Form 3160-3 FORM APPROVED (June 2015) OMB No. 1004-0137 Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT NMNM02953C APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name la. Type of work: DRILL 7. If Unit or CA Agreement, Name and No. REENTER NMNM0070965Z/JAMES RANCH Oil Well Gas Well 1b. Type of Well: Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone JAMES RANCH UNIT DI 7 SAWTOOTH 905H 2. Name of Operator 9. API Well No. 30-015-54771 XTO PERMIAN OPERATING LLC 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970 (432) 683-2277 Los Medanos/WOLFCAMP SOUTH 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface LOT 3 / 155 FNL / 2368 FWL / LAT 32.34033 / LONG -103.817946 SEC 6/T23S/R31E/NMP At proposed prod. zone SENW / 2590 FNL / 2530 FWL / LAT 32.304611 / LONG -103.817441 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 155 feet location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed, 30 feet 20. BLM/BIA Bond No. in file applied for, on this lease, ft. 11160 feet / 25339 feet FED: COB000050 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3318 feet 07/31/2023 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the BLM. 25. Signature Name (Printed/Typed) (Electronic Submission) JESSICA DOOLING / Ph: (432) 682-8873 06/28/2023 Title Lead Regulatory Coordinator Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 02/01/2024 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval 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. Conditions of approval, if any, are attached. 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. APPROVED WITH CONDITIONS (Continued on page 2) *(Instructions on page 2) pproval Date: 02/01/2024

Additional Operator Remarks

Location of Well

0. SHL: LOT 3 / 155 FNL / 2368 FWL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.34033 / LONG: -103.817946 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 700 FSL / 2530 FWL / TWSP: 22S / RANGE: 31E / SECTION: 31 / LAT: 32.342679 / LONG: -103.81742 (TVD: 11044 feet, MD: 11500 feet)
PPP: NESW / 2636 FNL / 2530 FWL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.333511 / LONG: -103.817425 (TVD: 11078 feet, MD: 15500 feet)
PPP: NENW / 0 FNL / 2530 FWL / TWSP: 23S / RANGE: 31E / SECTION: 7 / LAT: 32.32625 / LONG: -103.817429 (TVD: 11099 feet, MD: 18100 feet)
BHL: SENW / 2590 FNL / 2530 FWL / TWSP: 23S / RANGE: 31E / SECTION: 18 / LAT: 32.304611 / LONG: -103.817441 (TVD: 11160 feet, MD: 25339 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

(Form 3160-3, page 3)

Approval Date: 02/01/2024

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
Distract 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.

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

☐ AMENDED REPORT

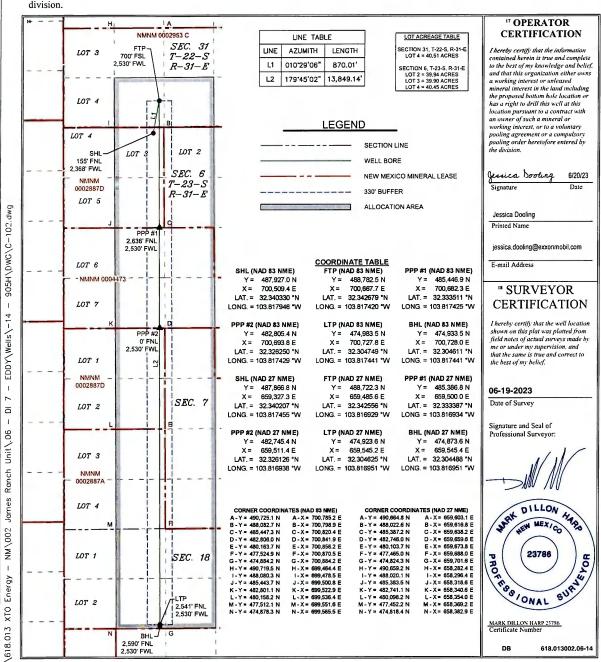
WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

¹ API Number 30-015- 5	4771	² Pool Code 96336) South			
Property Code 333473		•	erty Name INIT DI 7 SAWTOOTH	Well Number 905H		
⁷ OGRID №. 373075			ator Name OPERATING, LLC	°Elevation 3,318'		

					"Surface L	ocation									
UL or lot no.	L or lot no. Section Township		Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County						
3	6	23 S	31 E	155		NORTH	2,368	WEST	EDDY						
	" Bottom Hole Location If Different From Surface														
UL or lot no.	Section	Township Rang		Lot Idn	n Feet from the	North/South line	Feet from the	East/West line	County						
F	18	23 S	23 S 31 E		2,590	NORTH 2,530		WEST	EDDY						
Dedicated Acres 897.84	¹³ Joint or	Infill 14Ce	onsolidation C	Code 15 Ord	ler 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.



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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 Effective May 25, 2021

I. Operator: _XTO Permian O	Operating	; LLC	OGRI	D:	373075	Date:	_2/_5/_2024
II. Type: ⊠ Original □ Ame	ndment o	lue to □ 19.15.27	'.9.D(6)(a) NMA	AC □ 19.15.2	27.9.D(6)(b) N	$IMAC \square Other.$	
If Other, please describe:							
III. Well(s): Provide the follow be recompleted from a single w					set of wells pr	oposed to be dri	lled or proposed to
Well Name	API	ULSTR	Foo	Footages		Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
James Ranch Unit DI 7 Sawtooth 805H		Lot 3-6-23S-31	E 155' FNL &	2338 ' FWL	2500	3200	3500
James Ranch Unit DI 7 Sawtooth 806H		Lot 2-6-23S-31	E 155' FNL &	2020 ' FWL	2500	3200	3500
James Ranch Unit DI 7 Sawtooth 905H		Lot 3-6-23S-31	E 155' FNL &	155' FNL & 2368 ' FWL		3200	3500
James Ranch Unit DI 7 Sawtooth 906H		Lot 3-6-23S-31	E 155' FNL &	2458 ' FWL	2500	3200	3500
IV. Central Delivery Point Na V. Anticipated Schedule: Proproposed to be recompleted fro	vide the f	following informa	tion for each ne	w or recomp	leted well or se		
Well Name	API	Spud Date	TD Reached Date		pletion ement Date	Initial Flow Back Date	First Production Date
	+	TBD	TBD	TBD		TBD	TBD
James Ranch Unit DI 7 Sawtooth 805H		<u>IDD</u>		עעו			עעו
James Ranch Unit DI 7 Sawtooth 805H James Ranch Unit DI 7 Sawtooth 806H						TBD	
		TBD TBD	TBD TBD	TBD TBD		TBD TBD	TBD TBD

- VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- 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. 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 h	ave capacity to	gather	100% of the	anticipated	natural	gas
production volume from the well	prior to the date of first p	roduction.						

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

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н	- ΔT	Tach L	inerator c	nian t	a manage :	production	in rec	nonce to	The	increased	IIIDA	nrecellre
L		tacii C	oberator s	Dian t	O manage	DIOGUCUOII	111 1 C3	DOIISC IO	uic	mercaseu	IIIIC	DICSSUIC

XIV. Confidentiality:
☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which 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:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- **(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: Cassie Evans
Printed Name: Cassie Evans
Title: Regulatory Lead
E-mail Address: cassie.evans@exxonmobil.com
Date: 2/5/24
Phone: 432-214-7887
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

XTO Permian Operating, LLC. production tank batteries include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool in conjunction with the total number of wells planned to or existing within the facility. Separation equipment is upgraded prior to well being drilled or completed, if determined to be undersized or needed. The separation equipment is designed and built according to the relevant industry specifications (API Specification 12J and ASME Sec VIII Div I). Other recognized industry publications such as the Gas Processors Suppliers Association (GPSA) are referenced when designing separation equipment to optimize gas capture.

VII. Operational Practices:

1. Subsection B.

- During drilling, flare stacks will be located a minimum of 150 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

2. Subsection C.

 During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.

For emergencies, equipment malfunction, or if the operator decides to produce oil and gas during well completion:

- Flowlines will be routed for flowback fluids into a completion or storage tank and, if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

3. Subsection D.

- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.

 Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

4. Subsection E.

- All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
- Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

5. Subsection F.

- Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
- Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

- 1. During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- 2. Operator does not flow well (well shut in) during initial production until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.
- 3. Operator equips storage tanks with an automatic gauging system to reduce venting of natural gas.
- 4. Operator reduces the number of blowdowns by looking for opportunities to coordinate repair and maintenance activities.
- 5. Operator combusts natural gas that would otherwise be vented or flared, when feasible.
- 6. Operator has a flare stack designed in accordance with need and to handle sufficient volume to ensure proper combustion efficiency. Flare stacks are equipped with continuous pilots and securely anchored at least 100 feet (at minimum) from storage tanks and wells.
- 7. Operator minimizes venting (when feasible) through pump downs of vessels and reducing time required to purge equipment before returning equipment to service.
- 8. Operator will shut in wells (when feasible) in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

Highlighted data



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

Drilling Plan Data Report 02/05/2024

APD ID: 10400093155 Submission Date: 06/28/2023

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Type: CONVENTIONAL GAS WELL

reflects the most recent changes Well Number: 905H

Show Final Text Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12850112	QUATERNARY	3318	0	0	ALLUVIUM	USEABLE WATER	N
12850113	RUSTLER	3050	268	268	ANHYDRITE, SANDSTONE	USEABLE WATER	N
12850114	TOP SALT	2712	606	606	POTASH, SALT	POTASH	N
12850115	BASE OF SALT	-392	3710	3710	POTASH, SALT	POTASH	N
12850116	DELAWARE	-632	3950	3950	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
12850117 BONE SPRING		-4505	7823	7823	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
12850111	WOLFCAMP	-7780	11098	11098	SANDSTONE, SHALE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 11160

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 2993 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).

Requesting Variance? YES

Variance request: 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 pressurecontrolling 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

Page 1 of 9

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

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.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

JRU_7_Sawtooth_5MCM_20230627033803.pdf

BOP Diagram Attachment:

JRU_7_Sawtooth_5MBOP_20230627033813.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	581	0	581	3318	2737	581	J-55		OTHER - BTC	4.4	2.4	DRY	26.9 4	DRY	26.9 4
		12.2 5	9.625	NEW	API	N	0	3810	0	3810	3315	-492	3810	J-55		OTHER - BTC	2.22	1.76	DRY	4.13	DRY	4.13
	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	9860	0	9860	3315	-6542	9860	L-80		OTHER - FLUSH JOINT	3.68	2.05	DRY	2.3	DRY	2.3
4	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	25339	0	11160	3315	-7842	25339	P- 110		OTHER - SEMI- FLUSH	1.91	1.05	DRY	3.8	DRY	3.8

Casing Attachments

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_905H_Csg_20230627033929.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_905H_Csg_20230627034108.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

JRU_7_Sawtooth_905H_Csg_20230627034149.pdf

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_905H_Csg_20230627034148.pdf

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 905H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

JRU_7_Sawtooth_905H_Csg_20230627034254.pdf

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_905H_Csg_20230627034301.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	581	200	1.87	12.9	374	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	581	300	1.35	14.8	405	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3810	1580	1.39	12.9	2196. 2	100	Class C	NA
INTERMEDIATE	Tail		0	3810	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	9860	460	1.35	14.8	621	100	Class C	NA
INTERMEDIATE	Tail		0	9860	400	1.33	14.8	532	100	Class C	NA
PRODUCTION	Lead		0	2533 9	50	2.69	11.5	134.5	20	NeoCem	NA
PRODUCTION	Tail		0	2533 9	1050	1.51	13.2	1585. 5	20	VersaCem	NA

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: 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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9860	2533 9	OIL-BASED MUD	10	10.5							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

Page 5 of 9

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

United State Control of the Cont											
down after mud up, Rig up solids control equipment to operate as a closed loop system. Sput with fresh water/native mud. Drill out from under 13-3/8° surface casing with brine solution. A 10.0 pg -10.5 pgg brine mud will be used will drilling report after mud. Drill out from under 13-3/8° surface casing with brine solution. A 10.0 pg -10.5 pgg brine mud will be used will drilling report after mud volume. A mud sets will be performed with per recorded on a daily drilling report after mud volume. A mud set will be performed were to determine density, viscosity, strength, filtration and pH as necessary. Use available solds controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Spud with fresh water/native mud. Pill out from under 13-3/8° surface casing with brine solution. A 10.0 pg -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 localeating. Pump speed while recorded on a daily drilling report after mudding up. A feet or of mud volume. A mud test will be performed every 24 hours.	Top Depth Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	
Native mud. Drill out from under 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppd 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 Totoo 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 control equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. 581 3810 OTHER: BRINE 10 10.5 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 Totoo will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours											down after mud up. Rig up solids control equipment to operate as a closed loop
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	0 581		8.5	9							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
Dago & of the	581 3810	OTHER : BRINE	10	10.5							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

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 905H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											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.
3810	9860	OTHER: BDE/OBM or FW/Brine	8.6	9.1							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.

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

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

Open hole logging will not be done on this well.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MUD LOG/GEOLOGICAL LITHOLOGY

LOG,MEASUREMENT WHILE DRILLING, Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5803

Anticipated Surface Pressure: 3347

Anticipated Bottom Hole Temperature(F): 195

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

JRU_7_Sawtooth_H2S_DiaA_20230616113012.pdf

JRU_7_Sawtooth_H2S_Plan_20230616113012.pdf

JRU 7 Sawtooth H2S DiaB 20230621163738.pdf

JRU_7_Sawtooth_H2S_DiaC_20230621163748.pdf

JRU_7_Sawtooth_H2S_DiaD_20230621163803.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JRU 7 Sawtooth 905H_DD_20230627034904.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JRU_7_Sawtooth_905H_Cmt_20230627034916.pdf

Other Variance attachment:

JRU 7 Sawtooth FH 20230616113403.pdf

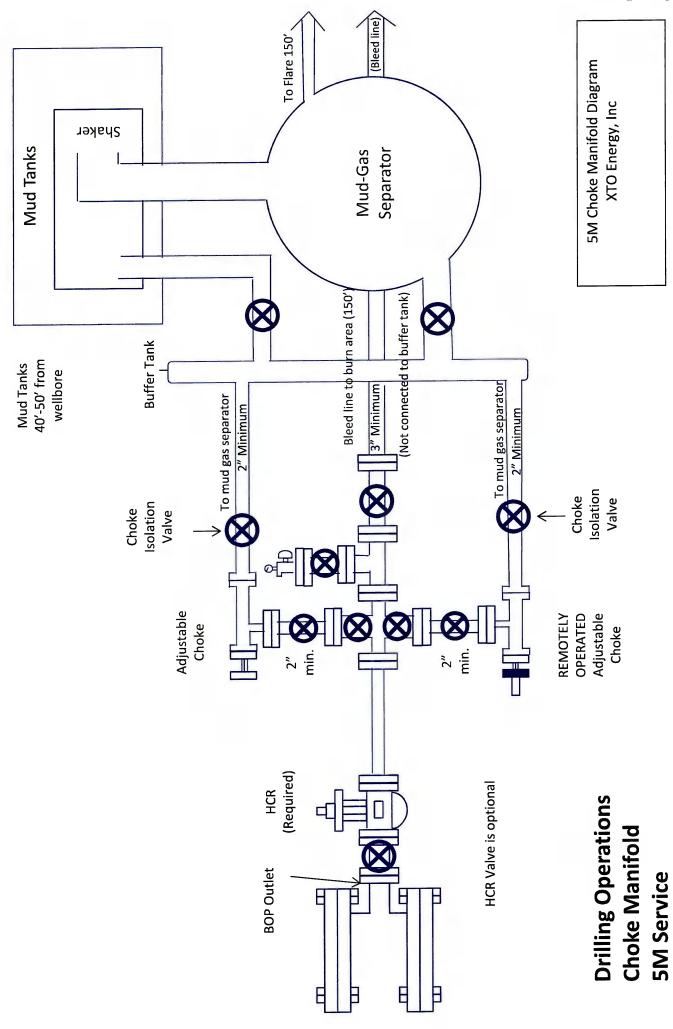
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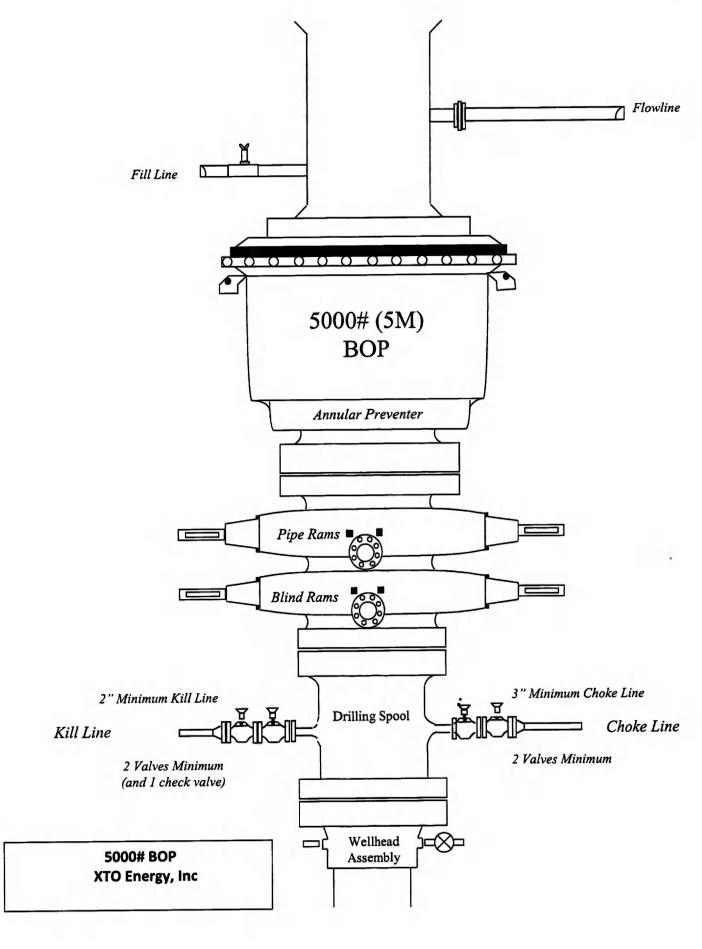
JRU 7 Sawtooth Spud 20230616113403.pdf

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Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

JRU_7_Sawtooth_BOP_BTV_update_20231217170843.pdf





Casing Assumptions

SF SF Illapse Tension	4	-				
ပိ						
SF Burst	-	2.40	2.40	2.40 1.76 2.83	2.40 1.76 2.83 2.05	2.40 1.76 2.83 2.05 1.05
New/Used		New	New New	New New	New New New	New New New
Collar		втс	BTC	BTC BTC Flush Joint	BTC BTC Flush Joint Flush Joint	BTC BTC Flush Joint Flush Joint Semi-Premium
Grade		J-55	J-55 J-55	J-55 J-55 RY P-110	J-55 J-55 RY P-110 HC L-80	J-55 J-55 RY P-110 HC L-80 RY P-110
Weight		54.5	54.5	54.5 40 29.7	54.5 40 29.7 29.7	29.7 29.7 20.7
OD Csg	13 375	10:01	9.625	9.625	9.625	9.625 7.625 7.625 5.5
Depth	0' - 581'		0' – 3810'	0' – 3810'	0' - 3810' 0' - 3910' 3910' - 9860'	0' – 3810' 0' – 3910' 3910' – 9860' 0' – 9760'
Hole Size	17.5		12.25	12.25	12.25 8.75 8.75	12.25 8.75 8.75 6.75

Cement Variance Request

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 (6500') 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 on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 GE procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.



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CORPUS CHRISTI, TEXAS 78405 134 44TH STREET DU-TEX GATES E & S NORTH AMERICA, INC

GRADE D PRESSURE TEST CERTIFICATE

138 002 5	suisserq IseT	IS4 000'S	Vorking Pressure:								
L33090011513D-060814-1	Assembly Code:	1009-1-224	Galits Part No. :								
4 1/16 in.5K FLG	End Felling 2:	4 1/16 m.SK FLG									
		9 1/16 in 5K D.C	: I privilia bra								
31	FD3.042.0R41/16.5KFLGE/E LE										
			Product Description:								
AMMON		,									
	Created By:	50I10è	Invoice No. :								
D-060814-1	Hose Senal Mo.:	bENDING	Customer Ref. :								
F10Z/8/9	Test Date:										
	L	DNITUBIRTEID NITEUA	Customer :								

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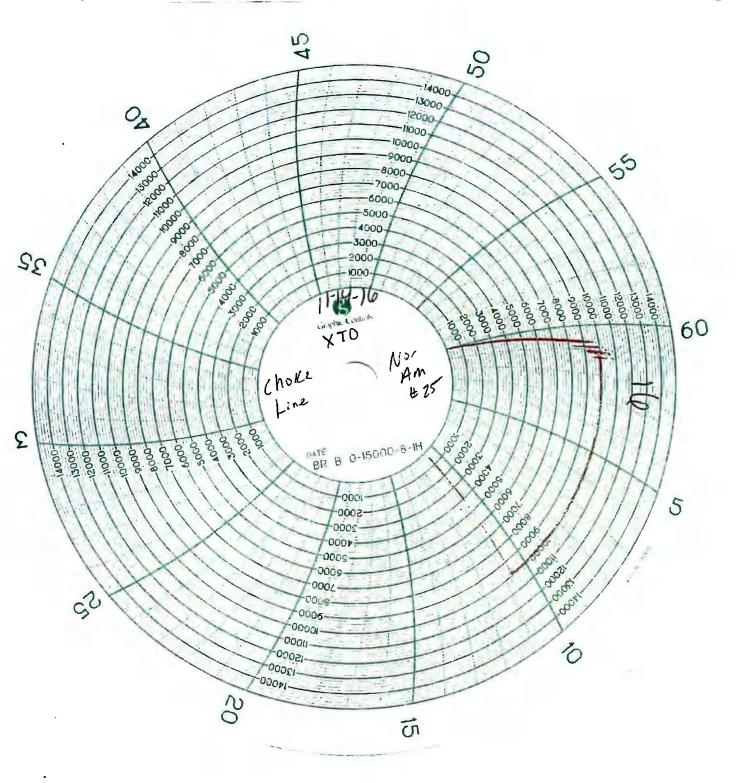
minimum of 2.5 times the working pressure per Table 9. to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the

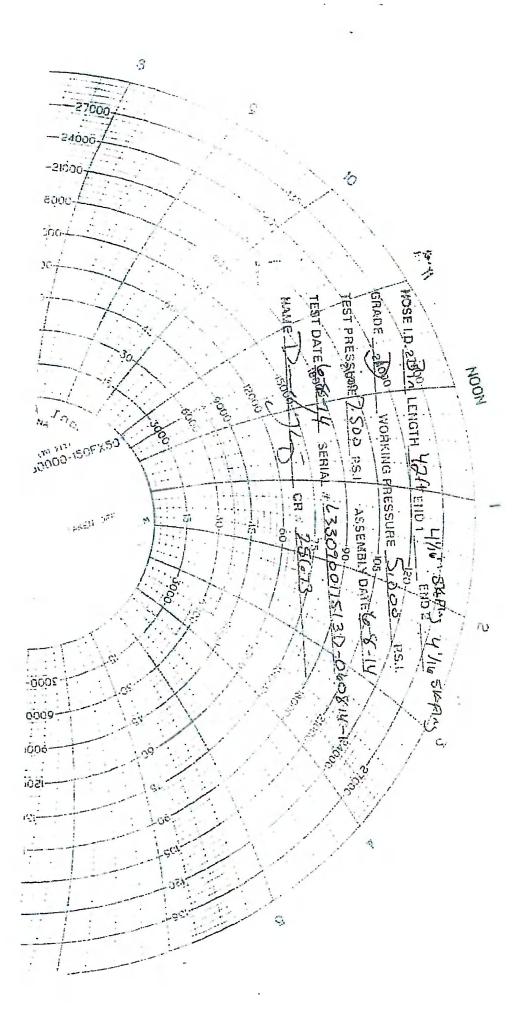
: Signature : : aimeudis \$102/8/9 JEDZ/8/9 **Р**ВО В СТІОИ : plad Technical Supervisor: YTUAUD Quality:

Form: PTC - 01 Rev.0 2

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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.

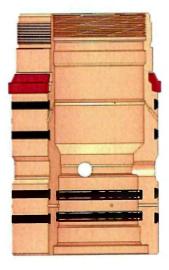
1. Cement Program

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.

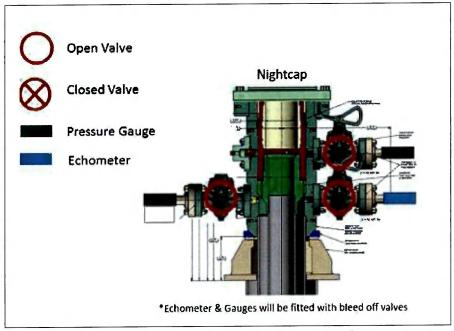
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set 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

1 Drilling Plan

XTO Permian Operating, LLC Offline Cementing Variance Request

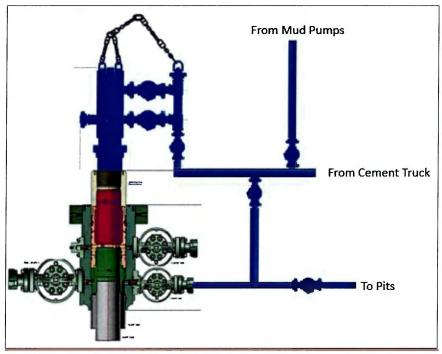


Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

2 Drilling Plan

XTO Permian Operating, LLC Offline Cementing Variance Request



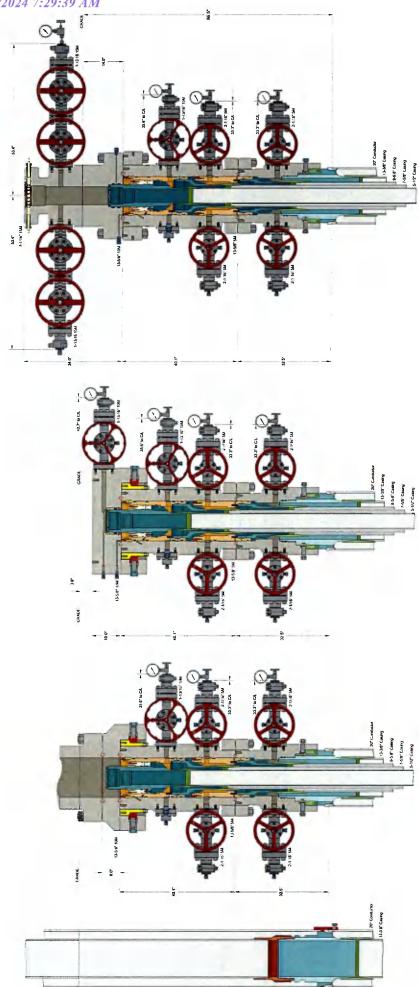
Wellhead diagram during offline cementing operations

- 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.

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

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



SDT-3301	DRAWING NO.	And Drilling & Skid Configurations
aş		VIII 13-3/3 TOIN X 1-1/10 TOIN CITY-DELITY 3-3B TUBING HEAD
<i>P</i> (APPRV	14/14 42 5/8" 40M > 7 4/48" 45M OTU DO UDO ST. History
	70004	(20) x (3-0) x (3-0) x (3-0) x (3-0) x (3-0)
VJK 31MAR22	DRAWN	(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MB11-AT-CE1 -P-DB1 O
DELAWARE BASIN	DELA	CACLOS WELLTEAD LLC
XTO ENERGY INC	XTO	C L L GATHS WELL HEAD II O
ALL DIMENSIONS APPROXIMAT		

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCOOSINE, OWNER THEREOF EFFENSISHE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY THORIZED BY CONTRACT OR AS EXPRESSLY THORIZED BY CACTUS WELLHEAD, LLC.

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.

2	API STANDARD 5						
Tai	ole C.4—Initial Pressure Te	sting, Surface BOP Stacks					
	Pressure Test—Low	Pressure Test—High Pressure [™]					
Component to be Pressure Tested	Pressure*** psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
Annular preventer ^b	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 ^{bd}	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	ПР				
Choke manifold—upstream of chokes	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	ASP for the well program,				
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program					
	during the evaluation period. The p	ressure shall not decrease below the allest OD drill pipe to be used in well					
pressure-controlling connections	when the integrity of a pressure sea						
For surface offshore operations, the vented during the initial test. For locking pressure vented at comments.	land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo	the closing and locking pressu cks engaged and the closing ar				

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

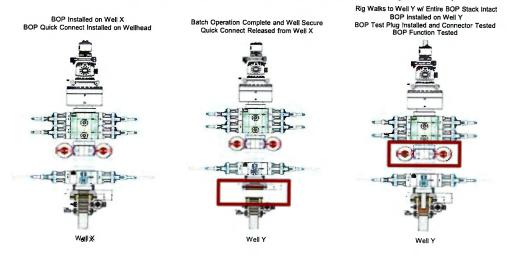
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- 1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - 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 Energy EDDY COUNTY, NM (NAD-27) JAMES RANCH UNIT DI 7 SAWTOOTH 905H

Wellbore #1

Plan: PERMIT

Standard Planning Report

25 November, 2022



EDM 5000.1.13 Single User Db Database:

XTO Energy Company:

EDDY COUNTY, NM (NAD-27) Project:

JAMES RANCH UNIT DI 7 SAWTOOTH Site:

905H Well: Wellbore #1 Wellbore: **PERMIT** Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

EDDY COUNTY, NM (NAD-27) Project

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

JAMES RANCH UNIT DI 7 SAWTOOTH Site

Site Position: From:

Well Position

Мар

Northing: Easting:

487,779.90 usft 658,009.00 usft

Latitude: Longitude:

0.27°

Position Uncertainty:

0.00 usft Slot Radius: 13-3/16 "

Grid Convergence:

32.3399854 -103.8217243

905H

+N/-S +E/-W

87.00 usft 1,318.20 usft

0.00 usft

Northing: Easting:

487,866.90 usft 659,327.20 usft

Latitude: Longitude:

32.3402071 -103.8174550

Position Uncertainty

Wellhead Elevation:

0.00 usft

Ground Level:

3,318.00 usft

PERMIT Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00 Direction

(°)

179.75

+E/-W Depth From (TVD) +N/-S **Vertical Section:** (usft) (usft) (usft) 0.00

0.00

leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.000.00		0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,496.51	9.93	5.80	2,494.03	42.70	4.34	2.00	2.00	0.00	5.80	
10,495.23		5.80	10,372.92	1,415.01	143.71	0.00	0.00	0.00	0.00	
11,489,18		179.75	11.044.00	855.40	158.40	10.00	8.01	17.50	173.87	905H_FTP.
25.288.49		179.75	11,159.58	-12,943.30	217.98	0.00	0.00	0.00	0.00	905H_LTP.
25,338.50		179.75	11,160.00	-12,993.30	218.20	0.00	0.00	0.00	0.00	905H_BHL.

0.00



Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27) JAMES RANCH UNIT DI 7 SAWTOOTH

Site: JAMES RAN Well: 905H Wellbore: Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

gn:	PERMIT				ALDERED !				
ned Survey				North Control of the	AND DESCRIPTION OF THE PERSON	NAME OF TAXABLE PARTY.	MASSISSION OF THE PARTY OF THE		
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
905H_SHL		- 1,14,4	400.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00 0.00	100.00 200.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00
200.00	0.00 0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00 400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
			500.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00 0.00	0.00 0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00 700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00 1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00 1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00 2.00	5.80	2,000.00	1.74	0.18	-1.74	2.00	2.00	0.00
2,100.00 2,200.00	4.00	5.80	2,199.84	6.94	0.71	-6.94	2.00	2.00	0.00
2,300.00	6.00	5.80	2,299.45	15.61	1.59	-15.61	2.00	2.00	0.00
2,400.00	8.00	5.80	2,398.70	27.74	2.82	-27.72	2.00	2.00	0.00
	9.93	5.80	2,494.03	42.70	4.34	-42.68	2.00	2.00	0.00
2,496.51 2,500.00		5.80	2,497.47	43.30	4.40	-43.28	0.00	0.00	0.00
2,600.00		5.80	2,595.97	60.45	6.14	-60.43	0.00	0.00	0.00
2,700.00		5.80	2,694.47	77.61	7.88	-77.58	0.00	0.00	0.00
2,800.00		5.80	2,792.97	94.77	9.62	-94.72	0.00	0.00	0.00
2,900.00		5.80	2,891.47	111.92	11.37	-111.87	0.00	0.00	0.00
3,000.00		5.80	2,989.98	129.08	13.11	-129.02	0.00	0.00	0.00
3,100.00	9.93	5.80	3,088.48	146.24	14.85	-146.17	0.00	0.00	0.00
3,200.00		5.80	3,186.98	163.39	16.59	-163.32	0.00	0.00	0.00
3,300.00		5.80	3,285.48	180.55	18.34	-180.47	0.00	0.00	0.00
3,400.00		5.80	3,383.98	197.71	20.08	-197.62	0.00	0.00	0.00
3,500.00		5.80	3,482.48	214.86	21.82	-214.77	0.00	0.00	0.00
3,600.00	9.93	5.80	3,580.99	232.02	23.56	-231.92	0.00	0.00	0.00
3,700.00		5.80	3,679.49	249.18	25.31	-249.06	0.00	0.00	0.00
3,800.00		5.80	3,777.99	266.33	27.05	-266.21	0.00	0.00	0.00
3,900.00		5.80	3,876.49	283.49	28.79	-283.36	0.00	0.00	0.00
4,000.00		5.80	3,974.99	300.65	30.53	-300.51	0.00	0.00	0.00
4,100.00		5.80	4,073.50	317.80	32.28	-317.66	0.00	0.00	0.00
4,200.00	9.93	5.80	4,172.00	334.96	34.02	-334.81	0.00	0.00	0.00
4,300.00		5.80	4,270.50	352.12	35.76	-351.96	0.00	0.00	0.00
4,400.00		5.80	4,369.00	369.27	37.50	-369.11	0.00	0.00	0.00
4,500.00		5.80	4,467.50	386.43	39.25	-386.26	0.00	0.00	0.00
4,600.00		5.80	4,566.00	403.59	40.99	-403.41	0.00	0.00	0.00
4,700.00		5.80	4,664.51	420.74	42.73	-420.55	0.00	0.00	0.00
4,800.00		5.80	4,763.01	437.90	44.47	-437.70	0.00	0.00	0.00
4,900.00	9.93	5.80	4,861.51	455.06	46.22	-454.85	0.00	0.00	0.00
5,000.00		5.80	4,960.01	472.21	47.96	-472.00	0.00	0.00	0.00
5,100.00			5,058.51	489.37	49.70	-489.15	0.00	0.00	0.00

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Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27)

Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 905H
Wellbore: Wellbore #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

sign:		PERMIT				HI CHARLE	Same Lea			
nned Su	rvey							ENGLISHMAN)	AND THE REAL PROPERTY.	
Meas De (us	pth	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	200.00	9.93 9.93	5.80 5.80	5,157.02 5,255.52	506.53 523.68	51.44 53.19	-506.30 -523.45	0.00 0.00	0.00 0.00	0.00 0.00
5,5 5,6 5,7	100.00 500.00 500.00 700.00	9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	5,354.02 5,452.52 5,551.02 5,649.52 5,748.03	540.84 558.00 575.15 592.31 609.47	54.93 56.67 58.41 60.16 61.90	-540.60 -557.75 -574.89 -592.04 -609.19	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,9 6,0 6,1 6,2	300.00 900.00 900.00 100.00 200.00	9.93 9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	5,846.53 5,945.03 6,043.53 6,142.03 6,240.54	626.62 643.78 660.94 678.09 695.25	63.64 65.38 67.13 68.87 70.61	-626.34 -643.49 -660.64 -677.79 -694.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,5 6,6 6,7	100.00 500.00 500.00 700.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	6,339.04 6,437.54 6,536.04 6,634.54 6,733.05	712.41 729.56 746.72 763.88 781.03	72.35 74.10 75.84 77.58 79.32	-712.09 -729.23 -746.38 -763.53 -780.68	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,9 7,0 7,1 7,2	900.00 000.00 100.00 200.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	6,831.55 6,930.05 7,028.55 7,127.05 7,225.55	798.19 815.35 832.50 849.66 866.82	81.07 82.81 84.55 86.29 88.04	-797.83 -814.98 -832.13 -849.28 -866.43	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,5 7,6 7,7	400.00 500.00 500.00 700.00 800.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	7,324.06 7,422.56 7,521.06 7,619.56 7,718.06	883.97 901.13 918.29 935.44 952.60	89.78 91.52 93.26 95.01 96.75	-883.57 -900.72 -917.87 -935.02 -952.17	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,9 8,0 8,7 8,2	900.00 000.00 100.00 200.00 300.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	7,816.57 7,915.07 8,013.57 8,112.07 8,210.57	969.76 986.91 1,004.07 1,021.23 1,038.38	98.49 100.23 101.98 103.72 105.46	-969.32 -986.47 -1,003.62 -1,020.77 -1,037.91	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,9 8,0 8,1	400.00 500.00 600.00 700.00 800.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	8,309.07 8,407.58 8,506.08 8,604.58 8,703.08	1,055.54 1,072.70 1,089.85 1,107.01 1,124.17	107.20 108.95 110.69 112.43 114.17	-1,055.06 -1,072.21 -1,089.36 -1,106.51 -1,123.66	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9,0 9, 9,1	900.00 000.00 100.00 200.00 300.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	8,801.58 8,900.09 8,998.59 9,097.09 9,195.59	1,141.32 1,158.48 1,175.64 1,192.79 1,209.95	115.92 117.66 119.40 121.14 122.89	-1,140.81 -1,157.96 -1,175.11 -1,192.25 -1,209.40	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9, [,] 9, 9, 9,	400.00 500.00 600.00 700.00 800.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	9,294.09 9,392.59 9,491.10 9,589.60 9,688.10	1,227.11 1,244.26 1,261.42 1,278.58 1,295.73	124.63 126.37 128.11 129.86 131.60	-1,226.55 -1,243.70 -1,260.85 -1,278.00 -1,295.15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9, 10, 10, 10,	900.00 000.00 100.00 200.00 300.00	9.93 9.93 9.93 9.93 9.93	5.80 5.80 5.80 5.80 5.80	9,786.60 9,885.10 9,983.61 10,082.11 10,180.61	1,312.89 1,330.05 1,347.20 1,364.36 1,381.52	133.34 135.08 136.83 138.57 140.31	-1,312.30 -1,329.45 -1,346.59 -1,363.74 -1,380.89	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	400.00 495.23	9.93 9.93	5.80 5.80	10,279.11 10,372.92	1,398.67 1,415.01	142.05 143.71	-1,398.04 -1,414.37	0.00 0.00	0.00 0.00	0.00 0.00

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Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27)
JAMES RANCH UNIT DI 7 SAWTOOTH

Site: JAMES RAN
Well: 905H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

sign		PERMIT			MESE					
nne	d Survey		Langue Langue							
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	10,500.00	9.46	6.11	10,377.62	1,415.81	143.80	-1,415.17	10.00	-9.94	6.50
	10,550.00	4.52	13.22	10,427.23	1,421.82	144.68	-1,421.17	10.00	-9.87	14.23
	10,600.00	1.21	119.47	10,477.18	1,423.48	145.60	-1,422.83	10.00	-6.62	212.50
	10,650.00	5.70	169.13	10,527.08	1,420.78	146.53	-1,420.12	10.00	8.97	99.31
	10,700.00	10.65	174.14	10,576.56	1,413.74	147.47	-1,413.08	10.00	9.91	10.03
	10,750.00	15.64	175.99	10,625.23	1,402.41	148.41	-1,401.75	10.00	9.97	3.69
	10,800.00	20.63	176.96	10,672.73	1,386.88	149.35	-1,386.22	10.00	9.98	1.94
	10,850.00	25.62	177.56	10,718.70	1,367.27	150.28	-1,366.61	10.00	9.99	1.21
	10,900.00	30.62	177.98	10,762.79	1,343.73	151.19	-1,343.06	10.00	9.99	0.83
	10,950.00	35.62	178.29	10,804.65	1,316.44	152.07	-1,315.76	10.00	9.99	0.62
	11,000.00	40.61	178.53	10,843.98	1,285.60	152.93	-1,284.92	10.00	10.00	0.49
	11,050.00	45.61	178.73	10,880.47	1,251.45	153.74	-1,250.76	10.00	10.00	0.40
	11,100.00	50.61	178.90	10,913.84	1,214.25	154.51	-1,213.56	10.00	10.00	0.33
	11,150.00	55.61	179.04	10,943.85	1,174.28	155.23	-1,173.59	10.00	10.00	0.29
	11,200.00	60.61	179.17	10,970.25	1,131.84	155.89	-1,131.15	10.00	10.00	0.26
	11,250.00	65.61	179.28	10,992.86	1,087.27	156.49	-1,086.57	10.00	10.00	0.23
	11,300.00	70.61	179.39	11,011.50	1,040.89	157.03	-1,040.20	10.00	10.00	0.21
	11,350.00	75.60	179.49	11,026.03	993.07	157.50	-992.37	10.00	10.00	0.20
	11,400.00	80.60	179.59	11,036.33	944.16	157.89	-943.46	10.00	10.00	0.19
	11,450.00	85.60	179.68	11,042.33	894.54	158.21	-893.84	10.00	10.00	0.19
	11,489.18	89.52	179.75	11,044.00	855.40	158.40	-854.70	10.00	10.00	0.18
	905H_FTP. 11,500.00 11,600.00	89.52 89.52	179.75 179.75	11,044.09 11,044.93	844.58 744.58	158.45 158.88	-843.88 -743.88	0.00 0.00	0.00 0.00	0.00 0.00
	11,700.00	89.52	179.75	11,045.77	644.59	159.31	-643.89	0.00	0.00	0.00
	11,800.00	89.52	179.75	11,046.60	544.59	159.74	-543.89	0.00	0.00	0.00
	11,900.00	89.52	179.75	11,047.44	444.60	160.17	-443.90	0.00	0.00	0.00
	12,000.00	89.52	179.75	11,048.28	344.60	160.61	-343.90	0.00	0.00	0.00
	12,100.00	89.52	179.75	11,049.12	244.61	161.04	-243.90	0.00	0.00	0.00
	12,200.00	89.52	179.75	11,049.95	144.61	161.47	-143.91	0.00	0.00	0.00
	12,300.00	89.52	179.75	11,050.79	44.62	161.90	-43.91	0.00	0.00	0.00
	12,400.00	89.52	179.75	11,051.63	-55.38	162.33	56.09	0.00	0.00	0.00
	12,500.00	89.52	179.75	11,052.47	-155.38	162.76	156.08	0.00	0.00	0.00
	12,600.00	89.52	179.75	11,053.30	-255.37	163.20	256.08	0.00	0.00	0.00
	12,700.00	89.52	179.75	11,054.14	-355.37	163.63	356.08	0.00	0.00	0.00
	12,800.00	89.52	179.75	11,054.98	-455.36	164.06	456.07	0.00	0.00	0.00
	12,900.00	89.52	179.75	11,055.82	-555.36	164.49	556.07	0.00	0.00	0.00
	13,000.00	89.52	179.75	11,056.65	-655.35	164.92	656.07	0.00	0.00	0.00
	13,100.00	89.52	179.75	11,057.49	-755.35	165.36	756.06	0.00	0.00	0.00
	13,200.00	89.52	179.75	11,058.33	-855.34	165.79	856.06	0.00	0.00	0.00
	13,300.00	89.52	179.75	11,059.17	-955.34	166.22	956.06	0.00	0.00	0.00
	13,400.00	89.52	179.75	11,060.01	-1,055.34	166.65	1,056.05	0.00	0.00	0.00
	13,500.00	89.52	179.75	11,060.84	-1,155.33	167.08	1,156.05	0.00	0.00	0.00
	13,600.00	89.52	179.75	11,061.68	-1,255.33	167.51	1,256.05	0.00	0.00	0.00
	13,700.00	89.52	179.75	11,062.52	-1,355.32	167.95	1,356.04	0.00	0.00	0.00
	13,800.00	89.52	179.75	11,063.36	-1,455.32	168.38	1,456.04	0.00	0.00	0.00
	13,900.00	89.52	179.75	11,064.19	-1,555.31	168.81	1,556.03	0.00	0.00	0.00
	14,000.00	89.52	179.75	11,065.03	-1,655.31	169.24	1,656.03	0.00	0.00	0.00
	14,100.00	89.52	179.75	11,065.87	-1,755.30	169.67	1,756.03	0.00	0.00	0.00
	14,200.00 14,300.00 14,400.00 14,500.00 14,600.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,066.71 11,067.54 11,068.38 11,069.22 11,070.06	-1,855.30 -1,955.30 -2,055.29 -2,155.29 -2,255.28	170.11 170.54 170.97 171.40 171.83	1,856.02 1,956.02 2,056.02 2,156.01 2,256.01	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

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Database: Company: Project: Site:

Wellbore:

Well:

EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27)
JAMES RANCH UNIT DI 7 SAWTOOTH

905H Wellbore #1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

sign:	PERMIT							W. W. American Co. There	
anned Survey			Vertical			Vertical	Dogleg	Build	Turn
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
14,700.00	89.52	179.75	11,070.89	-2,355.28	172.26	2,356.01	0.00	0.00 0.00	0.00 0.00
14,800.00	89.52	179.75	11,071.73	-2,455.27	172.70 173.13	2,456.00 2,556.00	0.00 0.00	0.00	0.00
14,900.00	89.52	179.75	11,072.57 11,073.41	-2,555.27 -2.655.26	173.13	2,656.00	0.00	0.00	0.00
15,000.00 15,100.00	89.52 89.52	179.75 179.75	11,073.41	-2,755.26	173.99	2,755.99	0.00	0.00	0.00
15,200.00	89.52	179.75	11,075.08	-2,855.26	174.42	2,855.99	0.00	0.00	0.00 0.00
15,300.00	89.52	179.75	11,075.92	-2,955.25	174.85	2,955.99	0.00 0.00	0.00 0.00	0.00
15,400.00	89.52	179.75	11,076.76	-3,055.25	175.29 175.72	3,055.98 3,155.98	0.00	0.00	0.00
15,500.00 15,600.00	89.52 89.52	179.75 179.75	11,077.59 11,078.43	-3,155.24 -3,255.24	176.12	3,255.98	0.00	0.00	0.00
15,700.00	89.52	179.75	11,079.27	-3,355.23	176.58	3,355.97	0.00	0.00	0.00
15,800.00	89.52	179.75	11,080.11	-3,455.23	177.01	3,455.97	0.00	0.00 0.00	0.00 0.00
15,900.00	89.52	179.75	11,080.94	-3,555.22	177.45	3,555.96 3,655.96	0.00 0.00	0.00	0.00
16,000.00 16,100.00		179.75 179.75	11,081.78 11,082.62	-3,655.22 -3,755.22	177.88 178.31	3,755.96	0.00	0.00	0.00
16,100.00		179.75	11,083.46	-3,855.21	178.74	3,855.95	0.00	0.00	0.00
16,300.00		179.75	11,084.30	-3,955.21	179.17	3,955.95	0.00	0.00	0.00
16,400.00		179.75	11,085.13	-4,055.20	179.60	4,055.95	0.00	0.00 0.00	0.00 0.00
16,500.00	89.52	179.75	11,085.97 11,086.81	-4,155.20 -4,255.19	180.04 180.47	4,155.94 4,255.94	0.00 0.00	0.00	0.00
16,600.00		179.75		-4,255.19 -4,355.19	180.90	4,355.94	0.00	0.00	0.00
16,700.00		179.75 179.75	11,087.65 11,088.48	-4,355.19 -4,455.18	181.33	4,455.93	0.00	0.00	0.00
16,800.00 16,900.00		179.75	11,089.32	-4,555.18	181.76	4,555.93	0.00	0.00	0.00
17,000.00		179.75	11,090.16	-4,655.18	182.20	4,655.93	0.00	0.00	0.00
17,100.00		179.75	11,091.00	-4,755.17	182.63	4,755.92	0.00	0.00	0.00
17,200.00		179.75	11,091.83	-4,855.17	183.06	4,855.92	0.00 0.00	0.00 0.00	0.00 0.00
17,300.00		179.75	11,092.67	-4,955.16 5.055.16	183.49 183.92	4,955.92 5,055.91	0.00	0.00	0.00
17,400.00		179.75 179.75	11,093.51 11,094.35	-5,055.16 -5,155.15	184.35	5,155.91	0.00	0.00	0.00
17,500.00 17,600.00		179.75	11,095.18	-5,255.15	184.79	5,255.91	0.00	0.00	0.00
17,700.00		179.75	11,096.02	-5,355.14	185.22	5,355.90	0.00	0.00	0.00
17,800.00		179.75	11,096.86	-5,455.14	185.65	5,455.90	0.00	0.00 0.00	0.00 0.00
17,900.00		179.75	11,097.70	-5,555.14	186.08	5,555.89 5,655.89	0.00 0.00	0.00	0.00
18,000.00 18,100.00		179.75 179.75	11,098.53 11,099.37	-5,655.13 -5,755.13	186.51 186.94	5,755.89	0.00	0.00	0.00
•		179.75	11,100.21	-5,855.12	187.38	5,855.88	0.00	0.00	0.00
18,200.00 18,300.00		179.75	11,101.05	-5,955.12	187.81	5,955.88	0.00	0.00	0.00
18,400.00	00.50	179.75	11,101.88	-6,055.11	188.24		0.00	0.00	0.00 0.00
18,500.00	89.52	179.75	11,102.72	-6,155.11	188.67	6,155.87	0.00 0.00	0.00 0.00	0.00
18,600.00	89.52		11,103.56	-6,255.10	189.10	6,255.87		0.00	0.00
18,700.00		179.75	11,104.40	-6,355.10 6,455.10	189.54 189.97	6,355.87 6,455.86	0.00 0.00	0.00	0.00
18,800.00	89.52		11,105.23 11,106.07	-6,455.10 -6,555.09	190.40	6,555.86	0.00	0.00	0.00
18,900.00 19,000.00			11,106.91	-6,655.09	190.83	6,655.86	0.00		0.00
19,000.00			11,107.75	-6,755.08	191.26	6,755.85	0.00		0.00
19,200.00	89.52		11,108.59	-6,855.08	191.69	6,855.85	0.00 0.00		0.00 0.00
19,300.00	89.52		11,109.42	-6,955.07 -7,055.07	192.13 192.56	6,955.85 7,055.84	0.00		0.00
19,400.00			11,110.26 11,111.10	-7,055.07 -7.155.06	192.50		0.00		0.00
19,500.00 19,600.00			11,111.10	-7,155.06	193.42		0.00		0.00
19,700.00			11,112.77	-7,355.06	193.85		0.00		0.00
19,800.00			11,113.61	-7,455.05	194.29		0.00		0.00 0.00
19,900.00	89.52	179.75		-7,555.05	194.72	7,555.82			0.00
20,000.0	89.52	179.75	11,115.29	-7,655.04	195.15	7,655.82	0.00	0.00	0.00

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Database: Company: Project: Site:

EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27)

JAMES RANCH UNIT DI 7 SAWTOOTH Well: Wellbore #1 Wellbore: DEDMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

esign:	PERMIT	2.2.76 40.00	7						
Planned Survey				Neluvice Levils	residerates	nines exercis	NAME OF THE OWNER, OWNE		A PARAMETER
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,100.00	89.52	179.75	11,116.12	-7,755.04	195.58	7,755.82	0.00	0.00	0.00
20,200.00 20,300.00 20,400.00 20,500.00 20,600.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,116.96 11,117.80 11,118.64 11,119.47 11,120.31	-7,855.03 -7,955.03 -8,055.02 -8,155.02 -8,255.02	196.01 196.44 196.88 197.31 197.74	7,855.81 7,955.81 8,055.81 8,155.80 8,255.80	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,700.00 20,800.00 20,900.00 21,000.00 21,100.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,121.15 11,121.99 11,122.82 11,123.66 11,124.50	-8,355.01 -8,455.01 -8,555.00 -8,655.00 -8,754.99	198.17 198.60 199.04 199.47 199.90	8,355.80 8,455.79 8,555.79 8,655.79 8,755.78	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,200.00 21,300.00 21,400.00 21,500.00 21,600.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,125.34 11,126.17 11,127.01 11,127.85 11,128.69	-8,854.99 -8,954.98 -9,054.98 -9,154.98 -9,254.97	200.33 200.76 201.19 201.63 202.06	8,855.78 8,955.78 9,055.77 9,155.77 9,255.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,700.00 21,800.00 21,900.00 22,000.00 22,100.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,129.52 11,130.36 11,131.20 11,132.04 11,132.88	-9,354.97 -9,454.96 -9,554.96 -9,654.95 -9,754.95	202.49 202.92 203.35 203.78 204.22	9,355.76 9,455.76 9,555.75 9,655.75 9,755.75	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,200.00 22,300.00 22,400.00 22,500.00 22,600.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,133.71 11,134.55 11,135.39 11,136.23 11,137.06	-9,854.94 -9,954.94 -10,054.94 -10,154.93 -10,254.93	204.65 205.08 205.51 205.94 206.38	9,855.74 9,955.74 10,055.74 10,155.73 10,255.73	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,700.00 22,800.00 22,900.00 23,000.00 23,100.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,137.90 11,138.74 11,139.58 11,140.41 11,141.25	-10,354.92 -10,454.92 -10,554.91 -10,654.91 -10,754.90	206.81 207.24 207.67 208.10 208.53	10,355.73 10,455.72 10,555.72 10,655.72 10,755.71	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
23,200.00 23,300.00 23,400.00 23,500.00 23,600.00	89.52 89.52 89.52 89.52 89.52	179.75 179.75 179.75 179.75 179.75	11,142.09 11,142.93 11,143.76 11,144.60 11,145.44	-10,854.90 -10,954.90 -11,054.89 -11,154.89 -11,254.88	208.97 209.40 209.83 210.26 210.69	10,855.71 10,955.71 11,055.70 11,155.70 11,255.69	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
23,700.00 23,800.00 23,900.00 24,000.00 24,100.00		179.75 179.75	11,146.28 11,147.11 11,147.95 11,148.79 11,149.63	-11,354.88 -11,454.87 -11,554.87 -11,654.86 -11,754.86	211.13 211.56 211.99 212.42 212.85	11,355.69 11,455.69 11,555.68 11,655.68 11,755.68	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
24,200.00 24,300.00 24,400.00 24,500.00 24,600.00	89.52 89.52 89.52	179.75 179.75 179.75	11,150.46 11,151.30 11,152.14 11,152.98 11,153.81	-11,854.86 -11,954.85 -12,054.85 -12,154.84 -12,254.84	213.28 213.72 214.15 214.58 215.01	11,855.67 11,955.67 12,055.67 12,155.66 12,255.66	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
24,700.00 24,800.00 24,900.00 25,000.00 25,100.00	89.52 89.52 89.52 89.52	179.75 179.75 179.75	11,154.65 11,155.49 11,156.33 11,157.17 11,158.00		215.44 215.87 216.31 216.74 217.17	12,355.66 12,455.65 12,555.65 12,655.65 12,755.64	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
25,200.00 25,288.49	89.52		11,158.84 11,159.58		217.60 217.98	12,855.64 12,944.13	0.00 0.00		0.00 0.00



Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH

Site: JAMES RAN
Well: 905H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD)

RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

nned Survey	Maria Control					THE REAL PROPERTY.	MILITARIA DE LA CONTRACTOR DE LA CONTRAC		NAME OF TAXABLE PARTY.
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
905H_LTP. 25,300.00 25,338.50 905H_BHL	89.52 89.52	179.75 179.75	11,159.68 11,160.00	-12,954.81 -12,993.30	218.03 218.20	12,955.64 12,994.13	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets	ESPANISTA STOR	DISTRICT THE	A CONTRACTOR OF THE PARTY OF TH	NAME OF TAXABLE PARTY.	THE RESERVE		Daily Congress		THE RESERVE OF THE PERSON NAMED IN
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
905H_SHL. - plan hits target c - Point	0.00 enter	0.00	0.00	0.00	0.00	487,866.90	659,327.20	32.3402071	-103.8174550
905H_FTP plan hits target c - Point	0.00 enter	0.00	11,044.00	855.40	158.40	488,722.30	659,485.60	32.3425564	-103.8169287
905H_LTP plan misses targ - Point	0.00 et center by	0.00 0.03usft at	11,159.56 25288.49เ	-12,943.30 usft MD (1115	218.00 9.58 TVD, -1	474,923.60 2943.30 N, 217.9	659,545.20 98 E)	32.3046252	-103.8169511
905H_BHL. - plan hits target o - Point	0.00 enter	0.00	11,160.00	-12,993.30	218.20	474,873.60	659,545.40	32.3044877	-103.8169512



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

EDDY COUNTY, NM (NAD-27) JAMES RANCH UNIT DI 7 SAWTOOTH

Well: 905H Wellbore: Wellbore #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 905H

RKB = 32' @ 3350.00usft (TBD) RKB = 32' @ 3350.00usft (TBD)

Grid

Minimum Curvature

Design:	PERM	IT		自己当 为人员的		
Formations					Marine San	The Section of the Se
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	268.00	268.00	Rustler			
	606.00	606.00	Salado/Top of Salt			
	2,528.97	2,526.00	Castile Anhydrite 1 Top			
	3,027.44	3,017.00	Castile Anhydrite 1 Base			
	3,260.93	3,247.00	Castile Anhydrite 2 Top			
	3,367.53	3,352.00	Castile Anhydrite 2 Base			
	3,730.98	3,710.00	Base Salt			
	3,974.63	3,950.00	Delaware/Lamar			
	4,008.13	3,983.00	Bell Canyon			
	5,114.71	5,073.00	Cherry Canyon			
	6,563.41	6,500.00	Brushy Canyon Ss.			
	7,906.53	7,823.00	Bone Spring Lm.			
	7,954.25	7,870.00	Avalon Ss.			
	8,215.16	8,127.00	Upper Avalon Carb.			
	8,288.25	8,199.00	Upper Avalon Sh.			
	8,459.82	8,368.00	Middle Avalon Carb.			
	8,535.96	8,443.00	Lw. Avalon Sh.			
	8,869.97	8,772.00	First Bone Spring Carb.			
	8,951.18		First Bone Spring Ss.			
	9,387.72	9,282.00				
	9,773.50	9,662.00	Second Bone Spring A Ss.			
	9,852.69		Second Bone Spring A/B Carb.			
	9,915.63	9,802.00				
	10,069.94	9,954.00	Third Bone Spring Carb.			
	10,289.23	10,170.00	Harkey Ss.			
	10,371.46		Third Bone Spring Shale			
	10,773.79	10,648.00	Third Bone Spring Ss.			
	11,247.92	10,992.00	Third Bone Spring Ss Red Hills			
	11,489.18	•	Horizontal Landing Point			
	17,936.28	•	Wolfcamp Shale			
	20,682.26		Wolfcamp X Ss.			
	25,338.50		Horizontal TD			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC

WELL NAME & NO.: | James Ranch Unit DI 7 Sawtooth 905H LOCATION: | Sec 06-23S-31E-NMP

COUNTY: Eddy County, New Mexico

COA

H ₂ S	C No	• Yes		
Potash / WIPP	C None	C Secretary	© R-111-P	₩IPP
Cave / Karst	C Low	Medium	(High	Critical
Wellhead	Conventional	Multibowl	C Both	C Diverter
Cementing	☐ Primary Squeeze	Cont. Squeeze	EchoMeter	□ DV Tool
Special Req	▼ Break Testing	□ Water Disposal	□ COM	「Unit
Variance	Flex Hose	Casing Clearance	□ Pilot Hole	□ Capitan Reef
Variance	Four-String	Offline Cementing	□ Fluid-Filled	□ Open Annulus
		Batch APD / Sundry		

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Base of Salt**. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, 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 581 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. Comments from the BLM Geologist: Operator's proposed surface casing at 581 feet is very near the top of the salt or in the salt. Operator has extensive drilling experience in this area and has encountered lost circulation in BLM's preferred setpoint for the surface casing just below the Magenta Dolomite. BLM accepts the base of the Rustler Formation and Top of the Salt as surface casing setpoint. Operator must set surface casing at this depth and not deeper in the salt. If operator's proposed setpoint is deeper than top of salt, Operator will set surface casing at top of salt.
 - 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.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24</u>
 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, Capitan Reef, or potash.
 - ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The minimum required fill of cement behind the 7-5/8 inch 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 6500'
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. 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, Capitan Reef, or potash.
- ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.

Operator has proposed to pump down 7-5/8" X 9-5/8" 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 7-5/8" 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 between second stage BH and top out.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 700 feet into previous casing string (casing tieback increased due to not meeting the minimum 0.422" clearance requirement per 43 CFR 3172.) Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

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.

WIPP Requirements

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, **XTO Permian Operating** is required to submit daily

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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 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 R-111-P Amendment) Notification to Operators (Potash)

- (1) Indication of any well collision event,
- (2) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- (3) 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,
- (4) 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
- (5) Sustained losses in excess of 50% through the salt formation during drilling.

XTO Permian Operating can email the required information to <u>OilGasReports@wipp.ws</u>. 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 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 Onshore Oil and Gas Order No. 2.

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• 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.

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 (API No. / US Well No. contains 30-015-####)
 Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV
 (575) 361-2822
 - Lea County (API No. / US Well No. contains 30-025-####)
 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 **43 CFR part 3170 Subpart 3172** 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

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logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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.

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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 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43 CFR part 3170 Subpart 3172 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 cement), whichever is greater.

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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 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.)
- c. 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 part 3170 Subpart 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 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 43 CFR part 3170 Subpart 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.

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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.

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HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H2S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

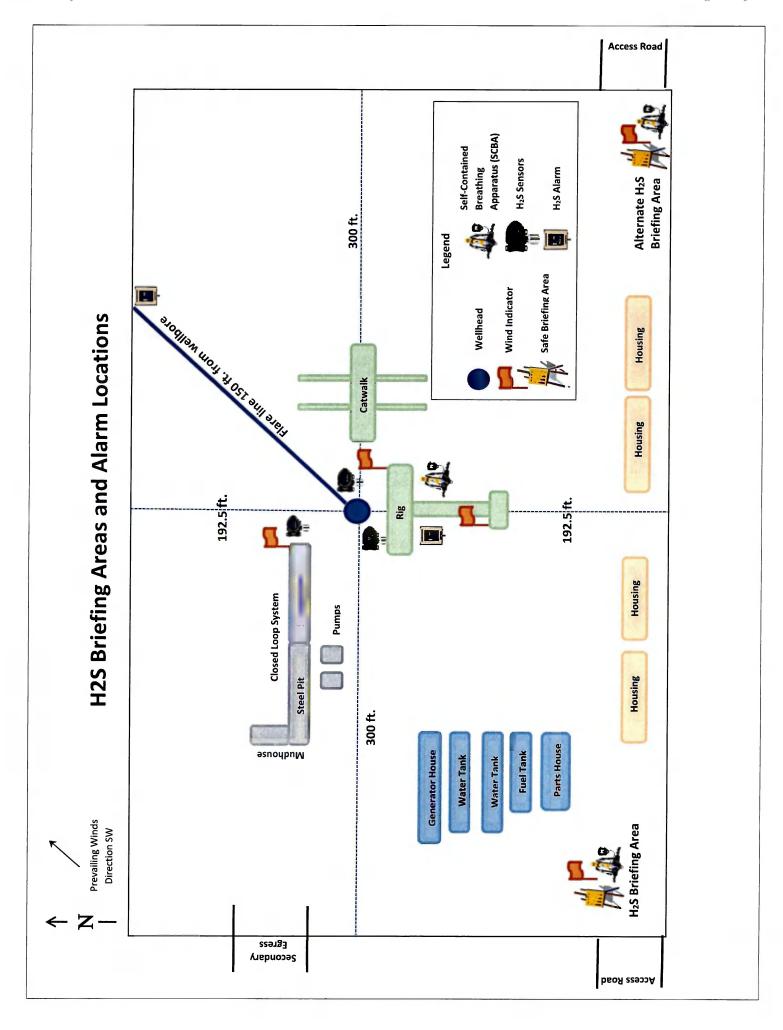
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220	
Carlsbad, NM	575-887-7329
XTO PERSONNEL:	
Jesse Chondo, Drilling Manager	432-210-7505
Sean Strode, Drilling Superintendent	432-234-0875
Josh Davis, Construction Foreman	936-332-2212
Andy Owens, EH & S Manager Mike Allen, Production Foreman	903-245-2602
wike Allen, Froduction Foreman	918-421-9056
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS:	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS:	
For Lea County:	
Bureau of Land Management - Hobbs	575-393-3612
New Mexico Oil Conservation Division - Hobbs	575-393-6161
For Eddy County:	
Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283



Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH Well Number: 905H

Are you storing cuttings on location? Y

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

JRU_7_Sawtooth_905H__Well_20230627035404.pdf

JRU_7_Sawtooth_905H_RL_20230627035404.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: JRU DI 7 SAWTOOTH

Multiple Well Pad Number: B

Recontouring

JRU_7_Sawtooth_IR1_20230616135635.pdf

JRU_7_Sawtooth_IR2_20230616135635.pdf

JRU_7_Sawtooth_IR3_20230616135635.pdf

JRU_7_Sawtooth_IR4_20230616135636.pdf

Drainage/Erosion control construction: : Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping,

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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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 311615

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	311615
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	2/23/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/23/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	2/23/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	2/23/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	2/23/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	2/23/2024