Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

5. Lease Serial No.	NIN

. NMNM14785

DUKI	EAU OF LAND MANAGEMENT		N	IMNM14785
	IOTICES AND REPORTS ON Worm for proposals to drill or to	_	6. If Indian, Allottee of	or Tribe Name
	Use Form 3160-3 (APD) for suc			
	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agre	ement, Name and/or No.
. Type of Well  Oil Well  Gas W	/ell Other		8. Well Name and No	BRUSHY DRAW 30 FEDERAL/701I
. Name of Operator XTO PERMIAN	OPERATING LLC		9. API Well No. 3001	545194
a. Address 6401 Holiday Hill Road,	Bldg 5, Midland, TX 7970 3b. Phone No.	(include area code)	10. Field and Pool or	
	(432) 682-88	73	Wildcat	
. Location of Well (Footage, Sec., T.,R SEC 30/T25S/R30E/NMP	.,M., or Survey Description)		11. Country or Parish EDDY/NM	, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	ICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF AC	TION	
Notice of Intent	Acidize Deep Alter Casing Hydi		luction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report		=	omplete	<b>✓</b> Other
Final Abandonment Notice			porarily Abandon er Disposal	
is ready for final inspection.)  **Spacing, Casing/Cement, Dr	tices must be filed only after all requirement illing Variance Changes requests permission to make the followi		•	the operator has detennined that the site
No Additional Surface Disturba	ance			
Change BHL fr/2440FNL & 33 Casing/Cement design per the Batch & Spudder Rig				
Attachments: C102 Continued on page 3 additional	l information			
4. I hereby certify that the foregoing is STEPHANIE RABADUE / Ph: (432)	true and correct. Name (Printed/Typed) ) 620-6714	Regulatory Coordir	ator	
Signature		Date	04/21/2	022
	THE SPACE FOR FED	ERAL OR STATE OF	FICE USE	
pproved by		Petroleum En	gineer	04/22/2022

Approved by

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

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.

Petroleum Engineer

Date

Office CARLSBAD

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

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

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

#### SPECIFIC INSTRUCTIONS

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

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

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Form 3160-5, page 2)

#### **Additional Information**

#### **Additional Remarks**

Drilling Program

Directional Plan

Multibowl Diagram

Spudder Rig Request

Offline Cement Variance (Surface & Intermediate Only) Request

**BOP** Breaktest Variance

#### **Location of Well**

 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

<sup>1</sup> API Number 30-015-45194	er <sup>2</sup> Pool Code 13354				
<sup>4</sup> Property Code 322241		Property Name  ORAW 30 FEDERAL	<sup>6</sup> Well Number 701H		
<sup>7</sup> OGRID No. 373075		perator Name AN OPERATING, LLC	<sup>9</sup> Elevation 3,086'		

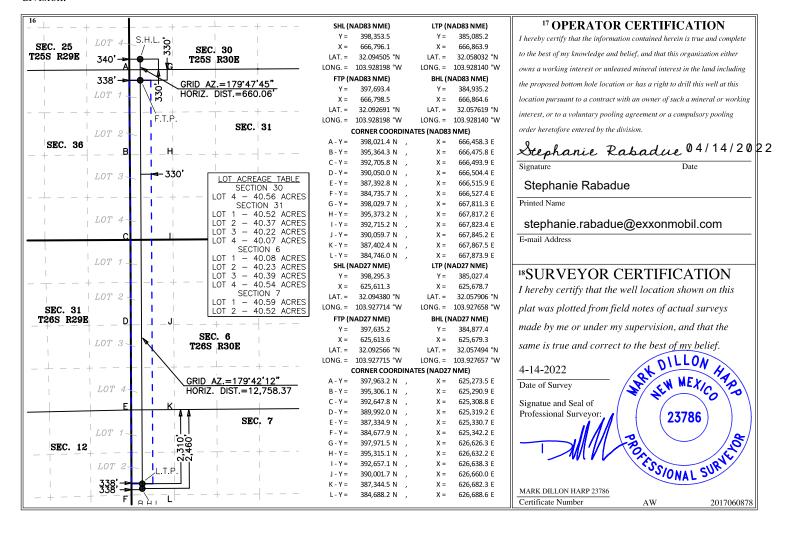
#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	30	25 S	30 E		330	SOUTH	340	WEST	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
2	7	26 S	30 E		2,460	NORTH	338	WEST	EDDY
12 Dedicated Acres	13 Joint or	r Infill 14 C	Consolidation	Code 15 Or	der No.				
444.09									

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 30 Federal 701H Projected TD: 22257' MD / 9170' TVD Eddy County, NM

#### 1. Geologic Name of Surface Formation

Quaternary Α

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	695'	Water
Top of Salt	1065'	Water
Base of Salt	3015'	Water
Delaware	3395'	Water
Brushy Canyon	5915'	Water/Oil/Gas
Bone Spring	7215'	Water
1st Bone Spring Ss	8115'	Water/Oil/Gas
2nd Bone Spring Ss	8755'	Water/Oil/Gas
Target/Land Curve	9110'	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 @ 795' (270' 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 8115' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22257 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 7815 feet).

#### 3. Casing Design

Hole Size	TVD	Measured Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	795'	795' 0' – 795' 9.625 40 J-55 BTC		втс	New	1.71	7.15	19.81		
8.75	3995'	0' – 4000'	' – 4000' 7.625 29.7 RY P-110 Flush J		Flush Joint	New	4.44	2.65	2.32	
8.75	8095'	4000' – 8115'	115' 7.625 29.7 HC L-80		HC L-80	Flush Joint	New	3.23	2.47	3.32
6.75	7995'	0' – 8015' 5.5 20 RY P-110 Semi		Semi-Premium	New	1.05	3.06	2.29		
6.75	9170'	8015' - 22257'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.68	5.39

- · Production casing meets the clearance requiremenets 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.
  - $\cdot$  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 +/- 795'

Lead: 160 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 +/- 8115'

<u>1st Stage</u>

Optional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 200 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5915

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: 670 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 (5915') 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 +/- 22257'

 Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:
 7815 feet

 Tail: 980 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:
 8601 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 2131 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	Hole Size	iviud Type	(ppg)	(sec/qt)	(cc)
0' - 795'	12.25	FW/Native	8.7-9.2	35-40	NC
795' - 8115'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8115' - 22257'	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 4149 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 701H

Mesured Description 22256.00 ft

Description 22256.00 ft

TVO RKB: 9170.00 ft

Location

Catographic New Mexico

Personne Fact NAD East - NAD

Reference System: 27

Northing: 398296.31 ft

625619.37 ft Easting:

3170.00 ft RKB:

Ground 3140.00 ft

Level:

North Grid

Reference: Convergence 0.22 Deg

Angle:

BD 30 Pad A Site:

**Brushy Draw** Slot:

30 Fed 701H

	Brushy Draw 30 Fed 701H								
Measured			TVD			Build	Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Targe	et
. 0	0	0	0	0	0	0	0	0	

2500	0	0	2500	0	0	0	0	0
2817.48	6.35	183.26	2816.83	-17.55	-1	2	0	2
3286.7	6.35	183.26	3283.17	-69.36	-3.95	0	0	0
<b>≈</b> 3604.18	0	0	3600	-86.9	-4.95	-2	0	2
8601.18	0	0	8597	-86.9	-4.95	0	0	0
8601.18 9501.18	90	180	9169.96	-659.86	-4.95	10	0	10 FTP 4
22256.77	90	179.43	9170	-13415.25	58.8	0	0	0 BHL 4

2500	0	Ü	2500	0	0	Ü	Ü	0					<u>.</u>
2817.48 3286.7 3604.18	6.35	183.26	2816.83	-17.55	-1	2	0	2					Rec
3286.7	6.35	183.26	3283.17	-69.36	-3.95	0	0	0					eiv
3604.18	0	0	3600	-86.9	-4.95	-2	0	2					ed b
8601.18	0	0	8597	-86.9	-4.95	0	0	0					9.0
9501.18	90	180	9169.96	-659.86	-4.95	10	0	10 FTP	4				Ğ
8601.18 9501.18 22256.77	90	179.43	9170	-13415.25	58.8	0	0	0 BHL	_ 4				9.
													Received by OCD: 9/23/202
10/22													202
Undertainty	Brushy Draw 30 Fed 701H												7.12.37 11.0
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)	(°)
													OWSG
0	0	0	0	0	0	0	0	2.297	0	0	0	0	0 MWD+IFR1+ MS OWSG
100	0	0	100	0.358	0	0.358	0	2.299	0	0	0.358	0.358	0 MWD+IFR1+
													MS OWSG
200	0	0	200	0.717	0	0.717	0	2.307	0	0	0.717	0.717	0 MWD+IFR1+ MS OWSG
300	0	0	300	1.075	0	1.075	0	2.321	0	0	1.075	1.075	0 MWD+IFR1+
													MS OWSG
400	0	0	400	1.434	0	1.434	0	2.34	0	0	1.434	1.434	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
	•			0.454	•		•					0.454	OWSG
600	0	0	600	2.151	0	2.151	0	2.393	0	0	2.151	2.151	0 MWD+IFR1+ MS
													OWSG
700	0	0	700	2.509	0	2.509	0	2.428	0	0	2.509	2.509	0 MWD+IFR1+
													MS OWSG
800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	0 MWD+IFR1+
													MS 🥞
000	•	0	000	2 225	0	2 225	0	2 544	0	•	2 225	2 225	OWSG
900	0	0	900	3.225	0	3.225	0	2.511	0	0	3.225	3.225	0 MWD+IFR1- MS

														OWSG
Re	1000	0	0	1000	3.585	0	3.585	0	2.559	0	0	3.585	3.585	0 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS
sed	1100	0	0	1100	3.942	0	3.942	0	2.613	0	0	3.942	3.942	OWSG 0 MWD+IFR1+
6	1100	0	0	1100	3.942	0	3.342	U	2.015	U	0	3.942	3.342	MS MS
Im														OWSG 🖁
ıgi	1200	0	0	1200	4.301	0	4.301	0	2.67	0	0	4.301	4.301	0 MWD+IFR1+
:81														MS 💃
10/	1200	•		4200	4.650	•	4.650	•	2 724	•	•	4.650	4.650	OWSG
22/	1300	0	0	1300	4.659	0	4.659	0	2.731	0	0	4.659	4.659	0 MWD+IFR1+ MS
202														OWSG
53	1400	0	0	1400	5.018	0	5.018	0	2.797	0	0	5.018	5.018	0 MWD+IFR1+
:50														MS 💃
:49								•		•				OWSG
P	1500	0	0	1500	5.377	0	5.377	0	2.866	0	0	5.377	5.377	0 MWD+IFR1÷ MS
														OWSG
	1600	0	0	1600	5.735	0	5.735	0	2.939	0	0	5.735	5.735	0 MWD+IFR1+
														MS
						_		_		_				OWSG
	1700	0	0	1700	6.093	0	6.093	0	3.015	0	0	6.093	6.093	0 MWD+IFR1+ MS
														OWSG
	1800	0	0	1800	6.452	0	6.452	0	3.095	0	0	6.452	6.452	0 MWD+IFR1+
														MS
								•		•				OWSG
	1900	0	0	1900	6.81	0	6.81	0	3.178	0	0	6.81	6.81	0 MWD+IFR1+ MS
														OWSG
	2000	0	0	2000	7.169	0	7.169	0	3.265	0	0	7.169	7.169	0 MWD+IFR1+
														MS
	2400	•	•	2400	7.507		7.507	•	2 25 4	•		7.527	7.507	OWSG
	2100	0	0	2100	7.527	0	7.527	0	3.354	0	0	7.527	7.527	0 MWD+IFR1+ MS
														OWSG
	2200	0	0	2200	7.886	0	7.886	0	3.447	0	0	7.886	7.886	0 MWD+IFR1+
														MS
	2200	0	0	2200	0.244	0	0.244	0	2 5 4 4	0	0	0.244	0.244	OWSG
	2300	0	0	2300	8.244	0	8.244	0	3.544	0	0	8.244	8.244	0 MWD+IFR1+ MS
														OWSG
	2400	0	0	2400	8.603	0	8.603	0	3.643	0	0	8.603	8.603	0 MWD+IFR1+
														MS
	3500	0	0	2500	8.063	0	0.063	0	2 744	0	0	9.063	0.063	OWSG
	2500	0	0	2500	8.962	0	8.962	0	3.744	0	0	8.962	8.962	0 MWD+IFR1+ MS
														OWSG
	2600 1	1.999	183.2	2599.98	9.297	0	9.302	0	3.848	0	0	9.302	9.302	0 MWD+IFR1+
														MS 🚶
•														2

R	2700	4	183.2	2699.838	9.606	0	9.626	0	3.953	0	0	9.626	9.626	OWSG 0 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS
isea	2000	6	402.2	2700 452	0.000	0	0.053	0	4.064	0	0	0.053	0.053	OWSG
to	2800	6	183.2	2799.452	9.906	0	9.952	0	4.061	0	0	9.952	9.952	-6.542 MWD+IFR1+ MS
Im														OMCC
agi.	2817.4	6.349	183.2	2816.833	9.958	0	10.005	0	4.078	0	0	10.01	10.005	91.238 MWD+IFR1+
80														MS
10														OWSG
22/	2900	6.349	183.2	2898.844	10.226	0	10.281	0	4.17	0	0	10.281	10.276	0 MWD+IFR1+
20.														MS OWSG
25 3	3000	6.349	183.2	2998.231	10.558	0	10.611	0	4.286	0	0	10.611	10.607	0.598 MWD+IFR1+
3:5								-						MS
9:4														owsg
P	3100	6.349	183.2	3097.617	10.89	0	10.941	0	4.406	0	0	10.941	10.936	1.552 MWD+IFR1+
X														MS
	3200	6.349	183.2	3197.004	11.225	0	11.278	0	4.528	0	0	11.278	11.269	OWSG 1.21 MWD+IFR1+
	3200	0.545	105.2	3137.004	11.225	O	11.270	Ü	4.520	O	O	11.270	11.203	MS
														OWSG
	3286.6	6.349	183.2	3283.167	11.516	0	11.567	0	4.635	0	0	11.567	11.559	1.546 MWD+IFR1+
														MS
	2200	C 002	102.2	2206 204	44.562	0	11 (15	0	4.653	0	0	11 (15	11 (02	OWSG
	3300	6.083	183.2	3296.394	11.563	0	11.615	0	4.652	0	0	11.615	11.602	1.088 MWD+IFR1+ MS
														OWSG
	3400	4.083	183.2	3395.995	11.93	0	11.95	0	4.781	0	0	11.95	11.942	2.115 MWD+IFR1+
														MS
								_						OWSG
	3500	2.083	183.2	3495.846	12.277	0	12.288	0	4.913	0	0	12.288	12.276	1.637 MWD+IFR1+ MS
														OWSG
	3604.1	0	0	3600	12.637	0	12.649	0	5.052	0	0	12.649	12.637	1.76 MWD+IFR1+
														MS
														OWSG
	3700	0	0	3695.823	12.981	0	12.992	0	5.18	0	0	12.992	12.981	1.864 MWD+IFR1+
														MS OWSG
	3800	0	0	3795.823	13.334	0	13.349	0	5.316	0	0	13.349	13.334	1.48 MWD+IFR1+
														MS
														OWSG
	3900	0	0	3895.823	13.689	0	13.704	0	5.454	0	0	13.704	13.689	1.561 MWD+IFR1+
														MS OWSG
	4000	0	0	3995.823	14.046	0	14.061	0	5.596	0	0	14.061	14.046	1.641 MWD+IFR1+
		· ·	· ·	00001010	2		2002	· ·	0.000	· ·	Ü	2002	2	MS A
														owsg 🧎
	4100	0	0	4095.823	14.401	0	14.415	0	5.739	0	0	14.415	14.401	1.723 MWD+IFR1+
														MS

					_									OWSG
Released to Imaging: 10/22/2025 3:50:49 PM	4200	0	0	4195.823	14.758	0	14.772	0	5.886	0	0	14.772	14.758	1.804 MWD+IFR1+ MS
ased	4300	0	0	4295.823	15.113	0	15.126	0	6.035	0	0	15.126	15.113	OWSG 1.885 MWD+IFR1+
to In	1300	J	Ü	1233.023	13.113	Ü	13.120	Ü	0.000	Ü	Ü	13.120	13.113	MS 🤾
nagi	4400	0	0	4395.823	15.469	0	15.485	0	6.186	0	0	15.485	15.469	OWSG 1.574 MWD+IFR1+
ng:														MS
10/2	4500	0	0	4495.823	15.827	0	15.84	0	6.341	0	0	15.84	15.827	OWSG 2.048 MWD+IFR1+
2/20.														MS OWSG
25 3.	4600	0	0	4595.823	16.183	0	16.199	0	6.498	0	0	16.199	16.183	1.704 MWD+IFR1+
:50:														MS OWSG
49 P	4700	0	0	4695.823	16.538	0	16.553	0	6.657	0	0	16.553	16.538	1.768 MWD+IFR1+
M														MS OWSG
	4800	0	0	4795.823	16.897	0	16.912	0	6.819	0	0	16.912	16.897	1.833 MWD+IFR1+
														MS OWSG
	4900	0	0	4895.823	17.251	0	17.268	0	6.984	0	0	17.268	17.251	1.583 MWD+IFR1+
														MS OWSG
	5000	0	0	4995.823	17.61	0	17.624	0	7.151	0	0	17.624	17.61	1.963 MWD+IFR1+
														MS OWSG
	5100	0	0	5095.823	17.967	0	17.981	0	7.321	0	0	17.981	17.967	2.028 MWD+IFR1+
														MS OWSG
	5200	0	0	5195.823	18.322	0	18.338	0	7.494	0	0	18.338	18.322	1.745 MWD+IFR1+
														MS OWSG
	5300	0	0	5295.823	18.679	0	18.695	0	7.669	0	0	18.695	18.679	1.799 MWD+IFR1+
														MS OWSG
	5400	0	0	5395.823	19.037	0	19.053	0	7.847	0	0	19.053	19.037	1.853 MWD+IFR1+
														MS OWSG
	5500	0	0	5495.823	19.393	0	19.409	0	8.027	0	0	19.409	19.393	1.907 MWD+IFR1+
														MS OWSG
	5600	0	0	5595.823	19.751	0	19.766	0	8.211	0	0	19.766	19.751	1.961 MWD+IFR1+
														MS OWSG
	5700	0	0	5695.823	20.107	0	20.125	0	8.397	0	0	20.125	20.107	1.728 MWD+IFR1+
														MS OWSG
	5800	0	0	5795.823	20.465	0	20.482	0	8.585	0	0	20.482	20.465	1.775 MWD+IFR1+
														MS I

														OWSG
R	5900	0	0	5895.8	323 20.823	0	20.84	0	8.777	0	0	20.84	20.823	1.821 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS 🚦
ase														owsg 🦹
d to	6000	0	0	5995.8	323 21.18	0	21.197	0	8.971	0	0	21.197	21.18	1.867 MWD+IFR1+
) II														MS 🦹
na														OWSG 🥈
gin	6100	0	0	6095.8	323 21.536	0	21.555	0	9.168	0	0	21.555	21.536	1.675 MWD+IFR1+
80														MS
10/	6300	0	0	C10F (	24 005	0	21.011	0	0.267	0	0	21.011	24 005	OWSG 1.96 MWD+IFR1+
22/	6200	0	0	6195.8	323 21.895	0	21.911	0	9.367	0	0	21.911	21.895	MS MS
20.														OWSG
25	6300	0	0	6295.8	323 22.251	0	22.269	0	9.57	0	0	22.269	22.251	1.756 MWD+IFR1+
3:5	0300	Ü	Ü	0255.0	22.231	ŭ	22.203	J	3.37	ŭ	Ŭ	22.203	22.231	MS
0:4														OWSG
9 F	6400	0	0	6395.8	323 22.61	0	22.625	0	9.775	0	0	22.625	22.61	2.053 MWD+IFR1+
×														MS
														OWSG
	6500	0	0	6495.8	323 22.967	0	22.983	0	9.983	0	0	22.983	22.967	2.099 MWD+IFR1+
														MS
	6600	•	0	6505.6	22 224		22.244		10.100		•	22.244	22.224	OWSG
	6600	0	0	6595.8	323 23.324	0	23.341	0	10.193	0	0	23.341	23.324	1.878 MWD+IFR1+
														MS OWSG
	6700	0	0	6695.8	323 23.681	0	23.698	0	10.407	0	0	23.698	23.681	1.918 MWD+IFR1+
	0700	O	Ü	0055.0	25.001	O	23.030	O	10.407	O	· ·	23.030	25.001	MS
														OWSG
	6800	0	0	6795.8	323 24.04	0	24.056	0	10.621	0	0	24.056	24.04	1.959 MWD+IFR1+
														MS
														OWSG
	6900	0	0	6895.8	323 24.397	0	24.413	0	10.84	0	0	24.413	24.397	1.999 MWD+IFR1+
														MS
	7000	•	0	6005	24 755		24 774		11.053		•	24.774	24755	OWSG
	7000	0	0	6995.8	323 24.755	0	24.771	0	11.063	0	0	24.771	24.755	2.04 MWD+IFR1+
														MS OWSG
	7100	0	0	7095.8	323 25.112	0	25.13	0	11.287	0	0	25.13	25.112	1.85 MWD+IFR1+
	7 100	Ü	Ü	,055.0	25.112	ŭ	23.13	J	11.207	ŭ	Ŭ	23.13	23.112	MS
														OWSG
	7200	0	0	7195.8	323 25.47	0	25.487	0	11.515	0	0	25.487	25.47	1.886 MWD+IFR1+
														MS
														OWSG
	7300	0	0	7295.8	323 25.826	0	25.846	0	11.743	0	0	25.846	25.826	1.73 MWD+IFR1+
														MS
	7400	0	0	7205 (	25.404	0	26 202	0	44.075	0	0	26 202	26.404	OWSG
	7400	0	0	7395.8	323 26.184	0	26.203	0	11.975	0	0	26.203	26.184	1.762 MWD+IFR1+
														MS OWSG
	7500	0	0	7495.8	323 26.542	0	26.561	0	12.211	0	0	26.561	26.542	1.795 MWD+IFR1+
		-	J	55.0	20.0 12	J	_5.501	v		J	Ü	_0.501	_0.5 12	MS MS
•														25

														OWSG
2	7600	0	0	7595.823	26.9	0	26.918	0	12.45	0	0	26.918	26.9	1.828 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS 🚦
1se														owsg 🦹
d to	7700	0	0	7695.823	27.258	0	27.276	0	12.693	0	0	27.276	27.258	1.86 MWD+IFR1+
) II														MS 🚶
na														OWSG 🚡
gin	7800	0	0	7795.823	27.615	0	27.633	0	12.938	0	0	27.633	27.615	1.893 MWD+IFR1+
ao														MS
10/	7000	•	•	7005 000	27.072		27.004	•	40.400	•	•	27.004	27.072	OWSG
22/	7900	0	0	7895.823	27.973	0	27.991	0	13.183	0	0	27.991	27.973	1.925 MWD+IFR1+
20														MS OWSG
25	8000	0	0	7995.823	28.332	0	28.35	0	13.435	0	0	28.35	28.332	1.957 MWD+IFR1+
3:5	8000	U	U	7993.823	20.332	U	20.33	U	13.433	U	U	26.33	26.332	MS
9														OWSG
19	8100	0	0	8095.823	28.69	0	28.707	0	13.686	0	0	28.707	28.69	1.99 MWD+IFR1+
P	0200	· ·		0000.020	_0.00	· ·	20.707	· ·	20.000	•		20.707	20.00	MS
														OWSG
	8200	0	0	8195.823	29.047	0	29.065	0	13.943	0	0	29.065	29.046	1.839 MWD+IFR1+
														MS
														OWSG
	8300	0	0	8295.823	29.404	0	29.423	0	14.202	0	0	29.423	29.404	1.868 MWD+IFR1+
														MS
														OWSG
	8400	0	0	8395.823	29.762	0	29.781	0	14.464	0	0	29.781	29.762	1.898 MWD+IFR1+
														MS
														OWSG
	8500	0	0	8495.823	30.12	0	30.14	0	14.728	0	0	30.14	30.12	1.767 MWD+IFR1+
														MS
,	2004.4	0	0	0507	20.402	0	20 504	0	44.007	2	0	20.504	20.402	OWSG
2	3601.1	0	0	8597	30.483	0	30.501	0	14.997	0	0	30.501	30.483	1.957 MWD+IFR1+
														MS OWSG
	8700	9.882	180	8695.333	30.515	0	30.84	0	15.261	0	0	30.84	30.82	1.772 MWD+IFR1+
	0700	5.002	100	0055.555	30.313	O	30.04	O	13.201	O	U	30.04	30.02	MS
														OWSG
	8800	19.88	180	8791.856	29.838	0	31.164	0	15.515	0	0	31.164	31.138	1.247 MWD+IFR1+
														MS
														OWSG
	8900	29.88	180	8882.459	28.505	0	31.475	0	15.742	0	0	31.475	31.432	0.669 MWD+IFR1+
														MS
														OWSG
	9000	39.88	180	8964.387	26.604	0	31.765	0	15.944	0	0	31.765	31.686	0.325 MWD+IFR1+
														MS
														OWSG
	9100	49.88	180	9035.153	24.281	0	32.031	0	16.121	0	0	32.031	31.89	0.171 MWD+IFR1+
														MS
	0200	E0 00	100	0002.000	24 764	0	22.205	0	16 202	0	0	22.205	22.047	OWSG
	9200	59.88	180	9092.606	21.761	0	32.265	0	16.282	0	0	32.265	32.047	0.116 MWD+IFR1+
														MS

														owsg
Re	9300	69.88	180	9135	19.362	0	32.465	0	16.435	0	0	32.465	32.14	0.092 MWD+IFR1+
tea														MS
Released to Imaging: 10/22/2025 3:50:49 PM														OWSG
l to	9400	79.88	180	9161.048	17.532	0	32.619	0	16.589	0	0	32.619	32.202	0.094 MWD+IFR1+
I														MS
Spi	0501.1	00	100	0160.050	16 754	0	22 744	0	16 754	0	^	22 744	22.224	OWSG
in	9501.1	90	180	9169.958	16.754	0	32.741	0	16.754	0	0	32.741	32.234	0.104 MWD+IFR1+
99														MS OWSG
9	9600	90	180	9169.958	16.938	0	32.848	0	16.938	0	0	32.848	32.234	0.111 MWD+IFR1+
2/	3000	50	100	3103.330	10.550	U	32.040	O	10.550	O	U	32.040	32.234	MS
202														OWSG
٠ 3	9700	89.99	179.9	9169.958	17.158	0	32.97	0	17.158	0	0	32.97	32.249	0.117 MWD+IFR1+
3														MS 💃
9:4														owsg 🄽
9 P	9800	89.99	179.9	9169.958	17.41	0	33.091	0	17.41	0	0	33.091	32.249	0.118 MWD+IFR1+
Z														MS
														OWSG
	9900	89.99	179.9	9169.958	17.692	0	33.242	0	17.692	0	0	33.242	32.265	0.117 MWD+IFR1+
														MS
														OWSG
	10000	89.99	179.9	9169.958	18.006	0	33.407	0	18.006	0	0	33.407	32.28	0.113 MWD+IFR1+
														MS
	10100	89.99	179.9	9169.958	18.347	0	33.571	0	18.347	0	0	33.571	32.296	OWSG 0.111 MWD+IFR1+
	10100	69.99	179.9	9109.936	10.547	U	33.3/1	U	10.547	U	U	55.5/1	32.290	MS
														OWSG
	10200	89.99	179.9	9169.958	18.717	0	33.749	0	18.716	0	0	33.749	32.311	0.107 MWD+IFR1+
				0 = 00 10 00				_		-				MS
														OWSG
	10300	89.99	179.9	9169.958	19.108	0	33.941	0	19.108	0	0	33.941	32.326	0.102 MWD+IFR1+
														MS
														OWSG
	10400	89.99	179.9	9169.958	19.525	0	34.147	0	19.524	0	0	34.147	32.342	0.097 MWD+IFR1+
														MS
	10500	00.00	470.0	0460.050	40.005	•	24.266	0	40.005	0	•	24.266	22.257	OWSG
	10500	89.99	179.9	9169.958	19.965	0	34.366	0	19.965	0	0	34.366	32.357	0.092 MWD+IFR1+
														MS OWSG
	10600	89.99	179.9	9169.958	20.423	0	34.598	0	20.423	0	0	34.598	32.373	0.087 MWD+IFR1+
	10000	65.55	175.5	3103.330	20.423	U	34.330	O	20.423	O	U	34.336	32.373	MS
														OWSG
	10700	89.99	179.9	9169.958	20.902	0	34.842	0	20.902	0	0	34.843	32.388	0.082 MWD+IFR1+
														MS
														OWSG
	10800	89.99	179.9	9169.958	21.401	0	35.086	0	21.401	0	0	35.086	32.419	0.077 MWD+IFR1+
														MS 🦸
														owsg 🚶
	10900	89.99	179.9	9169.958	21.914	0	35.355	0	21.913	0	0	35.355	32.435	0.072 MWD+IFR1+
														MS

														OWSG
Released to Imaging: 10/22/2025 3:50:49 PM	11000	89.99	179.9	9169.958	22.443	0	35.623	0	22.443	0	0	35.623	32.465	0.068 MWD+IFR1+ MS
ease														OWSG
d to	11100	89.99	179.9	9169.958	22.987	0	35.917	0	22.987	0	0	35.917	32.481	0.063 MWD+IFR1+
Im														MS OWSG
agi	11200	89.99	179.9	9169.959	23.546	0	36.208	0	23.546	0	0	36.208	32.512	0.058 MWD+IFR1+
s:														NAC 🍆
10/	11200	90.00	170.0	0160.050	24.116	0	26 51	0	24.116	0	0	26 51	22 527	OWSG 0.054 MWD+IFR1+
22/2	11300	89.99	179.9	9169.959	24.116	0	36.51	0	24.116	0	0	36.51	32.527	MS MS
202														OWSG
3:	11400	89.99	179.9	9169.959	24.698	0	36.824	0	24.698	0	0	36.824	32.558	0.049 MWD+IFR1+
50:														MS OWSG
19 I	11500	89.99	179.9	9169.959	25.292	0	37.148	0	25.292	0	0	37.148	32.588	OWSG 0.045 MWD+IFR1+ MS
N														1413
	11600	89.99	179.9	0160.050	25 804	0	37.47	0	25.894	0	0	37.47	32.619	OWSG
	11000	69.99	179.9	9169.959	25.894	0	37.47	0	23.694	0	0	37.47	32.019	0.041 MWD+IFR1+ MS
														OWSG
	11700	89.99	179.9	9169.959	26.509	0	37.815	0	26.508	0	0	37.815	32.634	0.037 MWD+IFR1+
														MS OWSG
	11800	89.99	179.8	9169.959	27.129	0	38.157	0	27.129	0	0	38.158	32.665	0.033 MWD+IFR1+
														MS
	11900	89.99	179.8	9169.959	27.76	0	38.523	0	27.76	0	0	38.523	32.696	OWSG 0.029 MWD+IFR1+
	11900	65.55	175.0	3103.333	27.70	U	36.323	O	27.70	O	U	36.323	32.090	MS
														OWSG
	12000	89.99	179.8	9169.959	28.397	0	38.884	0	28.397	0	0	38.884	32.741	0.025 MWD+IFR1+
														MS OWSG
	12100	89.99	179.8	9169.96	29.041	0	39.255	0	29.041	0	0	39.256	32.772	0.021 MWD+IFR1+
														MS
	12200	89.99	179.8	9169.96	29.693	0	39.636	0	29.693	0	0	39.636	32.802	OWSG 0.017 MWD+IFR1+
	12200	03.33	175.0	3103.30	25.055	Ü	33.030	Ü	23.033	Ŭ	Ü	33.030	32.002	MS
														OWSG
	12300	89.99	179.8	9169.96	30.351	0	40.025	0	30.351	0	0	40.025	32.833	0.014 MWD+IFR1+ MS
														OWSG
	12400	89.99	179.8	9169.96	31.016	0	40.423	0	31.016	0	0	40.423	32.879	0.01 MWD+IFR1+
														MS
	12500	89.99	179.8	9169.96	31.67	0	40.829	0	31.67	0	0	40.829	32.909	OWSG 0.007 MWD+IFR1+
		00.00	275.0	3203.30	02.07	· ·	.0.025	· ·	01.07	· ·	Ü	.0.023	02.000	MS 6
			.=	0.466		_		_		_				OWSG
	12600	89.99	179.8	9169.96	32.357	0	41.231	0	32.357	0	0	41.231	32.939	0.003 MWD+IFR1+ MS
•														IVIS

														OWSG
R	12700	89.99	179.8	9169.96	33.03	0	41.653	0	33.03	0	0	41.653	32.985	0 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS
ise														OWSG 📑
d to	12800	89.99	179.8	9169.961	33.719	0	42.071	0	33.719	0	0	42.071	33.03	-0.004 MWD+IFR1+
) In														MS T
na														OWSG 🚡
m.	12900	89.99	179.8	9169.961	34.409	0	42.509	0	34.409	0	0	42.509	33.061	-0.007 MWD+IFR1+
00														MS
10/	42000	00.00	470.0	04.50.054	25.4	•	42.042		25.4	•	•	12.010	22.406	OWSG -0.011 MWD+IFR1+
22/	13000	89.99	179.8	9169.961	35.1	0	42.942	0	35.1	0	0	42.942	33.106	
20														MS OWSG
25	13100	89.99	179.8	9169.961	35.791	0	43.382	0	35.791	0	0	43.382	33.151	-0.014 MWD+IFR1+
3:5	13100	69.99	175.0	9109.901	33.791	U	43.302	O	33.731	U	U	43.362	33.131	MS MS
9:														OWSG
19	13200	89.99	179.8	9169.961	36.497	0	43.829	0	36.497	0	0	43.829	33.196	-0.017 MWD+IFR1+
PN						-		-		-	-			MS
														OWSG
	13300	89.99	179.8	9169.962	37.202	0	44.283	0	37.202	0	0	44.283	33.242	-0.02 MWD+IFR1+
														MS
														OWSG
	13400	89.99	179.8	9169.962	37.908	0	44.732	0	37.908	0	0	44.733	33.287	-0.023 MWD+IFR1+
														MS
														OWSG
	13500	89.99	179.8	9169.962	38.613	0	45.199	0	38.613	0	0	45.2	33.332	-0.027 MWD+IFR1+
														MS
														OWSG
	13600	89.99	179.8	9169.962	39.319	0	45.662	0	39.319	0	0	45.662	33.377	-0.03 MWD+IFR1+
														MS
	12700	90.00	170.0	0160 063	40.027	0	46 141	0	40.027	0	0	46 141	22.422	OWSG
	13700	89.99	179.8	9169.962	40.037	0	46.141	0	40.037	0	0	46.141	33.422	-0.033 MWD+IFR1+ MS
														OWSG
	13800	89.99	179.8	9169.963	40.755	0	46.615	0	40.755	0	0	46.615	33.466	-0.036 MWD+IFR1+
	10000	03.03	275.0	3200.300	.0.755	·	.0.025	· ·		· ·	Ū	.0.010	331.00	MS
														OWSG
	13900	89.99	179.8	9169.963	41.473	0	47.096	0	41.473	0	0	47.096	33.511	-0.039 MWD+IFR1+
														MS
														OWSG
	14000	89.99	179.7	9169.963	42.202	0	47.581	0	42.202	0	0	47.582	33.571	-0.042 MWD+IFR1+
														MS
														OWSG
	14100	89.99	179.7	9169.963	42.93	0	48.073	0	42.93	0	0	48.073	33.615	-0.045 MWD+IFR1+
														MS
				0.0000		•					_			OWSG
	14200	89.99	179.7	9169.964	43.646	0	48.569	0	43.646	0	0	48.57	33.675	-0.048 MWD+IFR1+
														MS OWSG
	14300	89.99	179.7	9169.964	44.385	0	49.071	0	44.385	0	0	49.071	33.719	-0.051 MWD+IFR1+
	14300	03.33	1/3./	3103.304	44.303	U	45.0/1	U	44.303	U	U	45.071	33./13	N/C T
														IVIS

														OWSG
Re	14400	89.99	179.7	9169.964	45.111	0	49.578	0	45.111	0	0	49.578	33.779	-0.054 MWD+IFR1+
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ed 1	14500	89.99	179.7	9169.964	45.848	0	50.08	0	45.848	0	0	50.08	33.838	-0.056 MWD+IFR1+
10 I														MS 🕺
mag														OWSG
ging	14600	89.99	179.7	9169.965	46.573	0	50.586	0	46.573	0	0	50.587	33.882	-0.059 MWD+IFR1+ MS
-														OWSG
0/2	14700	89.99	179.7	9169.965	47.307	0	51.107	0	47.308	0	0	51.108	33.941	-0.062 MWD+IFR1+
2/2														MS
925													_	OWSG
3	14800	89.99	179.7	9169.965	48.052	0	51.623	0	48.052	0	0	51.624	34	-0.065 MWD+IFR1+
.0														MS OWSG
191	14900	89.99	179.7	9169.965	48.785	0	52.144	0	48.785	0	0	52.144	34.059	-0.068 MWD+IFR1+
Na														MS
														OWSG
	15000	89.99	179.7	9169.966	49.528	0	52.669	0	49.528	0	0	52.669	34.117	-0.071 MWD+IFR1+
														MS OWSG
	15100	89.99	179.7	9169.966	50.269	0	53.198	0	50.269	0	0	53.198	34.176	-0.073 MWD+IFR1+
					00.200			-			·			MS
														OWSG
	15200	89.99	179.7	9169.966	51.01	0	53.731	0	51.01	0	0	53.731	34.234	-0.076 MWD+IFR1+
														MS OWSG
	15300	89.99	179.7	9169.967	51.759	0	54.258	0	51.759	0	0	54.259	34.307	-0.079 MWD+IFR1+
	15500	03.33	175.7	3103.307	31.733	Ü	34.230	Ü	31.733	· ·	Ü	34.233	34.307	MS
														OWSG
	15400	89.99	179.7	9169.967	52.498	0	54.799	0	52.498	0	0	54.8	34.366	-0.082 MWD+IFR1+
														MS OWSG
	15500	89.99	179.7	9169.967	53.245	0	55.335	0	53.245	0	0	55.335	34.424	-0.084 MWD+IFR1+
	15500	03.33	175.7	3103.307	33.243	Ü	33.333	Ü	33.243	· ·	Ü	33.333	34.424	MS MS
														OWSG
	15600	89.99	179.7	9169.967	54	0	55.875	0	54	0	0	55.875	34.496	-0.087 MWD+IFR1+
														MS
	15700	89.99	179.7	9169.968	54.745	0	56.427	0	54.745	0	0	56.427	34.554	OWSG -0.09 MWD+IFR1+
	15700	03.33	175.7	3103.300	54.745	Ü	30.427	Ü	34.743	· ·	Ü	30.427	34.334	MS
														OWSG
	15800	89.99	179.7	9169.968	55.498	0	56.973	0	55.498	0	0	56.974	34.627	-0.092 MWD+IFR1+
														MS
	15900	89.99	179.7	9169.968	56.241	0	57.524	0	56.241	0	0	57.524	34.684	OWSG -0.095 MWD+IFR1++
	13300	33.33	1, 5.,	3103.300	JU.271	J	J1.J24	J	33.271	3	J	37.324	J-1.00-T	MS MS
														OWSG
	16000	89.99	179.7	9169.969	56.991	0	58.069	0	56.991	0	0	58.069	34.756	-0.098 MWD+IFR1+
														MS
-														

														OWSG
Re	16100	89.99	179.7	9169.969	57.749	0	58.626	0	57.749	0	0	58.626	34.814	-0.1 MWD+IFR1+
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sed	16200	89.99	179.6	9169.969	58.498	0	59.186	0	58.498	0	0	59.186	34.885	-0.103 MWD+IFR1+
to	10200	03.33	1,3.0	3103.303	30.130	Ü	33.100	ŭ	30.130	· ·	Ü	33.100	3 1.003	MS
ma														owsg 🖁
gin	16300	89.99	179.6	9169.97	59.254	0	59.741	0	59.254	0	0	59.741	34.957	-0.106 MWD+IFR1+
00														MS 🚼
10/	16400	00.00	170 C	0160.07	CO 000	0	CO 207	0	CO 000	0	0	60.200	25.020	OWSG -0.108 MWD+IFR1+
22/	16400	89.99	179.6	9169.97	60.008	0	60.307	0	60.008	0	0	60.308	35.028	-0.108 MWD+IFR1+
202														OWSG
3	16500	89.99	179.6	9169.971	60.762	0	60.868	0	60.762	0	0	60.869	35.1	-0.111 MWD+IFR1+
:56														MS 💃
1.49														OWSG
P	16600	89.99	179.6	9169.971	61.522	0	61.432	0	61.522	0	0	61.433	35.171	-0.114 MWD+IFR1+
X														MS OWSG
	16700	89.99	179.6	9169.971	62.282	0	62	0	62.282	0	0	62	35.242	-0.116 MWD+IFR1+
	10700	03.33	1,3.0	3103.371	02.202	Ü	02	ŭ	02.202	· ·	Ü	02	33.212	MS
														OWSG
	16800	89.99	179.6	9169.972	63.032	0	62.57	0	63.032	0	0	62.57	35.313	-0.119 MWD+IFR1+
														MS
	16000	90.00	170.6	0160 073	62.706	0	62 142	0	62.707	0	0	62 142	25 200	OWSG
	16900	89.99	179.6	9169.972	63.796	0	63.142	0	63.797	0	0	63.143	35.398	-0.121 MWD+IFR1+ MS
														OWSG
	17000	89.99	179.6	9169.972	64.552	0	63.718	0	64.552	0	0	63.718	35.468	-0.124 MWD+IFR1+
														MS
	.=		4=0.6	0.4.50.000		•		_	c= c.=				0= =00	OWSG
	17100	89.99	179.6	9169.973	65.315	0	64.288	0	65.315	0	0	64.289	35.539	-0.127 MWD+IFR1+
														MS OWSG
	17200	89.99	179.6	9169.973	66.076	0	64.869	0	66.076	0	0	64.869	35.623	-0.129 MWD+IFR1+
														MS
														OWSG
	17300	89.99	179.6	9169.974	66.836	0	65.444	0	66.836	0	0	65.445	35.693	-0.132 MWD+IFR1+
														MS OWSG
	17400	89.99	179.6	9169.974	67.594	0	66.03	0	67.594	0	0	66.03	35.777	-0.134 MWD+IFR1+
						-		_		-				MS
														OWSG
	17500	89.99	179.6	9169.974	68.352	0	66.61	0	68.352	0	0	66.611	35.847	-0.137 MWD+IFR1+
														MS
	17600	89.99	179.6	9169.975	69.116	0	67.193	0	69.116	0	0	67.194	35.93	OWSG -0.139 MWD+IFR1++
	17000	69.99	179.0	9109.973	03.110	U	07.133	O	09.110	O	U	07.134	33.93	MS MS
														owsg 1
	17700	89.99	179.6	9169.975	69.878	0	67.779	0	69.878	0	0	67.779	36.014	-0.142 MWD+IFR1+
														MS
•														N

														owsg
Re	17800	89.99	179.6	9169.976	70.647	0	68.366	0	70.647	0	0	68.367	36.097	-0.144 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS
sed	17900	89.99	179.6	9169.976	71.407	0	68.956	0	71.407	0	0	68.957	36.166	OWSG -0.147 MWD+IFR1+
to	17900	03.33	175.0	9109.970	71.407	U	06.530	U	71.407	U	U	08.937	30.100	MS MS
Im														owsg 🗍
ıgi.	18000	89.99	179.6	9169.977	72.173	0	69.541	0	72.173	0	0	69.542	36.249	-0.149 MWD+IFR1+
8														MS
10														OWSG -0.152 MWD+IFR1+
22	18100	89.99	179.6	9169.977	72.938	0	70.135	0	72.938	0	0	70.136	36.331	
20														MS OWSG
25	18200	89.99	179.6	9169.977	73.702	0	70.725	0	73.702	0	0	70.725	36.414	-0.154 MWD+IFR1+
3:5	18200	69.99	179.0	9109.977	73.702	U	70.723	O	73.702	O	U	70.723	30.414	MS MS
0:4														OWSC 1
9 P	18300	89.99	179.6	9169.978	74.465	0	71.316	0	74.465	0	0	71.316	36.51	-0.157 MWD+IFR1+
X														IVIS
														OWSG
	18400	89.99	179.6	9169.978	75.233	0	71.916	0	75.233	0	0	71.917	36.592	-0.159 MWD+IFR1+
														MS OWSG
	18500	89.99	179.5	9169.979	76	0	72.511	0	76	0	0	72.512	36.674	-0.162 MWD+IFR1+
	10300	03.33	175.5	3103.373	, 0	Ü	, 2.311	ŭ	, 0	· ·	Ü	, 2.312	30.07	MS
														OWSG
	18600	89.99	179.5	9169.979	76.766	0	73.109	0	76.766	0	0	73.11	36.756	-0.164 MWD+IFR1+
														MS
	10700	00.00	470 5	04.60.00	77.504	•	72 700	•	77.504	•	•	72 700	26.054	OWSG
	18700	89.99	179.5	9169.98	77.531	0	73.708	0	77.531	0	0	73.709	36.851	-0.167 MWD+IFR1+
														MS OWSG
	18800	89.99	179.5	9169.98	78.301	0	74.303	0	78.301	0	0	74.304	36.932	-0.169 MWD+IFR1+
														MS
														OWSG
	18900	89.99	179.5	9169.981	79.07	0	74.906	0	79.07	0	0	74.907	37.027	-0.172 MWD+IFR1+
														MS
	19000	89.99	179.5	9169.981	79.837	0	75.511	0	79.837	0	0	75.512	37.107	OWSG -0.174 MWD+IFR1+
	13000	69.99	179.5	9109.981	79.837	U	75.511	O	79.037	O	U	75.512	37.107	MS
														OWSG
	19100	89.99	179.5	9169.982	80.604	0	76.111	0	80.604	0	0	76.112	37.202	-0.177 MWD+IFR1+
														MS
														OWSG
	19200	89.99	179.5	9169.982	81.369	0	76.713	0	81.37	0	0	76.714	37.296	-0.179 MWD+IFR1+
														MS OWSG
	19300	89.99	179.5	9169.983	82.14	0	77.317	0	82.14	0	0	77.318	37.376	-0.181 MWD+IFR1+
					<b>-</b> ·	•		•	<b>-</b> ·	-	•		2	MS A
														owsg
	19400	89.99	179.5	9169.983	82.91	0	77.929	0	82.91	0	0	77.93	37.469	-0.184 MWD+IFR1+
														MS
•														

														OWSG
Re	19500	89.99	179.5	9169.984	83.678	0	78.536	0	83.678	0	0	78.537	37.563	-0.186 MWD+IFR1+
Released to Imaging: 10/22/2025 3:50:49 PM														MS
sec														OWSG
to	19600	89.99	179.5	9169.984	84.451	0	79.139	0	84.451	0	0	79.139	37.656	-0.189 MWD+IFR1+
Im														MS OWSG
Spi	19700	89.99	179.5	9169.985	85.217	0	79.749	0	85.217	0	0	79.75	37.748	-0.191 MWD+IFR1+
gni	13700	05.55	175.5	3103.303	05.217	O	75.745	O	03.217	O	U	75.75	37.740	N.4C
														OWSG
9/2	19800	89.99	179.5	9169.985	85.988	0	80.361	0	85.988	0	0	80.362	37.841	MS OWSG -0.194 MWD+IFR1+
2/2														MS
02:														owsg 🔭
3	19900	89.99	179.5	9169.986	86.758	0	80.969	0	86.758	0	0	80.97	37.933	-0.196 MWD+IFR1+
50														MS
:49	20000	00.00	470 5	04.50.005	07.500	•	04 504	•	07.500	•	•	04 505	20.020	OWSG
P	20000	89.99	179.5	9169.986	87.533	0	81.584	0	87.533	0	0	81.585	38.039	-0.199 MWD+IFR1+
														MS OWSG
	20100	89.99	179.5	9169.987	88.301	0	82.194	0	88.301	0	0	82.195	38.13	-0.201 MWD+IFR1+
	20100	05.55	175.5	3103.307	00.501	O	02.134	O	00.501	O	U	02.133	30.13	MS
														OWSG
	20200	89.99	179.5	9169.987	89.073	0	82.807	0	89.073	0	0	82.807	38.222	-0.203 MWD+IFR1+
														MS
														OWSG
	20300	89.99	179.5	9169.988	89.844	0	83.42	0	89.844	0	0	83.421	38.327	-0.206 MWD+IFR1+
														MS
	20.400	00.00	470 5	04.50.000	00.60	•	04.005	•	00.60	•	•	04.006	20.440	OWSG
	20400	89.99	179.5	9169.989	90.62	0	84.035	0	90.62	0	0	84.036	38.418	-0.208 MWD+IFR1+
														MS OWSG
	20500	89.99	179.5	9169.989	91.389	0	84.652	0	91.389	0	0	84.653	38.522	-0.211 MWD+IFR1+
				0-10100		-		-		-				MS
														OWSG
	20600	89.99	179.5	9169.99	92.163	0	85.27	0	92.163	0	0	85.271	38.612	-0.213 MWD+IFR1+
														MS
														OWSG
	20700	89.99	179.4	9169.99	92.935	0	85.888	0	92.935	0	0	85.89	38.716	-0.215 MWD+IFR1+
														MS
	20800	89.99	179.4	9169.991	93.707	0	86.503	0	93.707	0	0	86.505	38.819	OWSG -0.218 MWD+IFR1+
	20000	03.33	179.4	9109.991	95.707	U	00.303	U	95.707	0	U	80.303	30.019	MS
														OWSG
	20900	89.99	179.4	9169.991	94.477	0	87.125	0	94.478	0	0	87.127	38.922	-0.22 MWD+IFR1+
														MS
														OWSG
	21000	89.99	179.4	9169.992	95.252	0	87.743	0	95.252	0	0	87.744	39.012	-0.223 MWD+IFR1+
														MS 🦸
						_		_		_				OWSG
	21100	89.99	179.4	9169.993	96.026	0	88.362	0	96.026	0	0	88.363	39.114	-0.225 MWD+IFR1+
														MS

Relea	21200	89.99	179.4	9169.993	96.799	0	88.982	0	96.799	0	0	88.984	39.216	OWSG -0.227 MWD+IFR1+ MS
Released to Imaging: 10/22/2025 3:50:49 PM	21300	89.99	179.4	9169.994	97.57	0	89.604	0	97.57	0	0	89.605	39.318	OWSG -0.23 MWD+IFR1+ MS
naging:	21400	89.99	179.4	9169.995	98.346	0	90.227	0	98.346	0	0	90.228	39.419	OWSG -0.232 MWD+IFR1+ MS
10/22/20	21500	89.99	179.4	9169.995	99.121	0	90.851	0	99.121	0	0	90.852	39.533	OWSG -0.235 MWD+IFR1+ MS
125 3:50	21600	89.99	179.4	9169.996	99.895	0	91.476	0	99.895	0	0	91.477	39.634	OWSG -0.237 MWD+IFR1+
:49 PM	21700	89.99	179.4	9169.996	100.648	0	92.097	0	100.648	0	0	92.098	39.735	OWSG -0.239 MWD+IFR1+ MS
	21800	89.99	179.4	9169.997	101.44	0	92.725	0	101.44	0	0	92.726	39.848	OWSG -0.242 MWD+IFR1+ MS
	21900	89.99	179.4	9169.998	102.176	0	93.348	0	102.176	0	0	93.35	39.948	OWSG -0.244 MWD+IFR1+ MS
	22000	89.99	179.4	9169.998	102.956	0	93.973	0	102.956	0	0	93.974	40.061	OWSG -0.247 MWD+IFR1+ MS OWSG
	22100	89.99	179.4	9169.999	103.73	0	94.598	0	103.73	0	0	94.6	40.16	-0.249 MWD+IFR1+ MS OWSG
	22200	89.99	179.4	9170	104.499	0	95.225	0	104.499	0	0	95.227	40.272	-0.251 MWD+IFR1+ MS OWSG
	22256	89.99	179.4	9170	104.976	0	95.582	0	104.976	0	0	95.583	40.334	-0.253 MWD+IFR1+ MS

Plan Targets	Brushy Draw 30 Fed 701H				
	Measured Depth	Grid Northing	<b>Grid Easting</b>	TVD MSL Shape	
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 4	9501.09	397636.41	625614.42	6000 CIRCLE	
LTP 4	22106.61	385031.3	625677.61	6000 CIRCLE	

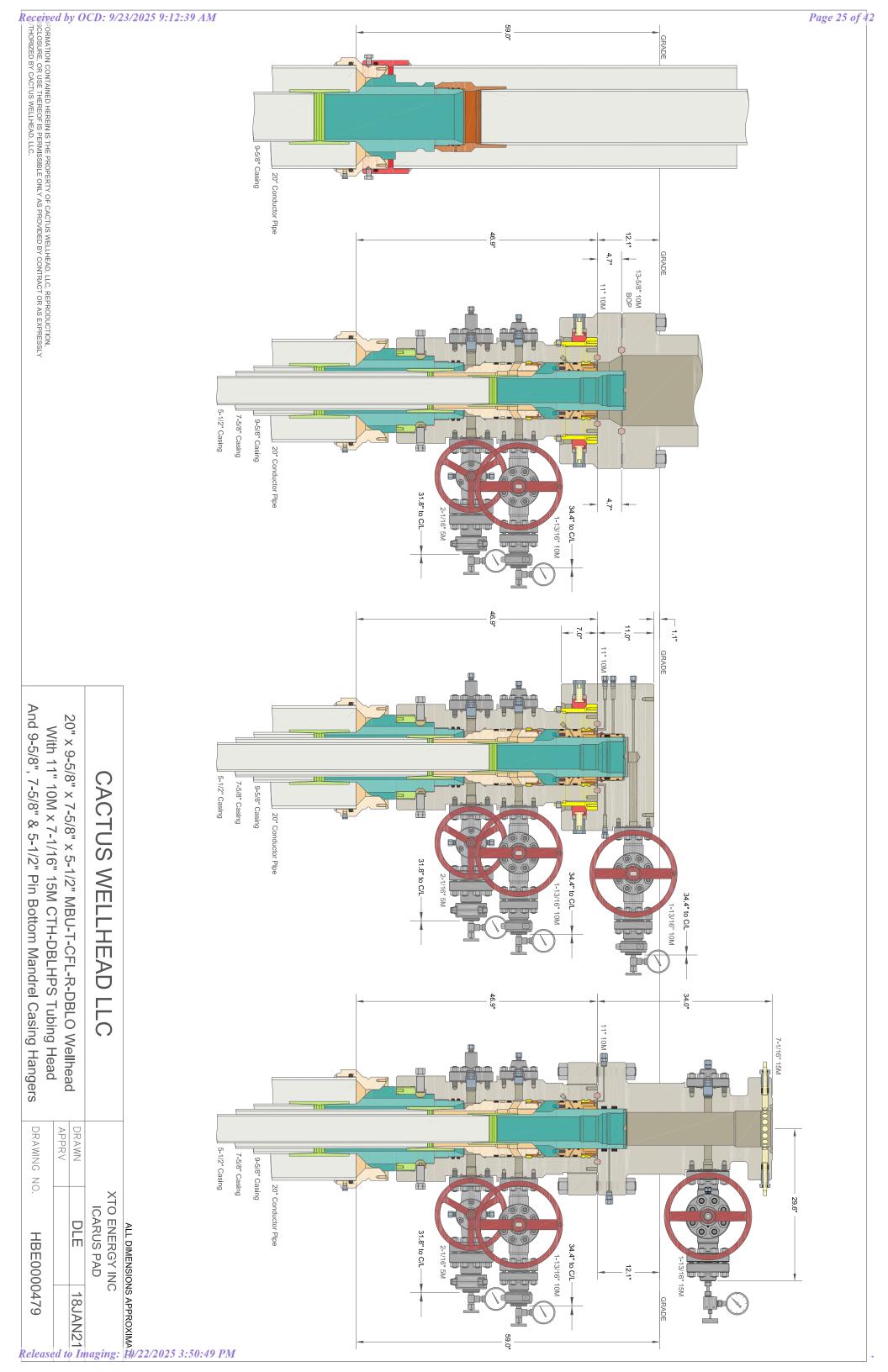
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22256.78

384881.06

625678.17

6000 CIRCLE



**<u>Subject:</u>** 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.

Table C.4—Initial Pressure Testing, Surface BOP Stacks  Pressure Test—High Pressure								
Component to be Pressure Tested	Pressure Test—Low 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 250 to 350 (1.72 to 2.41)  RWP of valve(s), line(s), or MASP for the well pro-whichever is lower								
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program						
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. Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. 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. 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.								

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.

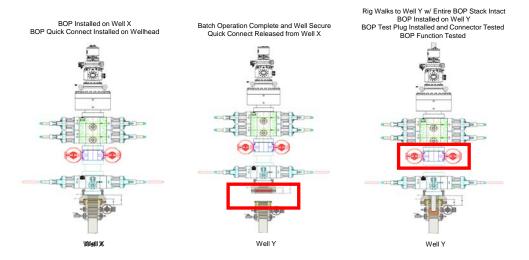
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

- 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



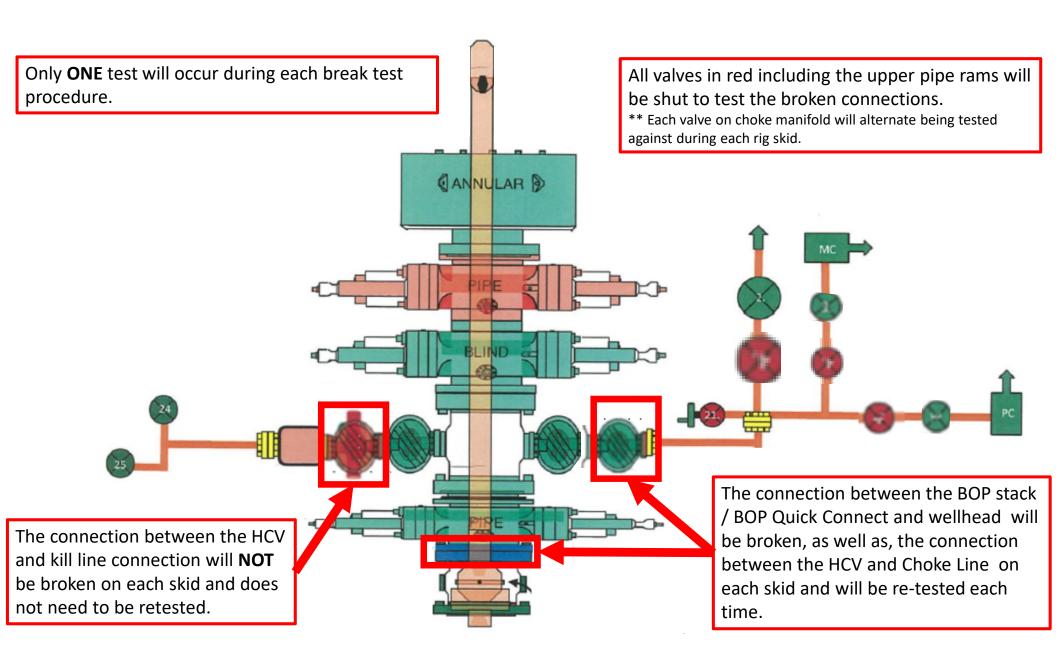
#### **Summary**

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.

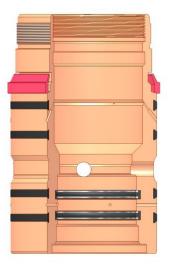
#### 1. Cement Program

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

#### 2. Offline Cementing Procedure

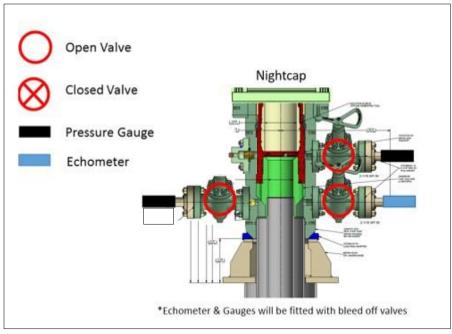
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

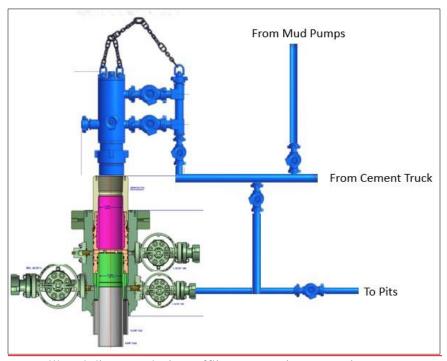
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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.
  - 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 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 2662752** 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 701H
LOCATION: Sec 30-25S-30E-NMP
COUNTY: Eddy County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled		☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	☐ 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 740 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. <u>Operator must run</u> 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 CountyCall 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 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 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 508339

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	508339
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	10/22/2025