

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Lease Number: NMNM89051

Sundry Print Reports
04/04/2025

Well Name: JRU APACHE FEDERAL

COM

Well Location: T22S / R30E / SEC 24 /

NENE / 32.38397 / -103.828566

County or Parish/State: EDDY /

NM

Well Number: 114H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Unit or CA Name:

**Unit or CA Number:** 

**US Well Number:** 

**Operator: XTO PERMIAN OPERATING** 

LLC

# **Notice of Intent**

Sundry ID: 2829312

Type of Submission: Notice of Intent

**Date Sundry Submitted:** 12/30/2024

Type of Action: APD Change

Time Sundry Submitted: 04:06

Date proposed operation will begin: 01/10/2025

Procedure Description: JRU APACHE FEDERAL COM 114H APD ID# 10400085596 SUNDRY LANGUAGE XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include name of the well, SHL, KOP, FTP, LTP, BHL, casing design, cement program, mud circulation system, proposed total depth & pool. The API number for this well is 30-015-55830. The well name is changing from "JRU APACHE FEDERAL COM 114H" to "JAMES RANCH UNIT APACHE 114H" FROM: TO: SHL: 320' FNL & 920' FEL OF SECTION 24-T22S-R30E 350' FNL & 949' FEL OF SECTION 24-T22S-R30E KOP: 320' FNL & 920' FEL OF SECTION 24-T22S-R30E 380' FSL & 330' FEL OF SECTION 13-T22S-R30E FTP: 990' FSL & 330' FEL OF SECTION 13-T22S-R30E 380' FSL & 330' FEL OF SECTION 13-T22S-R30E LTP: 990' FSL & 100' FWL OF SECTION 14-T22S-R30E 380' FSL & 50' FWL OF SECTION 14-T22S-R30E 380' FSL & 50' FWL OF SECTION 14-T22S-R30E 380' FSL & 50' FWL OF SECTION 14-T22S-R30E The proposed total depth is changing from 21958' MD/11028' TVD to 21237.48' MD/11150' TVD. The pool is changing from Los Medanos; Wolfcamp, South to Los Medanos; Wolfcamp, North (Gas) and Los Medanos; Wolfcamp (Gas). Individual C102s for each pool highlighting the corresponding dedicated acreage are attached. There are no changes required to the facilities/surface usage that was approved along with the APD. See attached drilling program for the updated casing design, cement program and the mud circulation system.

# **NOI Attachments**

# **Procedure Description**

Sundry\_Attachments\_\_\_James\_Ranch\_Unit\_Apache\_114H\_20250228152849.pdf

eived by OCD: 4/4/2025 7:15:50 AM Well Name: JRU APACHE FEDERAL

COM

Well Location: T22S / R30E / SEC 24 /

NENE / 32.38397 / -103.828566

County or Parish/State: Page 2 of

Well Number: 114H Type of Well: CONVENTIONAL GAS

**Allottee or Tribe Name:** 

Lease Number: NMNM89051

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number:** 

**Operator: XTO PERMIAN OPERATING** 

# **Conditions of Approval**

# **Additional**

James\_Ranch\_Unit\_Apache\_114H\_COA\_20250323120548.pdf

# **Operator**

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SRINIVAS LAGHUVARAPU Signed on: FEB 28, 2025 03:26 PM

Name: XTO PERMIAN OPERATING LLC

Title: REGULATORY ANALYST

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (720) 539-1673

Email address: SRINIVAS.N.LAGHUVARAPU@EXXONMOBIL.COM

## **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

**Email address:** 

# **BLM Point of Contact**

**BLM POC Name: CHRISTOPHER WALLS BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752342234 BLM POC Email Address: cwalls@blm.gov

**Disposition:** Approved Disposition Date: 04/03/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

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

BUR	EAU OF LAND MANAGEMEN	5. Lease Serial No.			
Do not use this t	IOTICES AND REPORTS ON form for proposals to drill or Use Form 3160-3 (APD) for s		Name		
SUBMIT IN	TRIPLICATE - Other instructions on p	page 2	7. If Unit of CA/Agreement, N	Name and/or No.	
1. Type of Well  Oil Well  Gas W	Vell Other		8. Well Name and No.		
2. Name of Operator			9. API Well No.		
3a. Address	3b. Phone N	No. (include area cod	2) 10. Field and Pool or Explorat	tory Area	
4. Location of Well (Footage, Sec., T., R	2.,M., or Survey Description)		11. Country or Parish, State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO	INDICATE NATURI	E OF NOTICE, REPORT OR OTH	HER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION		
Notice of Intent		eepen ydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity	
Subsequent Report		ew Construction	Recomplete	Other	
Subsequent Report	Change Plans Pl	ug and Abandon	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	ug Back	Water Disposal		
is ready for final inspection.)	tices must be filed only after all requirem	ents, including reclar	nation, have been completed and t	the operator has detennined that the site	
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title			
		1100			
Signature		Date			
	THE SPACE FOR FE	DERAL OR ST	ATE OFICE USE		
Approved by		Tial -		Data	
	hed. Approval of this notice does not war equitable title to those rights in the subject duct operations thereon.		ļ	Date	
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make it a crime for	r any person knowing	gly and willfully to make to any de	epartment 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, 3162.3-4.

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**

KOP: 320' FNL & 920' FEL OF SECTION 24-T22S-R30E 380' FSL & 330' FEL OF SECTION 13-T22S-R30E FTP: 990' FSL & 330' FEL OF SECTION 13-T22S-R30E LTP: 990' FSL & 100' FWL OF SECTION 14-T22S-R30E 380 FSL & 100' FWL OF SECTION 14-T22S-R30E BHL: 990' FSL & 50' FWL OF SECTION 14-T22S-R30E 380' FSL & 50' FWL OF SECTION 14-T22S-R30E

The proposed total depth is changing from 21958 MD/11028 TVD to 21237.48 MD/11150 TVD.

The pool is changing from Los Medanos; Wolfcamp, South to Los Medanos; Wolfcamp, North (Gas) and Los Medanos; Wolfcamp (Gas). Individual C102s for each pool highlighting the corresponding dedicated acreage are attached.

There are no changes required to the facilities/surface usage that was approved along with the APD.

See attached drilling program for the updated casing design, cement program and the mud circulation system.

#### **Location of Well**

0. SHL: NENE / 320 FNL / 920 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.38397 / LONG: -103.828566 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 992 FSL / 1335 FWL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.387589 / LONG: -103.83856 ( TVD: 11090 feet, MD: 15700 feet ) PPP: SESE / 990 FSL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.387568 / LONG: -103.826653 ( TVD: 11129 feet, MD: 11700 feet ) BHL: SWSW / 990 FSL / 50 FWL / TWSP: 22S / RANGE: 30E / SECTION: 14 / LAT: 32.387623 / LONG: -103.860081 ( TVD: 11028 feet, MD: 21958 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMNM89051
LOCATION: Sec.24, T.22 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: James Ranch Unit Apache 114H
SURFACE HOLE FOOTAGE: 350'/N & 949'/E
BOTTOM HOLE FOOTAGE: 380'/S & 50'/W

Previously known as JRU Apache Fed Com 114H\_. Changes approved through engineering via Sundry 2829312\_ on 3-23-2025. Any previous COAs not addressed within the updated COAs still apply.

COA

$H_2S$	•	No	© Yes			
Potash /	None	Secretary	<b>⊙</b> R-111-Q	Open Annulus		
WIPP	4-Stri	ng Design: Engineered W	eak Point	<b>▼</b> WIPP		
Cave / Karst	C Low	• Medium	C High	Critical		
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	O Both	<ul><li>Diverter</li></ul>		
Cementing	Primary Squeeze	Primary Squeeze		□ DV Tool		
Special Req	☐ Capitan Reef	☐ Water Disposal	$\square$ COM	Unit		
Waste Prev.	C Self-Certification	C Waste Min. Plan	APD Submitted p	rior to 06/10/2024		
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing		
Language	☐ Four-String	Offline Cementing	▼ Fluid-Filled			

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

### **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 748 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch 1st Intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

# Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **7-5/8** inch 2<sup>nd</sup> Intermediate Casing is:

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

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 7765'. Excess calculates to 20%. Additional cement maybe required.
- b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to **500 ft** in the previous casing shoe but below the **Marker Bed 126**. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

Operator has proposed to pump down Intermediate 1 X Intermediate 2 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down **intermediate x production** annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the production casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back **500 feet** into the previous casing but below the Engineer Weak Point whichever is greater. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# D. SPECIAL REQUIREMENT (S)

# **Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation but will replace the unit number with the participating area number when the sign is replaced.

# **Commercial Well Determination**

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells).

# **WIPP Requirements**

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, the operator is required to submit daily drilling reports, logs and deviation survey information to the Bureau of Land Management Engineering Department and the U.S. Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum, the depth of any excess mud returns (brine flows), the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information will also be provided to the New Mexico Oil

Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Any oil and gas well operator drilling within one mile of the WIPP Boundary must notify WIPP as soon as possible if any of the following conditions are encountered during oil and gas operations: R-111-Q Amendment - Notification to Operators (Potash)

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,
- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

The operator can email the required information to OilGasReports@wipp.ws. Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

# **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

# **Offline Cementing**

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

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

## **Casing Clearance**

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

# **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)

# **Contact Eddy County Petroleum Engineering Inspection Staff:**

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the  $2^{nd}$  Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### 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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 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:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. 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.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. 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.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation

- can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

# C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**Approved by Zota Stevens on 3/23/2025** 575-234-5998 / zstevens@blm.gov

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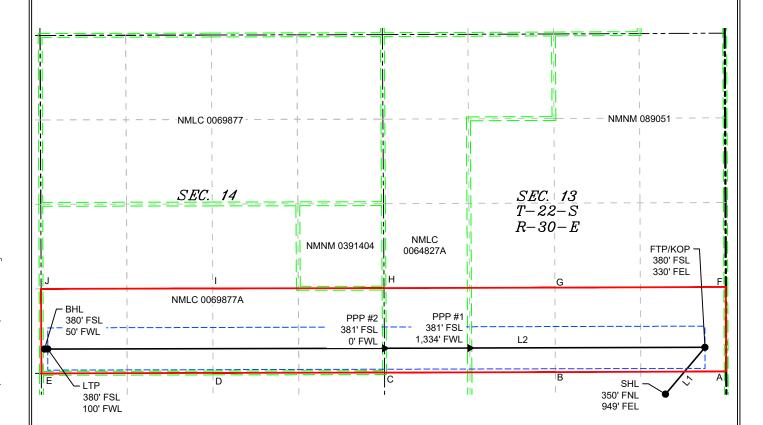
	electronically					v Mexico Il Resources Department ON DIVISION	:		Ro	evised July, 09 2024
Via OC	D Permitting								☐ Initial Sub	mittal
								Submital Type:	M Amended 1	Report
									☐As Drilled	
			,		WELL LOCAT	TION INFORMATION				
API Nu	mber <b>30-01</b> !	5-	Pool Code	96921		Pool Name	ANOS: WO	OI FCAME	P, NORTH (C	GAS)
Property			Property N						Well Number	
					JAMES RAN	NCH UNIT APACHE				114H
OGRID	No. <b>37307</b>	'5	Operator N	ame	XTO PERMIA	N OPERATING, LLC	<b>)</b> .		Ground Level	l Elevation <b>3,375</b> '
Surface	Owner: S	tate Fee	Tribal ⊠Fe	leral		Mineral Owner: S		□Tribal 🛛 l		•
						<b>I</b>				
UL	Section	Township	Panga	Lot	Surface Ft. from N/S	e Hole Location  Ft. from E/W	Latitude	T	anaituda	County
		Township	Range	Lot					ongitude 103.828661	
Α	24	22\$	30E		350 FNL	949 FEL	32.383	-	103.828661	EDDY
UL	Section	Township	Range	Lot	Bottom Ft. from N/S	Hole Location Ft. from E/W	Latitude	T T	ongitude	County
M	14	22S	30E	Lot	380 FSL	50 FWL	32.385		C	
IVI	14	223	JUE		360 F3L	50 FWL	32.303	-	103.860082	EDDY
Dadicat	ed Acres	Infill or Defir	ving Wall	Defining	Well API	Overlapping Spacing U	Init (V/N)	Consolidati	on Code	
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Order N	rumbers.	<u>'</u>	1-2/9-0			wen setbacks are und	er Common O	whership.	M 1 es 🗆 No	
	,		1	1		off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
Р	13	22\$	30E		380 FSL	330 FEL	32.385	892 -	103.826654	EDDY
	,				First Ta	ake Point (FTP)		<u> </u>		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
Р	13	22\$	30E		380 FSL	330 FEL	32.385	892 -	103.826654	EDDY
					Last Ta	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
М	14	22\$	30E		380 FSL	100 FWL	32.385	946 -	103.859920	EDDY
Unitized	d Area of Are	ea of Interest M-070965X		Spacing U	nit Type : ⊠Horiz	ontal □Vertical	Groun	nd Elevation	3,375'	
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS			
best of r that this in the la at this la unlease pooling If this w	ny knowledge organization and including ocation pursu d mineral into order of here cell is a horizo	e and belief, and a either owns a v the proposed bo ant to a contrac erest, or a volun etofore entered b ontal well, I furt.	, if the well is working interestom hole locate with an own tary pooling to the division the certify the	vertical or a est or unlease ation or has er of a work agreement or tt this organi	ed mineral interest a right to drill this ing interest or a compulsory zation has	I hereby certify that the w actual surveys made by n correct to the best of my l	e or under my belief	supervision,	DILLON MEX/CO	
received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Linivas Navlla 12/30/2024					23786 E ONAL SURIA				NW ROY	
Signatur		i vaveln	Date	12/30/202	4	Signature and Seal of Pro	fessional Surv	reyor		
5	Srinivas Na	veen Laghuva	arapu			MADE DU LOVIE STATE	v.		19/9/2024	
Printed	Name					MARK DILLON HARP 2378 Certificate Number		Survey	12/9/2024	
		ghuvarapu@	exxonmobil	com						
Email A	adress					YH			618.01300	2.10-27
						l			010.01300	L. 10-21

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

## ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LINE TABLE					
LINE	AZIMUTH	LENGTH			
L1	040°05'18.24"	957.09			
L2	269°50'49.32"	10,319.02			

LEGEND

SECTION LINE
PROPOSED WELL BORE

NEW MEXICO MINERAL LEASE
330' BUFFER
ALLOCATION AREA

COORDINATE TABLE										
SHL (I	SHL (NAD 83 NME) SHL (NAD 27 NME									
Y =	503,757.1	N	Y =	503,696.5	N					
X =	697,125.3	Ε	X =	655,943.7	Е					
LAT. =	32.383887	°N	LAT. =	32.383764	°N					
LONG. =	103.828661	°W	LONG. =	103.828168	°W					
FTP/KOF	NAD 83 NI	ME)	FTP/KOF	(NAD 27 NI	VIE)					
Y =	504,489.3	Z	Y =	504,428.7	Z					
X =	697,741.6	ш	X =	656,560.1	ш					
LAT. =	32.385892	°N	LAT. =	32.385769	°N					
LONG. =	103.826654	°W	LONG. =	103.826160	°W					
PPP1 (	NAD 83 NME	Ξ)	PPP1 (	NAD 83 NME	Ξ)					
Y =	504,477.6	Z	Y =	504,417.0	Ν					
X =	694,067.3	Ш	X =	652,885.8	Е					
LAT. =	32.385907	°N	LAT. =	32.385784	°N					
LONG. =	103.838557	°W	LONG. =	103.838063	°W					
PPP2 (	NAD 83 NME	Ξ)	PPP2 (NAD 83 NME)							
Y =	504,473.4	Z	Y =	504,412.7	Z					
X =	692,734.5	ш	X =	651,553.0	ш					
LAT. =	32.385912	°N	LAT. =	32.385789	°N					
LONG. =	103.842874	°W	LONG. =	103.842380	°W					
LTP (I	NAD 83 NME	:)	LTP (I	NAD 27 NME	()					
Y =	504,461.9	Z	Y =	504,401.2	Z					
X =	687,472.6	ш	X =	646,291.2	ш					
LAT. =	32.385946	۰N	LAT. =	32.385823	°					
LONG. =	103.859920	°W	LONG. =	G. = 103.859425						
BHL (I	NAD 83 NME	:)	BHL (I	NAD 27 NME	:)					
Y =	504,461.8	Ν	Y =	504,401.1	N					
X =	687,422.6		X =	646,241.2						
LAT. =	32.385946	°N	LAT. =	32.385823	°N					
1			1		'					

LONG. = 103.860082 °W LONG. = 103.859587 °W

CORNER COORDINATES (NAD 83 NME)										
A - Y =	504,110.5	N	A - X =	698,073.3	Е					
B - Y =	504,101.3	N	B - X =	695,403.9	Е					
C - Y =	504,092.8	N	C - X =	692,735.3	Ε					
D - Y =	504,087.6	Ν	D - X =	690,056.2	Ε					
E-Y=	504,081.7	N	E - X =	687,374.1	Ε					
F-Y=	505,430.3	N	F - X =	698,067.5	Ε					
G-Y=	505,421.3	N	G - X =	695,396.5	Е					
H-Y=	505,412.6	N	H - X =	692,726.6	Е					
I-Y=	505,407.3	N	I - X =	690,049.1	Е					
J - Y =	505,401.8	N	J - X =	687,369.0	Е					
CORNER COORDINATES (NAD 27 NME)										
A - Y =	504,049.9	Ν	A - X =	656,891.7	Е					
B - Y =	504,040.7	Ν	B - X =	654,222.4	Ε					
C - Y =	504,032.2	Ν	C - X =	651,553.8	Ε					
D - Y =	504,026.9	Ν	D - X =	648,874.7	Е					
E-Y=	504,021.0	Ν	E - X =	646,192.7	Е					
F-Y=	505,369.7	N	F - X =	656,886.0	Е					
G-Y=	505,360.7	N	G - X =	654,215.0	Е					
H-Y=	505,351.9	N	H - X =	651,545.1	Ε					
I-Y=	505,346.6	N	I - X =	648,867.6	Е					
J - Y =	505,341.1	N	J - X =	646,187.5	Е					

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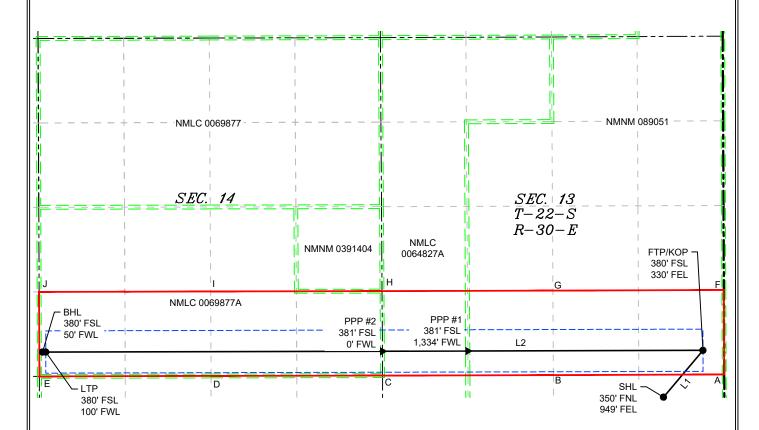
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<u>C-10</u>	2			Energy, M	State of Notinerals & Natur	ew Mexico ral Resources Department	;		Re	evised July, 09 2024
	electronically					ION DIVISION				
v 1a OC	D Permitting								☐Initial Sub	mittal
								Submita Type:	Amended 1	Report
									☐As Drilled	
					WELL LOCA	ATION INFORMATION				
API Nu	mber <b>30-01</b> !		Pool Code	96597	,	Pool Name	MEDANOS	2. WOLF	CAMP (GAS)	
Propert		<b>5-</b>	Property Na			L05 I	VIEDANOS	s; WOLF	Well Number	
			1 7		JAMES RA	NCH UNIT APACHE				114H
OGRID	No. <b>37307</b>	'5	Operator Na	ame	XTO PERMI	AN OPERATING, LLC	<b>)</b> .		Ground Level	Elevation 3,375'
Surface	Owner: S	tate  Fee	Tribal <b>⊠</b> Fed	eral		Mineral Owner: □S	tate □Fee	□Tribal 🗵	Federal	
					Surfa	ce Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Α	24	228	30E		350 FNL	949 FEL	32.383	887	-103.828661	EDDY
					Patta	m Hole I e cotion				
UL	Section	Township	Range	Lot	Ft. from N/S	m Hole Location  Ft. from E/W	Latitude		Longitude	County
М	14	228	30E		380 FSL	50 FWL	32.385	946	-103.860082	EDDY
Dedicat	ted Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacing U	Jnit (Y/N)	Consolida	tion Code	
24	40.00	DEFII	NING			Y			U	
Order N	Numbers.	i	R-279-C			Well Setbacks are und	er Common O	wnership:	⊠Yes □No	
					Kick	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
P	13	228	30E		380 FSL	330 FEL	32.385	892	-103.826654	EDDY
		1			First	Γake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Р	13	22\$	30E		380 FSL	330 FEL	32.385	892	-103.826654	EDDY
UL	C4:	T	Danga	Lat		Take Point (LTP)	T _4:41_		Ti4d-	Country
	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
М	14	22\$	30E		380 FSL	100 FWL	32.385	946	-103.859920	EDDY
Unitize	d Area of Are	ea of Interest					Groun	nd Elevation	1	
Omtize		M-070965X		Spacing Un	nit Type : 🛮 Hor	izontal	Groun	ia Elevation	3,375'	
OPER A	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS			
			contained here	ein is true ar	nd complete to the			hown on thi	s plat was plotted t	from field notes of
best of that this in the la at this l	my knowledge s organization and including ocation pursu	e and belief, and n either owns a v	, if the well is working interes ottom hole loca ot with an own	vertical or a st or unlease ution or has er of a work	lirectional well, ed mineral interess a right to drill this ing interest or	actual surveys made by m t correct to the best of my b	e or under my		n, and that the sam	ne is true and
	•	etofore entered b	-		ation be			1	HEN MEXICO	4180
received unlease which a	d the consent d mineral into any part of the	ontal well, I furt of at least one le erest in each tra well's complete order from the d	essee or owner ct (in the targe d interval will	of a working t pool or inj	g interest or formation) in		1.	PROF	23786 PS/ONAL S	FYOR
Signatu		Naveen	Date	12/30/202	4	Signature and Seal of Pro	fessional Sum		PS/ONAL S	ur.
C						Signature and Sear of Pro	icssionai SufV	Cy01		
		en Laghuvara	apu			MARK DILLON HARP 2378			12/9/2024	
Printed			vonmobil co	um.		Certificate Number	Date of	f Survey		
	nivas.n.lagi Address	nuvarapu@ex	AUHMODII.CO	n11		-				
						ΥН			618.01300	2.10-27
	17 . 17									

# ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LINE TABLE					
LINE	AZIMUTH	LENGTH			
L1	040°05'18.24"	957.09			
L2	269*50'49.32"	10,319.02			

LEGEND

SECTION LINE
PROPOSED WELL BORE
NEW MEXICO MINERAL LEASE
330' BUFFER
ALLOCATION AREA

COORDINATE TABLE										
SHL (I	NAD 83 NME	()	SHL (NAD 27 NME)							
Y =	503,757.1	N	Y =	503,696.5	Ν					
X =	697,125.3	Е	X =	655,943.7	Е					
LAT. =	32.383887	°N	LAT. =	32.383764	°N					
LONG. =	103.828661	°W	LONG. =	103.828168	°W					
FTP/KOF	(NAD 83 NI	VIE)	FTP/KOF	(NAD 27 NI	ME)					
Y =	504,489.3	N	Y =	504,428.7	Ν					
X =	697,741.6	Ш	X =	656,560.1	Ш					
LAT. =	32.385892	°N	LAT. =	32.385769	°N					
LONG. =	103.826654	°W	LONG. =	103.826160	°W					
PPP1 (	NAD 83 NME	Ξ)	PPP1 (	NAD 83 NME	Ξ)					
Y =	504,477.6	N	Y =	504,417.0	Ζ					
X =	694,067.3	Е	X =	652,885.8	П					
LAT. =	32.385907	°N	LAT. =	32.385784	°N					
LONG. =	103.838557	°W	LONG. =	103.838063	°W					
PPP2 (	NAD 83 NME	Ξ)	PPP2 (NAD 83 NME)							
Y =	504,473.4	Z	Y =	504,412.7	Z					
X =	692,734.5	ш	X =	651,553.0	П					
LAT. =	32.385912	°N	LAT. =	32.385789	N°					
LONG. =	103.842874	°W	LONG. =	103.842380	٧					
LTP (I	NAD 83 NME	.)	LTP (I	NAD 27 NME	)					
Y =	504,461.9	Ν	Y =	504,401.2	Z					
X =	687,472.6	Е	X =	646,291.2	Ε					
LAT. =	32.385946	°N	LAT. =	32.385823	°N					
LONG. =	103.859920	°W	LONG. =	103.859425	°W					
BHL (I	NAD 83 NME	:)	BHL (I	NAD 27 NME	(;					
Y =	504,461.8	N	Y =	504,401.1	Ν					
X =	687,422.6	ш	X =	646,241.2	Е					
LAT. =	32.385946	°N	LAT. =	32.385823	°N					

103.860082 °W LONG. = 103.859587 °W

COI	RNER COOR	DIN	ATES (NA	AD 83 NME)
A - Y =	504,110.5	Ν	A - X =	698,073.3 E
B - Y =	504,101.3	N	B - X =	695,403.9 E
C - Y =	504,092.8	N	C - X =	692,735.3 E
D - Y =	504,087.6	N	D - X =	690,056.2 E
E - Y =	504,081.7	Ν	E - X =	687,374.1 E
F-Y=	505,430.3	Ν	F - X =	698,067.5 E
G-Y=	505,421.3	N	G - X =	695,396.5 E
H - Y =	505,412.6	N	H - X =	692,726.6 E
I-Y=	505,407.3	Ν	I - X =	690,049.1 E
J - Y =	505,401.8	Ν	J - X =	687,369.0 E
COF	NER COOR	DIN	ATES (NA	AD 27 NME)
^ V-	E040400			
A - Y =	504,049.9	Ν	A - X =	656,891.7 E
B-Y=	504,049.9	N N	A - X = B - X =	656,891.7 E 654,222.4 E
B - Y=	504,040.7	N	B - X =	654,222.4 E
B - Y = C - Y =	504,040.7 504,032.2	N N	B - X = C - X =	654,222.4 E 651,553.8 E
B-Y= C-Y= D-Y=	504,040.7 504,032.2 504,026.9	N N N	B - X = C - X = D - X =	654,222.4 E 651,553.8 E 648,874.7 E
B - Y = C - Y = D - Y = E - Y =	504,040.7 504,032.2 504,026.9 504,021.0	N N N	B - X = C - X = D - X = E - X =	654,222.4 E 651,553.8 E 648,874.7 E 646,192.7 E
B-Y= C-Y= D-Y= E-Y= F-Y=	504,040.7 504,032.2 504,026.9 504,021.0 505,369.7	N N N N	B - X = C - X = D - X = E - X = F - X =	654,222.4 E 651,553.8 E 648,874.7 E 646,192.7 E 656,886.0 E
B-Y= C-Y= D-Y= E-Y= F-Y= G-Y=	504,040.7 504,032.2 504,026.9 504,021.0 505,369.7 505,360.7	N N N N	B-X= C-X= D-X= E-X= F-X= G-X=	654,222.4 E 651,553.8 E 648,874.7 E 646,192.7 E 656,886.0 E 654,215.0 E

YH 618.013002.10-27

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

XTO Energy Inc.
JAMES RANCH UNIT APACHE 114H
Projected TD: 21237.48' MD / 11150' TVD
SHL: 350' FNL & 949' FEL , Section 24, T22S, R30E
BHL: 380' FSL & 50' FWL , Section 14, T22S, R30E
EDDY County, NM

## 1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	483'	Water
Top of Salt	773'	Water
MB 126	1467'	Water
Base of Salt	3628'	Water
Delaware	3886'	Water
Brushy Canyon	6629'	Water/Oil/Gas
Bone Spring	7765'	Water
1st Bone Spring Ss	8685'	Water/Oil/Gas
2nd Bone Spring Ss	9271'	Water/Oil/Gas
3rd Bone Spring Sh	9913'	Water/Oil/Gas
Wolfcamp	11028'	Water/Oil/Gas
Wolfcamp X	11044'	Water/Oil/Gas
Wolfcamp Y	11105'	Water/Oil/Gas
Target/Land Curve	11150'	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 13.375 inch casing @ 748' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3728' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 10233.8'. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21237.48 MD/TD and 5.5 inch production casing will be set at TD.

#### 3. Casing Design

Hole Size	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 748'	13.375	54.5	J-55	втс	New	2.45	3.42	22.30
12.25	0' – 3728'	9.625	40	J-55	ВТС	New	1.41	2.42	4.22
8.75	0' – 3828'	7.625	29.7	RY P-110	Flush Joint	New	2.24	2.83	1.84
8.75	3828' – 10233.8'	7.625	29.7	HC L-80	Flush Joint	New	1.63	2.74	2.13
6.75	0' – 10133.8'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.26	1.83	2.14
6.75	10133.8' - 21237.48'	5.5	20	RY P-110	Semi-Flush / Talon	New	1.26	1.66	6.59

<sup>·</sup> XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

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

#### Wellhead:

Permanent Wellhead

Multibowl System for 4 String desing as per attachement.

#### 4. Cement Program

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.

#### Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 748'

Lead: 330 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

12-hr = 250 psi 24 hr = 500 psiCompressives:

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

#### 1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3728'

Lead: 1540 sxs Class C (mixed at 12.9 ppg, 1.39 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 +/- 10233.8'

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

TOC:@ 7765

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

2nd Stage

Tail: 580 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 3228

24 hr = 1150 psi Compressives: 900 psi

XTO requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated (TOC:@ 7765') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to 3228 (~500' inside 1st Intermediate csg string but below MB126 @ 1467 ').

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 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 csq 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 / Talon, RY P-110 casing to be set at +/- 21237.48'

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9733.8 feet Tail: 770 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10509.74 feet

Compressives: 12-hr = 1375 psi 24 hr = 2285 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 casing,	the blow out preventer	equipment (BOP)	) will consist of 5M Hydril and	10M 3-Ram
BOP				

All BOP testing will be done by an independent service company. Operator will test as per CFR 43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. .

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 break testing 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.

#### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosit y	Fluid Loss	Comments
INTERVAL	Hole Size	Muu Type	(ppg)	(sec/qt)	(cc)	Comments
0' - 748'	17.5	FW/Native	8.5-9	35-40	NC	Fresh water or native water
748' - 3728'	12.25	Sat Brine	10-10.5	30-32	NC	Fully Saturated salt across salado
3728' to 10233.8'	8.75	BDE/OBM or FW/Brine	9.5-10	30-32	NC	Depending on well conditions
10233.8' to 21237.48'	6.75	ОВМ	11.5-12	50-60	NC - 20	N/A

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 surface casing with saturated salt brine solution. A saturated salt brine 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 13.375 casing.

#### 8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

#### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 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 6668 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.

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# Well Plan Report - James Ranch Unit Apache 114H

Measured Depth: 21237.48 ft Site:

TVD RKB: 11150.00 ft Slot: James Ranch Unit
Apache 114H

Location

Cartographic New Mexico East -Reference System: NAD 27 Northing: 503696.50 ft Easting: 655943.70 ft **RKB**: 3407.00 ft **Ground Level:** 3375.00 ft North Reference: Grid **Convergence Angle:** 0.27 Deg

Plan SectionsJames Ranch Unit Apache 114H

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
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	-0.00	0.00	0.00	0.00
4165.92	9.32	40.09	4163.86	28.92	24.35	2.00	0.00	2.00
9610.03	9.32	40.09	9536.14	703.28	592.05	0.00	0.00	0.00
10075.94	0.00	0.00	10000.00	732.20	616.40	-2.00	0.00	2.00
10509.74	0.00	0.00	10433.80	732.20	616.40	0.00	0.00	0.00
11634.74	90.00	269.85	11150.00	730.29	-99.79	8.00	0.00	8.00
21186.90	90.00	269.85	11150.00	704.78	-9651.92	0.00	0.00	0.00 LTP 10
21237.48	90.00	269.85	11150.00	704.64	-9702.50	0.00	0.00	0.00 BHL 10

Position Uncertainty James Ranch Unit Apache 114H

Measured TVD Highside Lateral Vertical Magnitude Semi-major 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)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.691	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.140	0.000	4.950	0.000	2.751	0.000	0.000	5.484	4.565	129.034	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.500	0.000	5.311	0.000	2.814	0.000	0.000	5.849	4.924	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.879	0.000	0.000	6.213	5.282	129.161	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.219	0.000	6.032	0.000	2.946	0.000	0.000	6.577	5.640	129.212	MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.579	0.000	6.392	0.000	3.016	0.000	0.000	6.939	5.999	129.257	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.938	0.000	6.752	0.000	3.088	0.000	0.000	7.302	6.357	129.297	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.298	0.000	7.112	0.000	3.161	0.000	0.000	7.664	6.715	129.333	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.657	0.000	7.471	0.000	3.237	0.000	0.000	8.026	7.074	129.365	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	8.016	0.000	7.831	0.000	3.314	0.000	0.000	8.387	7.432	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.393	0.000	0.000	8.748	7.791	129.420	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.734	0.000	8.550	0.000	3.473	0.000	0.000	9.109	8.149	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.555	0.000	0.000	9.470	8.507	129.466	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.452	0.000	9.268	0.000	3.638	0.000	0.000	9.831	8.866	129.486	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.811	0.000	9.627	0.000	3.722	0.000	0.000	10.191	9.224	129.505	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.170	0.000	9.986	0.000	3.808	0.000	0.000	10.552	9.583	129.522	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.529	0.000	10.345	0.000	3.896	0.000	0.000	10.912	9.941	129.538	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.888	0.000	10.705	0.000	3.984	0.000	0.000	11.272	10.299	129.552	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.247	0.000	11.063	0.000	4.074	0.000	0.000	11.632	10.658	129.566	MWD+IFR1+MS

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2400 000	0.000	0.000	2400 000	44 000	0.000	44 400 0 000	4.465 0.000	0.000	44.000	44.046	400 570 MM/D LIED4 MC
3100.000	0.000	0.000	3100.000	11.606	0.000	11.422 0.000	4.165 0.000	0.000	11.992	11.016	129.579 MWD+IFR1+MS
3200.000	0.000	0.000	3200.000	11.965	0.000	11.781 0.000	4.258 0.000	0.000	12.352	11.375	129.591 MWD+IFR1+MS
3300.000	0.000	0.000	3300.000	12.323	0.000	12.140 0.000	4.352 0.000	0.000	12.712	11.733	129.603 MWD+IFR1+MS
3400.000	0.000	0.000	3400.000	12.682	0.000	12.499 0.000	4.447 0.000	0.000	13.071	12.092	129.613 MWD+IFR1+MS
3500.000	0.000	0.000	3500.000	13.041	0.000	12.858 0.000	4.543 0.000	0.000	13.431	12.450	129.623 MWD+IFR1+MS
3600.000	0.000	0.000	3600.000	13.400	0.000	13.217 0.000	4.641 0.000	0.000	13.790	12.809	129.633 MWD+IFR1+MS
3700.000	0.000	0.000	3700.000	13.758	0.000	13.576 0.000	4.741 0.000	0.000	14.150	13.167	129.642 MWD+IFR1+MS
3800.000	2.000	40.092	3799.980	14.562	0.000	13.527 0.000	4.841 0.000	0.000	14.570	13.527	130.590 MWD+IFR1+MS
3900.000	4.000	40.092	3899.838	15.049	0.000	13.893 0.000	4.944 0.000	0.000	15.082	13.890	132.701 MWD+IFR1+MS
4000.000	6.000	40.092	3999.452	15.511	0.000	14.258 0.000	5.049 0.000	0.000	15.587	14.251	134.226 MWD+IFR1+MS
4100.000	8.000	40.092	4098.702	15.949	0.000	14.621 0.000	5.158 0.000	0.000	16.083	14.608	-44.630 MWD+IFR1+MS
4165.915	9.318	40.092	4163.864	16.164	0.000	14.855 0.000	5.227 0.000	0.000	16.343	14.841	-44.400 MWD+IFR1+MS
4200.000	9.318	40.092	4197.499	16.275	0.000	14.975 0.000	5.262 0.000	0.000	16.454	14.961	-44.428 MWD+IFR1+MS
4300.000	9.318	40.092	4296.179	16.602	0.000	15.331 0.000	5.372 0.000	0.000	16.777	15.317	-44.389 MWD+IFR1+MS
4400.000	9.318	40.092	4394.860	16.937	0.000	15.693 0.000	5.483 0.000	0.000	17.109	15.678	-44.117 MWD+IFR1+MS
4500.000	9.318	40.092	4493.540	17.274	0.000	16.056 0.000	5.597 0.000	0.000	17.442	16.040	-43.849 MWD+IFR1+MS
4600.000	9.318	40.092	4592.221	17.612	0.000	16.420 0.000	5.713 0.000	0.000	17.777	16.403	-43.584 MWD+IFR1+MS
4700.000	9.318	40.092	4690.901	17.951	0.000	16.784 0.000	5.831 0.000	0.000	18.113	16.765	-43.322 MWD+IFR1+MS
4800.000	9.318	40.092	4789.581	18.292	0.000	17.148 0.000	5.952 0.000	0.000	18.451	17.128	-43.064 MWD+IFR1+MS
4900.000	9.318	40.092	4888.262	18.635	0.000	17.512 0.000	6.074 0.000	0.000	18.790	17.491	-42.810 MWD+IFR1+MS
5000.000	9.318	40.092	4986.942	18.979	0.000	17.876 0.000	6.198 0.000	0.000	19.130	17.855	-42.560 MWD+IFR1+MS
5100.000	9.318	40.092	5085.623	19.323	0.000	18.241 0.000	6.325 0.000	0.000	19.472	18.218	-42.313 MWD+IFR1+MS
5200.000	9.318	40.092	5184.303	19.670	0.000	18.606 0.000	6.454 0.000	0.000	19.815	18.582	-42.070 MWD+IFR1+MS
5300.000	9.318	40.092	5282.983	20.017	0.000	18.971 0.000	6.585 0.000	0.000	20.158	18.946	-41.831 MWD+IFR1+MS
5400.000	9.318	40.092	5381.664	20.365	0.000	19.336 0.000	6.718 0.000	0.000	20.503	19.310	-41.597 MWD+IFR1+MS
5500.000	9.318	40.092	5480.344	20.714	0.000	19.701 0.000	6.853 0.000	0.000	20.849	19.675	-41.366 MWD+IFR1+MS
5600.000	9.318	40.092	5579.025	21.064	0.000	20.067 0.000	6.991 0.000	0.000	21.196	20.039	-41.139 MWD+IFR1+MS
5700.000	9.318	40.092	5677.705	21.415	0.000	20.433 0.000	7.131 0.000	0.000	21.543	20.404	-40.917 MWD+IFR1+MS
5800.000	9.318	40.092	5776.385	21.767	0.000	20.799 0.000	7.273 0.000	0.000	21.892	20.769	-40.698 MWD+IFR1+MS
5900.000	9.318	40.092	5875.066	22.120	0.000	21.165 0.000	7.417 0.000	0.000	22.241	21.134	-40.484 MWD+IFR1+MS
6000.000	9.318	40.092	5973.746	22.474	0.000	21.531 0.000	7.563 0.000	0.000	22.591	21.500	-40.274 MWD+IFR1+MS
6100.000	9.318	40.092	6072.427	22.828	0.000	21.897 0.000	7.712 0.000	0.000	22.942	21.865	-40.069 MWD+IFR1+MS
6200.000	9.318	40.092	6171.107	23.183	0.000	22.264 0.000	7.863 0.000	0.000	23.293	22.231	-39.868 MWD+IFR1+MS

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6300.000	9.318	40.092	6269.787	23.538	0.000	22.630	0.000	8.017	0.000	0.000	23.645	22.596	-39.671	MWD+IFR1+MS
6400.000	9.318	40.092	6368.468	23.895	0.000	22.997	0.000	8.173	0.000	0.000	23.998	22.962	<b>-</b> 39.478	MWD+IFR1+MS
6500.000	9.318	40.092	6467.148	24.251	0.000	23.364	0.000	8.331	0.000	0.000	24.351	23.328	-39.290	MWD+IFR1+MS
6600.000	9.318	40.092	6565.829	24.609	0.000	23.731	0.000	8.491	0.000	0.000	24.705	23.694	-39.107	MWD+IFR1+MS
6700.000	9.318	40.092	6664.509	24.967	0.000	24.098	0.000	8.654	0.000	0.000	25.060	24.061	-38.928	MWD+IFR1+MS
6800.000	9.318	40.092	6763.189	25.325	0.000	24.465	0.000	8.820	0.000	0.000	25.415	24.427	-38.753	MWD+IFR1+MS
6900.000	9.318	40.092	6861.870	25.684	0.000	24.832	0.000	8.987	0.000	0.000	25.770	24.793	-38.583	MWD+IFR1+MS
7000.000	9.318	40.092	6960.550	26.044	0.000	25.199	0.000	9.157	0.000	0.000	26.126	25.160	-38.417	MWD+IFR1+MS
7100.000	9.318	40.092	7059.231	26.404	0.000	25.566	0.000	9.330	0.000	0.000	26.483	25.527	-38.256	MWD+IFR1+MS
7200.000	9.318	40.092	7157.911	26.764	0.000	25.934	0.000	9.505	0.000	0.000	26.840	25.893	-38.099	MWD+IFR1+MS
7300.000	9.318	40.092	7256.592	27.125	0.000	26.301	0.000	9.683	0.000	0.000	27.197	26.260	-37.947	MWD+IFR1+MS
7400.000	9.318	40.092	7355.272	27.487	0.000	26.669	0.000	9.863	0.000	0.000	27.555	26.627	-37.800	MWD+IFR1+MS
7500.000	9.318	40.092	7453.952	27.848	0.000	27.036	0.000	10.045	0.000	0.000	27.913	26.994	-37.656	MWD+IFR1+MS
7600.000	9.318	40.092	7552.633	28.210	0.000	27.404	0.000	10.230	0.000	0.000	28.271	27.361	-37.518	MWD+IFR1+MS
7700.000	9.318	40.092	7651.313	28.573	0.000	27.772	0.000	10.418	0.000	0.000	28.630	27.729	-37.384	MWD+IFR1+MS
7800.000	9.318	40.092	7749.994	28.936	0.000	28.139	0.000	10.608	0.000	0.000	28.990	28.096	-37.254	MWD+IFR1+MS
7900.000	9.318	40.092	7848.674	29.299	0.000	28.507	0.000	10.801	0.000	0.000	29.349	28.463	-37.129	MWD+IFR1+MS
8000.000	9.318	40.092	7947.354	29.662	0.000	28.875	0.000	10.996	0.000	0.000	29.709	28.831	-37.009	MWD+IFR1+MS
8100.000	9.318	40.092	8046.035	30.026	0.000	29.243	0.000	11.194	0.000	0.000	30.069	29.198	-36.893	MWD+IFR1+MS
8200.000	9.318	40.092	8144.715	30.390	0.000	29.611	0.000	11.394	0.000	0.000	30.430	29.566	-36.781	MWD+IFR1+MS
8300.000	9.318	40.092	8243.396	30.755	0.000	29.979	0.000	11.598	0.000	0.000	30.791	29.934	-36.674	MWD+IFR1+MS
8400.000	9.318	40.092	8342.076	31.119	0.000	30.347	0.000	11.803	0.000	0.000	31.152	30.301	<b>-</b> 36.572	MWD+IFR1+MS
8500.000	9.318	40.092	8440.756	31.484	0.000	30.715	0.000	12.012	0.000	0.000	31.514	30.669	-36.474	MWD+IFR1+MS
8600.000	9.318	40.092	8539.437	31.850	0.000	31.084	0.000	12.223	0.000	0.000	31.875	31.037	-36.380	MWD+IFR1+MS
8700.000	9.318	40.092	8638.117	32.215	0.000	31.452	0.000	12.436	0.000	0.000	32.237	31.405	-36.291	MWD+IFR1+MS
8800.000	9.318	40.092	8736.798	32.581	0.000	31.820	0.000	12.653	0.000	0.000	32.600	31.773	-36.206	MWD+IFR1+MS
8900.000	9.318	40.092	8835.478	32.947	0.000	32.188	0.000	12.872	0.000	0.000	32.962	32.141	-36.126	MWD+IFR1+MS
9000.000	9.318	40.092	8934.158	33.313	0.000	32.557	0.000	13.093	0.000	0.000	33.325	32.509	-36.050	MWD+IFR1+MS
9100.000	9.318	40.092	9032.839	33.680	0.000	32.925	0.000	13.318	0.000	0.000	33.688	32.878	-35.979	MWD+IFR1+MS
9200.000	9.318	40.092	9131.519	34.046	0.000	33.294	0.000	13.545	0.000	0.000	34.051	33.246	-35.911	MWD+IFR1+MS
9300.000	9.318	40.092	9230.200	34.413	0.000	33.662	0.000	13.775	0.000	0.000	34.415	33.614	-35.849	MWD+IFR1+MS
9400.000	9.318	40.092	9328.880	34.780	0.000	34.031	0.000	14.007	0.000	0.000	34.778	33.983	-35.790	MWD+IFR1+MS
9500.000	9.318	40.092	9427.560	35.148	0.000	34.399	0.000	14.243	0.000	0.000	35.142	34.351	-35.736	MWD+IFR1+MS

9600.000	9.318	40.092	9526.241	35.515	0.000	34.768	0.000	14.481	0.000	0.000	35.506	34.720	-35.686	MWD+IFR1+MS
9610.027	9.318	40.092	9536.136	35.551	0.000	34.804	0.000	14.505	0.000	0.000	35.542	34.756	-35.713	MWD+IFR1+MS
9700.000	7.519	40.092	9625.135	35.940	0.000	35.131	0.000	14.722	0.000	0.000	35.876	35.084	-35.923	MWD+IFR1+MS
9800.000	5.519	40.092	9724.484	36.386	0.000	35.495	0.000	14.966	0.000	0.000	36.300	35.446	-36.095	MWD+IFR1+MS
9900.000	3.519	40.092	9824.168	36.796	0.000	35.856	0.000	15.210	0.000	0.000	36.728	35.803	-36.213	MWD+IFR1+MS
10000.000	1.519	40.092	9924.066	37.162	0.000	36.213	0.000	15.453	0.000	0.000	37.151	36.157	-36.285	MWD+IFR1+MS
10075.943	0.000	0.000	10000.000	36.792	0.000	37.076	0.000	15.638	0.000	0.000	37.437	36.426	-36.839	MWD+IFR1+MS
10100.000	0.000	0.000	10024.057	36.876	0.000	37.158	0.000	15.696	0.000	0.000	37.518	36.510	-36.884	MWD+IFR1+MS
10200.000	0.000	0.000	10124.057	37.225	0.000	37.500	0.000	15.941	0.000	0.000	37.858	36.860	-37.009	MWD+IFR1+MS
10300.000	0.000	0.000	10224.057	37.576	0.000	37.844	0.000	16.190	0.000	0.000	38.205	37.209	-37.181	MWD+IFR1+MS
10400.000	0.000	0.000	10324.057	37.927	0.000	38.189	0.000	16.441	0.000	0.000	38.552	37.559	-37.350	MWD+IFR1+MS
10509.743	0.000	0.000	10433.800	38.314	0.000	38.569	0.000	16.720	0.000	0.000	38.934	37.943	-37.550	MWD+IFR1+MS
10600.000	7.221	269.847	10523.818	38.537	-0.000	38.616	0.000	16.955	0.000	0.000	39.304	38.324	-33.049	MWD+IFR1+MS
10700.000	15.221	269.847	10621.827	38.746	-0.000	38.933	0.000	17.287	0.000	0.000	40.349	38.835	-14.743	MWD+IFR1+MS
10800.000	23.221	269.847	10716.176	38.479	-0.000	39.238	0.000	17.779	0.000	0.000	41.487	39.200	-7.461	MWD+IFR1+MS
10900.000	31.221	269.847	10805.029	37.691	-0.000	39.526	0.000	18.483	0.000	0.000	42.494	39.510	-4.288	MWD+IFR1+MS
11000.000	39.221	269.847	10886.657	36.470	-0.000	39.795	0.000	19.426	0.000	0.000	43.331	39.789	-2.565	MWD+IFR1+MS
11100.000	47.221	269.847	10959.470	34.934	-0.000	40.046	0.000	20.604	0.000	0.000	43.986	40.043	-1.507	MWD+IFR1+MS
11200.000	55.221	269.847	11022.052	33.238	-0.000	40.277	0.000	21.990	0.000	0.000	44.464	40.277	-0.825	MWD+IFR1+MS
11300.000	63.221	269.847	11073.183	31.573	-0.000	40.491	0.000	23.536	0.000	0.000	44.781	40.491	-0.400	MWD+IFR1+MS
11400.000	71.221	269.847	11111.870	30.166	-0.000	40.688	0.000	25.187	0.000	0.000	44.962	40.688	-0.190	MWD+IFR1+MS
11500.000	79.221	269.847	11137.360	29.251	-0.000	40.867	0.000	26.885	0.000	0.000	45.041	40.867	-0.191	MWD+IFR1+MS
11600.000	87.221	269.847	11149.155	29.033	-0.000	41.028	0.000	28.571	0.000	0.000	45.060	41.028	-0.423	MWD+IFR1+MS
11634.743	90.000	269.847	11149.997	28.706	0.000	41.076	0.000	28.706	0.000	0.000	45.061	41.076	-0.568	MWD+IFR1+MS
11700.000	90.000	269.847	11149.997	28.835	0.000	41.173	0.000	28.835	0.000	0.000	45.063	41.172	-0.865	MWD+IFR1+MS
11800.000	90.000	269.847	11149.997	29.016	0.000	41.349	0.000	29.016	0.000	0.000	45.066	41.347	-1.356	MWD+IFR1+MS
11900.000	90.000	269.847	11149.997	29.219	0.000	41.555	0.000	29.219	0.000	0.000	45.070	41.552	-1.907	MWD+IFR1+MS
12000.000	90.000	269.847	11149.997	29.441	0.000	41.791	0.000	29.441	0.000	0.000	45.076	41.785	-2.542	MWD+IFR1+MS
12100.000	90.000	269.847	11149.997	29.682	0.000	42.055	0.000	29.682	0.000	0.000	45.083	42.046	-3.296	MWD+IFR1+MS
12200.000	90.000	269.847	11149.997	29.942	0.000	42.348	0.000	29.942	0.000	0.000	45.092	42.334	-4.220	MWD+IFR1+MS
12300.000	90.000	269.847	11149.997	30.220	0.000	42.668	0.000	30.220	0.000	0.000	45.104	42.647	<b>-</b> 5.402	MWD+IFR1+MS
12400.000	90.000	269.847	11149.997	30.516	0.000	43.015	0.000	30.516	0.000	0.000	45.119	42.984	-6.985	MWD+IFR1+MS
12500.000	90.000	269.847	11149.997	30.829	0.000	43.388	0.000	30.829	0.000	0.000	45.140	43.342	-9.237	MWD+IFR1+MS

	12600.000	90.000	269.847	11149.997	31.158	0.000	43.786	0.000	31.158	0.000	0.000	45.170	43.717	<b>-</b> 12.691	MWD+IFR1+MS
	12700.000	90.000	269.847	11149.997	31.504	0.000	44.210	0.000	31.504	0.000	0.000	45.220	44.097	-18.494	MWD+IFR1+MS
	12800.000	90.000	269.847	11149.997	31.865	0.000	44.657	0.000	31.865	0.000	0.000	45.316	44.457	-28.923	MWD+IFR1+MS
	12900.000	90.000	269.847	11149.997	32.241	0.000	45.128	0.000	32.241	0.000	0.000	45.515	44.737	134.800	MWD+IFR1+MS
	13000.000	90.000	269.847	11149.997	32.632	0.000	45.622	0.000	32.632	0.000	0.000	45.858	44.896	119.688	MWD+IFR1+MS
	13100.000	90.000	269.847	11149.997	33.037	0.000	46.137	0.000	33.037	0.000	0.000	46.303	44.976	110.680	MWD+IFR1+MS
	13200.000	90.000	269.847	11149.997	33.455	0.000	46.674	0.000	33.455	0.000	0.000	46.804	45.022	105.638	MWD+IFR1+MS
	13300.000	90.000	269.847	11149.997	33.887	0.000	47.232	0.000	33.887	0.000	0.000	47.340	45.053	102.582	MWD+IFR1+MS
	13400.000	90.000	269.847	11149.997	34.331	0.000	47.809	0.000	34.331	0.000	0.000	47.904	45.078	100.565	MWD+IFR1+MS
	13500.000	90.000	269.847	11149.997	34.786	0.000	48.405	0.000	34.786	0.000	0.000	48.491	45.099	99.141	MWD+IFR1+MS
	13600.000	90.000	269.847	11149.997	35.254	0.000	49.020	0.000	35.254	0.000	0.000	49.098	45.118	98.084	MWD+IFR1+MS
	13700.000	90.000	269.847	11149.997	35.733	0.000	49.652	0.000	35.733	0.000	0.000	49.726	45.136	97.267	MWD+IFR1+MS
	13800.000	90.000	269.847	11149.997	36.222	0.000	50.302	0.000	36.222	0.000	0.000	50.371	45.154	96.616	MWD+IFR1+MS
	13900.000	90.000	269.847	11149.997	36.721	0.000	50.968	0.000	36.721	0.000	0.000	51.033	45.171	96.085	MWD+IFR1+MS
	14000.000	90.000	269.847	11149.997	37.231	0.000	51.649	0.000	37.231	0.000	0.000	51.712	45.189	95.641	MWD+IFR1+MS
	14100.000	90.000	269.847	11149.997	37.750	0.000	52.346	0.000	37.750	0.000	0.000	52.406	45.206	95.266	MWD+IFR1+MS
	14200.000	90.000	269.847	11149.997	38.277	0.000	53.058	0.000	38.277	0.000	0.000	53.115	45.224	94.942	MWD+IFR1+MS
	14300.000	90.000	269.847	11149.997	38.814	0.000	53.783	0.000	38.814	0.000	0.000	53.839	45.242	94.661	MWD+IFR1+MS
	14400.000	90.000	269.847	11149.997	39.359	0.000	54.522	0.000	39.359	0.000	0.000	54.576	45.261	94.413	MWD+IFR1+MS
	14500.000	90.000	269.847	11149.997	39.912	0.000	55.273	0.000	39.912	0.000	0.000	55.326	45.280	94.194	MWD+IFR1+MS
	14600.000	90.000	269.847	11149.997	40.472	0.000	56.037	0.000	40.472	0.000	0.000	56.088	45.299	93.997	MWD+IFR1+MS
	14700.000	90.000	269.847	11149.997	41.040	0.000	56.813	0.000	41.040	0.000	0.000	56.863	45.319	93.820	MWD+IFR1+MS
	14800.000	90.000	269.847	11149.997	41.615	0.000	57.600	0.000	41.615	0.000	0.000	57.649	45.339	93.660	MWD+IFR1+MS
	14900.000	90.000	269.847	11149.997	42.197	0.000	58.398	0.000	42.197	0.000	0.000	58.446	45.360	93.514	MWD+IFR1+MS
	15000.000	90.000	269.847	11149.997	42.785	0.000	59.207	0.000	42.785	0.000	0.000	59.254	45.381	93.380	MWD+IFR1+MS
	15100.000	90.000	269.847	11149.997	43.380	0.000	60.026	0.000	43.380	0.000	0.000	60.071	45.403	93.257	MWD+IFR1+MS
	15200.000	90.000	269.847	11149.997	43.980	0.000	60.854	0.000	43.980	0.000	0.000	60.899	45.426	93.143	MWD+IFR1+MS
	15300.000	90.000	269.847	11149.997	44.586	0.000	61.692	0.000	44.586	0.000	0.000	61.735	45.448	93.038	MWD+IFR1+MS
	15400.000	90.000	269.847	11149.997	45.198	0.000	62.538	0.000	45.198	0.000	0.000	62.581	45.472	92.940	MWD+IFR1+MS
•	15500.000	90.000	269.847	11149.997	45.815	0.000	63.393	0.000	45.815	0.000	0.000	63.435	45.496	92.848	MWD+IFR1+MS
	15600.000	90.000	269.847	11149.997	46.437	0.000	64.256	0.000	46.437	0.000	0.000	64.298	45.520	92.763	MWD+IFR1+MS
	15700.000	90.000	269.847	11149.997	47.064	0.000	65.127	0.000	47.064	0.000	0.000	65.168	45.545	92.682	MWD+IFR1+MS
	15800.000	90.000	269.847	11149.997	47.695	0.000	66.006	0.000	47.695	0.000	0.000	66.046	45.571	92.607	MWD+IFR1+MS

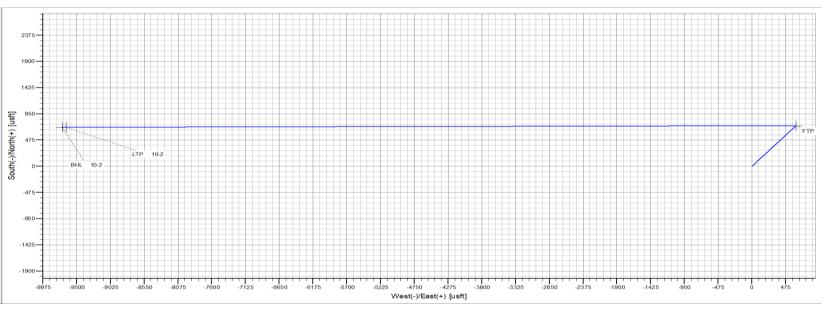
15900.000   90.000   289.847   11149.997   48.972   0.000   68.82   0.000   48.972   0.000   0.000   68.931   45.697   92.936   MWDH-   16100.000   90.000   289.847   11149.997   48.972   0.000   68.684   0.000   49.616   0.000   68.684   0.000   49.616   0.000   68.684   0.000   49.616   0.000   0.000   68.684   45.679   92.345   MWDH-   16200.000   90.000   289.847   11149.997   50.265   0.000   71.241   0.000   50.265   0.000   0.000   70.540   45.707   92.287   MWDH-   16200.000   90.000   289.847   11149.997   55.279   0.000   71.241   0.000   52.232   0.000   0.000   71.457   45.738   92.233   MWDH-   16200.000   90.000   289.847   11149.997   52.285   0.000   72.244   0.000   52.232   0.000   0.000   72.380   45.765   92.181   MWDH-   16200.000   90.000   289.847   11149.997   52.285   0.000   72.244   0.000   52.232   0.000   0.000   72.380   45.785   92.132   MWDH-   16200.000   90.000   289.847   11149.997   53.562   0.000   74.286   0.000   53.562   0.000   0.000   73.309   45.795   92.132   MWDH-   16200.000   90.000   289.847   11149.997   54.291   0.000   75.148   0.000   54.231   0.000   0.000   75.183   45.857   92.040   MWDH-   16200.000   90.000   289.847   11149.997   55.579   0.000   77.042   0.000   56.279   0.000   0.000   77.1707   45.888   91.998   MWDH-   17200.000   90.000   289.847   11149.997   55.579   0.000   77.996   0.000   56.279   0.000   0.000   77.1707   45.888   91.998   MWDH-   17200.000   90.000   289.847   11149.997   55.579   0.000   77.996   0.000   56.287   0.000   0.000   78.995   46.020   91.915   MWDH-   17200.000   90.000   289.847   11149.997   55.879   0.000   77.996   0.000   56.287   0.000   0.000   78.995   46.020   91.915   MWDH-   17200.000   90.000   289.847   11149.997   56.879   0.000   77.996   0.000   56.838   0.000   0.000   78.998   46.020   91.915   MWDH-   17200.000   90.000   289.847   11149.997   56.898   0.000   68.282   0.000   68.897   0.000   0.000   78.998   46.020   91.915   MWDH-   17200.000   90.000   289.847   11149.997   56.898   0.000															
16100.000   90.000   269.847   11149.997   49.616   0.000   68.84   0.000   49.616   0.000   0.000   68.722   45.651   92.405   MWD-1   16300.000   90.000   269.847   11149.997   50.917   0.000   70.502   0.000   50.265   0.000   0.000   0.000   70.540   45.707   92.287   MWD-1   16800.000   90.000   269.847   11149.997   51.573   0.000   71.421   0.000   51.573   0.000   0.000   71.457   45.736   92.233   MWD-1   16600.000   90.000   269.847   11149.997   52.232   0.000   73.274   0.000   52.895   0.000   0.000   73.339   45.765   92.181   MWD-1   16700.000   90.000   269.847   11149.997   53.562   0.000   73.274   0.000   52.895   0.000   0.000   73.339   45.795   92.132   MWD-1   16800.000   90.000   269.847   11149.997   53.562   0.000   73.481   0.000   52.895   0.000   0.000   74.243   45.826   92.085   MWD-1   16800.000   90.000   269.847   11149.997   54.904   0.000   75.093   0.000   54.904   0.000   76.127   45.888   91.996   MWD-1   17000.000   90.000   269.847   11149.997   54.904   0.000   75.693   0.000   55.579   0.000   0.000   77.076   45.921   91.955   MWD-1   17000.000   90.000   269.847   11149.997   56.257   0.000   77.996   0.000   55.579   0.000   0.000   78.033   45.953   91.915   MWD-1   17200.000   90.000   269.847   11149.997   56.257   0.000   75.622   0.000   0.000   78.033   45.953   91.915   MWD-1   17200.000   90.000   269.847   11149.997   56.257   0.000   76.627   0.000   58.308   0.000   0.000   78.388   46.600   91.871   MWD-1   17200.000   90.000   269.847   11149.997   56.957   0.000   76.822   0.000   0.000   78.383   46.585   91.395   MWD-1   17200.000   90.000   269.847   11149.997   56.527   0.000   58.308   0.000   0.000   80.916   46.055   91.805   MWD-1   17200.000   90.000   269.847   11149.997   56.527   0.000   56.308   0.000   0.000   80.916   46.055   91.805   MWD-1   17200.000   90.000   269.847   11149.997   56.527   0.000   68.574   0.000   58.308   0.000   0.000   80.816   46.055   91.805   MWD-1   17200.000   90.000   269.847   11149.997   64.505   0.000	15900.00	90.000	269.847	11149.997	48.331	0.000	66.892	0.000	48.331	0.000	0.000	66.931	45.597	92.536 MW	D+IFR1+MS
16200,000   90,000   269,847   11149,997   50,265   0,000   69,590   0,000   50,265   0,000   0,000   0,000   70,540   45,707   92,245   MWD-1   16400,000   90,000   269,847   11149,997   51,573   0,000   72,441   0,000   52,850   0,000   0,000   71,457   45,736   92,245   MWD-1   16500,000   90,000   269,847   11149,997   52,895   0,000   72,441   0,000   52,895   0,000   0,000   72,380   45,795   92,132   MWD-1   16700,000   90,000   269,847   11149,997   52,895   0,000   74,400   0,000   74,431   45,826   92,095   MWD-1   16800,000   90,000   269,847   11149,997   54,231   0,000   74,400   0,000   36,800   75,183   45,857   92,040   MWD-1   16900,000   90,000   269,847   11149,997   54,231   0,000   70,420   0,000   36,552   0,000   0,000   76,183   45,857   92,040   MWD-1   17000,000   90,000   269,847   11149,997   56,579   0,000   70,420   0,000   56,579   0,000   0,000   77,076   45,921   91,955   MWD-1   17000,000   90,000   269,847   11149,997   56,579   0,000   77,042   0,000   56,257   0,000   0,000   70,000   70,000   45,993   91,915   MWD-1   17000,000   90,000   269,847   11149,997   56,579   0,000   78,955   0,000   56,257   0,000   0,000   70,000   78,938   45,987   91,915   MWD-1   17000,000   90,000   269,847   11149,997   56,308   0,000   56,257   0,000   0,000   79,988   45,987   91,915   MWD-1   17000,000   90,000   269,847   11149,997   56,308   0,000   56,257   0,000   0,000   79,988   45,987   91,915   MWD-1   17000,000   90,000   269,847   11149,997   56,308   0,000   58,957   0,000   56,257   0,000   0,000   79,988   46,055   91,805   MWD-1   17000,000   90,000   269,847   11149,997   56,308   0,000   58,957   0,000   56,958   0,000   0,000   81,886   46,055   91,807   MWD-1   17000,000   90,000   269,847   11149,997   56,308   0,000   58,957   0,000   56,958   0,000   0,000   81,886   46,055   91,607   MWD-1   17000,000   90,000   269,847   11149,997   61,677   0,000   63,678   0,000   63,679   0,000   63,689   0,000   0,000   81,886   46,198   91,677   MWD-1   17000,000   90,000	16000.00	90.000	269.847	11149.997	48.972	0.000	67.785	0.000	48.972	0.000	0.000	67.824	45.624	92.468 MW	D+IFR1+MS
16300.000   90.000   269.847   11149.997   50.917   0.000   70.502   0.000   50.917   0.000   0.000   70.540   45.707   92.287   MWDH   16400.000   90.000   269.847   11149.997   52.232   0.000   72.344   0.000   52.232   0.000   0.000   72.380   45.765   92.181   MWDH   16600.000   90.000   269.847   11149.997   52.852   0.000   73.274   0.000   52.232   0.000   0.000   73.380   45.765   92.181   MWDH   16700.000   90.000   269.847   11149.997   53.562   0.000   74.248   0.000   53.562   0.000   0.000   74.243   45.826   92.085   MWDH   16800.000   90.000   269.847   11149.997   54.231   0.000   75.148   0.000   54.231   0.000   0.000   75.183   45.857   92.040   MWDH   16800.000   90.000   269.847   11149.997   54.231   0.000   76.093   0.000   54.231   0.000   0.000   77.076   45.888   91.996   MWDH   17000.000   90.000   269.847   11149.997   56.257   0.000   77.042   0.000   55.579   0.000   77.076   45.921   91.995   MWDH   17200.000   90.000   269.847   11149.997   56.257   0.000   77.996   0.000   56.237   0.000   0.000   78.983   45.987   91.975   MWDH   17200.000   90.000   269.847   11149.997   56.257   0.000   79.917   0.000   56.237   0.000   0.000   79.986   46.020   91.841   MWDH   17400.000   90.000   269.847   11149.997   56.257   0.000   79.917   0.000   56.239   0.000   0.000   79.950   46.020   91.841   MWDH   17600.000   90.000   269.847   11149.997   58.987   0.000   80.884   0.000   56.938   0.000   0.000   79.950   46.020   91.841   MWDH   17600.000   90.000   269.847   11149.997   58.987   0.000   80.884   0.000   56.989   0.000   60.884   0.000   269.847   11149.997   58.987   0.000   80.884   0.000   60.898   0.000   80.916   46.025   91.305   MWDH   17600.000   90.000   269.847   11149.997   58.987   0.000   80.884   0.000   60.988   0.000   80.986   46.989   91.771   MWDH   17600.000   90.000   269.847   11149.997   61.077   0.000   84.786   0.000   63.878   46.698   91.677   MWDH   18000.000   90.000   269.847   11149.997   61.677   0.000   86.786   0.000   60.000   87.784   46.6	16100.00	90.000	269.847	11149.997	49.616	0.000	68.684	0.000	49.616	0.000	0.000	68.722	45.651	92.405 MW	D+IFR1+MS
16400.000   90.000   269.847   11149.997   51.573   0.000   71.421   0.000   51.573   0.000   0.000   71.457   45.736   92.233   MWD+	16200.00	90.000	269.847	11149.997	50.265	0.000	69.590	0.000	50.265	0.000	0.000	69.628	45.679	92.345 MW	D+IFR1+MS
16500.000   90.000   269.847   11149.997   52.232   0.000   72.344   0.000   52.232   0.000   0.000   72.380   45.765   92.181   MWDH   16700.000   90.000   269.847   11149.997   53.562   0.000   73.248   0.000   53.562   0.000   0.000   74.243   45.826   92.055   MWDH   16800.000   90.000   269.847   11149.997   53.562   0.000   75.148   0.000   54.543   0.000   0.000   75.143   45.826   92.055   MWDH   16900.000   90.000   269.847   11149.997   54.241   0.000   75.093   0.000   54.940   0.000   0.000   75.143   45.857   92.040   MWDH   17000.000   90.000   269.847   11149.997   55.579   0.000   77.42   0.000   54.940   0.000   0.000   77.076   45.921   91.955   MWDH   17100.000   90.000   269.847   11149.997   55.286   0.000   77.942   0.000   56.257   0.000   0.000   78.030   45.953   91.915   MWDH   17300.000   90.000   269.847   11149.997   56.938   0.000   79.917   0.000   56.257   0.000   0.000   78.988   45.987   91.877   MWDH   17400.000   90.000   269.847   11149.997   56.938   0.000   79.917   0.000   57.622   0.000   0.000   79.950   46.020   91.841   MWDH   17500.000   90.000   269.847   11149.997   56.988   0.000   80.844   0.000   56.838   0.000   0.000   80.916   46.055   91.805   MWDH   17500.000   90.000   269.847   11149.997   56.688   0.000   82.845   0.000   82.845   46.125   91.739   MWDH   17600.000   90.000   269.847   11149.997   60.381   0.000   83.848   0.000   80.381   0.000   0.000   84.826   46.125   91.739   MWDH   17800.000   90.000   269.847   11149.997   60.381   0.000   84.785   0.000   61.777   0.000   0.000   84.826   46.272   91.619   MWDH   17800.000   90.000   269.847   11149.997   60.381   0.000   84.785   0.000   61.777   0.000   0.000   84.826   46.272   91.619   MWDH   18000.000   90.000   269.847   11149.997   63.476   0.000   87.747   0.000   63.070   0.000   87.784   46.310   91.555   MWDH   18000.000   90.000   269.847   11149.997   63.675   0.000   87.747   0.000   63.679   0.000   97.765   46.227   91.619   MWDH   18000.000   90.000   269.847   11149.997   63.	16300.00	90.000	269.847	11149.997	50.917	0.000	70.502	0.000	50.917	0.000	0.000	70.540	45.707	92.287 MW	D+IFR1+MS
16600.000   90.000   269.847   11149.997   52.895   0.000   73.274   0.000   52.895   0.000   0.000   73.309   45.795   92.132   MWD-16700.000   90.000   269.847   11149.997   53.562   0.000   74.000   53.562   0.000   0.000   74.243   45.826   92.085   MWD-16900.000   90.000   269.847   11149.997   54.904   0.000   77.094   0.000   54.231   0.000   0.000   76.127   45.888   91.996   MWD-17000.000   90.000   269.847   11149.997   54.904   0.000   77.094   0.000   55.257   0.000   0.000   76.127   45.888   91.996   MWD-17100.000   90.000   269.847   11149.997   55.579   0.000   77.096   0.000   56.257   0.000   0.000   78.030   45.953   91.915   MWD-17200.000   90.000   269.847   11149.997   56.938   0.000   79.995   0.000   56.257   0.000   0.000   78.030   45.987   91.877   MWD-17200.000   90.000   269.847   11149.997   56.938   0.000   79.995   0.000   56.257   0.000   0.000   79.950   46.020   91.841   MWD-17200.000   90.000   269.847   11149.997   56.338   0.000   80.884   0.000   80.308   0.000   0.000   80.916   46.055   91.805   MWD-17500.000   90.000   269.847   11149.997   56.880   0.000   82.895   0.000   56.381   0.000   0.000   82.861   46.125   91.739   MWD-17700.000   90.000   269.847   11149.997   56.881   0.000   82.805   0.000   56.381   0.000   0.000   82.861   46.125   91.739   MWD-17700.000   90.000   269.847   11149.997   50.881   0.000   82.805   0.000   50.381   0.000   0.000   83.838   46.161   91.707   MWD-17700.000   90.000   269.847   11149.997   60.881   0.000   82.805   0.000   60.381   0.000   0.000   83.838   46.161   91.707   MWD-17800.000   90.000   269.847   11149.997   60.381   0.000   87.74   0.000   60.381   0.000   0.000   83.838   46.161   91.707   MWD-18800.000   90.000   269.847   11149.997   63.476   0.000   87.74   0.000   63.879   0.000   87.74   46.386   91.592   MWD-18800.000   90.000   269.847   11149.997   63.458   0.000   87.74   0.000   63.879   0.000   0.000   87.76   46.386   91.592   MWD-18800.000   90.000   269.847   11149.997   63.458   0.000   97.77   0.	16400.00	90.000	269.847	11149.997	51.573	0.000	71.421	0.000	51.573	0.000	0.000	71.457	45.736	92.233 MW	D+IFR1+MS
16700.000   90.000   269.847   11149.997   53.562   0.000   74.208   0.000   53.562   0.000   0.000   74.243   45.826   92.085   MWDH   16800.000   90.000   269.847   11149.997   54.231   0.000   75.148   0.000   54.231   0.000   0.000   75.183   45.857   92.040   MWDH   17000.000   90.000   269.847   11149.997   55.579   0.000   77.996   0.000   54.904   0.000   0.000   77.076   45.921   91.955   MWDH   17100.000   90.000   269.847   11149.997   56.257   0.000   77.996   0.000   56.257   0.000   0.000   77.076   45.921   91.955   MWDH   17200.000   90.000   269.847   11149.997   56.258   0.000   77.996   0.000   56.257   0.000   0.000   78.988   45.987   91.877   MWDH   17400.000   90.000   269.847   11149.997   56.202   0.000   79.917   0.000   56.257   0.000   0.000   79.950   46.020   91.841   MWDH   17500.000   90.000   269.847   11149.997   58.938   0.000   80.884   0.000   58.398   0.000   0.000   80.916   46.055   91.805   MWDH   17500.000   90.000   269.847   11149.997   58.968   0.000   83.898   0.000   58.997   0.000   0.000   81.886   46.090   91.771   MWDH   17600.000   90.000   269.847   11149.997   59.688   0.000   83.808   0.000   58.997   0.000   0.000   83.838   46.181   91.773   MWDH   17700.000   90.000   269.847   11149.997   60.381   0.000   83.808   0.000   0.000   83.838   46.181   91.770   MWDH   17800.000   90.000   269.847   11149.997   61.077   0.000   83.808   0.000   0.000   83.838   46.181   91.770   MWDH   17800.000   90.000   269.847   11149.997   61.077   0.000   83.784   0.000   61.077   0.000   0.000   85.804   46.235   91.647   MWDH   1800.000   90.000   269.847   11149.997   63.879   0.000   87.744   0.000   0.000   85.804   46.235   91.647   MWDH   1800.000   90.000   269.847   11149.997   63.879   0.000   87.744   0.000   0.000   87.784   46.310   91.592   MWDH   1800.000   90.000   269.847   11149.997   63.879   0.000   87.744   0.000   0.000   87.784   46.310   91.592   MWDH   1800.000   90.000   269.847   11149.997   63.879   0.000   97.747   0.000   65.879   0.000	16500.00	90.000	269.847	11149.997	52.232	0.000	72.344	0.000	52.232	0.000	0.000	72.380	45.765	92.181 MW	D+IFR1+MS
16800.000   90.000   269.847   11149.997   54.231   0.000   75.148   0.000   54.231   0.000   0.000   75.183   45.857   92.040   MWDH   16900.000   90.000   269.847   11149.997   55.579   0.000   77.042   0.000   55.579   0.000   0.000   77.076   45.921   91.955   MWDH   17000.000   90.000   269.847   11149.997   56.257   0.000   77.996   0.000   56.257   0.000   0.000   78.938   45.953   91.915   MWDH   17000.000   90.000   269.847   11149.997   56.257   0.000   77.996   0.000   56.257   0.000   0.000   78.958   45.987   91.877   MWDH   17300.000   90.000   269.847   11149.997   57.622   0.000   78.955   0.000   56.257   0.000   0.000   79.950   46.020   91.805   MWDH   17500.000   90.000   269.847   11149.997   58.398   0.000   82.829   0.000   58.398   0.000   0.000   80.916   46.055   91.805   MWDH   17500.000   90.000   269.847   11149.997   59.688   0.000   82.829   0.000   59.688   0.000   0.000   82.861   46.125   91.739   MWDH   17700.000   90.000   269.847   11149.997   59.688   0.000   82.829   0.000   59.688   0.000   0.000   82.861   46.125   91.739   MWDH   17700.000   90.000   269.847   11149.997   63.381   0.000   83.808   0.000   0.000   84.820   46.198   91.677   MWDH   17900.000   90.000   269.847   11149.997   61.077   0.000   84.789   0.000   61.777   0.000   0.000   84.820   46.198   91.677   MWDH   18000.000   90.000   269.847   11149.997   62.474   0.000   86.763   0.000   62.474   0.000   62.474   0.000   85.784   46.335   91.647   MWDH   18000.000   90.000   269.847   11149.997   63.879   0.000   87.754   0.000   62.474   0.000   62.474   0.000   87.764   46.388   91.539   MWDH   18000.000   90.000   269.847   11149.997   63.379   0.000   87.754   0.000   63.879   0.000   0.000   87.764   46.388   91.539   MWDH   18000.000   90.000   269.847   11149.997   63.679   0.000   87.764   0.000   60.000   0.000   87.764   46.388   91.539   MWDH   18000.000   90.000   269.847   11149.997   63.679   0.000   97.767   0.000   60.000   0.000   97.76   46.428   91.549   MWDH   18000.000   90.000	16600.00	90.000	269.847	11149.997	52.895	0.000	73.274	0.000	52.895	0.000	0.000	73.309	45.795	92.132 MW	D+IFR1+MS
16900.000 90.000 269.847 11149.997 54.904 0.000 76.093 0.000 54.904 0.000 0.000 76.127 45.888 91.996 MWD+17000.000 90.000 269.847 11149.997 55.579 0.000 77.042 0.000 55.579 0.000 0.000 77.076 45.921 91.955 MWD+17100.000 90.000 269.847 11149.997 56.257 0.000 77.996 0.000 56.257 0.000 0.000 78.030 45.953 91.915 MWD+17300.000 90.000 269.847 11149.997 57.622 0.000 79.917 0.000 57.622 0.000 0.000 78.988 45.987 91.877 MWD+17400.000 90.000 269.847 11149.997 57.622 0.000 79.917 0.000 57.622 0.000 0.000 79.950 46.020 91.841 MWD+17400.000 90.000 269.847 11149.997 58.308 0.000 81.855 0.000 58.398 0.000 0.000 81.886 46.090 91.771 MWD+17600.000 90.000 269.847 11149.997 50.381 0.000 81.855 0.000 58.997 0.000 0.000 81.886 46.090 91.771 MWD+17700.000 90.000 269.847 11149.997 50.381 0.000 81.855 0.000 59.889 0.000 0.000 81.886 46.090 91.771 MWD+17700.000 90.000 269.847 11149.997 50.381 0.000 81.886 0.000 80.881 0.000 0.000 81.886 46.090 91.771 MWD+17700.000 90.000 269.847 11149.997 50.381 0.000 81.879 0.000 80.081 0.000 0.000 81.886 46.090 91.771 MWD+17800.000 90.000 269.847 11149.997 60.381 0.000 81.879 0.000 80.081 0.000 0.000 81.886 46.125 91.739 MWD+17800.000 90.000 269.847 11149.997 60.381 0.000 81.779 0.000 81.771 0.000 0.000 81.886 46.125 91.739 MWD+18000.000 90.000 269.847 11149.997 61.077 0.000 81.779 0.000 81.771 0.000 0.000 81.886 46.125 91.697 MWD+18000.000 90.000 269.847 11149.997 61.379 0.000 81.779 0.000 61.774 0.000 0.000 81.778 46.310 91.592 MWD+18100.000 90.000 269.847 11149.997 61.479 0.000 81.779 0.000 61.774 0.000 0.000 81.778 46.310 91.592 MWD+18100.000 90.000 269.847 11149.997 61.479 0.000 81.751 0.000 61.876 0.000 0.000 81.779 46.488 91.591 MWD+18100.000 90.000 269.847 11149.997 66.712 0.000 91.751 0.000 61.875 0.000 0.000 91.779 46.488 91.591 MWD+18100.000 90.000 269.847 11149.997 66.712 0.000 91.751 0.000 61.742 0.000 0.000 91.779 46.488 91.591 91.444 MWD+18100.000 90.000 269.847 11149.997 66.812 0.000 91.751 0.000 61.855 0.000 0.000 91.779 46.6488 91.591 91.444 MWD+18100.000 90.000 269.847 11149.997 6	16700.00	90.000	269.847	11149.997	53.562	0.000	74.208	0.000	53.562	0.000	0.000	74.243	45.826	92.085 MW	D+IFR1+MS
17000.000   90.000   269.847   11149.997   55.579   0.000   77.042   0.000   55.579   0.000   0.000   77.076   45.921   91.955   MWD+1   17100.000   90.000   269.847   11149.997   56.257   0.000   79.955   0.000   56.257   0.000   0.000   78.030   45.953   91.915   MWD+1   17200.000   90.000   269.847   11149.997   57.622   0.000   79.917   0.000   57.622   0.000   0.000   79.950   46.020   91.841   MWD+1   17400.000   90.000   269.847   11149.997   58.308   0.000   80.884   0.000   58.308   0.000   0.000   80.916   46.055   91.805   MWD+1   17500.000   90.000   269.847   11149.997   58.987   0.000   81.855   0.000   58.997   0.000   0.000   81.886   46.090   91.771   MWD+1   17500.000   90.000   269.847   11149.997   56.381   0.000   82.829   0.000   58.897   0.000   0.000   83.838   46.125   91.739   MWD+1   177000.000   90.000   269.847   11149.997   61.381   0.000   81.855   0.000   61.077   0.000   0.000   83.838   46.125   91.739   MWD+1   17900.000   90.000   269.847   11149.997   61.777   0.000   84.789   0.000   61.077   0.000   0.000   84.820   46.198   91.677   MWD+1   18000.000   90.000   269.847   11149.997   61.774   0.000   85.774   0.000   61.077   0.000   0.000   85.804   46.235   91.647   MWD+1   18000.000   90.000   269.847   11149.997   61.375   0.000   87.754   0.000   63.476   0.000   0.000   87.784   46.310   91.592   MWD+1   18000.000   90.000   269.847   11149.997   64.585   0.000   87.754   0.000   63.879   0.000   0.000   87.784   46.310   91.592   MWD+1   18000.000   90.000   269.847   11149.997   64.585   0.000   87.754   0.000   0.000   87.766   46.488   91.591   MWD+1   18000.000   90.000   269.847   11149.997   66.712   0.000   90.747   0.000   64.585   0.000   0.000   90.776   46.488   91.591   MWD+1   18000.000   90.000   269.847   11149.997   66.712   0.000   90.747   0.000   66.712   0.000   0.000   90.776   46.468   91.491   MWD+1   18000.000   90.000   269.847   11149.997   66.712   0.000   90.776   0.000   66.712   0.000   0.000   90.776   46.468   91.491   MWD+1   18000	16800.00	90.000	269.847	11149.997	54.231	0.000	75.148	0.000	54.231	0.000	0.000	75.183	45.857	92.040 MW	D+IFR1+MS
17100.000 90.000 269.847 11149.997 56.257 0.000 77.996 0.000 56.257 0.000 0.000 78.030 45.953 91.915 MWD+1 17200.000 90.000 269.847 11149.997 56.938 0.000 78.955 0.000 56.938 0.000 0.000 78.988 45.987 91.877 MWD+1 17300.000 90.000 269.847 11149.997 57.622 0.000 79.917 0.000 57.622 0.000 0.000 79.950 46.020 91.841 MWD+1 17500.000 90.000 269.847 11149.997 58.308 0.000 81.855 0.000 58.938 0.000 0.000 80.916 46.055 91.805 MWD+1 17500.000 90.000 269.847 11149.997 59.688 0.000 82.829 0.000 59.688 0.000 0.000 81.886 46.090 91.771 MWD+1 17700.000 90.000 269.847 11149.997 60.381 0.000 82.829 0.000 69.881 0.000 0.000 82.861 46.125 91.739 MWD+1 17500.000 90.000 269.847 11149.997 60.381 0.000 83.888 0.000 60.381 0.000 0.000 83.838 46.161 91.707 MWD+1 17500.000 90.000 269.847 11149.997 61.777 0.000 84.789 0.000 61.077 0.000 0.000 84.820 46.198 91.677 MWD+1 18000.000 90.000 269.847 11149.997 61.774 0.000 85.774 0.000 61.774 0.000 0.000 85.804 46.235 91.647 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 62.474 0.000 0.000 88.784 46.310 91.592 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 63.879 0.000 0.000 87.784 46.310 91.592 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 63.879 0.000 0.000 87.784 46.310 91.592 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 63.879 0.000 0.000 87.784 46.310 91.592 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 65.292 0.000 0.000 87.754 46.388 91.539 MWD+1 18000.000 90.000 269.847 11149.997 63.879 0.000 90.776 0.000 0.000 90.776 46.488 91.593 MWD+1 18000.000 90.000 269.847 11149.997 66.010 0.000 90.776 0.000 0.000 90.776 46.488 91.593 MWD+1 18000.000 90.000 269.847 11149.997 66.813 0.000 90.776 0.000 0.000 90.776 46.488 91.593 MWD+1 18000.000 90.000 269.847 11149.997 66.812 0.000 90.777 0.000 66.712 0.000 0.000 90.776 46.488 91.593 MWD+1 18000.000 90.000 269.847 11149.997 66.813 0.000 90.777 0.000 66.810 0.000 0.000 90.776 46.488 91.593 MWD+1 18000.000 90.000 269.847 11149.997 66.813 0.000 90.0	16900.00	90.000	269.847	11149.997	54.904	0.000	76.093	0.000	54.904	0.000	0.000	76.127	45.888	91.996 MW	D+IFR1+MS
17200.000 90.000 269.847 11149.997 56.938 0.000 78.955 0.000 56.938 0.000 0.000 78.988 45.987 91.877 MWD+1 17300.000 90.000 269.847 11149.997 57.622 0.000 79.917 0.000 57.622 0.000 0.000 79.950 46.020 91.841 MWD+1 17500.000 90.000 269.847 11149.997 58.997 0.000 81.855 0.000 58.997 0.000 0.000 80.916 46.055 91.805 MWD+1 17500.000 90.000 269.847 11149.997 59.688 0.000 82.829 0.000 59.888 0.000 0.000 82.861 46.125 91.739 MWD+1 17700.000 90.000 269.847 11149.997 60.381 0.000 83.808 0.000 60.381 0.000 0.000 83.838 46.161 91.707 MWD+1 17800.000 90.000 269.847 11149.997 61.077 0.000 85.774 0.000 61.077 0.000 0.000 83.838 46.181 91.707 MWD+1 17900.000 90.000 269.847 11149.997 61.077 0.000 85.774 0.000 61.077 0.000 0.000 85.804 46.235 91.647 MWD+1 18000.000 90.000 269.847 11149.997 62.474 0.000 85.774 0.000 62.474 0.000 0.000 85.804 46.235 91.647 MWD+1 18000.000 90.000 269.847 11149.997 63.176 0.000 87.754 0.000 63.870 0.000 0.000 88.784 46.310 91.592 MWD+1 18000.000 90.000 269.847 11149.997 63.876 0.000 87.754 0.000 63.870 0.000 0.000 88.778 46.349 91.565 MWD+1 18000.000 90.000 269.847 11149.997 63.876 0.000 87.754 0.000 63.870 0.000 0.000 88.778 46.349 91.565 MWD+1 18000.000 90.000 269.847 11149.997 63.678 0.000 87.754 0.000 63.870 0.000 0.000 88.778 46.348 91.539 MWD+1 18000.000 90.000 269.847 11149.997 63.685 0.000 91.751 0.000 64.585 0.000 0.000 89.776 46.488 91.539 MWD+1 18000.000 90.000 269.847 11149.997 63.685 0.000 91.751 0.000 66.001 0.000 90.776 46.488 91.539 MWD+1 18000.000 90.000 269.847 11149.997 66.001 0.000 91.751 0.000 66.001 0.000 90.776 46.488 91.539 MWD+1 18000.000 90.000 269.847 11149.997 67.425 0.000 91.751 0.000 66.001 0.000 90.776 46.488 91.490 MWD+1 18000.000 90.000 269.847 11149.997 68.839 0.000 91.751 0.000 66.001 0.000 91.779 46.468 91.490 MWD+1 18000.000 90.000 269.847 11149.997 68.839 0.000 91.751 0.000 66.001 0.000 91.779 46.468 91.490 MWD+1 18000.000 90.000 269.847 11149.997 68.839 0.000 91.751 0.000 68.854 0.000 0.000 91.779 46.468 91.440 MWD+1 18000.000 90.000 269.847 11149.997 68.839 0	17000.00	90.000	269.847	11149.997	55.579	0.000	77.042	0.000	55.579	0.000	0.000	77.076	45.921	91.955 MW	D+IFR1+MS
17300.000 90.000 269.847 11149.997 57.622 0.000 79.917 0.000 57.622 0.000 0.000 79.950 46.020 91.841 MWDH 17400.000 90.000 269.847 11149.997 58.308 0.000 80.884 0.000 58.308 0.000 0.000 80.916 46.055 91.805 MWDH 17500.000 90.000 269.847 11149.997 59.688 0.000 82.829 0.000 59.688 0.000 0.000 82.861 46.125 91.739 MWDH 17700.000 90.000 269.847 11149.997 60.381 0.000 83.808 0.000 60.381 0.000 0.000 83.8383 46.161 91.707 MWDH 17800.000 90.000 269.847 11149.997 61.077 0.000 85.774 0.000 61.077 0.000 0.000 85.804 46.235 91.647 MWDH 18000.000 90.000 269.847 11149.997 62.474 0.000 85.774 0.000 62.474 0.000 0.000 85.804 46.235 91.647 MWDH 18000.000 90.000 269.847 11149.997 63.176 0.000 87.754 0.000 62.474 0.000 0.000 85.804 46.235 91.647 MWDH 18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 63.879 0.000 0.000 87.784 46.310 91.592 MWDH 18300.000 90.000 269.847 11149.997 64.585 0.000 87.754 0.000 63.879 0.000 0.000 87.784 46.349 91.565 MWDH 18300.000 90.000 269.847 11149.997 65.292 0.000 90.747 0.000 64.585 0.000 90.776 46.428 91.514 MWDH 18500.000 90.000 269.847 11149.997 65.292 0.000 90.774 0.000 65.292 0.000 0.000 90.776 46.428 91.514 MWDH 18500.000 90.000 269.847 11149.997 66.011 0.000 90.775 0.000 66.011 0.000 0.000 90.776 46.428 91.514 MWDH 18500.000 90.000 269.847 11149.997 66.012 0.000 90.775 0.000 66.011 0.000 0.000 90.776 46.428 91.514 MWDH 18500.000 90.000 269.847 11149.997 67.425 0.000 90.775 0.000 66.011 0.000 0.000 90.776 46.428 91.514 MWDH 18700.000 90.000 269.847 11149.997 67.425 0.000 90.775 0.000 66.011 0.000 0.000 90.776 46.688 91.490 MWDH 18700.000 90.000 269.847 11149.997 67.425 0.000 90.775 0.000 66.011 0.000 0.000 90.779 46.468 91.490 MWDH 18700.000 90.000 269.847 11149.997 68.854 0.000 90.775 0.000 66.011 0.000 0.000 90.779 46.468 91.490 MWDH 18700.000 90.000 269.847 11149.997 68.854 0.000 90.775 0.000 66.7425 0.000 0.000 90.779 46.468 91.490 MWDH 18700.000 90.000 269.847 11149.997 68.854 0.000 90.775 0.000 68.854 0.000 0.000 90.833 46.550 91.440 MWDH 18700.000 90.000 269.847 11149.997 6	17100.00	90.000	269.847	11149.997	56.257	0.000	77.996	0.000	56.257	0.000	0.000	78.030	45.953	91.915 MW	D+IFR1+MS
17400.000 90.000 269.847 11149.997 58.308 0.000 80.884 0.000 58.308 0.000 0.000 80.916 46.055 91.805 MWD+17500.000 90.000 269.847 11149.997 59.688 0.000 81.855 0.000 58.897 0.000 0.000 81.886 46.090 91.771 MWD+17700.000 90.000 269.847 11149.997 59.688 0.000 82.829 0.000 59.688 0.000 0.000 82.861 46.125 91.739 MWD+17700.000 90.000 269.847 11149.997 60.381 0.000 83.808 0.000 60.381 0.000 0.000 83.838 46.161 91.707 MWD+17800.000 90.000 269.847 11149.997 61.077 0.000 84.789 0.000 61.077 0.000 0.000 84.820 46.198 91.677 MWD+17900.000 90.000 269.847 11149.997 61.074 0.000 85.774 0.000 61.774 0.000 0.000 85.804 46.235 91.647 MWD+18000.000 90.000 269.847 11149.997 63.879 0.000 87.754 0.000 61.774 0.000 0.000 88.778 46.310 91.592 MWD+18000.000 90.000 269.847 11149.997 63.879 0.000 88.749 0.000 63.879 0.000 0.000 88.778 46.349 91.565 MWD+18000.000 90.000 269.847 11149.997 65.292 0.000 90.747 0.000 64.585 0.000 0.000 88.778 46.388 91.539 MWD+18000.000 90.000 269.847 11149.997 65.292 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 66.010 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 66.010 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 66.010 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 66.8139 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 66.814 0.000 91.775 0.000 66.010 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 68.854 0.000 91.777 0.000 68.854 0.000 0.000 91.779 46.468 91.490 MWD+18000.000 90.000 269.847 11149.997 68.854 0.000 91.777 0.000 68.854 0.000 0.000 91.779 46.635 91.440 MWD+18000.000 90.000 269.847 11149.997 68.854 0.000 91.777 0.000 68.854 0.000 0.000 91.779 46.635 91.440 MWD+18000.000 90.000 269.847 11149.997 68.854 0.000 91.777 0.000 68.854 0.000 0.000 91.779 46.635 91.400 MWD+180000 90.000 90.000 269.847 11149.997 68.854 0.00	17200.00	90.000	269.847	11149.997	56.938	0.000	78.955	0.000	56.938	0.000	0.000	78.988	45.987	91.877 MW	D+IFR1+MS
17500.000         90.000         269.847         11149.997         58.997         0.000         81.855         0.000         58.997         0.000         0.000         81.886         46.090         91.771         MWD+1           17600.000         90.000         269.847         11149.997         59.688         0.000         82.829         0.000         59.688         0.000         0.000         82.861         46.125         91.739         MWD+1           17700.000         90.000         269.847         11149.997         61.077         0.000         84.789         0.000         61.077         0.000         61.774         0.000         84.789         0.000         61.774         0.000         84.789         0.000         0.000         84.820         46.198         91.677         MWD+1           17900.000         90.000         269.847         11149.997         61.774         0.000         85.774         0.000         0.000         85.804         46.235         91.647         MWD+1           18100.000         90.000         269.847         11149.997         63.176         0.000         87.754         0.000         63.176         0.000         87.784         46.319         91.592         MWD+1	17300.00	90.000	269.847	11149.997	57.622	0.000	79.917	0.000	57.622	0.000	0.000	79.950	46.020	91.841 MW	D+IFR1+MS
17600.000         90.000         269.847         11149.997         59.688         0.000         82.829         0.000         59.688         0.000         0.000         82.861         46.125         91.739         MWD+1           17700.000         90.000         269.847         11149.997         60.381         0.000         81.870         0.000         61.077         0.000         61.077         0.000         83.838         46.161         91.707         MWD+1           17800.000         90.000         269.847         11149.997         61.077         0.000         85.774         0.000         61.774         0.000         61.774         0.000         85.804         46.235         91.617         MWD+1           18000.000         90.000         269.847         11149.997         61.774         0.000         86.763         0.000         62.474         0.000         86.792         46.235         91.617         MWD+1           18100.000         90.000         269.847         11149.997         63.176         0.000         87.754         0.000         63.176         0.000         87.784         46.310         91.592         MWD+1           18200.000         90.000         269.847         11149.997         63.879	17400.00	90.000	269.847	11149.997	58.308	0.000	80.884	0.000	58.308	0.000	0.000	80.916	46.055	91.805 MW	D+IFR1+MS
17700.000         90.000         269.847         11149.997         60.381         0.000         83.808         0.000         60.381         0.000         60.381         0.000         60.381         0.000         0.000         83.838         46.161         91.707         MWD+1           17800.000         90.000         269.847         11149.997         61.774         0.000         85.774         0.000         61.774         0.000         0.000         85.804         46.198         91.677         MWD+1           18000.000         90.000         269.847         11149.997         62.474         0.000         86.763         0.000         62.474         0.000         0.000         86.792         46.272         91.619         MWD+1           18100.000         90.000         269.847         11149.997         63.176         0.000         87.754         0.000         63.176         0.000         86.792         46.272         91.619         MWD+1           18200.000         90.000         269.847         11149.997         63.879         0.000         83.879         0.000         0.000         88.778         46.349         91.565         MWD+1           18400.000         90.000         269.847         11149.997	17500.00	90.000	269.847	11149.997	58.997	0.000	81.855	0.000	58.997	0.000	0.000	81.886	46.090	91.771 MW	D+IFR1+MS
17800.000       90.000       269.847       11149.997       61.077       0.000       84.789       0.000       61.077       0.000       0.000       84.820       46.198       91.677       MWD+1         17900.000       90.000       269.847       11149.997       61.774       0.000       85.774       0.000       61.774       0.000       0.000       85.804       46.235       91.647       MWD+1         18000.000       90.000       269.847       11149.997       62.474       0.000       86.763       0.000       62.474       0.000       0.000       86.792       46.272       91.619       MWD+1         18100.000       90.000       269.847       11149.997       63.176       0.000       87.754       0.000       63.176       0.000       87.784       46.310       91.592       MWD+1         18200.000       90.000       269.847       11149.997       63.879       0.000       88.749       0.000       63.879       0.000       88.778       46.349       91.565       MWD+1         18400.000       90.000       269.847       11149.997       65.292       0.000       89.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514	17600.00	90.000	269.847	11149.997	59.688	0.000	82.829	0.000	59.688	0.000	0.000	82.861	46.125	91.739 MW	D+IFR1+MS
17900.000       90.000       269.847       11149.997       61.774       0.000       85.774       0.000       61.774       0.000       0.000       85.804       46.235       91.647       MWD+1         18000.000       90.000       269.847       11149.997       62.474       0.000       86.763       0.000       62.474       0.000       0.000       86.792       46.272       91.619       MWD+1         18100.000       90.000       269.847       11149.997       63.176       0.000       87.754       0.000       0.000       0.000       87.784       46.310       91.592       MWD+1         18200.000       90.000       269.847       11149.997       63.879       0.000       88.749       0.000       63.879       0.000       0.000       88.778       46.349       91.565       MWD+1         18300.000       90.000       269.847       11149.997       64.585       0.000       89.747       0.000       65.292       0.000       0.000       89.776       46.388       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.292       0.000       91.751       0.000       66.001       0.000       91.779       46.468       91.490	17700.00	90.000	269.847	11149.997	60.381	0.000	83.808	0.000	60.381	0.000	0.000	83.838	46.161	91.707 MW	D+IFR1+MS
18000.000       90.000       269.847       11149.997       62.474       0.000       86.763       0.000       62.474       0.000       0.000       86.792       46.272       91.619       MWD+1         18100.000       90.000       269.847       11149.997       63.176       0.000       87.754       0.000       63.176       0.000       0.000       87.784       46.310       91.592       MWD+1         18200.000       90.000       269.847       11149.997       63.879       0.000       88.749       0.000       63.879       0.000       0.000       88.778       46.349       91.565       MWD+1         18300.000       90.000       269.847       11149.997       64.585       0.000       89.747       0.000       64.585       0.000       0.000       89.776       46.388       91.539       MWD+1         18400.000       90.000       269.847       11149.997       65.292       0.000       90.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.712       0.000       92.757       0.000       66.712       0.000       0.000       92.785	17800.00	90.000	269.847	11149.997	61.077	0.000	84.789	0.000	61.077	0.000	0.000	84.820	46.198	91.677 MW	D+IFR1+MS
18100.000       90.000       269.847       11149.997       63.176       0.000       87.754       0.000       63.176       0.000       0.000       87.784       46.310       91.592       MWD+1         18200.000       90.000       269.847       11149.997       63.879       0.000       88.749       0.000       63.879       0.000       0.000       88.778       46.349       91.565       MWD+1         18300.000       90.000       269.847       11149.997       64.585       0.000       89.747       0.000       64.585       0.000       0.000       89.776       46.388       91.539       MWD+1         18500.000       90.000       269.847       11149.997       65.292       0.000       90.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.01       0.000       92.757       0.000       66.01       0.000       90.000       92.785       46.509       91.467       MWD+1         18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       0.000       67.425	17900.00	90.000	269.847	11149.997	61.774	0.000	85.774	0.000	61.774	0.000	0.000	85.804	46.235	91.647 MW	D+IFR1+MS
18200.000       90.000       269.847       11149.997       63.879       0.000       88.749       0.000       63.879       0.000       0.000       88.778       46.349       91.565       MWD+1         18300.000       90.000       269.847       11149.997       64.585       0.000       89.747       0.000       64.585       0.000       0.000       89.776       46.388       91.539       MWD+1         18400.000       90.000       269.847       11149.997       65.292       0.000       90.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.001       0.000       91.751       0.000       66.001       0.000       0.000       91.779       46.468       91.490       MWD+1         18600.000       90.000       269.847       11149.997       66.712       0.000       93.766       0.000       67.425       0.000       0.000       92.785       46.509       91.444       MWD+1         18800.000       90.000       269.847       11149.997       68.139       0.000       94.777       0.000       68.139       0.000       94.804       46.592	18000.00	90.000	269.847	11149.997	62.474	0.000	86.763	0.000	62.474	0.000	0.000	86.792	46.272	91.619 MW	D+IFR1+MS
18300.000       90.000       269.847       11149.997       64.585       0.000       89.747       0.000       64.585       0.000       0.000       89.776       46.388       91.539       MWD+1         18400.000       90.000       269.847       11149.997       65.292       0.000       90.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.001       0.000       91.751       0.000       66.001       0.000       91.779       46.468       91.490       MWD+1         18700.000       90.000       269.847       11149.997       66.712       0.000       92.757       0.000       66.712       0.000       0.000       92.785       46.509       91.467       MWD+1         18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       0.000       68.139       0.000       94.804       46.592       91.444       MWD+1         18900.000       90.000       269.847       11149.997       68.854       0.000       95.790       0.000       68.854       0.000       0.000	18100.00	90.000	269.847	11149.997	63.176	0.000	87.754	0.000	63.176	0.000	0.000	87.784	46.310	91.592 MW	D+IFR1+MS
18400.000       90.000       269.847       11149.997       65.292       0.000       90.747       0.000       65.292       0.000       0.000       90.776       46.428       91.514       MWD+1         18500.000       90.000       269.847       11149.997       66.001       0.000       91.751       0.000       66.001       0.000       91.779       46.468       91.490       MWD+1         18600.000       90.000       269.847       11149.997       66.712       0.000       92.757       0.000       66.712       0.000       92.785       46.509       91.467       MWD+1         18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       90.000       93.793       46.550       91.444       MWD+1         18800.000       90.000       269.847       11149.997       68.139       0.000       94.777       0.000       68.139       0.000       90.000       94.804       46.592       91.422       MWD+1         18900.000       90.000       269.847       11149.997       68.854       0.000       95.790       0.000       68.854       0.000       90.000       95.817       46.635       91.400 <td>18200.00</td> <td>90.000</td> <td>269.847</td> <td>11149.997</td> <td>63.879</td> <td>0.000</td> <td>88.749</td> <td>0.000</td> <td>63.879</td> <td>0.000</td> <td>0.000</td> <td>88.778</td> <td>46.349</td> <td>91.565 MW</td> <td>D+IFR1+MS</td>	18200.00	90.000	269.847	11149.997	63.879	0.000	88.749	0.000	63.879	0.000	0.000	88.778	46.349	91.565 MW	D+IFR1+MS
18500.000       90.000       269.847       11149.997       66.001       0.000       91.751       0.000       66.001       0.000       91.779       46.468       91.490       MWD+1         18600.000       90.000       269.847       11149.997       66.712       0.000       92.757       0.000       66.712       0.000       92.785       46.509       91.467       MWD+1         18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       0.000       93.793       46.550       91.444       MWD+1         18800.000       90.000       269.847       11149.997       68.139       0.000       94.777       0.000       68.139       0.000       0.000       94.804       46.592       91.422       MWD+1         18900.000       90.000       269.847       11149.997       68.854       0.000       95.790       0.000       68.854       0.000       0.000       95.817       46.635       91.400       MWD+1         19000.000       90.000       269.847       11149.997       69.571       0.000       96.807       0.000       69.571       0.000       0.000       96.833       46.678       91.380	18300.00	90.000	269.847	11149.997	64.585	0.000	89.747	0.000	64.585	0.000	0.000	89.776	46.388	91.539 MW	D+IFR1+MS
18600.000       90.000       269.847       11149.997       66.712       0.000       92.757       0.000       66.712       0.000       0.000       92.785       46.509       91.467       MWD+1         18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       0.000       93.793       46.550       91.444       MWD+1         18800.000       90.000       269.847       11149.997       68.139       0.000       94.777       0.000       68.139       0.000       0.000       94.804       46.592       91.422       MWD+1         18900.000       90.000       269.847       11149.997       68.854       0.000       95.790       0.000       68.854       0.000       90.000       95.817       46.635       91.400       MWD+1         19000.000       90.000       269.847       11149.997       69.571       0.000       96.807       0.000       69.571       0.000       0.000       96.833       46.678       91.380       MWD+1	18400.00	90.000	269.847	11149.997	65.292	0.000	90.747	0.000	65.292	0.000	0.000	90.776	46.428	91.514 MW	D+IFR1+MS
18700.000       90.000       269.847       11149.997       67.425       0.000       93.766       0.000       67.425       0.000       0.000       93.793       46.550       91.444       MWD+1         18800.000       90.000       269.847       11149.997       68.139       0.000       94.777       0.000       68.139       0.000       0.000       94.804       46.592       91.422       MWD+1         18900.000       90.000       269.847       11149.997       68.854       0.000       95.790       0.000       68.854       0.000       0.000       95.817       46.635       91.400       MWD+1         19000.000       90.000       269.847       11149.997       69.571       0.000       96.807       0.000       69.571       0.000       0.000       96.833       46.678       91.380       MWD+1	18500.00	90.000	269.847	11149.997	66.001	0.000	91.751	0.000	66.001	0.000	0.000	91.779	46.468	91.490 MW	D+IFR1+MS
18800.000 90.000 269.847 11149.997 68.139 0.000 94.777 0.000 68.139 0.000 0.000 94.804 46.592 91.422 MWD+18900.000 90.000 269.847 11149.997 68.854 0.000 95.790 0.000 68.854 0.000 0.000 95.817 46.635 91.400 MWD+19000.000 90.000 269.847 11149.997 69.571 0.000 96.807 0.000 69.571 0.000 0.000 96.833 46.678 91.380 MWD+19000.000 90.000 269.847 11149.997 69.571 0.000 96.807 0.000 69.571 0.000 0.000 96.833	18600.00	90.000	269.847	11149.997	66.712	0.000	92.757	0.000	66.712	0.000	0.000	92.785	46.509	91.467 MW	D+IFR1+MS
18900.000 90.000 269.847 11149.997 68.854 0.000 95.790 0.000 68.854 0.000 0.000 95.817 46.635 91.400 MWD+19000.000 90.000 269.847 11149.997 69.571 0.000 96.807 0.000 69.571 0.000 0.000 96.833 46.678 91.380 MWD+19000.000 90.0000 90.0000 90.000 90.0	18700.00	90.000	269.847	11149.997	67.425	0.000	93.766	0.000	67.425	0.000	0.000	93.793	46.550	91.444 MW	D+IFR1+MS
19000.000 90.000 269.847 11149.997 69.571 0.000 96.807 0.000 69.571 0.000 0.000 96.833 46.678 91.380 MWD+	18800.00	90.000	269.847	11149.997	68.139	0.000	94.777	0.000	68.139	0.000	0.000	94.804	46.592	91.422 MW	D+IFR1+MS
	18900.00	90.000	269.847	11149.997	68.854	0.000	95.790	0.000	68.854	0.000	0.000	95.817	46.635	91.400 MW	D+IFR1+MS
19100.000 90.000 269.847 11149.997 70.290 0.000 97.825 0.000 70.290 0.000 0.000 97.851 46.721 91.359 MWD+	19000.00	90.000	269.847	11149.997	69.571	0.000	96.807	0.000	69.571	0.000	0.000	96.833	46.678	91.380 MW	D+IFR1+MS
	19100.00	90.000	269.847	11149.997	70.290	0.000	97.825	0.000	70.290	0.000	0.000	97.851	46.721	91.359 MW	D+IFR1+MS

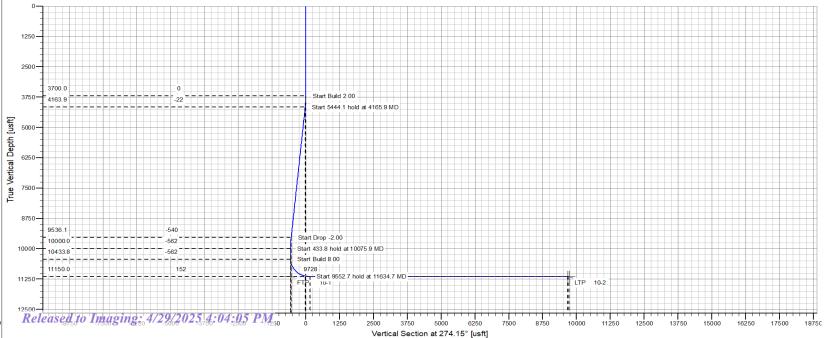
,														
19200.000	90.000	269.847	11149.997	71.010	0.000	98.845	0.000	71.010	0.000	0.000	98.872	46.765	91.340	MWD+IFR1+MS
19300.000	90.000	269.847	11149.997	71.731	0.000	99.868	0.000	71.731	0.000	0.000	99.894	46.810	91.320	MWD+IFR1+MS
19400.000	90.000	269.847	11149.997	72.454	0.000	100.893	0.000	72.454	0.000	0.000	100.919	46.855	91.302	MWD+IFR1+MS
19500.000	90.000	269.847	11149.997	73.178	0.000	101.920	0.000	73.178	0.000	0.000	101.945	46.900	91.284	MWD+IFR1+MS
19600.000	90.000	269.847	11149.997	73.903	0.000	102.949	0.000	73.903	0.000	0.000	102.974	46.946	91.266	MWD+IFR1+MS
19700.000	90.000	269.847	11149.997	74.629	0.000	103.980	0.000	74.629	0.000	0.000	104.004	46.993	91.249	MWD+IFR1+MS
19800.000	90.000	269.847	11149.997	75.356	0.000	105.012	0.000	75.356	0.000	0.000	105.037	47.040	91.232	MWD+IFR1+MS
19900.000	90.000	269.847	11149.997	76.085	0.000	106.047	0.000	76.085	0.000	0.000	106.071	47.088	91.215	MWD+IFR1+MS
20000.000	90.000	269.847	11149.997	76.815	0.000	107.083	0.000	76.815	0.000	0.000	107.107	47.136	91.199	MWD+IFR1+MS
20100.000	90.000	269.847	11149.997	77.546	0.000	108.121	0.000	77.546	0.000	0.000	108.144	47.184	91.184	MWD+IFR1+MS
20200.000	90.000	269.847	11149.997	78.278	0.000	109.160	0.000	78.278	0.000	0.000	109.184	47.234	91.168	MWD+IFR1+MS
20300.000	90.000	269.847	11149.997	79.010	0.000	110.201	0.000	79.010	0.000	0.000	110.225	47.283	91.153	MWD+IFR1+MS
20400.000	90.000	269.847	11149.997	79.744	0.000	111.244	0.000	79.744	0.000	0.000	111.267	47.333	91.139	MWD+IFR1+MS
20500.000	90.000	269.847	11149.997	80.479	0.000	112.288	0.000	80.479	0.000	0.000	112.311	47.384	91.125	MWD+IFR1+MS
20600.000	90.000	269.847	11149.997	81.215	0.000	113.334	0.000	81.215	0.000	0.000	113.357	47.435	91.111	MWD+IFR1+MS
20700.000	90.000	269.847	11149.997	81.952	0.000	114.381	0.000	81.952	0.000	0.000	114.403	47.487	91.097	MWD+IFR1+MS
20800.000	90.000	269.847	11149.997	82.689	0.000	115.429	0.000	82.689	0.000	0.000	115.452	47.539	91.084	MWD+IFR1+MS
20900.000	90.000	269.847	11149.997	83.427	0.000	116.479	0.000	83.427	0.000	0.000	116.501	47.592	91.071	MWD+IFR1+MS
21000.000	90.000	269.847	11149.997	84.167	0.000	117.530	0.000	84.167	0.000	0.000	117.552	47.645	91.058	MWD+IFR1+MS
21100.000	90.000	269.847	11149.997	84.907	0.000	118.583	0.000	84.907	0.000	0.000	118.605	47.699	91.046	MWD+IFR1+MS
21186.898	90.000	269.847	11149.997	85.550	0.000	119.498	0.000	85.550	0.000	0.000	119.520	47.746	91.035	MWD+IFR1+MS
21200.000	90.000	269.847	11149.997	85.647	0.000	119.636	0.000	85.647	0.000	0.000	119.657	47.753	91.033	MWD+IFR1+MS
21237.479	90.000	269.847	11149.997	85.924	0.000	120.030	0.000	85.924	0.000	0.000	120.052	47.773	91.029	MWD+IFR1+MS

Plan Targets	James Ranch Unit Apache 114F

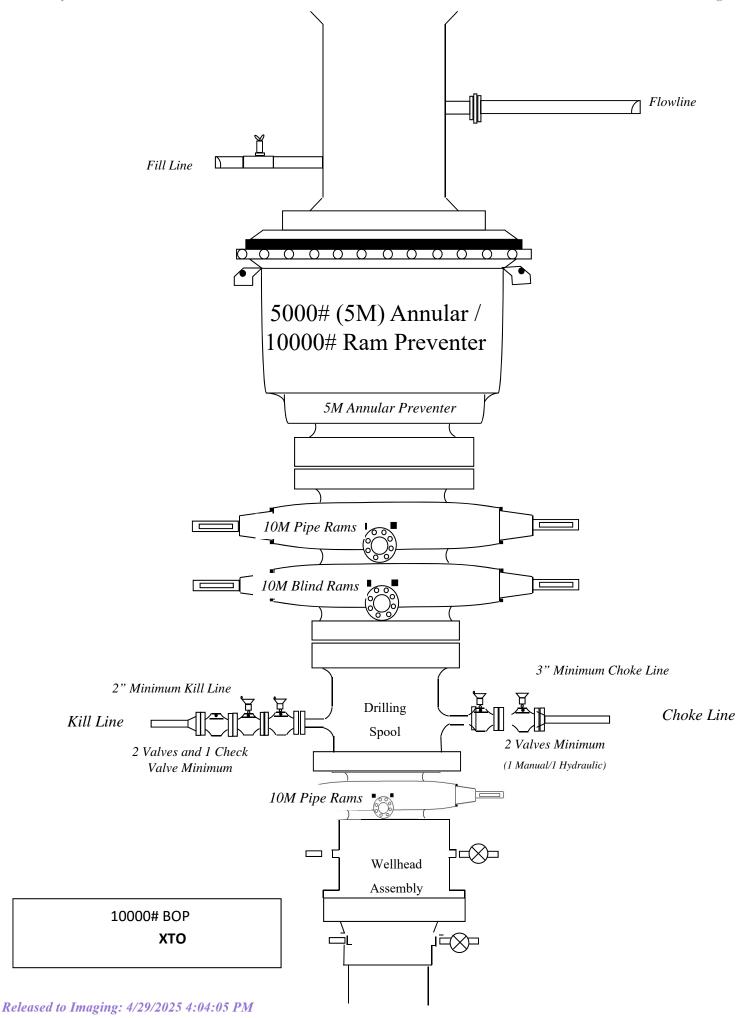
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 10	11398.49	504428.70	656560.10	7743.00 CIRCLE
LTP 10	21187.49	504401.20	646291.20	7743.00 CIRCLE
BHL 10	21237.52	504401.10	646241.20	7743.00 CIRCLE

# JAMES RANCH UNIT APACHE 114H





<u>Formation</u>	TVDSS (feet)	MD TVD (feet)
Alluvium	surface	surface
Rustler	2,924'	483'
Salado/Top of Salt	2,634'	773'
MB 126	1,940'	1,467'
Castile Anhydrite 1 Top	880'	2,527'
Castile Anhydrite 1 Base	455'	2,952'
Castile Anhydrite 2 Top	219'	3,188'
Castile Anhydrite 2 Base	124'	3,283'
Base Salt	-221'	3,628'
Delaware/Lamar	-479'	3,886'
Bell Canyon	-530'	3,937'
Cherry Canyon	-1,722'	5,129'
Brushy Canyon Ss.	-3,222'	6,629'
Bone Spring Lm.	-4,358'	7,765'
Avalon Ss.	-4,434'	7,841'
Upper Avalon Carb.	-4,654'	8,061'
Upper Avalon Sh.	-4,737'	8,144'
Middle Avalon Carb.	-4,783'	8,190'
Lw. Avalon Sh.	-4,849'	8,256'
First Bone Spring Carb.	-5,278'	8,685'
First Bone Spring Ss.	-5,415'	8,822'
Second Bone Spring Carb.	-5,864'	9,271'
Second Bone Spring A Ss.	-6,158'	9,565'
Second Bone Spring A/B Carb.	-6,321'	9,728'
Second Bone Spring B Ss.	-6,372'	9,779'
Third Bone Spring Carb.	-6,506'	9,913'
Harkey Ss.	-6,707'	10,114'
Third Bone Spring Shale	-6,789'	10,196'
Third Bone Spring Ss.	-7,177'	10,584'
Third Bone Spring Ss Red Hills	-7,496'	10,903'
Wolfcamp Shale	-7,621'	11,028'
Wolfcamp X Ss.	-7,637'	11,044'
Wolfcamp Y Ss.	-7,698'	11,105'
Landing Point	-7,743'	11,150'
Horizontal TD	-7,693'	11,100'
Wolfcamp A	-7,763'	11,170'
Wolfcamp B	-8,045'	11,452'



# U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

# 11/8/2023 1:08:50 PM

# P110 RY USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Minimum Yield Strength	110,000		psi	
Maximum Yield Strength	125,000		psi	
Minimum Tensile Strength	125,000		psi	
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		
Outside Diameter	5.500	6.300	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	
PERFORMANCE	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	lb	
Compression Rating		641,000	lb	
Reference Length [4]		21,370	ft	
Maximum Uniaxial Bend Rating [2]		91.7	deg/100 ft	
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Make-Up Loss		4.13	in.	
Minimum Make-Up Torque [3]		15,000	ft-lb	
Maximum Make-Up Torque [3]		21,000	ft-lb	
Maximum Operating Torque[3]		29,500	ft-lb	

# **Notes**

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com

11/29/2021 4·16·04 PM

## U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

## P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		
Minimum Yield Strength	110,000		psi	
Maximum Yield Strength	125,000		psi	
Minimum Tensile Strength	125,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	lb	
Compression Rating		641,000	lb	
Reference Length		21,370	ft	
Maximum Uniaxial Bend Rating		91.7	deg/100 ft	
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	
Maximum Make-Up Torque		20,000	ft-lb	
Maximum Operating Torque		39,500	ft-lb	

## **Notes**

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

ALL DIMENSIONS APPROXIMA

# CACTUS WELLHEAD LLC

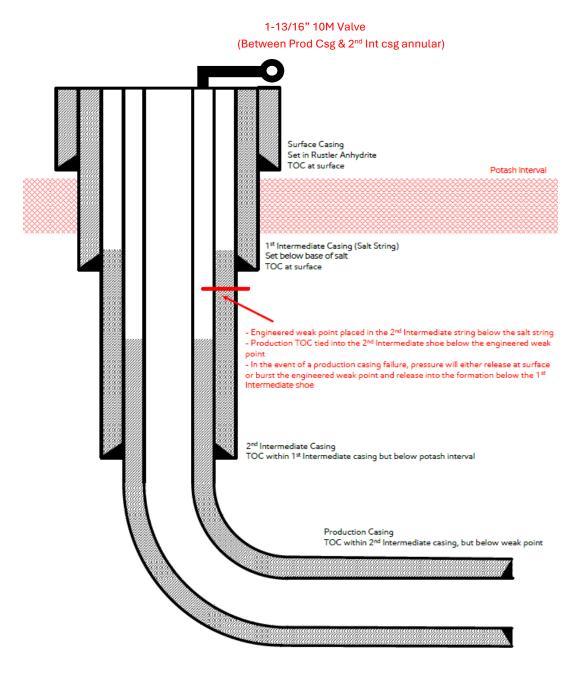
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations

	XTO ENERGY IN	С					
	DELAWARE BASIN						
RAWN	V.JK	31M					

ead DRAWING NO.

SDT-3301

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[Figure F] 4 String – 2<sup>nd</sup> Intermediate casing engineered weak point

### Update May 2024:

XTO is aware of R-111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic below, with engineering weak point casing design and utilizing new casing that meets API standards.
- 2) Contingency plans in place to divert fluids away from salt interval in event of production casing failure.
- 3) Intermediate 2 casing will consist of a primary cement job with TOC at the top of the Brushy Canyon formation within the Delaware Mountain Group.
  - a. Bradenhead squeeze to be completed after primary cement job to tie back TOC to intermediate 1 "Salt string" & below Marker Bed 126 "Potash Interval".
- 4) Production cement to be tied back no less than 500' inside previous casing shoe (intermediate 2 casing) and below the engineered weak point.

## State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

## Section 1 – Plan Description <u>Effective May 25, 2021</u>

I. Operator: XTO PERMIAN OPERATING, LLC	<b>OGRID:</b> 373075	Date: 08/19/2024	
II. Type: ⊠ Original □ Amendment due to □ 19.15.2	7.9.D(6)(a) NMAC □ 19.15	5.27.9.D(6)(b) NMAC □ Other.	
If Other, please describe:			

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated	3 yr	Anticipated	3 yr	Anticipated	3 yr
				Oil BBL/D	Anticipated	Gas	anticipated	Produced	anticipated
					decline	MCF/D	decline Gas	Water	decline
					Oil BBL/D		MCF/D	BBL/D	Water
									BBL/D
James Ranch					100		1500		200
Unit Apache			507 FSL,						
149H	TBD	13 22S 30E	864 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			477 FSL,						
150H	TBD	13 22S 30E	863 FEL	600		2500		5000	
James Ranch			1524		100		1500		200
Unit Apache			FNL, 829						
142H	TBD	24 22S 30E	FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2228 FSL,						
135H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2227 FSL,						
136H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2257 FSL,						
137H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2167 FSL,						
138H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2258 FSL,						
139H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2288 FSL,						
140H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2197 FSL,						
141H	TBD	24 22S 30E	971 FEL	600		2500		5000	

James Ranch					100		1500		200
Unit Apache			419 FSL,		100		1500		200
131H	TBD	24 22S 30E	890 FEL	600		2500		5000	
James Ranch			200 EGI		100		1500		200
Unit Apache 132H	TBD	24 22S 30E	389 FSL, 889 FEL	600		2500		5000	
James Ranch	IBD	24 223 30E	009 FEL	000	100	2300	1500	3000	200
Unit Apache			359 FSL,				1300		200
133H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch			222 537		100		1500		200
Unit Apache 134H	TBD	24 22S 30E	329 FSL, 889 FEL	600		2500		5000	
James Ranch	IDD	24 223 30E		000	200	2300	1400	3000	400
Unit Apache		13 22S 30E	2576 FSL, 867 FEL				1		
111H	TBD		80/ FEL	2000		5000		7000	
James Ranch		12 220 205	2516 FSL,		200		1400		400
Unit Apache 112H	TBD	13 22S 30E	868 FEL	2000		5000		7000	
James Ranch	IDD			2000	200	3000	1400	7000	400
Unit Apache		13 22S 30E	416 FSL,		200		1.00		100
113H	TBD		962 FEL	2000		5000		7000	
James Ranch			350 FNL,		200		1400		400
Unit Apache 114H	TBD	24 22S 30E	949 FEL	2000		5000		7000	
James Ranch	עמו			2000	200	3000	1400	7000	400
Unit Apache		24 22S 30E	408 FNL,		200		1400		400
115H	TBD		848 FEL	2000		5000		7000	
James Ranch			2577 FSL,		100		1300		400
Unit Apache 701H	TDD	13 22S 30E	967 FEL	1000		2000		4500	
James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		13 22S 30E	2517 FSL,		100		1300		400
702H	TBD		968 FEL	1000		2000		4500	
James Ranch			2486 FSL,		100		1300		400
Unit Apache 703H	TDD	13 22S 30E	868 FEL	1000		2000		4500	
James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		13 22S 30E	2547 FSL,		100		1300		400
704H	TBD		967 FEL	1000		2000		4500	
James Ranch			2487 FSL,		100		1300		400
Unit Apache 705H	TBD	13 22S 30E	968 FEL	1000		2000		4500	
James Ranch	עמו			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2456 FSL,		100		1500		400
706H	TBD		869 FEL	1000		2000		4500	
James Ranch			320 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	950 FEL	1000		2000		4500	
707H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	380 FNL,						100
708H	TBD		949 FEL	1000		2000		4500	
James Ranch			348 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	849 FEL	1000		2000		4500	
709H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	410 FNL,		100		1300		700
710H	TBD		948 FEL	1000		2000		4500	
James Ranch			318 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	850 FEL	1000		2000	1	4500	
711H James Ranch	TBD			1000	100	2000	1000	4500	300
Unit Apache		13 22S 30E	2546 FSL,		100		1000		300
801H	TBD		867 FEL	2000		6000		7000	
James Ranch			446 FSL,		100		1000		300
Unit Apache	TDD	13 22S 30E	963 FEL	2000		6000		7000	
802H	TBD	<u> </u>		2000	_1	6000	1	7000	

James Ranch			476 FSL,		100		1000		300
Unit Apache 803H	TBD	13 22S 30E	963 FEL	2000		6000		7000	
James Ranch	IBD			2000	100	0000	1000	7000	300
Unit Apache		24 22S 30E	378 FNL,		100		1000		300
804H	TBD	24 225 30L	849 FEL	2000		6000		7000	
James Ranch	TDD			2000	200	0000	1100	7000	500
Unit Apache		13 22S 30E	2457 FSL,		200		1100		300
901H	TBD	15 225 502	969 FEL	2000		5000		8000	
James Ranch			50 ( FGI		200		1100		500
Unit Apache		13 22S 30E	506 FSL, 964 FEL						
902H	TBD		964 FEL	2000		5000		8000	
James Ranch			294 EGI		200		1100		500
Unit Apache		13 22S 30E	386 FSL, 962 FEL						
903H	TBD		902 FEL	2000		5000		8000	
James Ranch	1		440 FNL,		200		1100		500
Unit Apache		24 22S 30E	948 FEL						
904H	TBD		7401EE	2000		5000		8000	
James Ranch			2287 FSL,		200		1100		500
Unit Apache		24 22S 30E	971 FEL						
906H	TBD		J,TTEE	2000		5000		8000	
James Ranch	TBD		000 555		100		1000		300
Unit Apache			909 FEL,	•					
805H	TDD	24 22S 30E	1526 FNL	2000		6000	4.00	7000	100
James Ranch	TBD		909 FEL,		200		1400		400
Unit Apache 116H		24 22S 30E	909 FEL, 1556 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E 24 22S 30E	1330 FNL	2000	200	3000	1100	7000	500
Unit Apache	IBD	24 223 30E	908 FEL,		200		1100		300
905H			1616 FNL	2000		5000		8000	
James Ranch	TBD	24 22S 30E	TOTOTIVE	2000	100	3000	1000	0000	300
Unit Apache	100	24 225 30L	906 FEL,		100		1000		300
806Н			1646 FNL	2000		6000		7000	
James Ranch	TBD	24 22S 30E			200		1400		400
Unit Apache			907 FEL,				- 100		
117H			1676 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E			200		1100		500
Unit Apache			930 FEL,						
907H	<u> </u>		389 FSL	2000		5000		8000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,						
807H	1		359 FSL	2000		6000		7000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,						
808H			329 FSL	2000		6000		7000	

IV. Central Delivery Point Name: Longhorn Compressor Station [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name API Spud Date TD Reached Completion **Initial Flow** First Production Date Commencement Date Back Date Date Ranch Unit TBD TBD TBD TBD TBD James Apache 149H **TBD** James Ranch Unit TBD TBD TBD TBD TBD TBD Apache 150H James Ranch Unit TBD TBD TBD TBD TBD TBD Apache 142H TBD TBD TBD TBD TBD Ranch Unit James TBD Apache 135H TBD TBD TBD TBD TBD Ranch Unit James Apache 136H TBD TBD Ranch Unit TBD TBD TBD TBD James TBD Apache 137H

James Ranch Apache 138H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 139H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 140H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 141H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 131H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 132H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 133H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 134H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 111H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 112H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 113H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 114H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 115H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 701H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 702H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 703H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 704H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 705H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 706H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 707H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 708H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 709H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 710H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 711H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 801H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 802H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 803H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 804H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 901H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 902H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 903H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 904H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 906H	Unit	TBD	TBD	TBD	TBD	TBD	TBD

James Ranch Apache 805H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 116H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 905H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 806H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 117H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 907H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 807H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 808H	Unit	TBD	TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: 

Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 

Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

## IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

## X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. $\square$ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system $\square$ will $\square$ will not have capacity to gather 100% of the anticipate	d natural gas
production volume from the well prior to the date of first production.	

XIII. Line Pressure. Operator $\square$ does $\square$ does not anticipate that its existing well(s) connected to the same segment.	, or portion,	, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by	the new w	ell(s).

$\overline{}$	A 1 .	O .	9 1 4	1 4.	•	4 41	 line pressure

XIV.	nfidentiality:   Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in
Section	as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information
for wh	n confidentiality is asserted and the basis for such assertion.

# Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. 

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) power generation for grid; **(b)** compression on lease; (c) liquids removal on lease; (d) reinjection for underground storage; (e)

- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

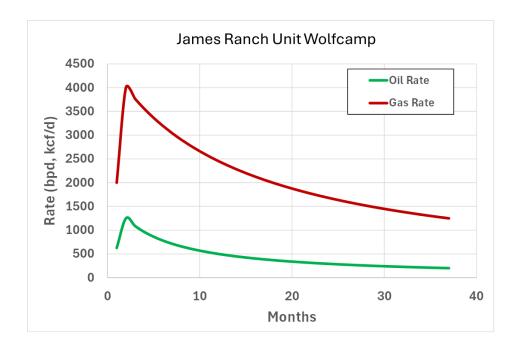
## **Section 4 - Notices**

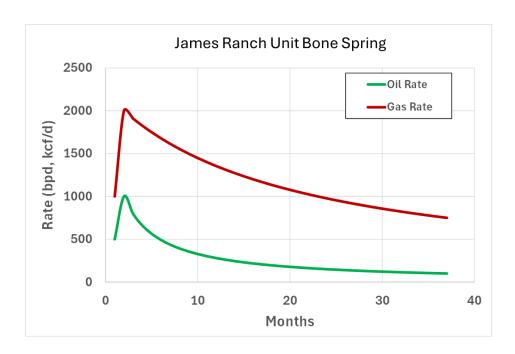
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	LPAL .
Printed Name:	Adrian Baker
Title:	Environmental and Regulatory Advisor
E-mail Address	adrian.baker@exxonmobil.com
Date:	9/26/24
Phone:	4322363808
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A	pproval:

## JRU Decline Curves – Wolfcamp and Bone Spring





## VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

## VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

• Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

## VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.



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NEW CHOKE HOSE

INSTAUED 02-10-2024

## CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CILC	TON	AED.	
CUS	TON	IER.	

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

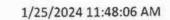
74621 H3-012524-1

SIGNATURE: 7. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

## H3-15/16





## **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

**TEST OBJECT** 

Serial number:

H3-012524-1

Production description: 74621/66-1531

Sales order #:

529480

FG1213

Lot number: Description:

Part number:

74621/66-1531

Customer reference:

Hose ID:

3" 16C CK

TEST INFORMATION

Test procedure:

GTS-04-053 15000.00

psi sec Fitting 1:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold:

3600.00

Description:

Part number:

Work pressure: Work pressure hold: 10000.00

Fitting 2:

3.0 x 4-1/16 10K

Length difference:

Length difference:

900.00 0.00 0.00

sec % inch

psi

Part number: Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

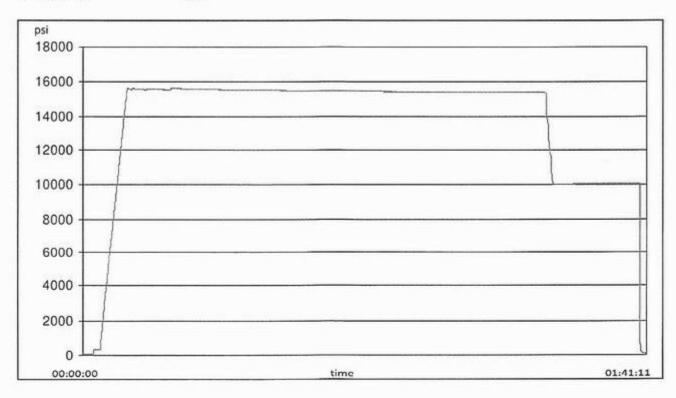
45

feet

n . . . . /n

Test operator:

Travis





H3-15/16

1/25/2024 11:48:06 AM

## **TEST REPORT**

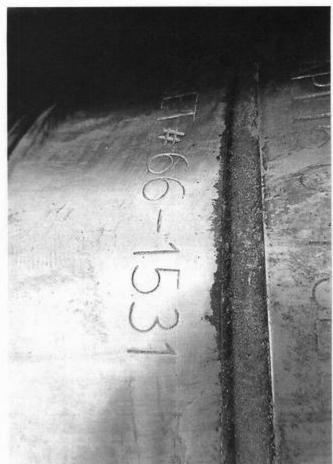
## **GAUGE TRACEABILITY**

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16
Comment			

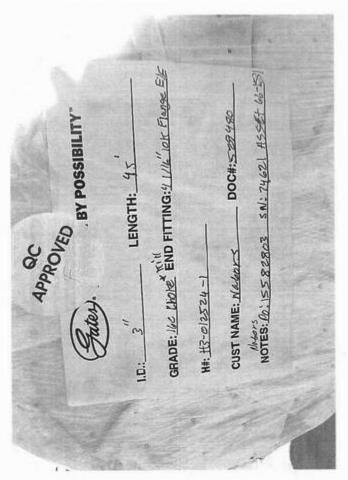


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XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

## Description of Operations:

- 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 90 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.

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

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

## **Background**

Onshore Oil and Gas Order CFR Title 43 Part 3170, 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. CFR Title 43 Part 3170 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 CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

## **Supporting Documentation**

CFR Title 43 Part 3170 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 CFR Title 43 Part 3170 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. CFR Title 43 Part 3170recognizes 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.

141	I	esting, Surface BOP Stacks			
Commonweaths he Deceasing	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Pressure Test—High Pressureac			
Component to be Pressure Tested		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket		
Annular preventer <sup>b</sup>	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.		
Fixed pipe, variable bore, blind, and BSR preventers <sup>bd</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP		
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP		
Choke manifold—upstream of chokes <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP		
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower			
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program			
<ul> <li>Annular(s) and VBR(s) shall be pre</li> <li>For pad drilling operations, moving pressure-controlling connections</li> <li>For surface offshore operations, the</li> </ul>	during the evaluation period. The persure tested on the largest and sm from one wellhead to another with when the integrity of a pressure se- ne ram BOPs shall be pressure tes-	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program. uired for pressure-containing ar the closing and locking pressur		

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 CFR Title 43 Part 317 Oand 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 CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

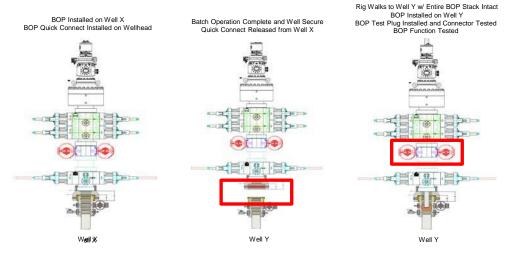
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

## **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



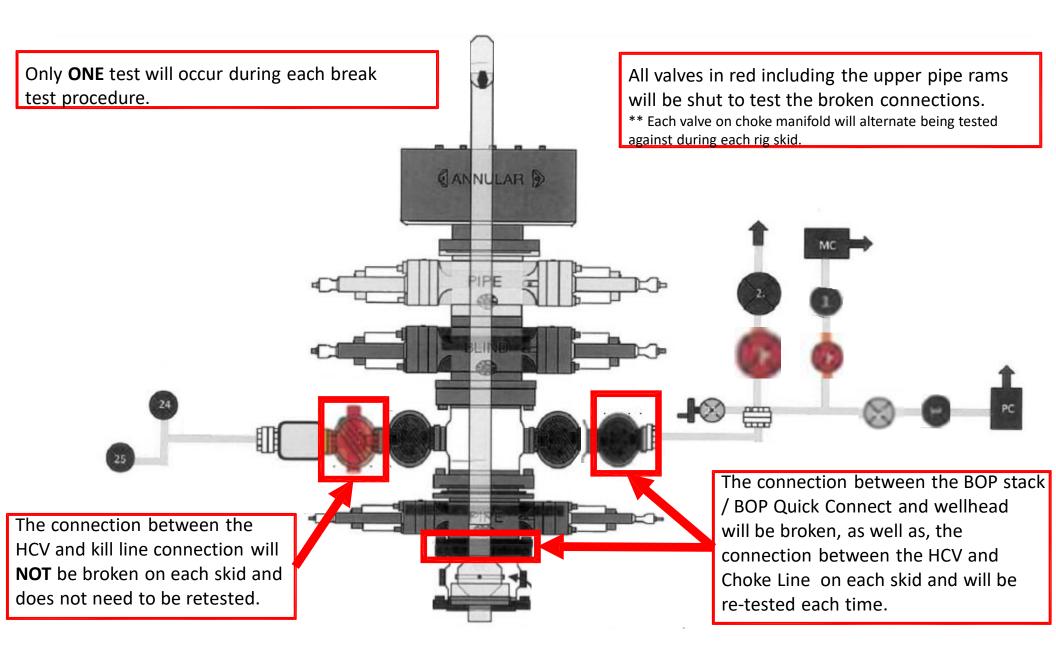
### **Summary**

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.

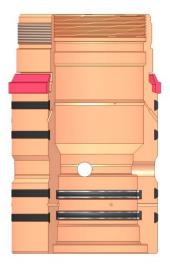
## 1. Cement Program

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

## 2. Offline Cementing Procedure

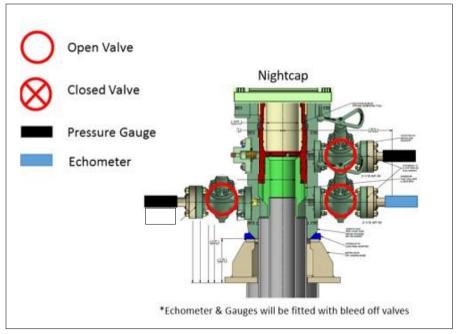
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

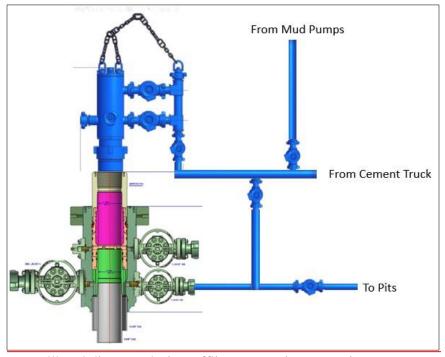
### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 448699

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	448699
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Operator must comply with all of the R-111-Q requirements.	4/29/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/29/2025