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

DOK	EAU OF LAND MANAGEMENT			NMNM14785					
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee	or Tribe Name						
	FRIPLICATE - Other instructions on page	· ·	7. If Unit of CA/Agre	eement, Name and/or No.					
1. Type of Well		<u> </u>							
Oil Well Gas W	Vell Other		8. Well Name and No. BRUSHY DRAW 30 FEDERAL						
2. Name of Operator XTO PERMIAN	OPERATING LLC		9. API Well No. 300	 1545195					
	Bldg 5, Midland, TX 7970 3b. Phone No.	(include area code)	10. Field and Pool or						
, , , , , , , , , , , , , , , , , , , ,	(432) 682-887		Wildcat						
4. Location of Well (Footage, Sec., T.,R SEC 30/T25S/R30E/NMP	.,M., or Survey Description)		11. Country or Parish EDDY/NM	ı, State					
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NO	ΓΙCE, REPORT OR OT	HER DATA					
TYPE OF SUBMISSION		TYPE OF A	CTION						
Notice of Intent	Acidize Deep Alter Casing Hydr		oduction (Start/Resume)	Water Shut-Off Well Integrity					
Subsequent Report		· =	complete	Other					
Subsequent Report	Change Plans Plug	and Abandon Ter	mporarily Abandon						
Final Abandonment Notice	Convert to Injection Plug	Back Wa	ter Disposal						
completion of the involved operation completed. Final Abandonment Not is ready for final inspection.) **Spacing, Casing/Cement, Dr. XTO Permian Operating, LLC No Additional Surface Disturbate Change BHL fr/2440FNL & 16: Casing/Cement design per the Batch & Spudder Rig Attachments: C102 Continued on page 3 additional	requests permission to make the following ance 50FWL to 2460FNL & 1100FWL attached drilling program.	npletion or recompletion in s, including reclamation, ha	a new interval, a Form 2 we been completed and	3160-4 must be filed once testing has been					
14. I hereby certify that the foregoing is STEPHANIE RABADUE / Ph: (432)	true and correct. Name (Printed/Typed)	Regulatory Coordi	nator						
STEPHANIE RABADUE / FII. (432)	7 020-07 14	Title							
Signature		Date	04/21/2	2022					
	THE SPACE FOR FEDI	ERAL OR STATE O	FICE USE						
Approved by									
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Petroleum Er Title	ngineer	04/22/2022 Date					
	ned. Approval of this notice does not warran equitable title to those rights in the subject leduct operations thereon.)						

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

 $0. \ SHL: SWSW / 330 \ FSL / 1145 \ FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.09451 / LONG: -103.925597 (\ TVD: 0 \ feet, MD: 0 \ feet) \\ PPP: \ NENW / 330 \ FNL / 1650 \ FWL / TWSP: 25S / RANGE: 30E / SECTION: 31 / LAT: 32.092699 / LONG: -103.923962 (\ TVD: 9254 \ feet, MD: 11100 \ feet) \\ BHL: \ SENW / 2440 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 30 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 22432 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 26S / RANGE: 30E / SECTION: 30 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 24430 \ feet, MD: 24430 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet, MD: 24430 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / TWSP: 25S / RANGE: 30E / SECTION: 30 / LAT: 32.057686 / LONG: -103.923905 (\ TVD: 9300 \ feet) \\ NENW / 320 \ FNL / 1650 \ FWL / 1650$

<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

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

District III

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbo 30 - 0 1 5 - 4 5 1		² Pool Code 3 Pool Name 13354 Corral Canyon; Bone Spring, South				
⁴ Property Code	,	5 P	Property Name	⁶ Well Number		
322241		BRUSHY I	DRAW 30 FEDERAL	703H		
⁷ OGRID No.		⁹ Elevation				
373075		3,090'				

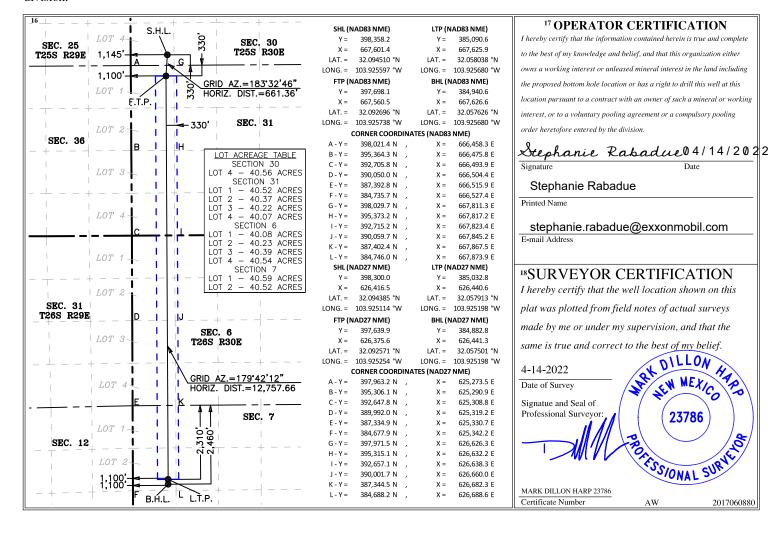
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	30	25 S	30 E		330	SOUTH	1,145	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range Lot I		Feet from the	North/South line	Feet from the	East/West line	County
2	7	26 S	30 E		2,460	NORTH	1,100	WEST	EDDY
12 Dedicated Acres	¹³ Joint or	· 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 703H Projected TD: 22902' MD / 9727' 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	640'	Water
Top of Salt	1040'	Water
Base of Salt	3265'	Water
Delaware	3470'	Water
Brushy Canyon	6260'	Water/Oil/Gas
Bone Spring	7285'	Water
1st Bone Spring Ss	8190'	Water/Oil/Gas
2nd Bone Spring Ss	8785'	Water/Oil/Gas
3rd Bone Spring Sh	9645'	Water/Oil/Gas
Target/Land Curve	9760'	Water/Oil/Gas

^{***} 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 @ 740' (300' 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 8780' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22902 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8480 feet).

3. Casing Design

Hole Size	TVD	Measured Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	740'	0' – 740'	9.625	40	J-55	втс	New	1.58	7.68	21.28
8.75	3998'	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.76	2.65	2.14
8.75	8797'	4000' – 8780'	7.625	29.7	HC L-80	Flush Joint	New	2.74	2.28	2.86
6.75	8697'	0' - 8680'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.67	2.20
6.75	9727'	8680' - 22902'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.39	5.45

- · 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
- · XTO requests to not utilize centralizers in the curve and lateral
- \cdot 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- · 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- · Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- · XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System A. Starting Head: 11" 10M top flange x 9-5/8" bottom

- B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange
 - · Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - · Operator will test the 7-5/8" casing per BLM Onshore Order 2
 - · Wellhead Manufacturer representative will not be present for BOP test plug installation

^{***} 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 +/- 740'

Lead: 140 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 +/- 8780'

<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: 230 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6260

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6260') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22902'

 Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:
 8480 feet

 Tail: 980 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:
 9151 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 2514 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
	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 740'	12.25	FW/Native	8.7-9.2	35-40	NC
740' - 8780'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8780' - 22902'	6.75	ОВМ	9.2-9.7	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4654 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 703H

Mesured Description: 22902.01 ft

9727.00 ft

TVE RKB:

Canographic New Mexico
East - NAD
2

Reference System:

27

Northing: 398301.16 ft

626424.53 ft Easting:

3170.00 ft RKB:

Ground 3140.00 ft Level:

North

Grid Reference:

Convergence 0.22 Deg

Angle:

Site:

BD 30 Pad B

Brushy Draw Slot:

30 Fed 703H

Plan Sections	Brushy Draw 30 Fed 703H							
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) Target
0	0	0	0	0.01	0	0	0	0

Si Contraction	
S	
sition	Brushy Drav
rtainty	30 Fed 703H

2500

2619.27 5383.2 5502.46

9151.46

9151.46 9601.46 10065.31

2902.01

0

2.39

2.39

0

0

45

90

90

2500

2619.23

5380.77

5500

9149

9554.14

9727.72

9727

0.01

0.01

0.01

0.01

0.01

-163.51

-578.12

-13414.65

0

-2.48

-120

-120

-82.25

-41.92

23.19

-117.52

0

2

0

-2

0

10

9.7

0

0

0

0

0

0

2.74

0

2

0

2

0

10

10

0 BHL 5

0

270

270

0

0

167

179.7

179.7

Measured			TVD	Highside		Lateral		Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	OWSG 0 MWD+IFR1+ MS 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 OWSG
500	0	0	500	1.792	0	1.792	0	2.364	0	0	1.792	1.792	0 MWD+IFR1+ MS OWSG
600	0	0	600	2.151	0	2.151	0	2.394	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
800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	OWSG 0 MWD+IFR1+1 MS

														OWSG
Re	900	0	0	900	3.226	0	3.226	0	2.511	0	0	3.226	3.226	0 MWD+IFR1+
Released to Imaging: 10/22/2025 3:57:13 PM														MS
sed	1000	0	0	1000	3.585	0	3.585	0	2.56	0	0	3.585	3.585	OWSG
6	1000	0	0	1000	3.363	0	5.363	0	2.50	0	0	5.565	3.363	0 MWD+IFR1+ MS
Im														owsg 🔭
igi	1100	0	0	1100	3.943	0	3.943	0	2.613	0	0	3.943	3.943	0 MWD+IFR1+
:81														MS 💃
10/	1200	•	•	1200	4 202	•	4 202	•	2.67	•	•	4 202	4 202	OWSG
22/	1200	0	0	1200	4.302	0	4.302	0	2.67	0	0	4.302	4.302	0 MWD+IFR1+ MS
202														OWSG
53	1300	0	0	1300	4.66	0	4.66	0	2.731	0	0	4.66	4.66	0 MWD+IFR1+
:57														MS 💃
:13											_			OWSG
PA	1400	0	0	1400	5.019	0	5.019	0	2.797	0	0	5.019	5.019	0 MWD+IFR1+ MS
														OWSG
	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	5.736	0	5.736	0	2.939	0	0	5.736	5.736	0 MWD+IFR1+ MS
														OWSG
	1700	0	0	1700	6.094	0	6.094	0	3.016	0	0	6.094	6.094	0 MWD+IFR1+
														MS
				1000							_			OWSG
	1800	0	0	1800	6.452	0	6.452	0	3.096	0	0	6.452	6.452	0 MWD+IFR1+ MS
														OWSG
	1900	0	0	1900	6.811	0	6.811	0	3.179	0	0	6.811	6.811	0 MWD+IFR1+
														MS
	2000	•		2000	7.460	•	7.460	•	2 266	•	•	7.460	7.460	OWSG
	2000	0	0	2000	7.169	0	7.169	0	3.266	0	0	7.169	7.169	0 MWD+IFR1+ MS
														OWSG
	2100	0	0	2100	7.528	0	7.528	0	3.355	0	0	7.528	7.528	0 MWD+IFR1+
														MS
	2200	0	0	2200	7.000	0	7.006	0	2.440	0	0	7.006	7.006	OWSG
	2200	0	0	2200	7.886	0	7.886	0	3.448	0	0	7.886	7.886	0 MWD+IFR1+ MS
														OWSG
	2300	0	0	2300	8.245	0	8.245	0	3.544	0	0	8.245	8.245	0 MWD+IFR1+
														MS
	2400	0	0	2400	9 602	0	0.602	0	2.642	0	0	9 602	9.602	OWSG
	2400	0	0	2400	8.603	0	8.603	0	3.643	0	0	8.603	8.603	0 MWD+IFR1+ MS
														OWSG
	2500	0	0	2500	8.962	0	8.962	0	3.745	0	0	8.962	8.962	0 MWD+IFR1+
														MS 🕺
•														2

														OWSG
Rel	2600 19.267 2700 2800 2900 3000	2	270	2599.98	9.306	0	9.311	0	3.849	0	0	9.311	9.311	-1.01 MWD+IFR1+
leas														MS OWSG
26	19.267	2.385	270	2619.233	9.37	0	9.376	0	3.868	0	0	9.377	9.376	-0.6 MWD+IFR1+
tol														MS
ma														owsg 🖁
gin	2700	2.385	270	2699.896	9.645	0	9.651	0	3.955	0	0	9.652	9.651	-1.749 MWD+IFR1+
00														MS
10/	2800	2.385	270	2799.809	9.988	0	9.993	0	4.065	0	0	9.994	9.993	OWSG -3.598 MWD+IFR1+
22/	2000	2.363	270	2799.009	9.900	U	9.995	U	4.005	0	U	9.994	9.995	-5.596 MS
202														OWSG
53	2900	2.385	270	2899.723	10.331	0	10.336	0	4.178	0	0	10.338	10.336	-5.604 MWD+IFR1+
:57														MS 🖁
:13						_								OWSG
P	3000	2.385	270	2999.636	10.676	0	10.681	0	4.294	0	0	10.682	10.681	-7.618 MWD+IFR1+
×														MS OWSG
	3100	2.385	270	3099.549	11.021	0	11.026	0	4.412	0	0	11.027	11.026	-9.55 MWD+IFR1+
	0100	2.000	_, _	00001010		· ·	11.010	· ·		· ·				MS
														OWSG
	3200	2.385	270	3199.463	11.368	0	11.372	0	4.533	0	0	11.373	11.372	-11.356 MWD+IFR1+
														MS
	2200	2 205	270	2200 276	11 715	0	11 710	0	4.657	0	0	11.72	11 710	OWSG
	3300	2.385	270	3299.376	11.715	0	11.718	0	4.657	0	0	11.72	11.718	-13.014 MWD+IFR1+ MS
														OWSG
	3400	2.385	270	3399.289	12.063	0	12.066	0	4.783	0	0	12.068	12.066	-14.52 MWD+IFR1+
														MS
						_								OWSG
	3500	2.385	270	3499.203	12.411	0	12.414	0	4.912	0	0	12.416	12.414	-15.879 MWD+IFR1+
														MS OWSG
	3600	2.385	270	3599.116	12.761	0	12.763	0	5.043	0	0	12.765	12.763	-17.1 MWD+IFR1+
														MS
														OWSG
	3700	2.385	270	3699.03	13.11	0	13.112	0	5.177	0	0	13.115	13.112	-18.197 MWD+IFR1+
														MS
	3800	2.385	270	3798.943	13.461	0	13.462	0	5.314	0	0	13.465	13.462	OWSG -19.181 MWD+IFR1+
	3000	2.303	270	3730.343	13.401	O	13.402	O	3.314	O .	U	13.403	13.402	MS
														OWSG
	3900	2.385	270	3898.856	13.811	0	13.812	0	5.453	0	0	13.816	13.812	-20.065 MWD+IFR1+
														MS
	4000	2 205	270	2000 77	44460		44460	•		•	•	44467	44460	OWSG
	4000	2.385	270	3998.77	14.163	0	14.163	0	5.595	0	0	14.167	14.163	-20.86 MWD+IFR1+ MS
														OWSG
	4100	2.385	270	4098.683	14.514	0	14.514	0	5.74	0	0	14.518	14.514	-21.577 MWD+IFR1+
														MS 🐧
•														2

R	4200	2.385	270	4198.596	14.866	0	14.866	0	5.887	0	0	14.87	14.865	OWSG -22.224 MWD+IFR1+
Released to Imaging: 10/22/2025 3:57:13 PM														MS
sed	4300	2.385	270	4298.51	15.219	0	15.218	0	6.036	0	0	15.222	15.217	OWSG -22.81 MWD+IFR1+
to I						-		-		-				MS 🥤
mag	4400	2 205	270	1200 122	45.570	•	45.57	•	6.400	•	•	45 575	45.500	OWSG
ging	4400	2.385	270	4398.423	15.572	0	15.57	0	6.189	0	0	15.575	15.569	-23.342 MWD+IFR1+ MS
:: 10														OWSG
1/22	4500	2.385	270	4498.336	15.925	0	15.923	0	6.343	0	0	15.928	15.922	-23.825 MWD+IFR1+
/20.														MS OWSG
25 3	4600	2.385	270	4598.25	16.278	0	16.276	0	6.501	0	0	16.281	16.275	-24.265 MWD+IFR1+
8:57														MS 🚆
:13	4700	2 205	270	4600 463	16 622	0	16 620	0	C CC1	0	0	16 624	16 620	OWSG
$P\lambda$	4700	2.385	270	4698.163	16.632	0	16.629	0	6.661	0	0	16.634	16.628	-24.667 MWD+IFR1+ MS
1														OWSG
	4800	2.385	270	4798.076	16.985	0	16.982	0	6.823	0	0	16.988	16.981	-25.035 MWD+IFR1+
														MS OWSG
	4900	2.385	270	4897.99	17.34	0	17.336	0	6.989	0	0	17.342	17.335	-25.372 MWD+IFR1+
														MS
	5000	2 205	270	4007.002	17.604	0	17.60	0	7.157	0	0	17.696	17.600	OWSG
	5000	2.385	270	4997.903	17.694	0	17.69	0	7.157	0	0	17.090	17.688	-25.681 MWD+IFR1+ MS
														OWSG
	5100	2.385	270	5097.816	18.048	0	18.044	0	7.327	0	0	18.051	18.042	-25.964 MWD+IFR1+
														MS OWSG
	5200	2.385	270	5197.73	18.403	0	18.398	0	7.5	0	0	18.405	18.397	-26.226 MWD+IFR1+
														MS
	5300	2.385	270	5297.643	18.758	0	18.753	0	7.676	0	0	18.76	18.751	OWSG -26.466 MWD+IFR1+
	3300	2.363	270	3237.043	10.750	O	10.755	O	7.070	O	U	18.70	10.751	-20.400 WWD+IFK1+ MS
														OWSG
53	83.196	2.385	270	5380.767	19.053	0	19.048	0	7.824	0	0	19.055	19.046	-26.65 MWD+IFR1+
														MS OWSG
	5400	2.049	270	5397.558	19.115	0	19.107	0	7.855	0	0	19.115	19.105	-26.759 MWD+IFR1+
														MS
55	02.463	0	0	5500	19.47	0	19.475	0	8.04	0	0	19.477	19.468	OWSG -26.985 MWD+IFR1+
33	02.403	O	O	3300	13.47	O	13.473	O	0.04	O .	U	13.477	13.400	MS MS
														OWSG
	5600	0	0	5597.537	19.814	0	19.82	0	8.219	0	0	19.822	19.812	-26.76 MWD+IFR1+
														MS OWSG
	5700	0	0	5697.537	20.167	0	20.173	0	8.405	0	0	20.175	20.165	-26.533 MWD+IFR1+
I .														MS
•														.9

														OWSG
Released to Imaging: 10/22/2025 3:57:13 PM	5800	0	0	5797.537	20.521	0	20.526	0	8.594	0	0	20.528	20.519	-26.309 MWD+IFR1+ MS
asea								•						owsg 🦹
l to	5900	0	0	5897.537	20.874	0	20.88	0	8.785	0	0	20.881	20.872	-26.088 MWD+IFR1+ MS
Ima														owsg 🖁
gin	6000	0	0	5997.537	21.228	0	21.233	0	8.979	0	0	21.235	21.226	-25.87 MWD+IFR1+
g: 1														MS OWSG
0/2	6100	0	0	6097.537	21.582	0	21.587	0	9.176	0	0	21.589	21.58	-25.655 MWD+IFR1+
2/2(MS 💃
125	6200	0	0	6197.537	21.935	0	21.941	0	9.375	0	0	21.943	21.934	OWSG -25.444 MWD+IFR1+
3:5	0200	U	U	0197.557	21.933	U	21.941	U	9.373	U	U	21.943	21.934	-23.444 MWD+IFK1+
7:13														owsg 🏃
8 PA	6300	0	0	6297.537	22.29	0	22.295	0	9.578	0	0	22.297	22.288	-25.235 MWD+IFR1+
														MS OWSG
	6400	0	0	6397.537	22.644	0	22.649	0	9.783	0	0	22.651	22.642	-25.029 MWD+IFR1+
														MS
	6500	0	0	6497.537	22.998	0	23.004	0	9.99	0	0	23.005	22.997	OWSG -24.826 MWD+IFR1+
	0300	U	U	0497.337	22.330	U	23.004	U	9.99	U	U	23.003	22.337	-24.820 WWD+IFK1+ MS
														OWSG
	6600	0	0	6597.537	23.353	0	23.358	0	10.201	0	0	23.36	23.351	-24.626 MWD+IFR1+
														MS OWSG
	6700	0	0	6697.537	23.707	0	23.713	0	10.414	0	0	23.714	23.706	-24.428 MWD+IFR1+
														MS
	6800	0	0	6707 527	24.002	0	24.000	0	10.62	0	0	24.000	24.064	OWSG
	6800	0	0	6797.537	24.062	0	24.068	0	10.63	0	0	24.069	24.061	-24.234 MWD+IFR1+ MS
														OWSG
	6900	0	0	6897.537	24.417	0	24.423	0	10.849	0	0	24.424	24.416	-24.042 MWD+IFR1+
														MS OWSG
	7000	0	0	6997.537	24.772	0	24.777	0	11.071	0	0	24.779	24.771	-23.853 MWD+IFR1+
														MS
					05.405		0= 100					0= 404	25.426	OWSG
	7100	0	0	7097.537	25.127	0	25.133	0	11.295	0	0	25.134	25.126	-23.666 MWD+IFR1+ MS
														OWSG
	7200	0	0	7197.537	25.482	0	25.488	0	11.523	0	0	25.489	25.481	-23.483 MWD+IFR1+
														MS
	7300	0	0	7297.537	25.837	0	25.843	0	11.753	0	0	25.844	25.836	OWSG -23.301 MWD+IFR1++
	7500	Ü	Ü	7237.337	23.037	ŭ	23.013	Ü	11.755	Ü	Ü	23.011	23.030	MS A
														owsg 🧎
	7400	0	0	7397.537	26.193	0	26.198	0	11.986	0	0	26.199	26.191	-23.122 MWD+IFR1+
														MS

														OWSG
K	7500	0	0	7497.537	26.548	0	26.554	0	12.221	0	0	26.555	26.547	-22.946 MWD+IFR1+
Released to Imaging: 10/22/2025 3:57:13 PM	7500	Ü	Ü	, 137.337	20.3 10	Ü	20.33 1	· ·	12.221	Ü	Ü	20.333	20.5 17	MS
as														OWSG
ed	7600	0	0	7597.537	26.904	0	26.909	0	12.46	0	0	26.91	26.902	-22.772 MWD+IFR1+
to 1														MS 🕺
lma														owsg 🔭
igi	7700	0	0	7697.537	27.259	0	27.265	0	12.701	0	0	27.266	27.258	-22.601 MWD+IFR1+
80														MS 🛊
10														owsg 🧗
1/2	7800	0	0	7797.537	27.615	0	27.62	0	12.946	0	0	27.621	27.614	-22.432 MWD+IFR1+
2/2														MS 👫
02														OWSG 🔭
53.	7900	0	0	7897.537	27.97	0	27.976	0	13.193	0	0	27.977	27.969	-22.265 MWD+IFR1+
:57														MS 🖁
1:														OWSG 🚡
3 P	8000	0	0	7997.537	28.326	0	28.332	0	13.443	0	0	28.333	28.325	-22.101 MWD+IFR1+
M														MS
														OWSG
	8100	0	0	8097.537	28.682	0	28.688	0	13.696	0	0	28.689	28.681	-21.939 MWD+IFR1+
														MS
														OWSG
	8200	0	0	8197.537	29.038	0	29.044	0	13.951	0	0	29.045	29.037	-21.779 MWD+IFR1+
														MS
						_				•	_			OWSG
	8300	0	0	8297.537	29.394	0	29.4	0	14.21	0	0	29.401	29.393	-21.621 MWD+IFR1+
														MS OWSG
	9400	0	0	0207 527	20.75	0	20.756	0	14 471	0	0	20.757	20.740	
	8400	U	0	8397.537	29.75	0	29.756	0	14.471	0	0	29.757	29.749	-21.465 MWD+IFR1+ MS
														OWSG
	8500	0	0	8497.537	30.106	0	30.112	0	14.736	0	0	30.113	30.105	-21.312 MWD+IFR1+
	0300	Ü	Ū	0437.337	30.100	Ü	50.112	Ü	14.750	· ·	O	30.113	30.103	MS
														OWSG
	8600	0	0	8597.537	30.462	0	30.468	0	15.003	0	0	30.469	30.461	-21.16 MWD+IFR1+
														MS
														OWSG
	8700	0	0	8697.537	30.818	0	30.824	0	15.273	0	0	30.825	30.818	-21.011 MWD+IFR1+
														MS
														OWSG
	8800	0	0	8797.537	31.175	0	31.18	0	15.546	0	0	31.181	31.174	-20.864 MWD+IFR1+
														MS
														OWSG
	8900	0	0	8897.537	31.531	0	31.537	0	15.822	0	0	31.538	31.53	-20.719 MWD+IFR1+
														MS
														OWSG
	9000	0	0	8997.537	31.887	0	31.893	0	16.101	0	0	31.894	31.886	-20.575 MWD+IFR1+
														MS
														OWSG 🚶
	9100	0	0	9097.537	32.244	0	32.249	0	16.383	0	0	32.25	32.243	-20.434 MWD+IFR1+
														MS
•														2

R 151.463	0	0	9149	32.427	0	32.433	0	16.529	0	0	32.434	32.426	OWSG -20.362 MWD+IFR1+ MS
<i>sed to I</i>	4.854	167	9197.479	32.499	0	32.6	0	16.666	0	0	32.6	32.593	OWSG -20.951 MWD+IFR1+ MS
naging: 9300	14.854	167	9295.879	32.089	0	32.925	0	16.942	0	0	32.926	32.914	OWSG -21.995 MWD+IFR1+ MS
Released 9200 10/22/2025 3:57:13 PM	24.854	167	9389.816	30.974	0	33.239	0	17.196	0	0	33.239	33.214	OWSG -20.252 MWD+IFR1+ MS
9500 9500	34.854	167	9476.436	29.229	0	33.533	0	17.422	0	0	33.534	33.479	OWSG -17.849 MWD+IFR1+ MS
601.463	45	167	9554.142	26.948	0	33.806	0	17.621	0	0	33.806	33.701	OWSG -16.161 MWD+IFR1+ MS
9700	54.452	170.662	9617.781	24.567	0	34.041	0	17.791	0	0	34.042	33.868	OWSG -14.729 MWD+IFR1+ MS
9800	64.134	173.581	9668.793	22.105	0	34.246	0	17.947	0	0	34.249	33.99	OWSG -13.035 MWD+IFR1+ MS
9900	73.865	176.053	9704.593	19.967	0	34.414	0	18.095	0	0	34.419	34.066	OWSG -11.269 MWD+IFR1+ MS
10000	83.622	178.292	9724.092	18.61	0	34.541	0	18.245	0	0	34.55	34.105	OWSG -9.76 MWD+IFR1+ MS
10065.31	90	179.7	9727.724	18.345	0	34.601	0	18.345	0	0	34.612	34.117	OWSG -9.059 MWD+IFR1+ MS
10100	90	179.7	9727.724	18.401	0	34.63	0	18.401	0	0	34.641	34.121	OWSG -8.699 MWD+IFR1+ MS
10200	90	179.7	9727.724	18.584	0	34.723	0	18.584	0	0	34.733	34.131	OWSG -7.446 MWD+IFR1+ MS OWSG
10300	90	179.7	9727.724	18.799	0	34.83	0	18.799	0	0	34.837	34.142	-6.391 MWD+IFR1+ MS OWSG
10400	90	179.7	9727.724	19.043	0	34.948	0	19.043	0	0	34.955	34.154	-5.513 MWD+IFR1+ MS OWSG
10500	90	179.7	9727.724	19.316	0	35.079	0	19.316	0	0	35.085	34.166	-4.784 MWD+IFR1+ MS OWSG
10600	90	179.7	9727.724	19.617	0	35.222	0	19.617	0	0	35.227	34.179	-4.178 MWD+IFR1+ MS

90	170 7											OWSG
	179.7	9727.724	19.944	0	35.377	0	19.944	0	0	35.381	34.194	-3.673 MWD+IFR1+
												MS OWSG
90	179.7	9727.724	20.296	0	35.544	0	20.296	0	0	35.548	34.209	-3.251 MWD+IFR1+
30	1,3.,	3,2,.,21	20.230	Ŭ	33.311	S	20.230	ŭ	Ü	33.3 10	3 1.203	MS
												owsg 🥈
90	179.7	9727.724	20.672	0	35.723	0	20.672	0	0	35.726	34.225	-2.896 MWD+IFR1+
												MS
90	179 7	9727 724	21 071	0	35 913	0	21 071	0	n	35 916	34 242	OWSG -2.595 MWD+IFR1+
30	173.7	3727.724	21.071	Ü	33.313	Ü	21.071	Ü	Ü	33.310	54.242	MS
												owsg 🏌
90	179.7	9727.724	21.49	0	36.115	0	21.49	0	0	36.117	34.259	-2.339 MWD+IFR1+
												MS
90	179 7	9727 724	21 93	0	36 327	0	21 93	0	0	36 329	34 278	OWSG -2.12 MWD+IFR1+
30	1,3.,	3,2,.,21	21.33	Ŭ	30.327	S	21.55	ŭ	Ü	30.323	31.273	MS
												OWSG
90	179.7	9727.724	22.389	0	36.551	0	22.389	0	0	36.552	34.298	-1.931 MWD+IFR1+
												MS OWSG
90	179 7	9727 724	22 866	0	36 785	0	22 866	0	0	36 786	34 319	-1.768 MWD+IFR1+
30	1,3.,	3,2,.,21	22.000	ŭ	30.703	S	22.000	ŭ	Ü	30.700	31.313	MS
												OWSG
90	179.7	9727.724	23.359	0	37.029	0	23.359	0	0	37.031	34.34	-1.626 MWD+IFR1+
												MS OWSG
90	179.7	9727.724	23.867	0	37.285	0	23.867	0	0	37.286	34.363	-1.502 MWD+IFR1+
						-		-				MS
												OWSG
90	179.7	9727.724	24.391	0	37.55	0	24.391	0	0	37.551	34.387	-1.392 MWD+IFR1+
												MS OWSG
90	179.7	9727.724	24.928	0	37.825	0	24.928	0	0	37.826	34.411	-1.296 MWD+IFR1+
												MS
												OWSG
90	179.7	9727.724	25.478	0	38.11	0	25.478	0	0	38.11	34.437	-1.211 MWD+IFR1+
												MS OWSG
90	179.7	9727.724	26.04	0	38.404	0	26.04	0	0	38.405	34.463	-1.135 MWD+IFR1+
												MS
			25.542			_	00.010					OWSG
90	1/9./	9/2/./24	26.613	0	38.707	0	26.613	0	0	38.708	34.491	-1.067 MWD+IFR1+ MS
												OWSG
90	179.7	9727.724	27.197	0	39.02	0	27.197	0	0	39.02	34.519	-1.006 MWD+IFR1+
												MS 🦸
00	1707	0727 724	27.704	•	20.244	•	27 704	•	0	20.242	24 540	OWSG
90	1/9./	9/2/./24	27./91	U	39.341	U	27./91	U	U	39.342	34.549	-0.952 MWD+IFR1+ MS
												IVIS
	90 90 90 90 90 90 90 90	90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7 90 179.7	90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724 90 179.7 9727.724	90 179.7 9727.724 20.672 90 179.7 9727.724 21.071 90 179.7 9727.724 21.49 90 179.7 9727.724 21.93 90 179.7 9727.724 22.389 90 179.7 9727.724 22.866 90 179.7 9727.724 23.359 90 179.7 9727.724 23.867 90 179.7 9727.724 24.391 90 179.7 9727.724 24.391 90 179.7 9727.724 25.478 90 179.7 9727.724 26.04 90 179.7 9727.724 26.613 90 179.7 9727.724 27.197	90 179.7 9727.724 20.672 0 90 179.7 9727.724 21.071 0 90 179.7 9727.724 21.49 0 90 179.7 9727.724 21.93 0 90 179.7 9727.724 22.389 0 90 179.7 9727.724 22.389 0 90 179.7 9727.724 23.359 0 90 179.7 9727.724 23.359 0 90 179.7 9727.724 23.867 0 90 179.7 9727.724 24.391 0 90 179.7 9727.724 24.391 0 90 179.7 9727.724 24.928 0 90 179.7 9727.724 25.478 0 90 179.7 9727.724 26.04 0 90 179.7 9727.724 26.04 0	90 179.7 9727.724 20.672 0 35.723 90 179.7 9727.724 21.071 0 35.913 90 179.7 9727.724 21.49 0 36.115 90 179.7 9727.724 21.93 0 36.327 90 179.7 9727.724 22.389 0 36.551 90 179.7 9727.724 22.866 0 36.785 90 179.7 9727.724 23.359 0 37.029 90 179.7 9727.724 23.867 0 37.285 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.928 0 37.825 90 179.7 9727.724 25.478 0 38.11 90 179.7 9727.724 26.04 0 38.404 90 179.7 9727.724 26.613 0 38.707 90 179.7 9727.724 26.613 0 39.02	90 179.7 9727.724 20.672 0 35.723 0 90 179.7 9727.724 21.071 0 35.913 0 90 179.7 9727.724 21.49 0 36.115 0 90 179.7 9727.724 21.93 0 36.327 0 90 179.7 9727.724 22.389 0 36.551 0 90 179.7 9727.724 22.389 0 36.551 0 90 179.7 9727.724 23.359 0 37.029 0 90 179.7 9727.724 23.359 0 37.029 0 90 179.7 9727.724 23.867 0 37.285 0 90 179.7 9727.724 24.391 0 37.55 0 90 179.7 9727.724 24.391 0 37.55 0 90 179.7 9727.724 24.928 0 37.825 0 90 179.7 9727.724 25.478 0 38.11 0 90 179.7 9727.724 26.613 0 38.404 0 90 179.7 9727.724 26.613 0 38.707 0 90 179.7 9727.724 26.613 0 38.707 0	90 179.7 9727.724 20.672 0 35.723 0 20.672 90 179.7 9727.724 21.071 0 35.913 0 21.071 90 179.7 9727.724 21.49 0 36.115 0 21.49 90 179.7 9727.724 21.93 0 36.327 0 21.93 90 179.7 9727.724 22.389 0 36.551 0 22.389 90 179.7 9727.724 22.866 0 36.785 0 22.866 90 179.7 9727.724 23.359 0 37.029 0 23.359 90 179.7 9727.724 23.359 0 37.029 0 23.359 90 179.7 9727.724 24.391 0 37.55 0 24.391 90 179.7 9727.724 24.391 0 37.825 0 24.928 90 179.7 9727.724 24.928 0 37.825 0 24.928 90 179.7 9727.724 25.478 0 38.11 0 25.478 90 179.7 9727.724 26.613 0 38.404 0 26.04 90 179.7 9727.724 26.613 0 38.707 0 26.613	90 179.7 9727.724 20.672 0 35.723 0 20.672 0 90 179.7 9727.724 21.071 0 35.913 0 21.071 0 90 179.7 9727.724 21.49 0 36.115 0 21.49 0 90 179.7 9727.724 21.93 0 36.327 0 21.93 0 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 90 179.7 9727.724 22.866 0 36.785 0 22.866 0 90 179.7 9727.724 23.359 0 37.029 0 23.359 0 90 179.7 9727.724 23.867 0 37.285 0 23.867 0 90 179.7 9727.724 24.391 0 37.55 0 24.391 0 90 179.7 9727.724 24.391 0 37.55 0 24.391 0 90 179.7 9727.724 24.928 0 37.825 0 24.928 0 90 179.7 9727.724 25.478 0 38.11 0 25.478 0 90 179.7 9727.724 26.04 0 38.404 0 26.04 0 90 179.7 9727.724 26.613 0 38.707 0 26.613 0	90 179.7 9727.724 20.672 0 35.723 0 20.672 0 0 90 179.7 9727.724 21.071 0 35.913 0 21.071 0 0 90 179.7 9727.724 21.49 0 36.115 0 21.49 0 0 90 179.7 9727.724 21.93 0 36.327 0 21.93 0 0 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 0 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 0 90 179.7 9727.724 23.359 0 37.029 0 23.359 0 0 90 179.7 9727.724 23.359 0 37.029 0 23.359 0 0 90 179.7 9727.724 23.867 0 37.285 0 23.867 0 0 90 179.7 9727.724 24.391 0 37.55 0 24.391 0 0 90 179.7 9727.724 24.391 0 37.55 0 24.391 0 0 90 179.7 9727.724 24.391 0 37.825 0 24.391 0 0 90 179.7 9727.724 25.478 0 38.11 0 25.478 0 0 90 179.7 9727.724 26.04 0 38.404 0 26.04 0 0 90 179.7 9727.724 26.613 0 38.707 0 26.613 0 0	90 179.7 9727.724 20.672 0 35.723 0 20.672 0 0 35.726 90 179.7 9727.724 21.071 0 35.913 0 21.071 0 0 35.916 90 179.7 9727.724 21.49 0 36.115 0 21.49 0 0 36.117 90 179.7 9727.724 21.93 0 36.327 0 21.93 0 0 36.329 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 0 36.552 90 179.7 9727.724 22.389 0 36.785 0 22.866 0 0 36.786 90 179.7 9727.724 23.359 0 37.029 0 23.359 0 0 37.031 90 179.7 9727.724 23.367 0 37.285 0 23.867 0 0 37.286 90 179.7 9727.724 24.391 0 37.555 0 24.391 0 0 37.551 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 24.391 0 37.825 90 179.7 9727.724 25.478 0 38.11 0 25.478 0 0 38.405 90 179.7 9727.724 26.613 0 38.404 0 26.04 0 0 38.405 90 179.7 9727.724 26.613 0 38.707 0 26.613 0 0 38.708	90 179.7 9727.724 21.071 0 35.723 0 20.672 0 0 35.726 34.225 90 179.7 9727.724 21.071 0 35.913 0 21.071 0 0 35.916 34.242 90 179.7 9727.724 21.49 0 36.115 0 21.49 0 0 36.117 34.259 90 179.7 9727.724 21.93 0 36.327 0 21.93 0 0 36.329 34.278 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 0 36.552 34.298 90 179.7 9727.724 22.389 0 36.551 0 22.389 0 0 36.552 34.298 90 179.7 9727.724 23.866 0 36.785 0 22.866 0 0 36.786 34.319 90 179.7 9727.724 23.859 0 37.029 0 23.359 0 0 37.031 34.34 90 179.7 9727.724 23.867 0 37.285 0 23.867 0 0 37.286 34.363 90 179.7 9727.724 24.391 0 37.555 0 24.391 0 0 37.551 34.387 90 179.7 9727.724 24.391 0 37.555 0 24.391 0 0 37.551 34.387 90 179.7 9727.724 24.391 0 37.825 0 24.928 0 0 37.826 34.411 90 179.7 9727.724 25.478 0 38.11 0 25.478 0 0 38.401 90 179.7 9727.724 26.613 0 38.404 0 26.04 0 0 38.405 34.491 90 179.7 9727.724 26.613 0 38.707 0 26.613 0 0 38.708 34.491 90 179.7 9727.724 26.613 0 38.707 0 26.613 0 0 38.708 34.491

														OWSG
Released to Imaging: 10/22/2025 3:57:13 PM	12400	90	179.7	9727.724	28.394	0	39.671	0	28.394	0	0	39.672	34.579	-0.903 MWD+IFR1+
ase														owsg
d to	12500	90	179.7	9727.724	29.006	0	40.009	0	29.006	0	0	40.01	34.61	-0.858 MWD+IFR1+ MS
Ima														owsg 🖁
gin	12600	90	179.7	9727.724	29.626	0	40.356	0	29.626	0	0	40.356	34.643	-0.818 MWD+IFR1+
g: 1														MS OWSG -0.781 MWD+IFR1+
0/22	12700	90	179.7	9727.724	30.253	0	40.711	0	30.253	0	0	40.711	34.676	-0.781 MWD+IFR1+
/20.														MS OWSG
25 3	12800	90	179.7	9727.724	30.888	0	41.073	0	30.888	0	0	41.073	34.71	-0.748 MWD+IFR1+
:57:														MS
:13	12900	90	179.7	9727.724	31.529	0	41.443	0	31.529	0	0	41.443	34.745	OWSG -0.718 MWD+IFR1+
РМ	12000		27317	<i>57</i> = 7.77 = 1	01.010	· ·		·	01.010	· ·			0 10	MS
	12000	00	470.7	0727.724	22.477	0	44.02	0	22.477	0	0	44.02	24.704	OWSG
	13000	90	179.7	9727.724	32.177	0	41.82	0	32.177	0	0	41.82	34.781	-0.69 MWD+IFR1+ MS
														OWSG
	13100	90	179.7	9727.724	32.831	0	42.204	0	32.831	0	0	42.204	34.819	-0.664 MWD+IFR1+
														MS OWSG
	13200	90	179.7	9727.724	33.49	0	42.596	0	33.49	0	0	42.596	34.857	-0.641 MWD+IFR1+
														MS OWSG
	13300	90	179.7	9727.724	34.155	0	42.994	0	34.155	0	0	42.994	34.896	-0.619 MWD+IFR1+
														MS OWSG
	13400	90	179.7	9727.724	34.825	0	43.398	0	34.825	0	0	43.399	34.936	-0.599 MWD+IFR1+
														MS
	13500	90	179.7	9727.724	35.499	0	43.81	0	35.499	0	0	43.81	34.976	OWSG -0.581 MWD+IFR1+
	13300	30	175.7	3121.124	33.433	O	43.01	O	33.433	O	O	43.01	34.370	MS MS
					00.470	•			00.470				2= 212	OWSG
	13600	90	179.7	9727.724	36.178	0	44.227	0	36.178	0	0	44.227	35.018	-0.564 MWD+IFR1+ MS
														OWSG
	13700	90	179.7	9727.724	36.861	0	44.65	0	36.861	0	0	44.65	35.061	-0.548 MWD+IFR1+
														MS OWSG
	13800	90	179.7	9727.724	37.548	0	45.08	0	37.548	0	0	45.08	35.105	-0.533 MWD+IFR1+
														MS OWSG
	13900	90	179.7	9727.724	38.239	0	45.515	0	38.239	0	0	45.515	35.149	-0.52 MWD+IFR1+
														MS
	14000	90	179.7	9727.724	38.934	0	45.955	0	38.934	0	0	45.955	35.195	OWSG -0.507 MWD+IFR1+
			***			-		-		-	•			MS
•														2

														OWSG
Released to Imaging: 10/22/2025 3:57:13 PM	14100	90	179.7	9727.724	39.631	0	46.401	0	39.631	0	0	46.401	35.241	-0.495 MWD+IFR1+ MS
ısed	14200	90	179.7	9727.724	40.332	0	46.853	0	40.332	0	0	46.853	35.289	OWSG
to	14200	90	1/9./	9/2/./24	40.552	0	40.655	0	40.532	0	U	40.055	33.209	-0.484 MWD+IFR1+ MS
ma														owsg 🥈
ging	14300	90	179.7	9727.724	41.036	0	47.309	0	41.036	0	0	47.309	35.337	-0.474 MWD+IFR1+
9: 1														MS OWSG
0/2:	14400	90	179.7	9727.724	41.743	0	47.77	0	41.743	0	0	47.77	35.386	-0.464 MWD+IFR1+
2/20														MS
25	14500	90	179.7	9727.724	42.453	0	48.236	0	42.453	0	0	48.236	35.436	OWSG -0.455 MWD+IFR1+
3:5	14300	30	173.7	3727.724	42.433	U	40.230	U	42.433	U	U	48.230	33.430	MS
7:13														owsg
PA	14600	90	179.7	9727.724	43.165	0	48.707	0	43.165	0	0	48.707	35.487	-0.446 MWD+IFR1+
														MS OWSG
	14700	90	179.7	9727.724	43.88	0	49.182	0	43.88	0	0	49.182	35.539	-0.438 MWD+IFR1+
														MS
	14800	90	179.7	9727.724	44.597	0	49.662	0	44.597	0	0	49.662	35.592	OWSG -0.431 MWD+IFR1+
	14800	30	173.7	3727.724	44.557	U	43.002	U	44.557	U	U	49.002	33.332	MS
														OWSG
	14900	90	179.7	9727.724	45.316	0	50.146	0	45.316	0	0	50.146	35.645	-0.424 MWD+IFR1+
														MS OWSG
	15000	90	179.7	9727.724	46.038	0	50.634	0	46.038	0	0	50.634	35.7	-0.417 MWD+IFR1+
														MS
	15100	90	179.7	9727.724	46.761	0	51.126	0	46.761	0	0	51.126	35.755	OWSG -0.411 MWD+IFR1+
	13100	30	173.7	3727.724	40.701	U	51.120	U	40.701	U	U	31.120	33.733	MS
														OWSG
	15200	90	179.7	9727.724	47.487	0	51.622	0	47.487	0	0	51.623	35.812	-0.405 MWD+IFR1+ MS
														OWSG
	15300	90	179.7	9727.724	48.214	0	52.122	0	48.214	0	0	52.122	35.869	-0.399 MWD+IFR1+
														MS
	15400	90	179.7	9727.724	48.943	0	52.626	0	48.943	0	0	52.626	35.927	OWSG -0.394 MWD+IFR1+
	10.00		27317	37271121	.0.0 .0		32.323	Ü	.6.5 .6			02.020	00.027	MS
														OWSG
	15500	90	179.7	9727.724	49.674	0	53.133	0	49.674	0	0	53.133	35.986	-0.389 MWD+IFR1+ MS
														OWSG
	15600	90	179.7	9727.724	50.406	0	53.644	0	50.406	0	0	53.644	36.046	-0.384 MWD+IFR1+
														MS OWSG
	15700	90	179.7	9727.724	51.14	0	54.158	0	51.14	0	0	54.158	36.106	-0.38 MWD+IFR1+
												-	-	MS
•														2

														OWSG
R	15800	90	179.7	9727.724	51.876	0	54.675	0	51.876	0	0	54.675	36.168	-0.376 MWD+IFR1+
ele														MS 🚦
ase														owsg
Released to Imaging: 10/22/2025 3:57:13 PM	15900	90	179.7	9727.724	52.612	0	55.196	0	52.612	0	0	55.196	36.23	-0.372 MWD+IFR1+
0 1														MS 🕺
Ma.														owsg 🖁
81	16000	90	179.7	9727.724	53.351	0	55.72	0	53.351	0	0	55.72	36.293	-0.368 MWD+IFR1+🊏
99														MS 💃
10														OWSG -0.364 MWD+IFR1+
22	16100	90	179.7	9727.724	54.09	0	56.247	0	54.09	0	0	56.247	36.357	-0.364 MWD+IFR1+
2														MS 🕌
925														OWSG
w	16200	90	179.7	9727.724	54.831	0	56.776	0	54.831	0	0	56.776	36.422	-0.361 MWD+IFR1+
57														MS 📑
:13														OWSG
P	16300	90	179.7	9727.724	55.573	0	57.309	0	55.573	0	0	57.309	36.488	-0.358 MWD+IFR1+
Z														MS
	16400	00	470.7	0707.704	56.046	•	57.044	•	56.246	•	•	57.044	26.554	OWSG
	16400	90	179.7	9727.724	56.316	0	57.844	0	56.316	0	0	57.844	36.554	-0.355 MWD+IFR1+
														MS
	16500	00	170.7	0727 724	F7.06	0	F0 202	0	F7.06	0	0	E0 202	26 622	OWSG
	16500	90	179.7	9727.724	57.06	0	58.382	0	57.06	0	0	58.382	36.622	-0.352 MWD+IFR1+
														MS OWSG
	16600	90	179.7	9727.724	57.806	0	58.923	0	57.806	0	0	58.923	36.69	-0.349 MWD+IFR1+
	10000	30	173.7	3727.724	37.800	O	30.323	O	37.800	U	U	38.923	30.09	-0.549 MWD111 K11
														OWSG
	16700	90	179.7	9727.724	58.552	0	59.466	0	58.552	0	0	59.466	36.759	-0.346 MWD+IFR1+
	10700	30	1,3.,	3,2,.,2	30.332	Ü	33.100	Ü	30.332	Ü	Ŭ	33.100	30.733	MS
														OWSG
	16800	90	179.7	9727.724	59.3	0	60.012	0	59.3	0	0	60.012	36.829	-0.344 MWD+IFR1+
														MS
														OWSG
	16900	90	179.7	9727.724	60.048	0	60.56	0	60.048	0	0	60.56	36.899	-0.341 MWD+IFR1+
														MS
														OWSG
	17000	90	179.7	9727.724	60.797	0	61.111	0	60.797	0	0	61.111	36.971	-0.339 MWD+IFR1+
														MS
														OWSG
	17100	90	179.7	9727.724	61.547	0	61.664	0	61.547	0	0	61.664	37.043	-0.337 MWD+IFR1+
														MS
						_		_			_			OWSG
	17200	90	179.7	9727.724	62.298	0	62.219	0	62.298	0	0	62.219	37.116	-0.335 MWD+IFR1+
														MS
	47200	00	470.7	0727.724	62.05	0	62.776	0	62.05	0	•	62.776	27.40	OWSG
	17300	90	179.7	9727.724	63.05	0	62.776	0	63.05	0	0	62.776	37.19	-0.333 MWD+IFR1+
														MS OWSG
	17400	90	179.7	9727.724	63.803	0	63.335	0	63.803	0	0	63.335	37.264	-0.331 MWD+IFR1+
	1/400	30	1/3./	3141.144	03.603	0	03.333	0	03.003	0	0	03.333	37.204	MS T
														IVIS

														OWSG
R	17500	90	179.7	9727.724	64.556	0	63.897	0	64.556	0	0	63.897	37.339	-0.329 MWD+IFR1+
Released to Imaging: 10/22/2025 3:57:13 PM														MS 🚦
ase														owsg 🚦
dt	17600	90	179.7	9727.724	65.31	0	64.46	0	65.31	0	0	64.46	37.415	-0.327 MWD+IFR1+
0 I														MS 🕺
ma														OWSG 🖁
89.	17700	90	179.7	9727.724	66.065	0	65.025	0	66.065	0	0	65.025	37.492	-0.325 MWD+IFR1+
00														MS 🔭
10														OWSG -0.324 MWD+IFR1+
22	17800	90	179.7	9727.724	66.821	0	65.593	0	66.821	0	0	65.593	37.57	
20														MS T
125					_	_								OWSG
S	17900	90	179.7	9727.724	67.577	0	66.162	0	67.577	0	0	66.162	37.648	-0.322 MWD+IFR1+
57:														MS
13	10000	00	170.7	0727 724	CO 224	0	CC 722	0	CO 224	0	^	CC 722	27 727	OWSG
P	18000	90	179.7	9727.724	68.334	0	66.733	0	68.334	0	0	66.733	37.727	-0.321 MWD+IFR1+
														MS OWSG
	18100	90	179.7	9727.724	69.091	0	67.306	0	69.091	0	0	67.306	37.807	-0.319 MWD+IFR1+
	18100	30	1/9./	3727.724	09.091	U	07.300	U	09.091	U	U	07.300	37.807	MS
														OWSG
	18200	90	179.7	9727.724	69.849	0	67.88	0	69.849	0	0	67.88	37.888	-0.318 MWD+IFR1+
	10200	30	1,3.,	3,2,.,2.	03.0 13	Ü	07.00	Ü	03.013	Ü	Ŭ	07.00	37.000	MS
														OWSG
	18300	90	179.7	9727.724	70.608	0	68.456	0	70.608	0	0	68.456	37.969	-0.317 MWD+IFR1+
														MS
														OWSG
	18400	90	179.7	9727.724	71.367	0	69.034	0	71.367	0	0	69.034	38.051	-0.315 MWD+IFR1+
														MS
														OWSG
	18500	90	179.7	9727.724	72.127	0	69.613	0	72.127	0	0	69.613	38.134	-0.314 MWD+IFR1+
														MS
														OWSG
	18600	90	179.7	9727.724	72.887	0	70.194	0	72.887	0	0	70.194	38.218	-0.313 MWD+IFR1+
														MS
	10700	00	170.7	0727 724	72.640	0	70 777	0	72.640	0	^	70 777	20.202	OWSG
	18700	90	179.7	9727.724	73.648	0	70.777	0	73.648	0	0	70.777	38.302	-0.312 MWD+IFR1+
														MS OWSG
	18800	90	179.7	9727.724	74.409	0	71.361	0	74.409	0	0	71.361	38.387	-0.311 MWD+IFR1+
	18800	30	1/9./	3727.724	74.403	U	71.301	O	74.403	U	U	71.301	36.367	MS
														OWSG
	18900	90	179.7	9727.724	75.171	0	71.946	0	75.171	0	0	71.946	38.472	-0.31 MWD+IFR1+
	20000		2.5	3727772	70.272	· ·	7 2.5 .0	· ·	70.272	· ·		7 2.5 .6	33.172	MS
														OWSG
	19000	90	179.7	9727.724	75.933	0	72.533	0	75.933	0	0	72.533	38.559	-0.309 MWD+IFR1+
														MS 🦸
														owsg 🧜
	19100	90	179.7	9727.724	76.696	0	73.121	0	76.696	0	0	73.121	38.646	-0.308 MWD+IFR1+
														MS 🖠
•														1

L			1-0-				-0-1							OWSG
Released to Imaging:	19200	90	179.7	9727.724	77.459	0	73.71	0	77.459	0	0	73.71	38.734	-0.307 MWD+IFR1+
ase														owsg
d to	19300	90	179.7	9727.724	78.222	0	74.301	0	78.222	0	0	74.301	38.822	-0.306 MWD+IFR1+
Im														MS OWSG
agi	19400	90	179.7	9727.724	78.986	0	74.893	0	78.986	0	0	74.893	38.911	-0.305 MWD+IFR1+
.sa														MS
10/							==			•				OWSG
22/	19500	90	179.7	9727.724	79.751	0	75.486	0	79.751	0	0	75.486	39.001	-0.304 MWD+IFR1+
202														OWSG
53	19600	90	179.7	9727.724	80.516	0	76.081	0	80.516	0	0	76.081	39.092	-0.304 MWD+IFR1+
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13	19700	90	179.7	9727.724	81.281	0	76.677	0	81.281	0	0	76.677	39.183	OWSG -0.303 MWD+IFR1+
PN	19700	90	1/3./	3727.724	01.201	U	70.077	U	61.261	U	U	70.077	33.103	MS
														OWSG
	19800	90	179.7	9727.724	82.046	0	77.273	0	82.046	0	0	77.273	39.275	-0.302 MWD+IFR1+
														MS OWSG
	19900	90	179.7	9727.724	82.812	0	77.871	0	82.812	0	0	77.871	39.367	-0.301 MWD+IFR1+
				37271721	02.022	·	77.07.2	·	02.022		Ū	,,,,,,,	00.007	MS
														OWSG
	20000	90	179.7	9727.724	83.578	0	78.471	0	83.578	0	0	78.471	39.46	-0.301 MWD+IFR1+
														MS OWSG
	20100	90	179.7	9727.724	84.345	0	79.071	0	84.345	0	0	79.071	39.554	-0.3 MWD+IFR1+
														MS
	20200	00	470.7	0727.724	05.442	0	70.672	0	05 443	0	0	70.672	20.640	OWSG
	20200	90	179.7	9727.724	85.112	0	79.672	0	85.112	0	0	79.672	39.649	-0.299 MWD+IFR1+ MS
														OWSG
	20300	90	179.7	9727.724	85.879	0	80.274	0	85.879	0	0	80.274	39.744	-0.299 MWD+IFR1+
														MS
	20400	90	179.7	9727.724	86.647	0	80.878	0	86.647	0	0	80.878	39.839	OWSG -0.298 MWD+IFR1+
	20400	30	1,3.,	3727.724	00.047	Ü	00.070	Ü	00.047	· ·	Ü	00.070	33.033	MS
														OWSG
	20500	90	179.7	9727.724	87.415	0	81.482	0	87.415	0	0	81.482	39.936	-0.298 MWD+IFR1+
														MS OWSG
	20600	90	179.7	9727.724	88.183	0	82.087	0	88.183	0	0	82.087	40.033	-0.297 MWD+IFR1+
														MS
														OWSG
	20700	90	179.7	9727.724	88.951	0	82.693	0	88.951	0	0	82.693	40.13	-0.297 MWD+IFR1+
														MS OWSG
	20800	90	179.7	9727.724	89.72	0	83.301	0	89.72	0	0	83.301	40.229	-0.296 MWD+IFR1+
														MS 🐧
•														2

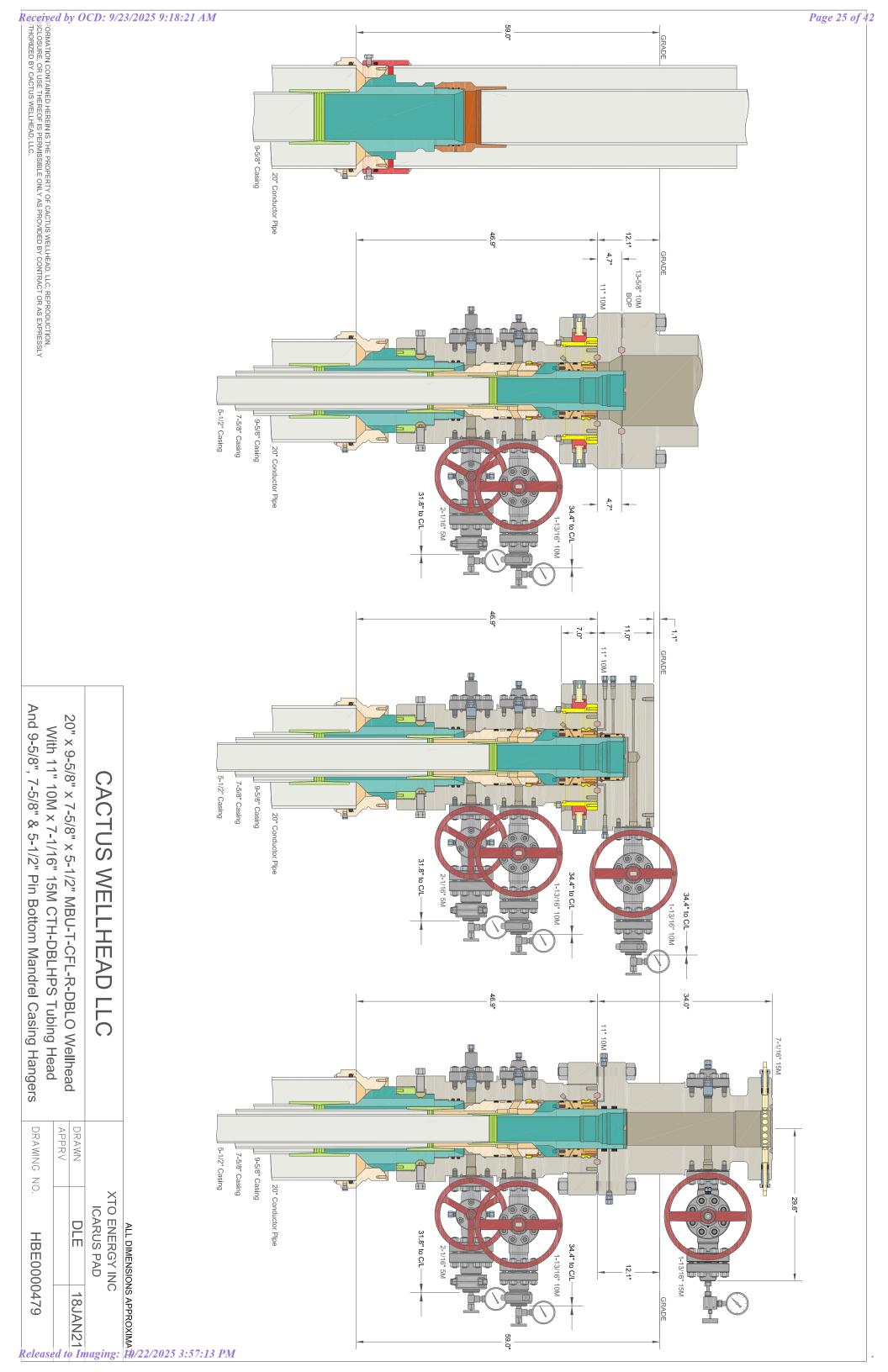
														OWSG
R	20900	90	179.7	9727.724	90.489	0	83.909	0	90.489	0	0	83.909	40.328	-0.296 MWD+IFR1+
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ise														OWSG
d to	21000	90	179.7	9727.724	91.258	0	84.518	0	91.258	0	0	84.518	40.427	-0.295 MWD+IFR1+
I														MS
nag	24400	00	470.7	0707.704	02.020	•	05.407		00.000	•	•	05.427	10.507	OWSG
Ti.	21100	90	179.7	9727.724	92.028	0	85.127	0	92.028	0	0	85.127	40.527	-0.295 MWD+IFR1+
99														MS OWSG
9	21200	90	179.7	9727.724	92.798	0	85.738	0	92.798	0	0	85.738	40.628	-0.294 MWD+IFR1+
2/	21200	30	175.7	3727.724	32.730	U	03.730	Ü	32.730	O	U	03.730	40.020	MS MS
202														OWSG
5 3	21300	90	179.7	9727.724	93.568	0	86.35	0	93.568	0	0	86.35	40.729	-0.294 MWD+IFR1+
J,														MS 💃
7:1														owsg 🏪
3 P	21400	90	179.7	9727.724	94.338	0	86.962	0	94.338	0	0	86.962	40.831	-0.294 MWD+IFR1+
X														MS
														OWSG
	21500	90	179.7	9727.724	95.108	0	87.575	0	95.108	0	0	87.575	40.934	-0.293 MWD+IFR1+
														MS
	21600	90	179.7	9727.724	95.879	0	88.189	0	95.879	0	0	88.189	41.037	OWSG -0.293 MWD+IFR1+
	21000	90	1/9./	3727.724	93.879	U	00.103	U	33.073	U	U	88.189	41.037	MS
														OWSG
	21700	90	179.7	9727.724	96.65	0	88.804	0	96.65	0	0	88.804	41.14	-0.292 MWD+IFR1+
														MS
														OWSG
	21800	90	179.7	9727.724	97.421	0	89.419	0	97.421	0	0	89.419	41.245	-0.292 MWD+IFR1+
														MS
										_				OWSG
	21900	90	179.7	9727.724	98.193	0	90.035	0	98.193	0	0	90.035	41.349	-0.292 MWD+IFR1+
														MS OWSG
	22000	90	179.7	9727.724	98.964	0	90.652	0	98.964	0	0	90.652	41.455	-0.291 MWD+IFR1+
	22000	30	175.7	3727.724	36.304	U	30.032	Ü	30.304	O	U	30.032	41.433	MS
														OWSG
	22100	90	179.7	9727.724	99.736	0	91.269	0	99.736	0	0	91.269	41.561	-0.291 MWD+IFR1+
														MS
														OWSG
	22200	90	179.7	9727.724	100.508	0	91.888	0	100.508	0	0	91.888	41.667	-0.291 MWD+IFR1+
														MS
														OWSG
	22300	90	179.7	9727.724	101.281	0	92.507	0	101.281	0	0	92.507	41.774	-0.291 MWD+IFR1+
														MS OWSG
	22400	90	179.7	9727.724	102.053	0	93.126	0	102.053	0	0	93.126	41.882	-0.29 MWD+IFR1+
	22400	30	175.7	3727.724	102.033	U	33.120	Ü	102.033	O	U	33.120	41.002	MS A
														owsg 1
	22500	90	179.7	9727.724	102.826	0	93.746	0	102.826	0	0	93.746	41.99	-0.29 MWD+IFR1+
														MS 🕺
•														8

Releas	90	179.7	9727.724	103.598	0	94.367	0	103.598	0	0	94.367	42.099	OWSG -0.29 MWD+IFR1+ MS OWSG
ased to Im	90	179.7	9727.724	104.371	0	94.989	0	104.371	0	0	94.989	42.208	-0.289 MWD+IFR1+ MS OWSG
22800 22800	90	179.7	9727.724	105.144	0	95.611	0	105.144	0	0	95.611	42.318	-0.289 MWD+IFR1+ MS OWSG
10&902.005 2/2p25	90	179.7	9727	105.933	0	96.246	0	105.933	0	0	96.246	42.429	-0.289 MWD+IFR1+ MS
3:	_												10.21
\$7:131	ah. Dua												

Plat Targets

Brushy Draw
30 Fed 703H

	Measured Depth	Grid Northing	Grid Easting	TVD MSL Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 5	10147.23	397641.13	626383.67	6557 CIRCLE
LTP 5	22752.17	385036.38	626447.15	6557 CIRCLE
BHL 5	22902.03	384886.51	626447.72	6557 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.

	Pressure Test—High Pressure				
Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket			
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.			
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP			
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP			
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP			
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower				
250 to 350 (1.72 to 2.41)	MASP for the well program				
e during the evaluation period. The pessure tested on the largest and sm	pressure shall not decrease below the allest OD drill pipe to be used in well in the 21 days, pressure testing is req	program.			
	Pressure Test—Low Pressure ³⁶ psig (MPa) 250 to 350 (1.72 to 2.41) shall be a minimum of five minutes. e during the evaluation period. The essure tested on the largest and smy from one wellhead to another with	Change Out of Component, Elastomer, or Ring Gasket			

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.

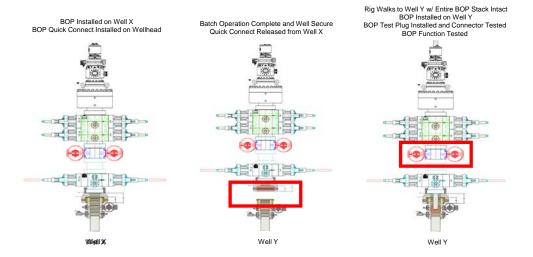
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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



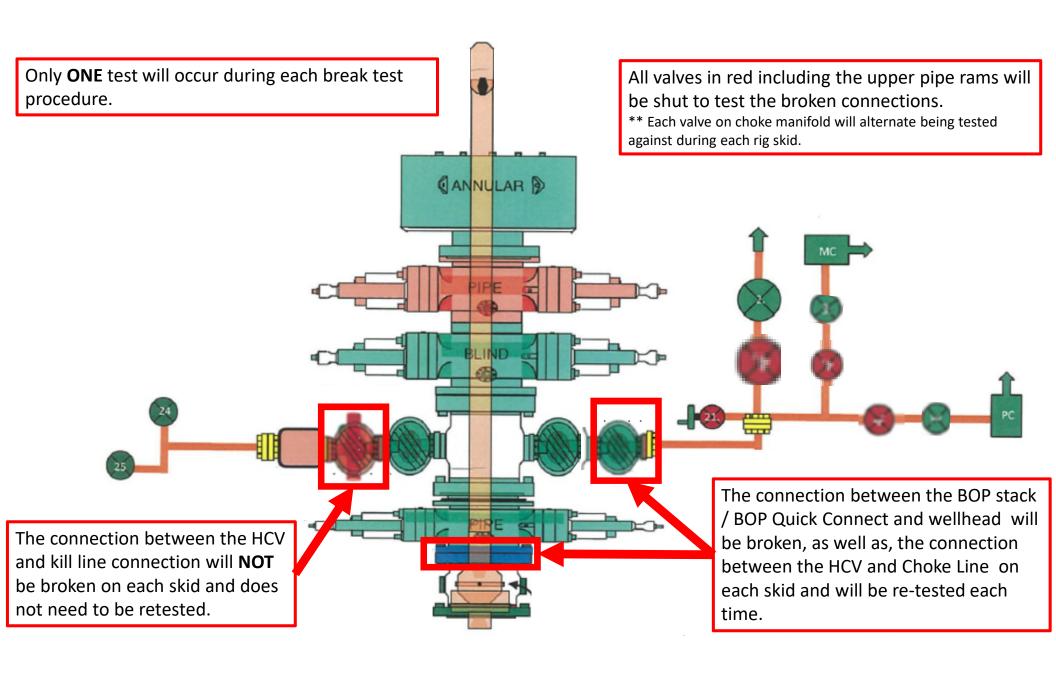
Summary

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

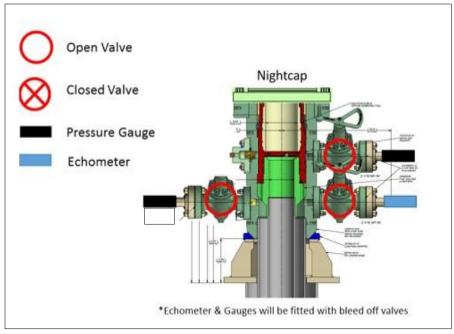
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

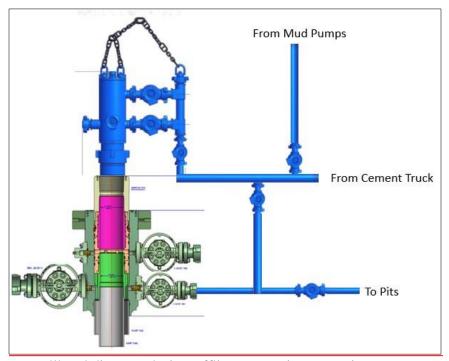
XTO Permian Operating, LLC Offline Cementing Variance Request



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 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

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

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be 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 2662753 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 703H
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	Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	OBoth
Other	☐4 String Area	☐ Capitan Reef	\square 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. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area

immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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 508343

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	508343
	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