

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

Well Name: JAMES RANCH UNIT DI 8 EAGLE	Well Location: T22S / R30E / SEC 36 / NWNW / 32.34768 / -103.837181	County or Parish/State: EDDY / NM
Well Number: 151H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM002953C	Unit or CA Name: JAMES RANCH	Unit or CA Number: NMNM070965Z
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2667195

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 04/15/2022

Time Sundry Submitted: 11:02

Date proposed operation will begin: 05/01/2022

Procedure Description: **Pool Change, SHL Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: Change Pool from: Los Medanos; Wolfcamp (South) to Los Medanos; Bone Spring No Additional Surface Disturbance Change SHL fr/2311'FSL & 1776'FWL to 2436'FSL & 1747'FWL Well Stays in the Same Quarter-Quarter as Permitted Total SHL Move: 125' North & 29' East SHL change requested to optimize well pad layout, drilling efficiencies, and for safety purposes. Change BHL fr/990'FNL & 50'FEL to 1830'FNL & 50'FEL Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

JRU_DI_8_Eagle_151H_Attachments_20220415110233.pdf

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County or Parish/State: EDDY 7 NM

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Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM002953C

Unit or CA Name: JAMES RANCH

Unit or CA Number: NMNM070965Z

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_36_22S_30E_NMP_Sundry_2667195_James_Ranch_Unit_DI_8_Eagle_151H_Eddy_NMNM0029353C_XTO_13_22_44691_Allison_Morency_20220510123311.pdf

Sec_36_22S_30E_NMP_Sundry_2667195_James_Ranch_Unit_DI_8_Eagle_151H_Eddy_NMNM0029353C_XTO_CO_As.docx_20220510123305.pdf

Operator

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

Operator Electronic Signature: STEPHANIE RABADUE

Signed on: APR 15, 2022 11:02 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Coordinator

Street Address: 500 W. Illinois St, Ste 100

City: Midland State: TX

Phone: (432) 620-6714

Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/11/2022

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

Change BHL fr/990FNL & 50FEL to 1830FNL & 50FEL
Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

Directional Plan

Multibowl Diagram

Location of Well

0. SHL: NWNW / 1190 FNL / 2300 FWL / TWSP: 22S / RANGE: 30E / SECTION: 36 / LAT: 32.34768 / LONG: -103.837181 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 990 FNL / 100 FEL / TWSP: 22S / RANGE: 30E / SECTION: 36 / LAT: 32.352568 / LONG: -103.835471 (TVD: 11045 feet, MD: 11600 feet)

BHL: NENE / 990 FNL / 50 FEL / TWSP: 22S / RANGE: 30E / SECTION: 31 / LAT: 32.352548 / LONG: -103.808625 (TVD: 11194 feet, MD: 19829 feet)

Sec 36-22S-30E-NMP Sundry 2667195 James Ranch Unit DI 8 Eagle 151H Eddy MNM0029353C XTO 13-22
44691 Allison Morency

James Ranch Unit DI 8 Eagle 151H

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	29.82	4.6	1.36	525	12	2.27	8.70	28,613
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	525			28,613
Comparison of Proposed to Minimum Required Cement Volumes Tail Cmt does not circ to sfc.											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
17 1/2	0.6946	500	779	365	114	9.00	1200	2M			1.56
Site plot (pipe racks S or E) as per O.D. Lill D 4.1 not found											

9 5/8	casing inside the	13 3/8		Design Factors					Int 1		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	J 55	BTC	4.27	1.28	0.87	3,688	2	1.63	2.14	147,520
"B"							0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	3,688			147,520
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 525 overlap.											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
12 1/4	0.3132	1650	2288	1181	94	10.50	2426	3M			0.81
Class 'H' tail cmt yld > 1.20 Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.07, b, c, d All > 0.70, OK.											

7 5/8	casing inside the	9 5/8		Design Factors					Int 2		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	RY P 110	Flush Joint	1.96	2.99	1.66	3,788	2	2.78	5.59	112,504
"B"	29.70	HCL 80	Flush Joint	2.35	1.27	1.21	5,812	2	2.02	2.38	172,616
w/8.4#/g mud, 30min Sfc Csg Test psig: 627							Totals:	9,600			285,120
The cement volume(s) are intended to achieve a top of 3100 ft from surface or a 588 overlap.											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
8 3/4	0.1005	450	835	658	27	9.10	3401	5M			0.56
Class 'H' tail cmt yld > 1.20											

5 1/2	casing inside the	7 5/8		Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	RY P 110	Semi-Premiur	3.07	2.14	2.22	9,500	2	3.72	3.59	190,000
"B"	20.00	RY P 110	Semi-Flush	33.70	1.95	2.22	9,503	2	3.72	3.26	190,060
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,090							Totals:	19,003			380,060
The cement volume(s) are intended to achieve a top of 9900 ft from surface or a -300 overlap.											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
6 3/4	0.0835	680	1062	732	45	10.50					0.43
Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX.											

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating
WELL NAME & NO.:	James Ranch Unit DI 8 Eagle 151H
LOCATION:	Sec 36-22S-30E-NMP
COUNTY:	Eddy County, NM

Updated COAs per Sundry 2667195 approved through engineering on 05/10/2022.

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Salado** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **525** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. *Adjustment due to BLM geologist and protecting usable water zone.*
 - 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 **24 hours in the Potash Area** 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 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.**
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

 - a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement should tie back at least **500 feet** into the previous casing string. Operator should provide method of verification. 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.**
4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **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 OOGO2.III.A.2.i 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.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

 Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as

possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except

the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-49448		² Pool Code 4 0 2 9 5		³ Pool Name Los Medanos; Bone Spring	
⁴ Property Code		⁵ Property Name JAMES RANCH UNIT DI 8 EAGLE			⁶ Well Number 151H
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.			⁹ Elevation 3,309'

¹⁰ Surface Location

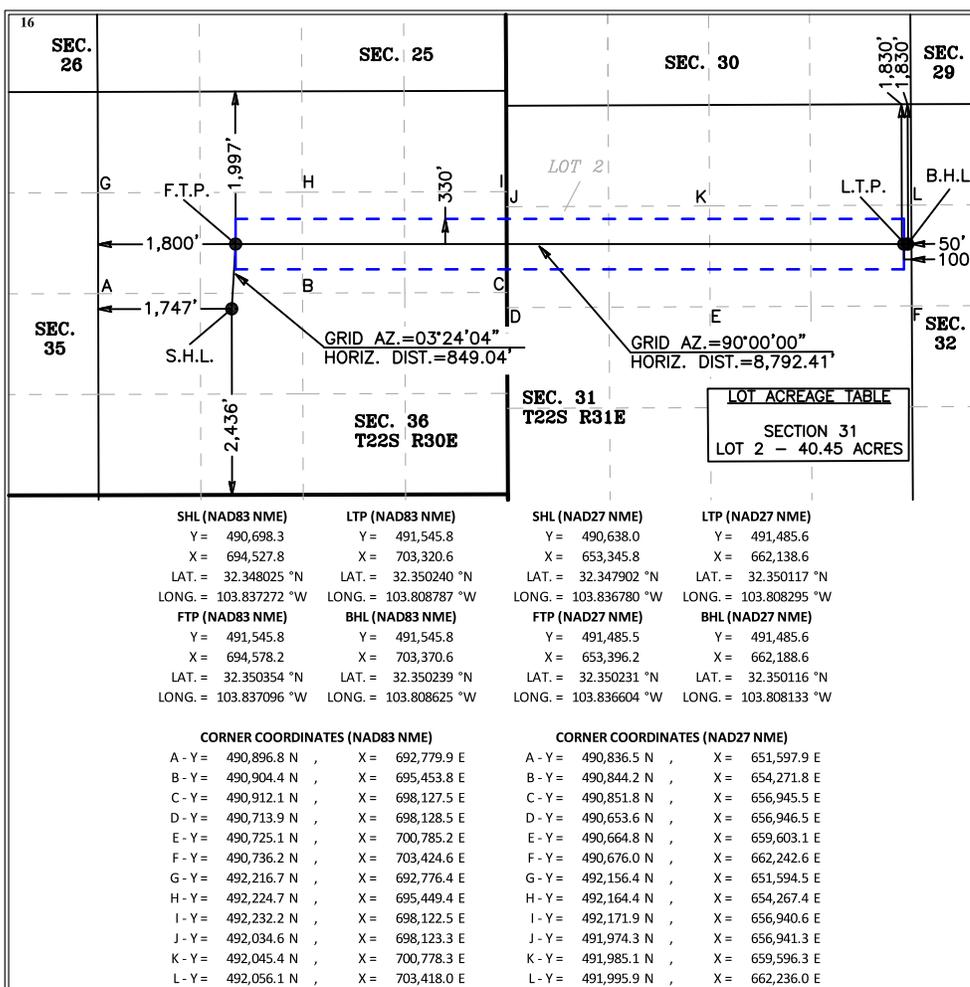
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	36	22S	30E		2,436	SOUTH	1,747	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	31	22S	31E		1,830	NORTH	50	EAST	EDDY

¹² Dedicated Acres 2 8 0 . 4 5	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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

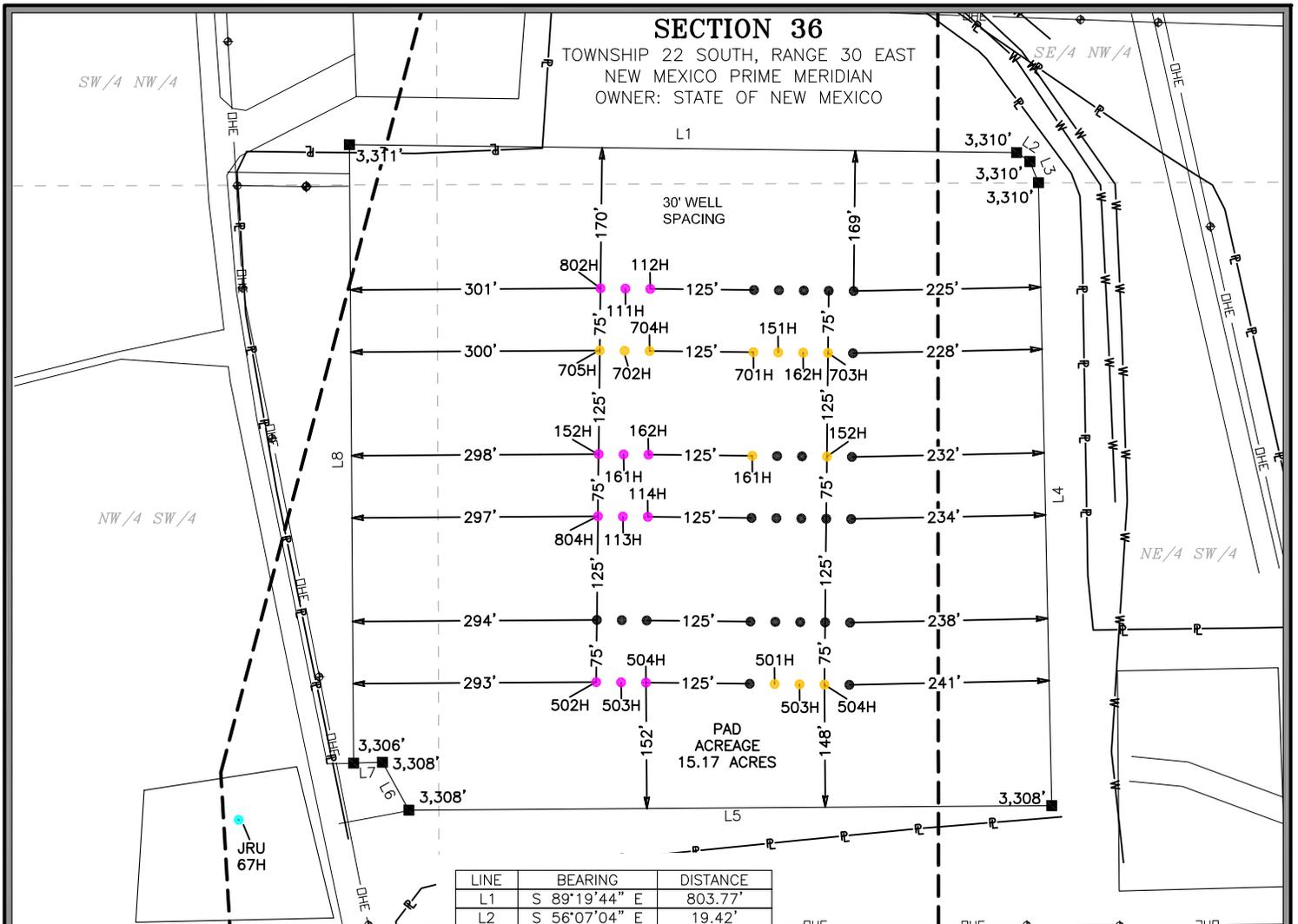


17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stephanie Rabadue 04/14/2022
Signature Date
Stephanie Rabadue
Printed Name
stephanie.rabadue@exxonmobil.com
E-mail Address

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

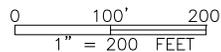
03-25-2022
Date of Survey
Signature and Seal of Professional Surveyor:
Mark Dillon Harp
MARK DILLON HARP 23786
Certificate Number 23786
AW 2019072357



NOTE:
1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF JAL HIGHWAY (STATE HIGHWAY 128) AND WHIPP RD. GO NORTH ON WHIPP RD. APPROX. 0.8 MILES. TURN LEFT (NORTHWEST) ON LEASE ROAD AND GO APPROX. 0.4 MILES. TURN LEFT (SOUTH) ON LEASE ROAD AND GO APPROX 0.1 MILES. TURN RIGHT (WEST) AND GO APPROX. 0.2 MILES. TURN RIGHT (NORTH), DRIVE APPROX 0.8 MILES TO EXISTING PAD, THE PROPOSED LOCATION IS TO THE NORTHEAST.



I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

- DHE ——— EXISTING OVERHEAD ELECTRIC
 - ——— EXISTING ROAD
 - P ——— EXISTING PIPELINE
 - W ——— EXISTING WATER LINE
 - ⊕ POWER POLE
- LEGEND**
- — — — — PROPOSED DRILLING ISLAND
 - — — — — EXISTING PAD
 - DHE ——— EXISTING OVERHEAD ELECTRIC
 - ——— EXISTING ROAD
 - P ——— EXISTING PIPELINE
 - W ——— EXISTING WATER LINE
 - ⊕ POWER POLE
- WELL NAMES**
- EAGLE
 - WARBONNET
 - TBD

XTO PERMIAN OPERATING, LLC.

PAD LAYOUT

JAMES RANCH UNIT DI 8 MIDDLE PAD
LOCATED 1,651 FEET FROM THE WEST LINE
AND 2,285 FEET FROM THE SOUTH LINE OF
SECTION 36, TOWNSHIP 22 SOUTH, RANGE 30
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	4-13-2022	PROJECT NO:	2018040969
DRAWN BY:	LM	SCALE:	1" = 200'
CHECKED BY:	AI	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0



550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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

XTO Energy Inc.
James Ranch Unit D1 8 Eagle 151H
Projected TD: 19003' MD / 10451' TVD
SHL: ' FL & ' FL , Section , T, R
BHL: ' FL & ' FL , Section , T, R
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	289'	Water
Top of Salt	596'	Water
Base of Salt	3588'	Water
Delaware	3831'	Water
Brushy Canyon	6446'	Water/Oil/Gas
Bone Spring	7658'	Water
1st Bone Spring Ss	8699'	Water/Oil/Gas
2nd Bone Spring Ss	9532'	Water/Oil/Gas
3rd Bone Spring Sh	10107'	Water/Oil/Gas
Target/Land Curve	10379'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 571' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3688' 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 9600' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 19003 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9100 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 571'	13.375	54.5	J-55	BTC	New	2.48	4.48	27.41
12.25	0' – 3688'	9.625	40	J-55	BTC	New	1.81	2.29	4.27
8.75	0' – 3788'	7.625	29.7	RY P-110	Flush Joint	New	3.02	3.16	1.96
8.75	3788' – 9600'	7.625	29.7	HC L-80	Flush Joint	New	2.19	3.78	2.35
6.75	0' – 9500'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.25	2.34
6.75	9500' - 19003'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.04	5.98

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on 2M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 571'

Lead: 200 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

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

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 +/- 3688'

Lead: 1520 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 +/- 9600'

1st Stage

Optional Lead: 160 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: 3488

Tail: 290 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6446

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

2nd Stage

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

Tail: 390 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6446') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 19003'

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9100 feet

Tail: 650 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9910 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 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3135 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole

on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 571'	17.5	FW/Native	8.5-9	35-40	NC
571' - 3688'	12.25	Brine	10-10.5	30-32	NC
3688' to 9600'	8.75	BDE/OBM or FW/Brine	8.6-9.1	30-32	NC
9600' to 19003'	6.75	OBM	10-10.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 5435 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - JRU DI 8 EAGLE 151H

Measured Depth: 19003.40 ft

TVD RKB: 10451.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 490638.33 ft

Easting: 653345.06 ft

RKB: 3339.00 ft

Ground Level: 3309.00 ft

North Reference: Grid

Convergence Angle: 0.27 Deg

Site: JRU DI-8

Slot: SLOT 2

Plan Sections									
JRU DI 8									
EAGLE 151H									
Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0	0	4.05	0	-0.01	0	0	0	0	0
3600	0	4.05	3600	-0.01	0	0	0	0	0
4359.01	15.18	5.22	4350.16	99.54	9.1	2	0	2	

Released to Indefinite: 12/29/2024 8:04:00 AM

Released to Imaging: 12/30/2024 8:04:46 AM

Received by OCD: 9/27/2024 6:41:47 AM

6845.45	15.18	5.22	6749.84	747.92	68.34	0	0	0
7604.46	0	0	7500	847.47	77.44	-2	0	2
9910.46	0	0	9806	847.47	77.44	0	0	0
0810.45	90	90	10378.96	847.47	650.4	10	0	10 FTP 4
19003.4	88.99	90	10451	847.25	8842.93	-0.01	0	0.01 BHL 4

Position JRU DI 8
 Uncertainty EAGLE 151H

Measured				TVD	Highside	Lateral			Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor Tool
Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth Used (°)
0	0	4.053	0	0	0	0	0	2.297	0	0	0	0	XOM_R2OW SG MWD+IFR1+ MS
100	0	0	100	0.358	0	0.358	0	2.299	0	0	0.358	0.358	XOM_R2OW SG MWD+IFR1+ MS
200	0	0	200	0.717	0	0.717	0	2.307	0	0	0.717	0.717	XOM_R2OW SG MWD+IFR1+ MS
300	0	0	300	1.075	0	1.075	0	2.321	0	0	1.075	1.075	XOM_R2OW SG MWD+IFR1+ MS
400	0	0	400	1.434	0	1.434	0	2.34	0	0	1.434	1.434	XOM_R2OW SG MWD+IFR1+ MS
500	0	0	500	1.792	0	1.792	0	2.364	0	0	1.792	1.792	XOM_R2OW SG MWD+IFR1+ MS
600	0	0	600	2.151	0	2.151	0	2.394	0	0	2.151	2.151	XOM_R2OW SG MWD+IFR1+ MS
700	0	0	700	2.509	0	2.509	0	2.428	0	0	2.509	2.509	XOM_R2OW SG MWD+IFR1+ MS

Page 24 of 41

800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	XOM_R2OW SG MWD+IFR1+ MS
900	0	0	900	3.226	0	3.226	0	2.511	0	0	3.226	3.226	XOM_R2OW SG MWD+IFR1+ MS
1000	0	0	1000	3.585	0	3.585	0	2.56	0	0	3.585	3.585	XOM_R2OW SG MWD+IFR1+ MS
1100	0	0	1100	3.943	0	3.943	0	2.613	0	0	3.943	3.943	XOM_R2OW SG MWD+IFR1+ MS
1200	0	0	1200	4.302	0	4.302	0	2.67	0	0	4.302	4.302	XOM_R2OW SG MWD+IFR1+ MS
1300	0	0	1300	4.66	0	4.66	0	2.731	0	0	4.66	4.66	XOM_R2OW SG MWD+IFR1+ MS
1400	0	0	1400	5.019	0	5.019	0	2.797	0	0	5.019	5.019	XOM_R2OW SG MWD+IFR1+ MS
1500	0	0	1500	5.377	0	5.377	0	2.866	0	0	5.377	5.377	XOM_R2OW SG MWD+IFR1+ MS
1600	0	0	1600	5.736	0	5.736	0	2.939	0	0	5.736	5.736	XOM_R2OW SG MWD+IFR1+ MS
1700	0	0	1700	6.094	0	6.094	0	3.016	0	0	6.094	6.094	XOM_R2OW SG MWD+IFR1+ MS
1800	0	0	1800	6.452	0	6.452	0	3.096	0	0	6.452	6.452	XOM_R2OW SG MWD+IFR1+ MS
1900	0	0	1900	6.811	0	6.811	0	3.179	0	0	6.811	6.811	XOM_R2OW SG MWD+IFR1+ MS
2000	0	0	2000	7.169	0	7.169	0	3.266	0	0	7.169	7.169	XOM_R2OW SG MWD+IFR1+ MS

2100	0	0	2100	7.528	0	7.528	0	3.355	0	0	7.528	7.528	XOM_R2OW SG MWD+IFR1+ MS
2200	0	0	2200	7.886	0	7.886	0	3.448	0	0	7.886	7.886	XOM_R2OW SG MWD+IFR1+ MS
2300	0	0	2300	8.245	0	8.245	0	3.544	0	0	8.245	8.245	XOM_R2OW SG MWD+IFR1+ MS
2400	0	0	2400	8.603	0	8.603	0	3.643	0	0	8.603	8.603	XOM_R2OW SG MWD+IFR1+ MS
2500	0	0	2500	8.962	0	8.962	0	3.745	0	0	8.962	8.962	XOM_R2OW SG MWD+IFR1+ MS
2600	0	0	2600	9.32	0	9.32	0	3.849	0	0	9.32	9.32	XOM_R2OW SG MWD+IFR1+ MS
2700	0	0	2700	9.679	0	9.679	0	3.956	0	0	9.679	9.679	XOM_R2OW SG MWD+IFR1+ MS
2800	0	0	2800	10.037	0	10.037	0	4.066	0	0	10.037	10.037	XOM_R2OW SG MWD+IFR1+ MS
2900	0	0	2900	10.396	0	10.396	0	4.179	0	0	10.396	10.396	XOM_R2OW SG MWD+IFR1+ MS
3000	0	0	3000	10.754	0	10.754	0	4.295	0	0	10.754	10.754	XOM_R2OW SG MWD+IFR1+ MS
3100	0	0	3100	11.113	0	11.113	0	4.413	0	0	11.113	11.113	XOM_R2OW SG MWD+IFR1+ MS
3200	0	0	3200	11.471	0	11.471	0	4.534	0	0	11.471	11.471	XOM_R2OW SG MWD+IFR1+ MS
3300	0	0	3300	11.83	0	11.83	0	4.657	0	0	11.83	11.83	XOM_R2OW SG MWD+IFR1+ MS

3400	0	0	3400	12.188	0	12.188	0	4.783	0	0	12.188	12.188	0	XOM_R2OW SG MWD+IFR1+ MS
3500	0	0	3500	12.546	0	12.546	0	4.912	0	0	12.546	12.546	0	XOM_R2OW SG MWD+IFR1+ MS
3600	0	4.053	3600	12.905	0	12.905	0	5.043	0	0	12.905	12.905	0	XOM_R2OW SG MWD+IFR1+ MS
3700	2	5.221	3699.98	13.256	0	13.263	0	5.177	0	0	13.263	13.263	-0.275	XOM_R2OW SG MWD+IFR1+ MS
3800	4	5.221	3799.838	13.593	0	13.622	0	5.312	0	0	13.622	13.621	-1.414	XOM_R2OW SG MWD+IFR1+ MS
3900	6	5.221	3899.452	13.915	0	13.98	0	5.448	0	0	13.98	13.979	0.134	XOM_R2OW SG MWD+IFR1+ MS
4000	8	5.221	3998.702	14.222	0	14.338	0	5.585	0	0	14.338	14.334	1.259	XOM_R2OW SG MWD+IFR1+ MS
4100	10	5.221	4097.465	14.512	0	14.696	0	5.724	0	0	14.696	14.688	1.988	XOM_R2OW SG MWD+IFR1+ MS
4200	12	5.221	4195.623	14.787	0	15.053	0	5.865	0	0	15.053	15.04	2.484	XOM_R2OW SG MWD+IFR1+ MS
4300	14	5.221	4293.055	15.046	0	15.41	0	6.008	0	0	15.41	15.389	2.84	XOM_R2OW SG MWD+IFR1+ MS
4359.01	15.18	5.221	4350.162	15.192	0	15.62	0	6.092	0	0	15.62	15.595	2.946	XOM_R2OW SG MWD+IFR1+ MS
4400	15.18	5.221	4389.722	15.337	0	15.767	0	6.152	0	0	15.767	15.737	3.064	XOM_R2OW SG MWD+IFR1+ MS
4500	15.18	5.221	4486.232	15.694	0	16.125	0	6.308	0	0	16.125	16.082	3.342	XOM_R2OW SG MWD+IFR1+ MS

4600	15.18	5.221	4582.743	16.054	0	16.484	0	6.468	0	0	16.484	16.43	3.479	XOM_R2OW SG MWD+IFR1+ MS
4700	15.18	5.221	4679.254	16.415	0	16.845	0	6.631	0	0	16.845	16.78	3.557	XOM_R2OW SG MWD+IFR1+ MS
4800	15.18	5.221	4775.765	16.778	0	17.207	0	6.798	0	0	17.207	17.131	3.603	XOM_R2OW SG MWD+IFR1+ MS
4900	15.18	5.221	4872.275	17.143	0	17.571	0	6.968	0	0	17.571	17.485	3.631	XOM_R2OW SG MWD+IFR1+ MS
5000	15.18	5.221	4968.786	17.51	0	17.935	0	7.142	0	0	17.936	17.84	3.647	XOM_R2OW SG MWD+IFR1+ MS
5100	15.18	5.221	5065.297	17.878	0	18.301	0	7.319	0	0	18.301	18.197	3.655	XOM_R2OW SG MWD+IFR1+ MS
5200	15.18	5.221	5161.807	18.248	0	18.668	0	7.499	0	0	18.668	18.555	3.657	XOM_R2OW SG MWD+IFR1+ MS
5300	15.18	5.221	5258.318	18.62	0	19.036	0	7.682	0	0	19.036	18.914	3.655	XOM_R2OW SG MWD+IFR1+ MS
5400	15.18	5.221	5354.829	18.992	0	19.404	0	7.869	0	0	19.404	19.275	3.649	XOM_R2OW SG MWD+IFR1+ MS
5500	15.18	5.221	5451.339	19.366	0	19.774	0	8.058	0	0	19.774	19.637	3.64	XOM_R2OW SG MWD+IFR1+ MS
5600	15.18	5.221	5547.85	19.741	0	20.144	0	8.251	0	0	20.144	20	3.629	XOM_R2OW SG MWD+IFR1+ MS
5700	15.18	5.221	5644.361	20.117	0	20.515	0	8.446	0	0	20.515	20.365	3.617	XOM_R2OW SG MWD+IFR1+ MS
5800	15.18	5.221	5740.872	20.495	0	20.887	0	8.645	0	0	20.887	20.73	3.602	XOM_R2OW SG MWD+IFR1+ MS

5900	15.18	5.221	5837.382	20.873	0	21.259	0	8.846	0	0	21.26	21.097	3.586	XOM_R2OW SG MWD+IFR1+ MS
6000	15.18	5.221	5933.893	21.252	0	21.633	0	9.05	0	0	21.633	21.464	3.569	XOM_R2OW SG MWD+IFR1+ MS
6100	15.18	5.221	6030.404	21.632	0	22.006	0	9.257	0	0	22.006	21.833	3.551	XOM_R2OW SG MWD+IFR1+ MS
6200	15.18	5.221	6126.914	22.013	0	22.381	0	9.467	0	0	22.381	22.202	3.531	XOM_R2OW SG MWD+IFR1+ MS
6300	15.18	5.221	6223.425	22.395	0	22.756	0	9.679	0	0	22.756	22.572	3.511	XOM_R2OW SG MWD+IFR1+ MS
6400	15.18	5.221	6319.936	22.777	0	23.131	0	9.894	0	0	23.131	22.943	3.489	XOM_R2OW SG MWD+IFR1+ MS
6500	15.18	5.221	6416.447	23.16	0	23.507	0	10.112	0	0	23.507	23.315	3.466	XOM_R2OW SG MWD+IFR1+ MS
6600	15.18	5.221	6512.957	23.544	0	23.883	0	10.333	0	0	23.884	23.687	3.443	XOM_R2OW SG MWD+IFR1+ MS
6700	15.18	5.221	6609.468	23.929	0	24.26	0	10.556	0	0	24.26	24.061	3.418	XOM_R2OW SG MWD+IFR1+ MS
6800	15.18	5.221	6705.979	24.314	0	24.638	0	10.782	0	0	24.638	24.435	3.393	XOM_R2OW SG MWD+IFR1+ MS
6845.446	15.18	5.221	6749.838	24.489	0	24.809	0	10.886	0	0	24.809	24.605	3.38	XOM_R2OW SG MWD+IFR1+ MS
6900	14.089	5.221	6802.621	24.754	0	25.015	0	11.011	0	0	25.015	24.809	3.368	XOM_R2OW SG MWD+IFR1+ MS
7000	12.089	5.221	6900.018	25.219	0	25.391	0	11.243	0	0	25.391	25.182	3.347	XOM_R2OW SG MWD+IFR1+ MS

7100	10.089	5.221	6998.146	25.654	0	25.764	0	11.476	0	0	25.764	25.554	3.324	XOM_R2OW SG MWD+IFR1+ MS
7200	8.089	5.221	7096.886	26.059	0	26.134	0	11.708	0	0	26.134	25.923	3.303	XOM_R2OW SG MWD+IFR1+ MS
7300	6.089	5.221	7196.116	26.434	0	26.501	0	11.939	0	0	26.501	26.29	3.287	XOM_R2OW SG MWD+IFR1+ MS
7400	4.089	5.221	7295.717	26.776	0	26.863	0	12.17	0	0	26.863	26.652	3.282	XOM_R2OW SG MWD+IFR1+ MS
7500	2.089	5.221	7395.566	27.086	0	27.221	0	12.401	0	0	27.221	27.008	3.292	XOM_R2OW SG MWD+IFR1+ MS
7604.456	0	0	7500	27.375	0	27.589	0	12.641	0	0	27.59	27.375	3.311	XOM_R2OW SG MWD+IFR1+ MS
7700	0	0	7595.544	27.707	0	27.924	0	12.862	0	0	27.925	27.706	3.329	XOM_R2OW SG MWD+IFR1+ MS
7800	0	0	7695.544	28.055	0	28.275	0	13.096	0	0	28.276	28.054	3.347	XOM_R2OW SG MWD+IFR1+ MS
7900	0	0	7795.544	28.403	0	28.626	0	13.333	0	0	28.627	28.402	3.364	XOM_R2OW SG MWD+IFR1+ MS
8000	0	0	7895.544	28.751	0	28.977	0	13.573	0	0	28.978	28.75	3.38	XOM_R2OW SG MWD+IFR1+ MS
8100	0	0	7995.544	29.1	0	29.329	0	13.816	0	0	29.33	29.099	3.395	XOM_R2OW SG MWD+IFR1+ MS
8200	0	0	8095.544	29.448	0	29.68	0	14.062	0	0	29.681	29.447	3.41	XOM_R2OW SG MWD+IFR1+ MS
8300	0	0	8195.544	29.797	0	30.032	0	14.311	0	0	30.033	29.796	3.424	XOM_R2OW SG MWD+IFR1+ MS

8400	0	0	8295.544	30.146	0	30.384	0	14.564	0	0	30.385	30.146	3.437	XOM_R2OW SG MWD+IFR1+ MS
8500	0	0	8395.544	30.496	0	30.736	0	14.819	0	0	30.737	30.495	3.45	XOM_R2OW SG MWD+IFR1+ MS
8600	0	0	8495.544	30.845	0	31.088	0	15.078	0	0	31.089	30.844	3.462	XOM_R2OW SG MWD+IFR1+ MS
8700	0	0	8595.544	31.195	0	31.44	0	15.339	0	0	31.441	31.194	3.474	XOM_R2OW SG MWD+IFR1+ MS
8800	0	0	8695.544	31.545	0	31.793	0	15.604	0	0	31.794	31.544	3.485	XOM_R2OW SG MWD+IFR1+ MS
8900	0	0	8795.544	31.895	0	32.145	0	15.872	0	0	32.146	31.894	3.496	XOM_R2OW SG MWD+IFR1+ MS
9000	0	0	8895.544	32.246	0	32.498	0	16.143	0	0	32.499	32.245	3.506	XOM_R2OW SG MWD+IFR1+ MS
9100	0	0	8995.544	32.596	0	32.851	0	16.416	0	0	32.852	32.595	3.516	XOM_R2OW SG MWD+IFR1+ MS
9200	0	0	9095.544	32.947	0	33.204	0	16.693	0	0	33.205	32.946	3.525	XOM_R2OW SG MWD+IFR1+ MS
9300	0	0	9195.544	33.298	0	33.557	0	16.973	0	0	33.558	33.297	3.534	XOM_R2OW SG MWD+IFR1+ MS
9400	0	0	9295.544	33.649	0	33.91	0	17.256	0	0	33.911	33.648	3.543	XOM_R2OW SG MWD+IFR1+ MS
9500	0	0	9395.544	34	0	34.263	0	17.542	0	0	34.264	33.999	3.552	XOM_R2OW SG MWD+IFR1+ MS
9600	0	0	9495.544	34.351	0	34.617	0	17.832	0	0	34.618	34.35	3.56	XOM_R2OW SG MWD+IFR1+ MS

9700	0	0	9595.544	34.703	0	34.97	0	18.124	0	0	34.971	34.702	3.568	XOM_R2OW SG MWD+IFR1+ MS
9800	0	0	9695.544	35.054	0	35.324	0	18.419	0	0	35.325	35.053	3.575	XOM_R2OW SG MWD+IFR1+ MS
9900	0	0	9795.544	35.406	0	35.678	0	18.717	0	0	35.679	35.405	3.583	XOM_R2OW SG MWD+IFR1+ MS
910.456	0	0	9806	35.443	0	35.715	0	18.749	0	0	35.716	35.442	3.583	XOM_R2OW SG MWD+IFR1+ MS
10000	8.954	90	9895.18	35.737	0	35.748	0	19.016	0	0	36.022	35.747	3.221	XOM_R2OW SG MWD+IFR1+ MS
10100	18.954	90	9992.106	35.016	0	36.072	0	19.306	0	0	36.346	36.072	2.051	XOM_R2OW SG MWD+IFR1+ MS
10200	28.954	90	10083.377	33.569	0	36.379	0	19.579	0	0	36.643	36.379	0.421	XOM_R2OW SG MWD+IFR1+ MS
10300	38.954	90	10166.22	31.501	0	36.664	0	19.829	0	0	36.9	36.664	-1.27	XOM_R2OW SG MWD+IFR1+ MS
10400	48.954	90	10238.117	28.983	0	36.921	0	20.059	0	0	37.109	36.921	-2.578	XOM_R2OW SG MWD+IFR1+ MS
10500	58.954	90	10296.886	26.265	0	37.149	0	20.27	0	0	37.264	37.149	-2.266	XOM_R2OW SG MWD+IFR1+ MS
10600	68.954	90	10340.739	23.7	0	37.344	0	20.47	0	0	37.371	37.341	18.268	XOM_R2OW SG MWD+IFR1+ MS
10700	78.954	90	10368.344	21.748	0	37.505	0	20.664	0	0	37.518	37.414	69.891	XOM_R2OW SG MWD+IFR1+ MS
10800	88.954	90	10378.862	20.889	0	37.631	0	20.857	0	0	37.655	37.428	71.135	XOM_R2OW SG MWD+IFR1+ MS

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0810.45	90	90	10378.958	20.877	0	37.642	0	20.877	0	0	37.667	37.428	70.923	XOM_R2OW SG MWD+IFR1+ MS
10900	89.989	90	10378.967	21.062	0	37.741	0	21.061	0	0	37.78	37.422	70.613	XOM_R2OW SG MWD+IFR1+ MS
11000	89.977	90	10378.997	21.293	0	37.868	0	21.293	0	0	37.921	37.418	71.026	XOM_R2OW SG MWD+IFR1+ MS
11100	89.964	90	10379.048	21.551	0	38.012	0	21.55	0	0	38.077	37.417	71.695	XOM_R2OW SG MWD+IFR1+ MS
11200	89.952	90	10379.121	21.834	0	38.174	0	21.833	0	0	38.248	37.418	72.442	XOM_R2OW SG MWD+IFR1+ MS
11300	89.94	90	10379.215	22.141	0	38.352	0	22.14	0	0	38.435	37.421	73.196	XOM_R2OW SG MWD+IFR1+ MS
11400	89.927	90	10379.331	22.471	0	38.546	0	22.47	0	0	38.638	37.427	73.928	XOM_R2OW SG MWD+IFR1+ MS
11500	89.915	90	10379.468	22.824	0	38.757	0	22.823	0	0	38.855	37.434	74.625	XOM_R2OW SG MWD+IFR1+ MS
11600	89.903	90	10379.627	23.198	0	38.984	0	23.197	0	0	39.088	37.443	75.283	XOM_R2OW SG MWD+IFR1+ MS
11700	89.891	90	10379.807	23.592	0	39.227	0	23.591	0	0	39.336	37.454	75.899	XOM_R2OW SG MWD+IFR1+ MS
11800	89.878	90	10380.009	24.005	0	39.485	0	24.004	0	0	39.598	37.467	76.476	XOM_R2OW SG MWD+IFR1+ MS
11900	89.866	90	10380.232	24.436	0	39.758	0	24.435	0	0	39.875	37.481	77.014	XOM_R2OW SG MWD+IFR1+ MS
12000	89.854	90	10380.477	24.885	0	40.046	0	24.884	0	0	40.166	37.497	77.517	XOM_R2OW SG MWD+IFR1+ MS

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12100	89.841	90	10380.743	25.35	0	40.348	0	25.349	0	0	40.472	37.513	77.987	XOM_R2OW SG MWD+IFR1+ MS
12200	89.829	90.001	10381.03	25.831	0	40.665	0	25.83	0	0	40.791	37.532	78.427	XOM_R2OW SG MWD+IFR1+ MS
12300	89.817	90.001	10381.339	26.326	0	40.995	0	26.326	0	0	41.124	37.551	78.838	XOM_R2OW SG MWD+IFR1+ MS
12400	89.805	90.001	10381.67	26.835	0	41.339	0	26.835	0	0	41.469	37.572	79.224	XOM_R2OW SG MWD+IFR1+ MS
12500	89.792	90.001	10382.022	27.357	0	41.697	0	27.357	0	0	41.828	37.594	79.586	XOM_R2OW SG MWD+IFR1+ MS
12600	89.78	90.001	10382.395	27.892	0	42.067	0	27.892	0	0	42.2	37.618	79.926	XOM_R2OW SG MWD+IFR1+ MS
12700	89.768	90.001	10382.79	28.438	0	42.449	0	28.438	0	0	42.583	37.642	80.246	XOM_R2OW SG MWD+IFR1+ MS
12800	89.755	90.001	10383.206	28.995	0	42.844	0	28.995	0	0	42.979	37.668	80.548	XOM_R2OW SG MWD+IFR1+ MS
12900	89.743	90.001	10383.644	29.562	0	43.251	0	29.563	0	0	43.386	37.695	80.832	XOM_R2OW SG MWD+IFR1+ MS
13000	89.731	90.001	10384.103	30.139	0	43.669	0	30.14	0	0	43.805	37.723	81.101	XOM_R2OW SG MWD+IFR1+ MS
13100	89.718	90.001	10384.584	30.726	0	44.098	0	30.727	0	0	44.234	37.753	81.355	XOM_R2OW SG MWD+IFR1+ MS
13200	89.706	90.001	10385.086	31.321	0	44.539	0	31.322	0	0	44.675	37.783	81.596	XOM_R2OW SG MWD+IFR1+ MS
13300	89.694	90.001	10385.61	31.924	0	44.989	0	31.926	0	0	45.126	37.814	81.824	XOM_R2OW SG MWD+IFR1+ MS

13400	89.682	90.001	10386.155	32.535	0	45.45	0	32.537	0	0	45.586	37.847	82.041	XOM_R2OW SG MWD+IFR1+ MS
13500	89.669	90.001	10386.722	33.153	0	45.921	0	33.156	0	0	46.057	37.881	82.246	XOM_R2OW SG MWD+IFR1+ MS
13600	89.657	90.001	10387.31	33.779	0	46.402	0	33.781	0	0	46.537	37.915	82.442	XOM_R2OW SG MWD+IFR1+ MS
13700	89.645	90.001	10387.919	34.41	0	46.892	0	34.413	0	0	47.027	37.951	82.629	XOM_R2OW SG MWD+IFR1+ MS
13800	89.632	90.001	10388.55	35.048	0	47.391	0	35.052	0	0	47.525	37.988	82.807	XOM_R2OW SG MWD+IFR1+ MS
13900	89.62	90.001	10389.203	35.692	0	47.898	0	35.696	0	0	48.033	38.026	82.977	XOM_R2OW SG MWD+IFR1+ MS
14000	89.608	90.001	10389.877	36.342	0	48.415	0	36.346	0	0	48.548	38.065	83.139	XOM_R2OW SG MWD+IFR1+ MS
14100	89.595	90.001	10390.572	36.996	0	48.939	0	37.001	0	0	49.072	38.105	83.294	XOM_R2OW SG MWD+IFR1+ MS
14200	89.583	90.001	10391.289	37.656	0	49.471	0	37.661	0	0	49.604	38.146	83.443	XOM_R2OW SG MWD+IFR1+ MS
14300	89.571	90.001	10392.027	38.32	0	50.011	0	38.325	0	0	50.143	38.188	83.585	XOM_R2OW SG MWD+IFR1+ MS
14400	89.559	90.001	10392.787	38.989	0	50.559	0	38.994	0	0	50.69	38.231	83.721	XOM_R2OW SG MWD+IFR1+ MS
14500	89.546	90.001	10393.568	39.662	0	51.113	0	39.668	0	0	51.243	38.275	83.852	XOM_R2OW SG MWD+IFR1+ MS
14600	89.534	90.001	10394.371	40.339	0	51.675	0	40.345	0	0	51.804	38.32	83.977	XOM_R2OW SG MWD+IFR1+ MS

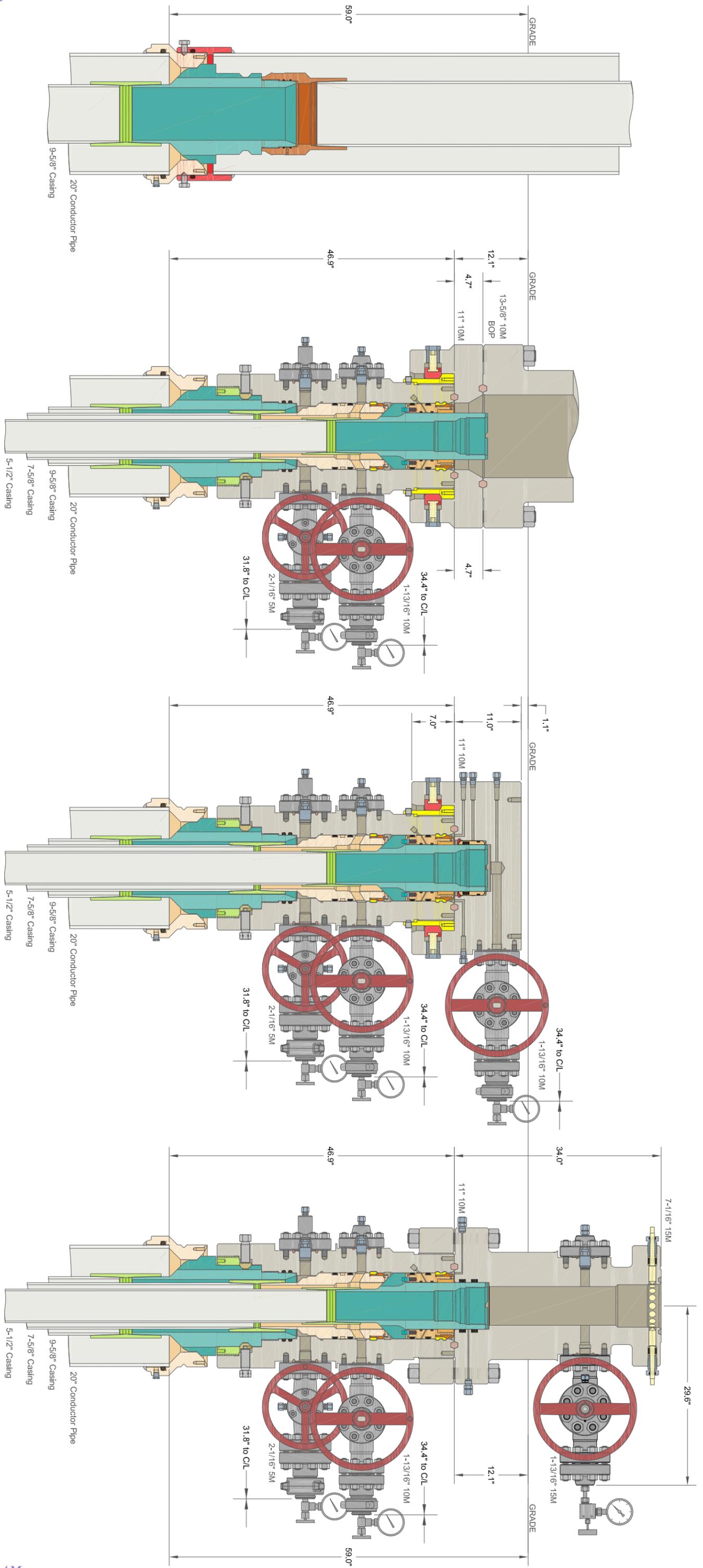
14700	89.522	90.001	10395.195	41.02	0	52.243	0	41.027	0	0	52.372	38.366	84.098	XOM_R2OW SG MWD+IFR1+ MS
14800	89.509	90.001	10396.041	41.705	0	52.818	0	41.712	0	0	52.946	38.413	84.214	XOM_R2OW SG MWD+IFR1+ MS
14900	89.497	90.002	10396.908	42.393	0	53.4	0	42.4	0	0	53.526	38.462	84.326	XOM_R2OW SG MWD+IFR1+ MS
15000	89.485	90.002	10397.797	43.084	0	53.987	0	43.092	0	0	54.113	38.511	84.434	XOM_R2OW SG MWD+IFR1+ MS
15100	89.472	90.002	10398.707	43.779	0	54.58	0	43.787	0	0	54.705	38.561	84.537	XOM_R2OW SG MWD+IFR1+ MS
15200	89.46	90.002	10399.638	44.477	0	55.179	0	44.485	0	0	55.303	38.612	84.637	XOM_R2OW SG MWD+IFR1+ MS
15300	89.448	90.002	10400.591	45.177	0	55.784	0	45.186	0	0	55.907	38.664	84.734	XOM_R2OW SG MWD+IFR1+ MS
15400	89.436	90.002	10401.565	45.88	0	56.394	0	45.889	0	0	56.516	38.717	84.827	XOM_R2OW SG MWD+IFR1+ MS
15500	89.423	90.002	10402.561	46.586	0	57.009	0	46.595	0	0	57.13	38.771	84.917	XOM_R2OW SG MWD+IFR1+ MS
15600	89.411	90.002	10403.579	47.294	0	57.629	0	47.304	0	0	57.749	38.826	85.004	XOM_R2OW SG MWD+IFR1+ MS
15700	89.399	90.002	10404.618	48.005	0	58.254	0	48.015	0	0	58.373	38.882	85.088	XOM_R2OW SG MWD+IFR1+ MS
15800	89.386	90.002	10405.678	48.718	0	58.884	0	48.728	0	0	59.002	38.939	85.169	XOM_R2OW SG MWD+IFR1+ MS
15900	89.374	90.002	10406.76	49.433	0	59.518	0	49.444	0	0	59.636	38.997	85.248	XOM_R2OW SG MWD+IFR1+ MS

16000	89.362	90.002	10407.863	50.15	0	60.157	0	50.161	0	0	60.273	39.056	85.324	XOM_R2OW SG MWD+IFR1+ MS
16100	89.349	90.002	10408.987	50.869	0	60.8	0	50.881	0	0	60.915	39.116	85.398	XOM_R2OW SG MWD+IFR1+ MS
16200	89.337	90.002	10410.134	51.59	0	61.447	0	51.602	0	0	61.562	39.176	85.469	XOM_R2OW SG MWD+IFR1+ MS
16300	89.325	90.002	10411.301	52.313	0	62.098	0	52.326	0	0	62.212	39.238	85.539	XOM_R2OW SG MWD+IFR1+ MS
16400	89.313	90.002	10412.49	53.038	0	62.753	0	53.051	0	0	62.866	39.301	85.606	XOM_R2OW SG MWD+IFR1+ MS
16500	89.3	90.002	10413.701	53.764	0	63.412	0	53.778	0	0	63.524	39.364	85.672	XOM_R2OW SG MWD+IFR1+ MS
16600	89.288	90.002	10414.933	54.492	0	64.075	0	54.506	0	0	64.185	39.429	85.735	XOM_R2OW SG MWD+IFR1+ MS
16700	89.276	90.002	10416.186	55.222	0	64.741	0	55.236	0	0	64.85	39.494	85.797	XOM_R2OW SG MWD+IFR1+ MS
16800	89.263	90.002	10417.461	55.953	0	65.41	0	55.967	0	0	65.519	39.561	85.857	XOM_R2OW SG MWD+IFR1+ MS
16900	89.251	90.002	10418.758	56.685	0	66.083	0	56.7	0	0	66.191	39.628	85.915	XOM_R2OW SG MWD+IFR1+ MS
17000	89.239	90.002	10420.076	57.419	0	66.759	0	57.435	0	0	66.866	39.696	85.972	XOM_R2OW SG MWD+IFR1+ MS
17100	89.226	90.002	10421.415	58.154	0	67.438	0	58.17	0	0	67.544	39.765	86.027	XOM_R2OW SG MWD+IFR1+ MS
17200	89.214	90.002	10422.776	58.891	0	68.12	0	58.907	0	0	68.225	39.835	86.081	XOM_R2OW SG MWD+IFR1+ MS

17300	89.202	90.002	10424.158	59.629	0	68.805	0	59.645	0	0	68.909	39.906	86.133	XOM_R2OW SG MWD+IFR1+ MS
17400	89.19	90.002	10425.562	60.368	0	69.493	0	60.384	0	0	69.597	39.978	86.184	XOM_R2OW SG MWD+IFR1+ MS
17500	89.177	90.003	10426.987	61.108	0	70.184	0	61.125	0	0	70.286	40.051	86.234	XOM_R2OW SG MWD+IFR1+ MS
17600	89.165	90.003	10428.433	61.849	0	70.877	0	61.866	0	0	70.979	40.124	86.283	XOM_R2OW SG MWD+IFR1+ MS
17700	89.153	90.003	10429.902	62.591	0	71.573	0	62.609	0	0	71.674	40.199	86.33	XOM_R2OW SG MWD+IFR1+ MS
17800	89.14	90.003	10431.391	63.334	0	72.272	0	63.353	0	0	72.372	40.274	86.376	XOM_R2OW SG MWD+IFR1+ MS
17900	89.128	90.003	10432.902	64.078	0	72.973	0	64.097	0	0	73.072	40.351	86.421	XOM_R2OW SG MWD+IFR1+ MS
18000	89.116	90.003	10434.435	64.823	0	73.676	0	64.843	0	0	73.775	40.428	86.465	XOM_R2OW SG MWD+IFR1+ MS
18100	89.103	90.003	10435.989	65.57	0	74.382	0	65.589	0	0	74.48	40.506	86.507	XOM_R2OW SG MWD+IFR1+ MS
18200	89.091	90.003	10437.564	66.317	0	75.09	0	66.337	0	0	75.187	40.585	86.549	XOM_R2OW SG MWD+IFR1+ MS
18300	89.079	90.003	10439.161	67.064	0	75.8	0	67.085	0	0	75.896	40.665	86.59	XOM_R2OW SG MWD+IFR1+ MS
18400	89.067	90.003	10440.779	67.813	0	76.513	0	67.834	0	0	76.608	40.745	86.63	XOM_R2OW SG MWD+IFR1+ MS
18500	89.054	90.003	10442.419	68.563	0	77.227	0	68.584	0	0	77.322	40.827	86.669	XOM_R2OW SG MWD+IFR1+ MS

18600	89.042	90.003	10444.08	69.313	0	77.944	0	69.335	0	0	78.037	40.909	86.707	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
18700	89.03	90.003	10445.763	70.064	0	78.662	0	70.086	0	0	78.755	40.993	86.744	SG MWD+IFR1+ MS XOM_R2OW
18800	89.017	90.003	10447.467	70.815	0	79.382	0	70.838	0	0	79.475	41.077	86.781	SG MWD+IFR1+ MS XOM_R2OW
18900	89.005	90.003	10449.193	71.568	0	80.105	0	71.591	0	0	80.196	41.162	86.816	SG MWD+IFR1+ MS XOM_R2OW
19003.4	88.992	90.003	10451	72.347	0	80.853	0	72.37	0	0	80.944	41.251	86.852	SG MWD+IFR1+ MS

Plan Targets		JRU DI 8			
		EAGLE 151H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	10810.51	491485.8	653995.5	7040	RECTANGLE
BHL 4	19003.4	491485.58	662187.99	7112	RECTANGLE



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CACTUS WELLHEAD LLC		ALL DIMENSIONS APPROXIMATE	
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 1 1/4" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers		XTO ENERGY INC ICARUS PAD	
DRAWN	DLE	18JAN21	
APPRV			
DRAWING NO.	HBE0000479		

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

CONDITIONS

Action 387665

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 387665
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	12/3/2024