20.317
9036.075	9119.826	9192.857	9252.949	9298.274	9327.458	9339.612	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
9036	9116	9192	9252	9298	9327	9336	9339	9336	9339	9339	9336	9339	9339	9339	9336	9336
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
28	38	48	58	89	78	88	06	06	06	06	06	06	06	06	06	06
9100	9200	9300	9400	9500	0096	9700	9719.9	0086	0066	10000	10100	10200	10300	10400	10500	10600
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- Rec	eived by	OCD: 8/2	21/2023	1:32:08	PM-										<del>- Pag</del>	<del>e 17 of 4</del> 2
sG D+IFR1+	OWSG -8.273 MWD+IFR1+ MS	OWSG ) MWD+IFR1+C	OWSG MWD+IFR1+c7	OWSG MWD+IFR1+ <del>C</del> 759 MS	OWSG MWD+IFR1+ MS	OWSG -7.805 MWD+IFR1+ MS	OWSG -7.676 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -7.341 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	-6.735 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	IFR1.	IFR1.
OWSG 97 MWD+ MS	OWS OWS 73 MWI MS	OWS 99 MWI MS	OWS 42 MWI MS	OWSG 45 MWD+ MS	OWSG 14 MWD+ MS	OWSG 35 MWD+ MS	OWSG 76 MWD+	OWSG OWSG 93 MWD+ MS	OWSG 11 MWD+ MS	OWSG 11 MWD+ MS	OWSG 18 MWD+ MS	OWSG 79 MWD+ MS	OWSG 35 MWD+ MS	OWSG 57 MWD+ MS		OWSG 33 MWD+ MS
-8.19	-8.2	-8.199	-8.142	-8.045	-7.914	-7.8(	-7.6	-7.493	-7.3	-7.211	-7.018	-6.879	-6.73	-6.57	-6.446	-6.3(
33	)12	)24	36	948	33.06	272	33.1	113	126	154	891	961	224	238	566	595
	33.012	33.024	33.036	33.048	33	33.072	ĸ	33.113	33.126	33.154	33.168	33.196	33.224	33.238	33.266	33.295
34.438	34.601	34.791	34.981	35.183	35.398	35.612	35.852	36.104	36.355	36.617	36.904	37.189	37.485	37.792	38.097	38.424
34	34	34	34	35	35	35	35	36	36	36	36	37	37	37	38	38
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20.763	21.227	21.712	22.213	22.729	23.259	23.805	24.364	24.936	25.519	26.111	26.713	27.326	27.946	28.576	29.211	29.855
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.411	34.571	.759	34.946	35.146	35.359	35.57	35.809	36.059	36.308	36.569	36.855	37.14	37.435	37.741	38.045	38.372
34	34	34.7	34	35	35	ю	35	36	36	36	36	ĸ	37	37	38	38
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.763	21.227	21.712	22.213	22.729	23.259	23.805	24.364	24.936	25.519	26.111	26.713	27.326	27.946	28.576	29.211	29.855
9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06
10700	10800	10900	11000	11100	11200	11300	11400	11500	11600	11700	11800	11900	12000	12100	12200	12300
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OWSG -6.161 MWD+IFR1+	MS OWSG MWD+IFR1+ MS	OWSG MWD+IFR1÷GO	OWSG MWD+IFR1+	OWSG OWSG MWD+IFR1+2 MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+	MS OWSG MWD+IFR1+	MS OWSG MWD+IFR1+	-5.036 MWD+IFR1+	MIS OWSG MWD+IFR1+	MIS OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+1 MS	OWSG -4.526 MWD+IFR1+8 MS
OWSG 61 MWD+	MS OWS 36 MW MS	OWS 12 MW MS	0WS 78 MW	0WS 58 MW	OWSG OWSG 53 MWD+ MS		OWSG 34 MWD+	MS OWSG 33 MWD+		OWSG S6 MWD+		MSG OWSG 48 MWD+ MS			OWSG -4.6 MWD+ MS	OWS 26 MW MS
-6.16	-6.036	-5.912	-5.778	-5.658	-5.553	-5.437	-5.334	-5.233	-5.126	-5.03	-4.941	-4.848	-4.764	-4.681	4	-4.52
324	353	381	33.41	681	83	512	541	984	513	557	989	33.73	774	317	361	904
33.324	33.353	33.381	33	33.439	33.483	33.512	33.541	33.584	33.613	33.657	33.686	33	33.774	33.817	33.861	33.904
38.762	39.097	39.442	39.809	40.172	40.545	40.926	41.304	41.702	42.109	42.511	42.921	43.351	43.776	44.209	44.648	45.083
38	39	39	39	40	40	40	41	41	42	42	42	43	43	44	44	45
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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30.506	31.161	31.812	32.481	33.151	33.838	34.511	35.199	35.889	36.592	37.283	37.987	38.691	39.395	40.112	40.817	41.533
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.71	944	688	755	.19	191	372	41.25	948	)55	157	292	267	722	.55	95	.03
38	39.044	39.389	39.7	40.119	40.491	40.872	41	41.648	42.055	42.457	42.867	43.297	43.722	44.1	44.595	45.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.506	31.161	31.812	32.481	33.151	33.838	34.511	35.199	35.889	36.592	37.283	37.987	38.691	39.395	40.112	40.817	41.533
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9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
C	C	o	C	C	0	0	C	C	C	C	C	C	0	0	0	0
06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06
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12400	12500	12600	12700	17800	.46 AM	13000	13100	13200	13300	13400	13500	13600	13700	13800	13900	14000
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- Rec	eived by	0CD: 8/	<del>/21/2023</del>	1:32:08	PM		_		_					_	Pag	e 19 of 42
OWSG -4.449 MWD+IFR1+	OWSG OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+GO	OWSG MWD+IFR1+	OWSG OWSG MWD+IFR1+C MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+	MIS OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -3.756 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1++ MS	OWSG -3.508 MWD+IFR1+ MS
OWSG 49 MWD+	MIS OW 73 MW MS	OW O3 MW	0W% 35 MW	OWS OWS 65 MW	OWSG 03 MWD+ MS	OWSG 39 MWD+ MS		OWSG 22 MWD+		OWSG -3.81 MWD+ MS	OWSG 56 MWD+ MS			OWSG 04 MWD+ MS	OWSG 56 MWD+ MS	OWS 08 MW MS
4.4	-4.373	-4.303	-4.235	-4.165	-4.103	-4.039	-3.981	-3.922	-3.866	ည်	-3.7	-3.702	-3.653	-3.604	-3.556	-3.5
33.948	33.991	34.035	34.078	34.122	34.18	34.223	34.281	34.324	34.382	34.439	34.482	34.54	34.597	34.654	34.712	34.769
33	33	34	34	34.	ñ	34	34	34	34	34	34	m	34	34	34	34
45.536	45.995	46.45	46.911	47.389	47.862	48.34	48.824	49.304	49.799	50.298	50.793	51.303	51.808	52.317	52.831	53.349
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.261	42.977	43.704	44.43	45.155	45.88	46.615	47.339	48.073	48.816	49.548	50.289	51.029	51.769	52.507	53.254	54
42	45.	43.	44	45.	45	46.	47.	48.	48.	49.	50.	51.	51.	52.	53.	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.483	45.943	46.398	46.859	47.337	47.81	48.289	48.773	49.253	49.748	50.248	50.744	51.254	51.759	52.268	52.782	53.301
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
l	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
61	77	04	43	55	88	15	39	73	16	48	68	59	69	07	54	54
42.261	42.977	43.704	44.43	45.155	45.88	46.615	47.339	48.073	48.816	49.548	50.289	51.029	51.769	52.507	53.254	
.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
9339.958	9339	9339	9339	9339	9339	9339	9339.958	9339	9339	9339	9339	9339	9339	9339	9339	9339
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
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14100	14200	14300	14400	14500	14600	14700	14800	14900	15000	15100	15200	15300	15400	15500	15600	15700
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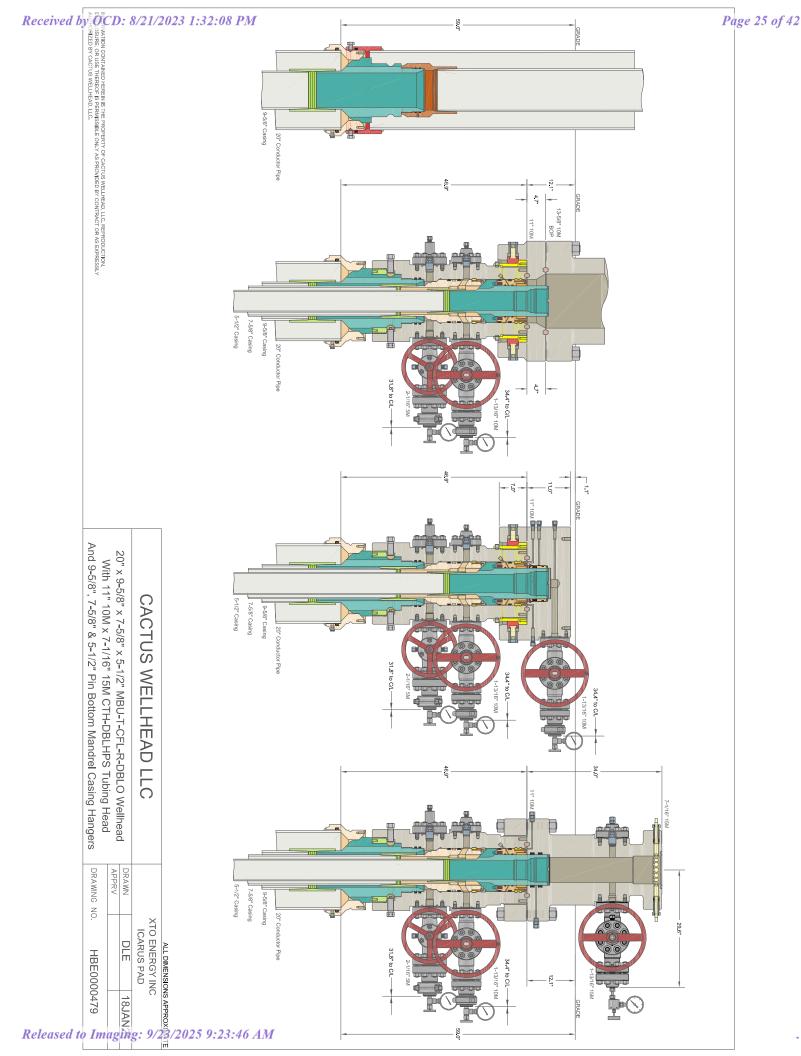
- <u>R</u> ec	eived_by C	OCD: 8/	<del>21/2<u>0</u>23</del>	1:32:08	PM_	1	Д	_	1	<b>.</b>			<b>.</b>	1	Pag	e 20 of 42
OWSG -3.461 MWD+IFR1+3	OWSG -3.422 MWD+IFR1+	OWSG -3.376 MWD+IFR1+ MS	OWSG MWD+IFR1+CM MS	-3.294 MWD+IFR1+7888	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -3.178 MWD+IFR1+	0WSG -3.143 MWD+IFR1+	MS OWSG MWD+IFR1+	MIS OWSG MWD+IFR1+	MS OWSG MWD+IFR1+	MS OWSG -3.003 MWD+IFR1+	MS OWSG MWD+IFR1+	MS OWSG -2.94 MWD+IFR1+	IFR1	SG /D+IFR1
OWSG 461 MWD+	OW OW 122 MW MS	0W 376 MW MS	OW -3.336 MW MS	OWSG 294 MWD+ MS	OW -3.255 MW MS	OWSG -3.216 MWD+	OWSG 178 MWD+	OWSG OWSG 143 MWD+	MIS OWSG -3.108 MWD+	MS OWSG -3.071 MWD+	MS OWSG -3.037 MWD+	MS OWSG 003 MWD+	MS OWSG -2.971 MWD+	MS OWSG .94 MWD+	OWSG -2.91 MWD+	OW OW WM 879 MS
-3.6	-3.6	ξ. Ξ.	, 5.5	-3.2	-3.2	-3.2	-3.1	-3.1	-3.1	-3.(	-3.(	-3.(	-2.5	-2	-2	-2.8
34.826	34.897	34.954	35.011	35.082	35.138	35.209	35.265	35.335	35.406	35.462	35.532	35.602	35.671	35.741	35.825	35.894
δ.	ř	ά	ξή	π̈́	Ēή	ξĶ	Ξĸ	ξή	ξή	ξ	ξή	ξć	ΞŔ	ξή	ξή	<u>.</u>
53.872	54.389	54.92	55.446	55.985	56.518	57.056	57.597	58.141	58.689	59.232	59.787	60.345	60.898	61.454	62.013	62.575
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.745	55.489	56.241	56.991	57.741	58.489	59.245	59.992	60.745	61.506	62.258	63.016	63.773	64.529	65.284	66.045	86.798
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324	142	373	661	38	27.2	.01	51	96	45	88	743	101	354	111	.97	132
53.824	54.342	54.873	55.399	55.938	56.472	57.	57.551	58.096	58.645	59.1	59.743	60.301	60.854	61.411	61.	62.532
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.745	55.489	56.241	56.991	57.741	58.489	59.245	59.992	60.745	61.506	62.258	63.016	63.773	64.529	65.284	66.045	66.798
9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06
15800	15900	16000	16100	16200	16300	16400	16500	16600	16700	16800	16900	17000	17100	17200	17300	17400
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- Rec	eived by	OCD: 8/2	<del>21/2023</del>	1:32:08	PM										Page	<del>e 21 of 4</del> 2
OWSG -2.849 MWD+IFR1+38	OWSG MWD+IFR1+ MS	OWSG 3 MWD+IFR1+C	OWSG -2.765 MWD+IFR1+6 MS	OWSG MWD+IFR1+72-17 MS	OWSG MWD+IFR1+ MS	OWSG -2.685 MWD+IFR1+ MS	OWSG -2.659 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG -2.609 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	owsg Mwd+ifr1+ Ms	OWSG -2.516 MWD+IFR1+ MS	OWSG MWD+IFR1+ MS	IFR1.	IFR1.
OWS 49 MW MS	OWS 19 MW MS	OWS 93 MW MS	OWS 65 MW MS	OWSG 37 MWD+ MS	OWSG -2.71 MWD+ MS	OWSG 85 MWD+ MS	OWSG 59 MWD+ MS	OWSG 35 MWD+ MS	OWSG 09 MWD+ MS	OWSG 87 MWD+ MS		OWSG 39 MWD+ MS	OWSG 16 MWD+ MS	OWSG 95 MWD+ MS		OWSG 53 MWD+ MS
-2.8	-2.819	-2.793	-2.7	-2.737	-2.	-2.6	-2.6	-2.635	-2.6	-2.587	-2.562	-2.539	-2.5	-2.495	-2.474	-2.4
35.963	36.032	36.115	36.184	36.266	36.335	36.417	36.499	36.581	36.649	36.73	36.811	36.892	36.973	37.067	37.148	37.228
35.	36.	36.	36.	36.	36.	36.	36.	36.	36.	ñ	36.	36.	36.	37.	37.	37.
63.14	63.708	64.278	64.844	65.42	65.991	66.564	67.148	67.726	68.307	68.883	69.469	70.057	70.64	71.225	71.819	72.409
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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999	323	80.69	343	505	365	132	72.89	555	118	981	947	714	621	78.25	013	781
67.565	68.323	69	69.843	70.605	71.365	72.132	72	73.655	74.418	75.186	75.947	76.714	77.479	78	79.013	79.781
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.098	63.666	64.237	64.803	65.379	65.95	66.524	67.108	67.687	68.268	68.844	69.43	70.018	70.601	71.187	71.782	72.371
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	23	80	13	25	55	32	68	55	18	98	47	14	62	25	13	31
67.565	68.323	69.08	69.843	70.605	71.365	72.132	72.89	73.655	74.418	75.186	75.947	76.714	77.479	78.25	79.013	79.781
958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958	.958
9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.928	9339.958
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
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17500	17600	17700	17800	11300	18000 18000	18100	18200	18300	18400	18500	18600	18700	18800	18900	19000	19100
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0 /2.363 0 80.548 0 0 /3.001 3/.322	0 73.557 0 81.314 0 0 73.594 37.402 -2.41	0 74.153 0 82.085 0 0 74.19 37.495 -2.391	0WSG	0 75.34 0 83.618 0 0 75.38 37.667	0WSG 0 75.939 0 84.386 0 0 75.975 37.76 -2.333 MWD+IFR1+ MS	OWSG 159 0 76.542 0 85.159 0 0 76.578 37.839 -2.315 MWD+IFR1+ MS	0 77.141 0 85.924 0 0 77.177 37.931 -2.297	0 77.742 0 86.695 0 0 77.777 38.023 -2.279	0 78.344 0 87.464 0 0 78.379 38.114 -2.261	0WSG 238 0 78.983 38.206 -2.243 MWD+IFR1+ MS	0 79.554 0 89.006 0 0 79.589 38.297 -2.227	OWSG 778 0 80.161 0 89.778 0 0 80.196 38.388 -2.21 MWD+JFR1+ MS	0 80.764 0 90.548 0 0 80.798 38.492 -2.193	0WSG 318 0 81.375 0 91.318 0 0 81.409 38.582 -2.177 MWD+IFR1+ MS	0WSG 0 81.981 0 92.092 0 0 82.015 38.673 -2.161 MWD+IFR1+-5 MS 98	OWSG 0 82.589 0 92.86 0 0 82.622 38.775 -2.146 MWD+IFRI-
72.963		74.1	74.7				77.1					80.1				
80.548 0	81.314 0	82.085 0	82.849 0	83.618 0	84.386 0	85.159 0	85.924 0	86.695 0	87.464 0	88.238 0	89.006	89.778 0	90.548 0	91.318 0	92.092 0	92.86 0
9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
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OWSG -2.13 MWD+IFR1+	MS OWSG -2.115 MWD+IFR1+ MS	OWSG -2.1 MWD+I MS	OWSG -2.085 MWD+IFR1+	OWSG -2.071 MWD+I	OWSG -2.057 MWD+IFR1+ MS	OWSG -2.044 MWD+IFR1+ MS	OWSG -2.03 MWD+IFR1+ MS	OWSG -2.017 MWD+IFR1+	MS OWSG -2.003 MWD+IFR1+ MS	OWSG -1.99 MWD+IFR1+ MS	OWSG -1.977 MWD+IFR1+ MS	OWSG -1.964 MWD+IFR1+ MS	OWSG -1.952 MWD+IFR1+ MS	OWSG -1.939 MWD+IFR1+ MS	OWSG -1.927 MWD+IFR1+Y MS	OWSG -1.918 MWD+IFR1+ MS
38.865	38.968	39.057	39.159	39.261	39.362	39.464	39.565	39.665	39.766	39.866	39.966	40.065	40.177	40.276	40.388	40.462
83.238	83.848	84.46	85.068	85.683	86.299	86.912	87.531	88.146	88.762	89.38	89.999	90.619	91.24	91.858	92.481	92.935
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93.632	94.409	95.179	95.953	96.721	97.499	98.27	99.04	99.815	100.548	101.341	102.127	102.908	103.682	104.451	105.214	105.783
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83.204	83.815	84.427	85.035	85.651	86.267	86.88	87.499	88.114	88.731	89.348	89.968	90.588	91.21	91.827	92.451	92.905
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93.632	94.409	95.179	95.953	96.721	97.499	98.27	99.04	99.815	100.548	101.341	102.127	102.908	103.682	104.451	105.214	105.783
9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9339.958	9340
179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
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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.

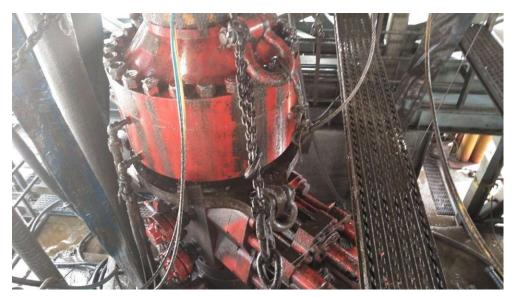


Figure 1: Winch System attached to BOP Stack



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.

2	API STANDARD	53	
Tab	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
	Pressure Test—Low	Pressure Test-	-High Pressureac
Component to be Pressure Tested	Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>b</sup>	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 <sup>bd</sup>	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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, the	during the evaluation period. The j essure tested on the largest and sm from one wellhead to another with when the integrity of a pressure se er am BOPs shall be pressure tes land operations, the ram BOPs sh	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is red	program. juired for pressure-containing and the closing and locking pressure

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.

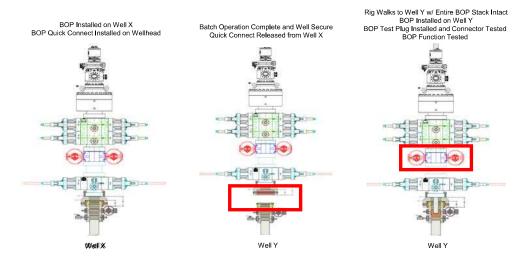
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that 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



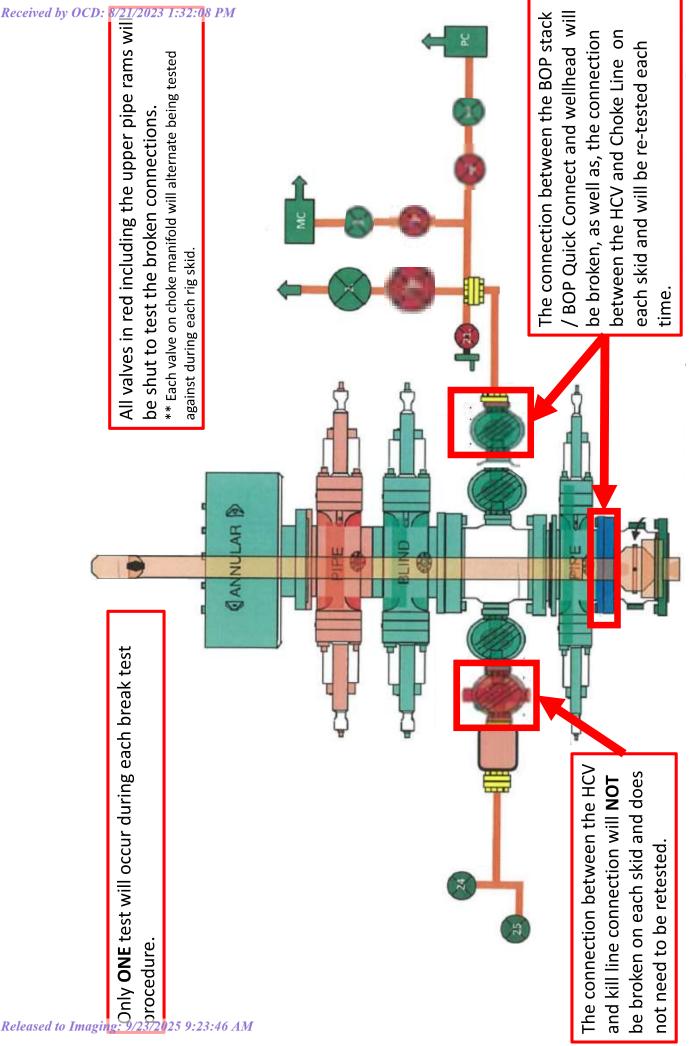
# **Summary**

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.



## **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

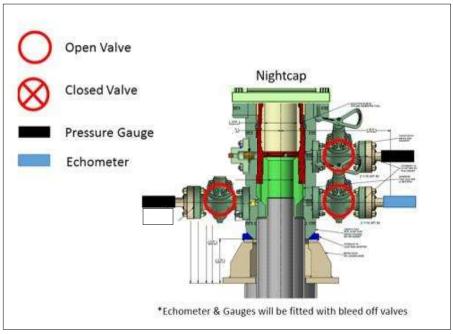
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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 nippled 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

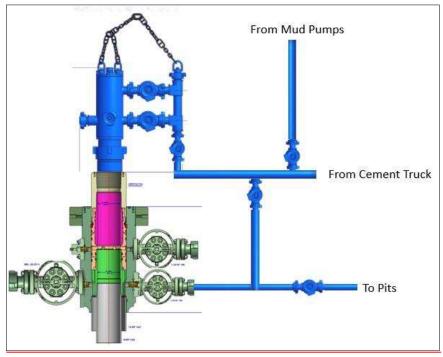
## **XTO Permian Operating, LLC Offline Cementing Variance Request**



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 nippling 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 3<sup>rd</sup> 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.
  - 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 nippled 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.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**Updated COAs per Sundry 2667164** approved through engineering on 04/26/2022. 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 31 Federal 124H
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 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 860 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
- 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 2<sup>nd</sup> 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 intergrity 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 intergrity 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.

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

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 255002

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	255002
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Creat	ted By	Condition	Condition Date
war	d.rikala	Work was performed without OCD approval	9/23/2025