

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-54885
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
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 Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the 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)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
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.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 03/04/2024

Additional Operator Remarks

Location of Well

0. SHL: LOT 1 / 155 FNL / 320 FEL / TWSP: 23S / RANGE: 31E / SECTION: 6 / LAT: 32.340325 / LONG: -103.809493 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 4 / 178 FNL / 0 FWL / TWSP: 23S / RANGE: 31E / SECTION: 5 / LAT: 32.340262 / LONG: -103.808458 (TVD: 2831 feet, MD: 2843 feet)

PPP: LOT 3 / 330 FNL / 2090 FWL / TWSP: 23S / RANGE: 31E / SECTION: 5 / LAT: 32.339852 / LONG: -103.801689 (TVD: 10502 feet, MD: 11181 feet)

PPP: SENW / 1318 FNL / 2089 FWL / TWSP: 23S / RANGE: 31E / SECTION: 5 / LAT: 32.337135 / LONG: -103.801684 (TVD: 10502 feet, MD: 12501 feet)

BHL: SENW / 2540 FNL / 2090 FWL / TWSP: 23S / RANGE: 31E / SECTION: 17 / LAT: 32.304611 / LONG: -103.801623 (TVD: 10502 feet, MD: 24001 feet)

BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

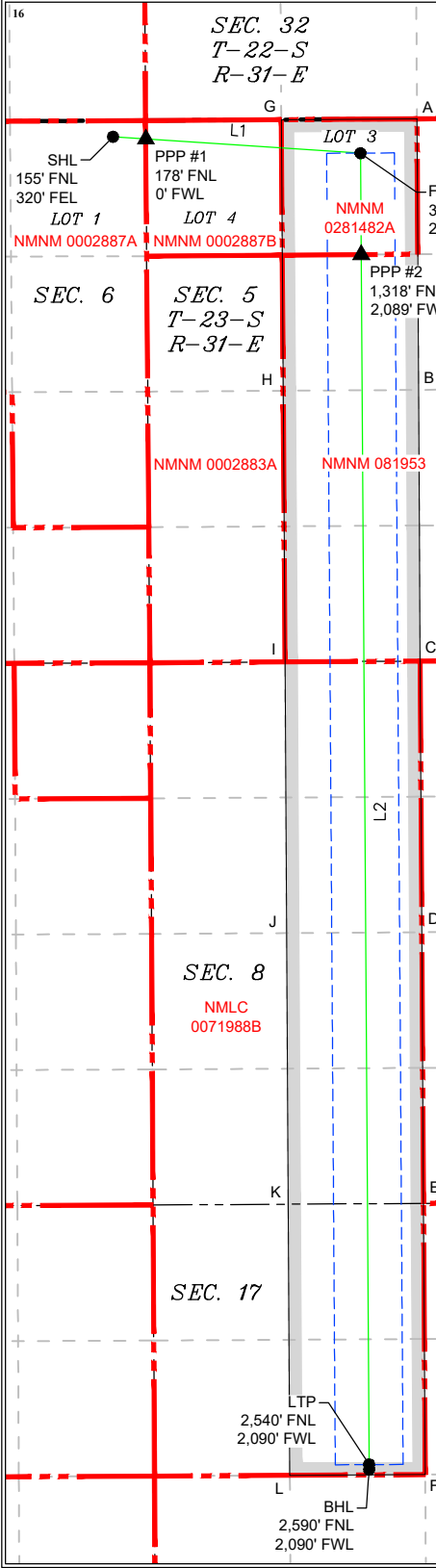
¹ API Number 30-015- 54885	² Pool Code 40295	³ Pool Name LOS MEDANOS; BONE SPRING
⁴ Property Code 333473	⁵ Property Name JAMES RANCH UNIT DI 7 SAWTOOTH	⁶ Well Number 804H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,329

¹⁰ Surface Location									
UL or lot no. 1	Section 6	Township 23 S	Range 31 E	Lot Idn	Feet from the 155	North/South line NORTH	Feet from the 320	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. F	Section 17	Township 23 S	Range 31 E	Lot Idn	Feet from the 2,590	North/South line NORTH	Feet from the 2,090	East/West line WEST	County EDDY

¹² Dedicated Acres 399.9	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	093°48'06"	2416.29'
L2	179°37'25"	12820.50'

LOT ACREAGE TABLE	
SECTION 6, T-23-S, R-31-E	LOT 1 = 39.98 ACRES
SECTION 5, T-23-S, R-31-E	LOT 3 = 39.92 ACRES
	LOT 4 = 39.98 ACRES

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

COORDINATE TABLE			
SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y =	487,937.9 N	Y =	487,877.7 N
X =	703,120.1 E	X =	661,937.9 E
LAT. =	32.340325 °N	LAT. =	32.340202 °N
LONG. =	103.809493 °W	LONG. =	103.809002 °W
PPP #1 (NAD 83 NME)		PPP #1 (NAD 27 NME)	
Y =	487,916.6 N	Y =	487,856.5 N
X =	703,439.9 E	X =	662,257.7 E
LAT. =	32.340262 °N	LAT. =	32.340139 °N
LONG. =	103.808458 °W	LONG. =	103.807967 °W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y =	487,777.7 N	Y =	487,717.5 N
X =	705,531.0 E	X =	664,348.9 E
LAT. =	32.339852 °N	LAT. =	32.339729 °N
LONG. =	103.801689 °W	LONG. =	103.801199 °W
PPP #2 (NAD 83 NME)		PPP #2 (NAD 27 NME)	
Y =	486,789.3 N	Y =	486,729.2 N
X =	705,537.6 E	X =	664,355.3 E
LAT. =	32.337135 °N	LAT. =	32.337012 °N
LONG. =	103.801684 °W	LONG. =	103.801193 °W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y =	475,007.4 N	Y =	474,947.6 N
X =	705,615.0 E	X =	664,432.4 E
LAT. =	32.304749 °N	LAT. =	32.304625 °N
LONG. =	103.801623 °W	LONG. =	103.801134 °W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y =	474,957.4 N	Y =	474,897.6 N
X =	705,615.3 E	X =	664,432.6 E
LAT. =	32.304611 °N	LAT. =	32.304488 °N
LONG. =	103.801623 °W	LONG. =	103.801134 °W

CORNER COORDINATES (NAD 83 NME)		CORNER COORDINATES (NAD 27 NME)	
A - Y =	488,111.1 N	A - Y =	488,051.0 N
B - Y =	485,472.0 N	B - Y =	485,412.0 N
C - Y =	482,831.3 N	C - Y =	482,771.3 N
D - Y =	480,191.1 N	D - Y =	480,131.2 N
E - Y =	477,550.9 N	E - Y =	477,491.0 N
F - Y =	474,910.4 N	F - Y =	474,850.6 N
G - Y =	488,102.8 N	G - Y =	488,042.7 N
H - Y =	485,463.3 N	H - Y =	485,403.2 N
I - Y =	482,823.0 N	I - Y =	482,763.0 N
J - Y =	480,182.9 N	J - Y =	480,122.9 N
K - Y =	477,543.1 N	K - Y =	477,483.3 N
L - Y =	474,903.2 N	L - Y =	474,843.4 N
A - X =	706,080.8 E	A - X =	664,898.6 E
B - X =	706,096.0 E	B - X =	664,913.8 E
C - X =	706,111.3 E	C - X =	664,928.9 E
D - X =	706,127.8 E	D - X =	664,945.3 E
E - X =	706,144.3 E	E - X =	664,961.7 E
F - X =	706,160.9 E	F - X =	664,978.2 E
G - X =	704,759.6 E	G - X =	663,577.5 E
H - X =	704,777.7 E	H - X =	663,595.5 E
I - X =	704,795.9 E	I - X =	663,613.5 E
J - X =	704,812.6 E	J - X =	663,630.1 E
K - X =	704,827.9 E	K - X =	663,645.4 E
L - X =	704,843.2 E	L - X =	663,660.6 E

17 OPERATOR
CERTIFICATION

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

Jessica Dooling

Signature

6/20/23

Date

Jessica Dooling

Printed Name

jessica.dooling@exxonmobil.com

E-mail Address

18 SURVEYOR
CERTIFICATION

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

06/19/2023

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number

AR

618.013002.06-21

Released to Imaging: 3/27/2024 10:25:04 AM



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

Drilling Plan Data Report

03/05/2024

APD ID: 10400093035

Submission Date: 06/22/2023

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13028632	QUATERNARY	3329	0	0	ALLUVIUM	USEABLE WATER	N
13028633	RUSTLER	3050	279	279	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13028634	TOP SALT	2712	617	617	POTASH, SALT	POTASH	N
13028635	BASE OF SALT	-392	3721	3721	POTASH, SALT	POTASH	N
13028636	DELAWARE	-632	3961	3961	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13028637	BONE SPRING	-4505	7834	7834	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10592

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. 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 pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nipping up on the 13.375, 5M bradenhead and flange,

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

JRU_7_Sawtooth_5MCM_20230621174534.pdf

BOP Diagram Attachment:

JRU_7_Sawtooth_5MBOP_20230621174554.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	592	0	592	3329	2737	592	J-55	54.5	OTHER - BTC	4.32	2.39	DRY	26.44	DRY	26.44
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3821	0	3821	3315	-492	3821	J-55	40	OTHER - BTC	2.21	1.76	DRY	4.12	DRY	4.12
3	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9860	0	9860	3315	-6531	9860	L-80	29.7	OTHER - FLUSH JOINT	3.68	2.17	DRY	2.3	DRY	2.3
4	PRODUCTION	6.75	5.5	NEW	API	Y	0	24001	0	10592	3315	-7263	24001	P-110	20	OTHER - SEMI-FLUSH	2.02	1.05	DRY	4.23	DRY	4.23

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_804H_Csg_20230621190458.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_804H_Csg_20230621190618.pdf

Casing ID: 3StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

JRU_7_Sawtooth_804H_Csg_20230621190650.pdf

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_804H_Cmt_20230621190711.pdf

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

JRU_7_Sawtooth_804H_Csg_20230621190807.pdf

Casing Design Assumptions and Worksheet(s):

JRU_7_Sawtooth_804H_Csg_20230621190831.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** JAMES RANCH UNIT DI 7 SAWTOOTH**Well Number:** 804H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	592	210	1.87	12.9	393	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	592	300	1.35	14.8	405	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3821	1580	1.39	12.9	2196.2	100	Class C	NA
INTERMEDIATE	Tail		0	3807	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	9860	460	1.35	14.8	639.4	100	Class C	NA
INTERMEDIATE	Tail		0	9860	410	1.33	14.8	545	100	Class C	NA
PRODUCTION	Lead		0	2400 1	980	2.69	11.5	2636	20	NeoCem	NA
PRODUCTION	Tail		0	2400 1	980	1.51	13.2	1480	20	VersaCem	NA

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9860	2400 1	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 to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.
0	592	OTHER : FW / Native	8.5	9							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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** JAMES RANCH UNIT DI 7 SAWTOOTH**Well Number:** 804H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.
592	3821	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 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.
3821	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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** JAMES RANCH UNIT DI 7 SAWTOOTH**Well Number:** 804H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	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.

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: 5508

Anticipated Surface Pressure: 3197

Anticipated Bottom Hole Temperature(F): 190

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

JRU_7_Sawtooth_H2S_Plan_20230616113012.pdf

JRU_7_Sawtooth_H2S_DiaA_20240204165843.pdf

JRU_7_Sawtooth_H2S_DiaD_20240204165843.pdf

JRU_7_Sawtooth_H2S_DiaB_20240204165843.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

JRU_7_Sawtooth_H2S_DiaC_20240204165843.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JRU_7_Sawtooth_804H_DD_20230621191613.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JRU_7_Sawtooth_804H_Cmt_20230621191624.pdf

Other Variance attachment:

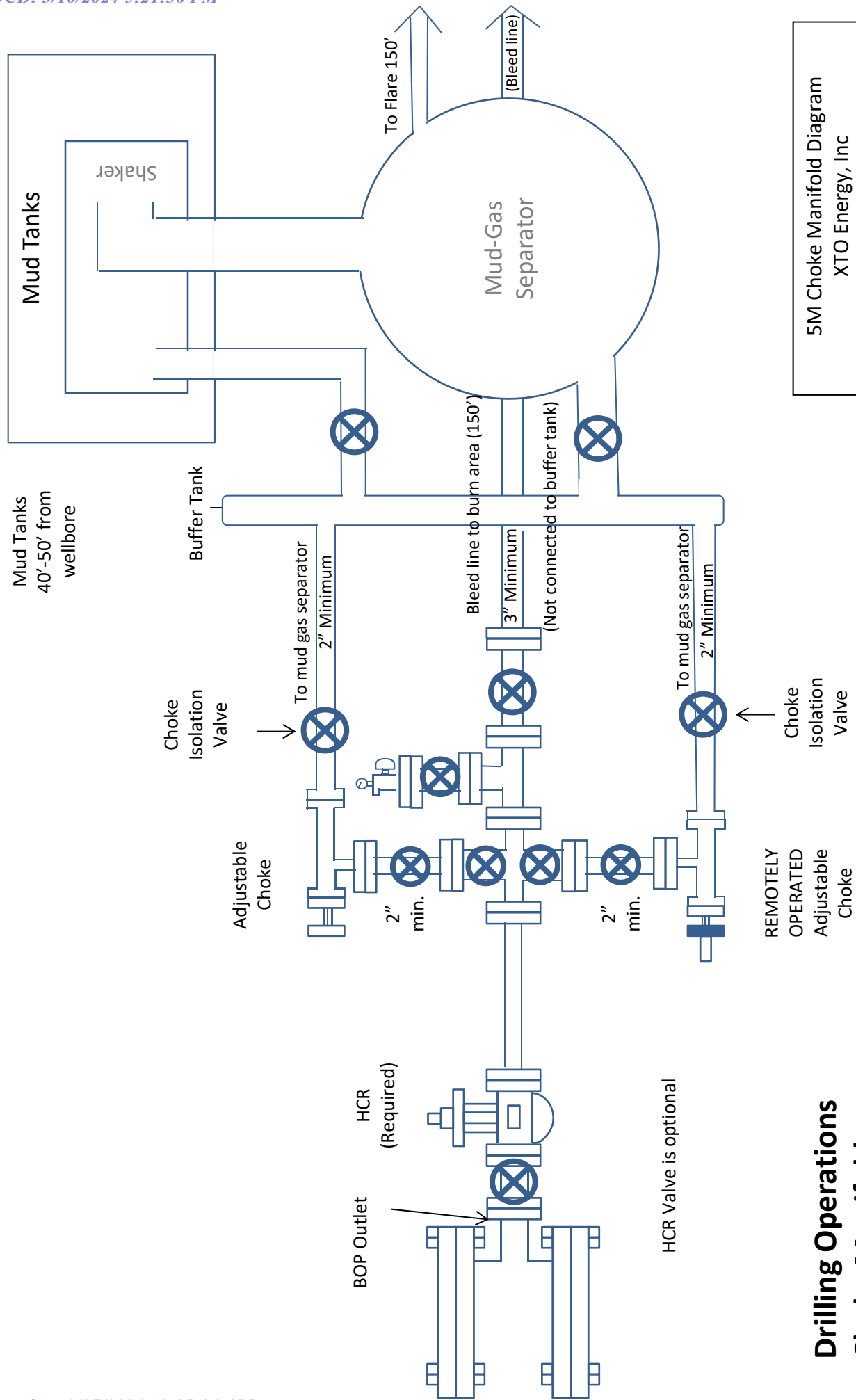
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JRU_7_Sawtooth_OLCV_20230616113403.pdf

JRU_7_Sawtooth_Spud_20230616113403.pdf

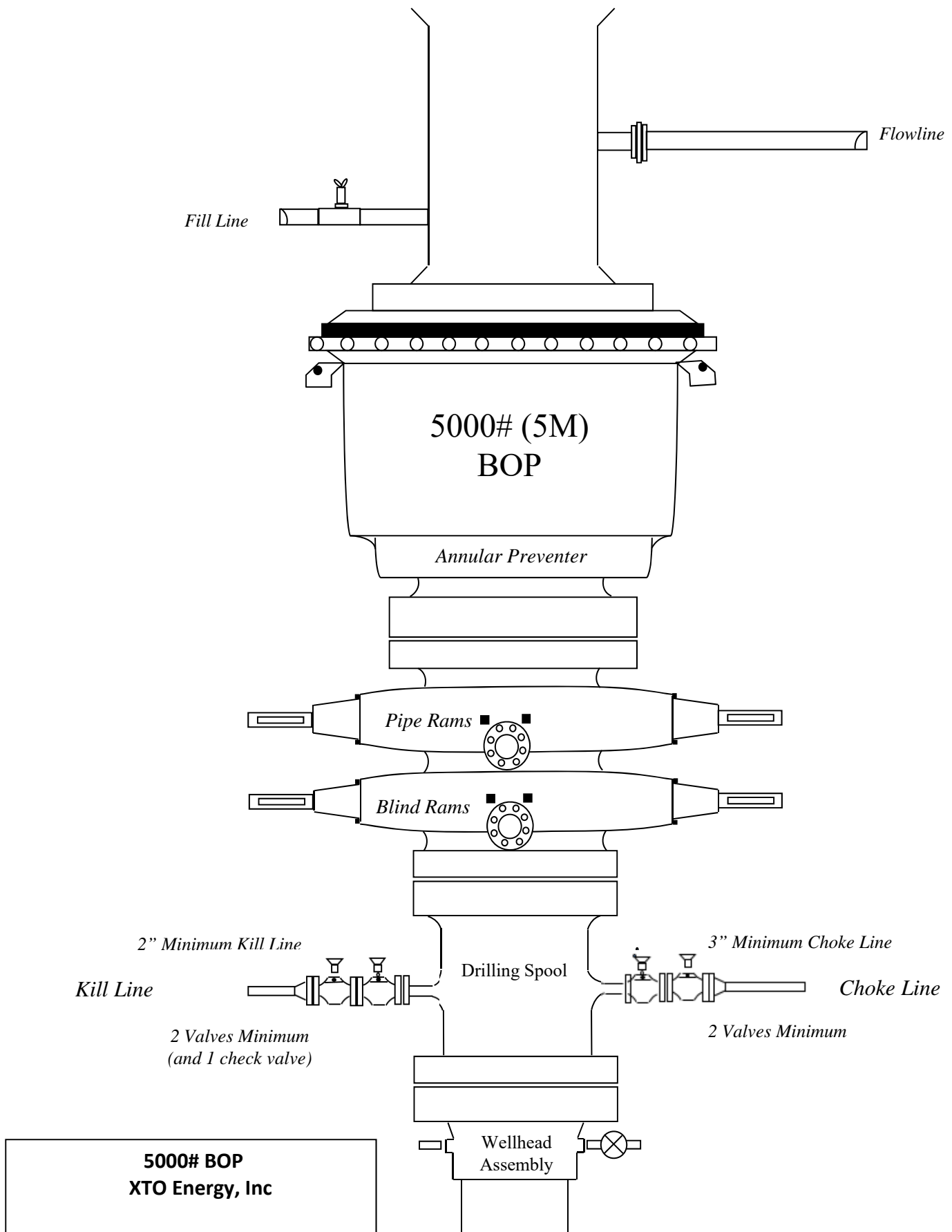
JRU_7_Sawtooth_MBS__2__20230621153846.pdf

BOP_Variance_new_Language_BOP_BTV_20240113220434.pdf



5M Choke Manifold Diagram
XTO Energy, Inc

Drilling Operations
Choke Manifold
5M Service



Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 592'	13.375	54.5	J-55	BTC	New	2.39	4.32	26.44
12.25	0' – 3821'	9.625	40	J-55	BTC	New	1.76	2.21	4.12
8.75	0' – 3921'	7.625	29.7	RY P-110	Flush Joint	New	2.98	3.05	1.91
8.75	3921' – 9860'	7.625	29.7	HC L-80	Flush Joint	New	2.17	3.68	2.30
6.75	0' – 9760'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.19	2.05
6.75	9760' - 24001'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.02	4.23

1

1

1

1

1

1



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

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe@s@gates.com
WEB: www.gates.com

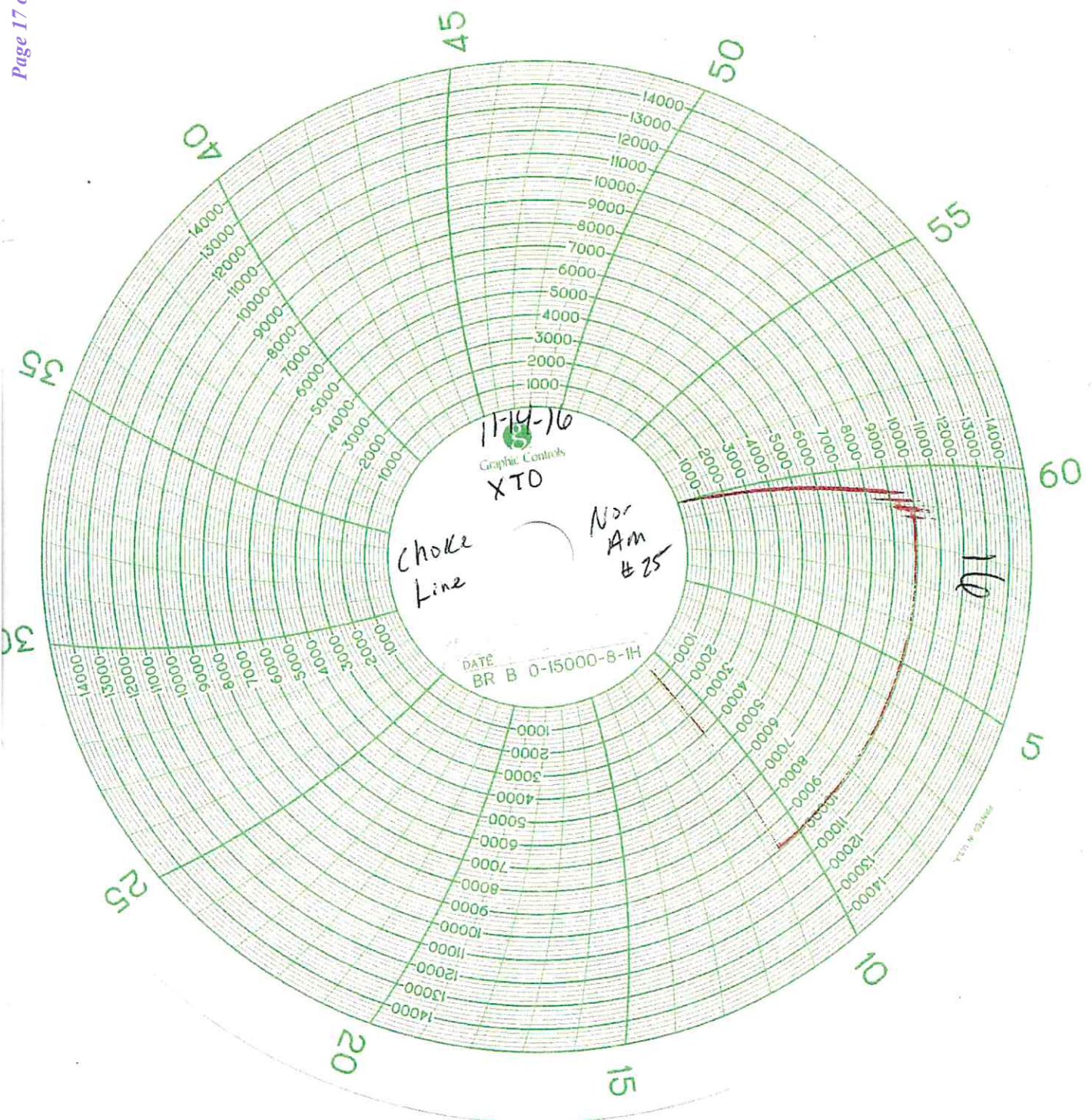
GRADE D PRESSURE TEST CERTIFICATE

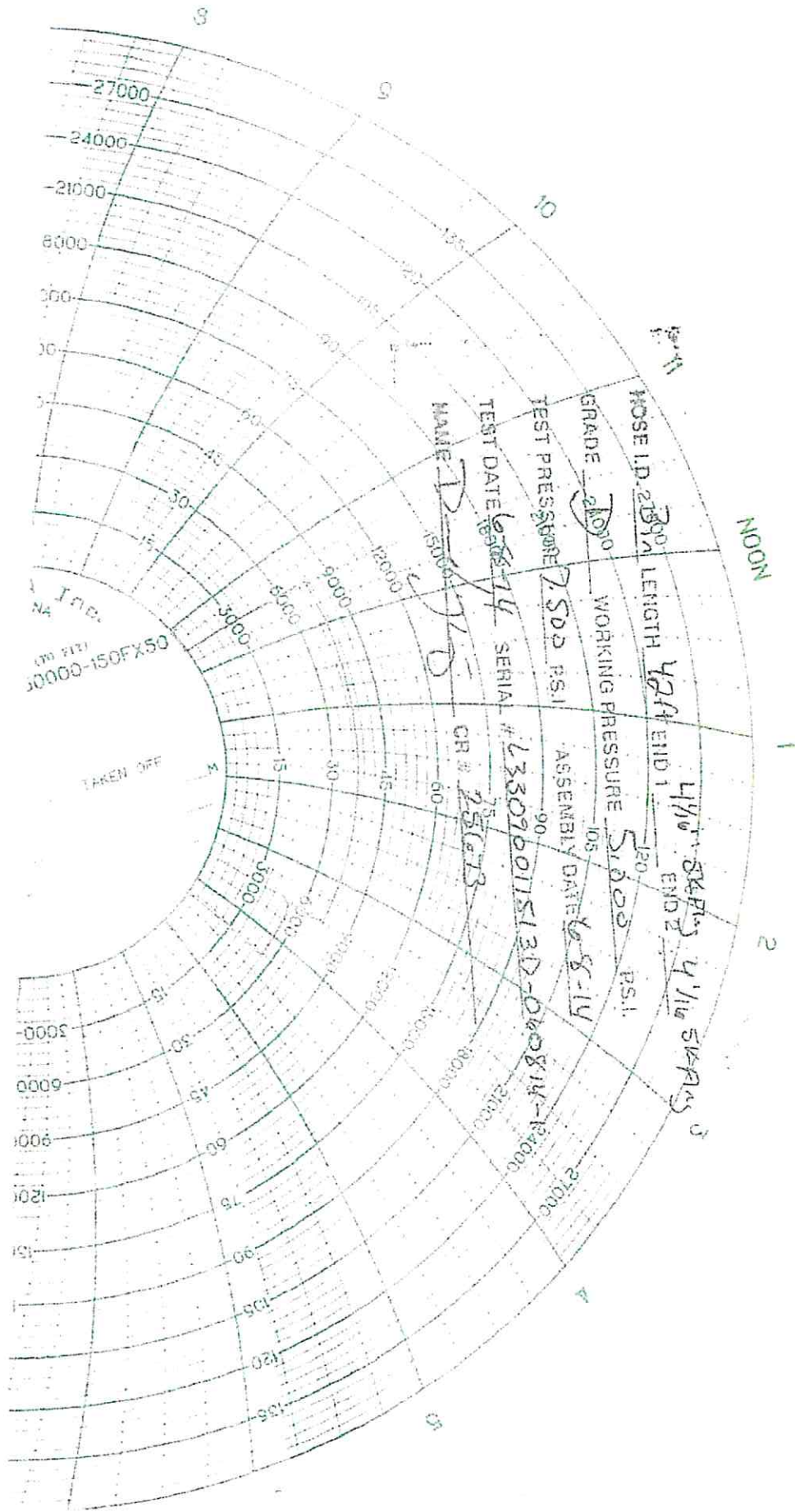
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	

Form PTC - 01 Rev.0 2





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.

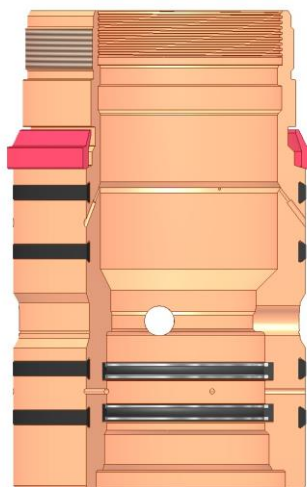
1. Cement Program

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 nippedled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request

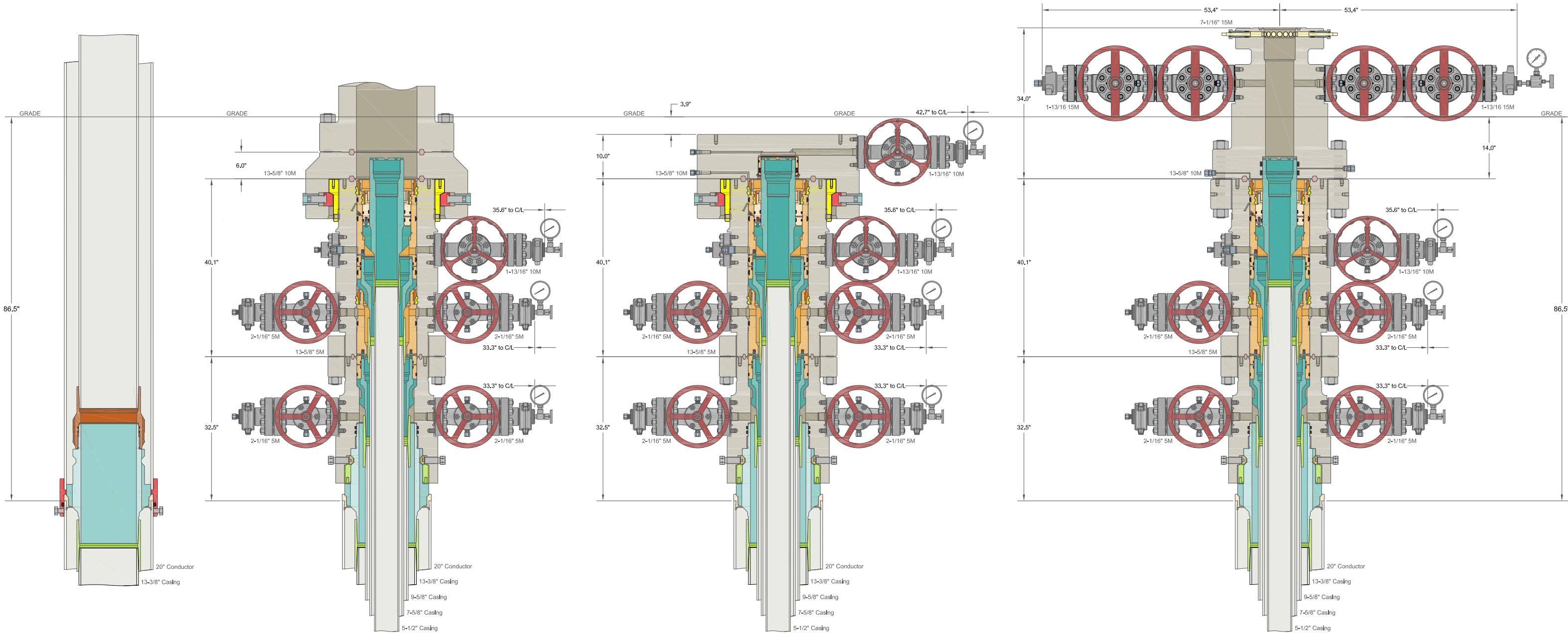
Wellhead diagram during offline cementing operations

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

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

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped 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.



CACTUS WELLHEAD LLC		XTO ENERGY INC DELAWARE BASIN	
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations		DRAWN APPRV	VJK 31MAR22
		DRAWING NO. SDT-3301	

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

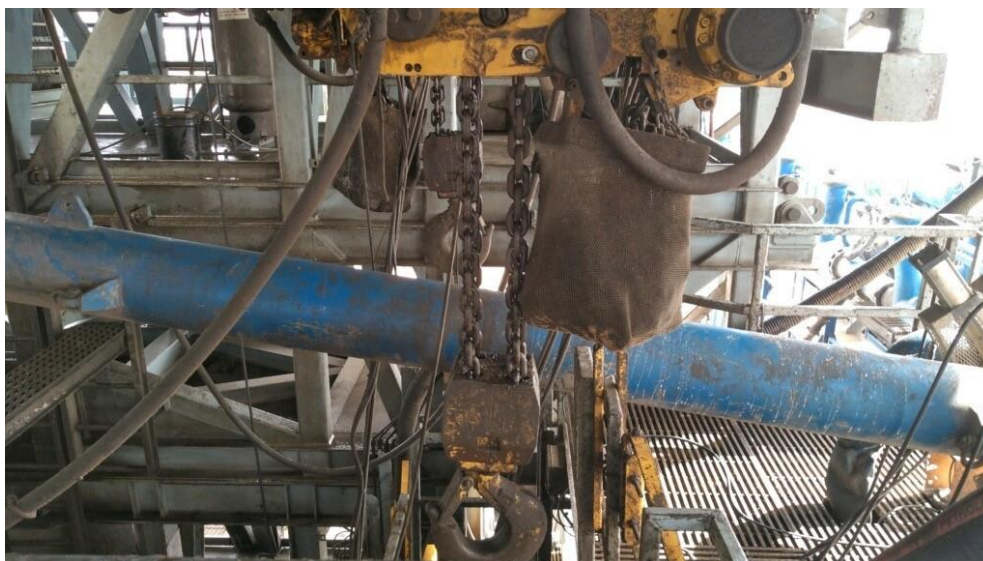


Figure 2: BOP Winch System

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 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^a	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	ITP
Choke manifold—upstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

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 0and 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

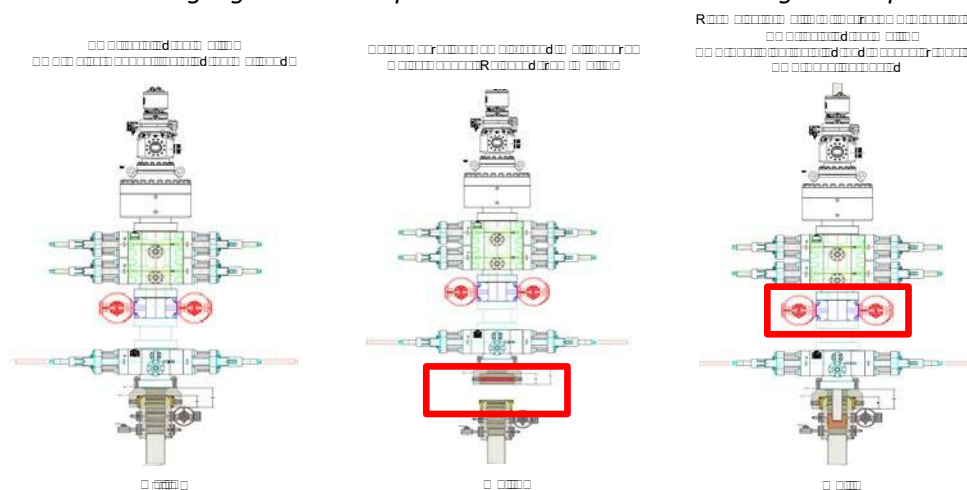
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

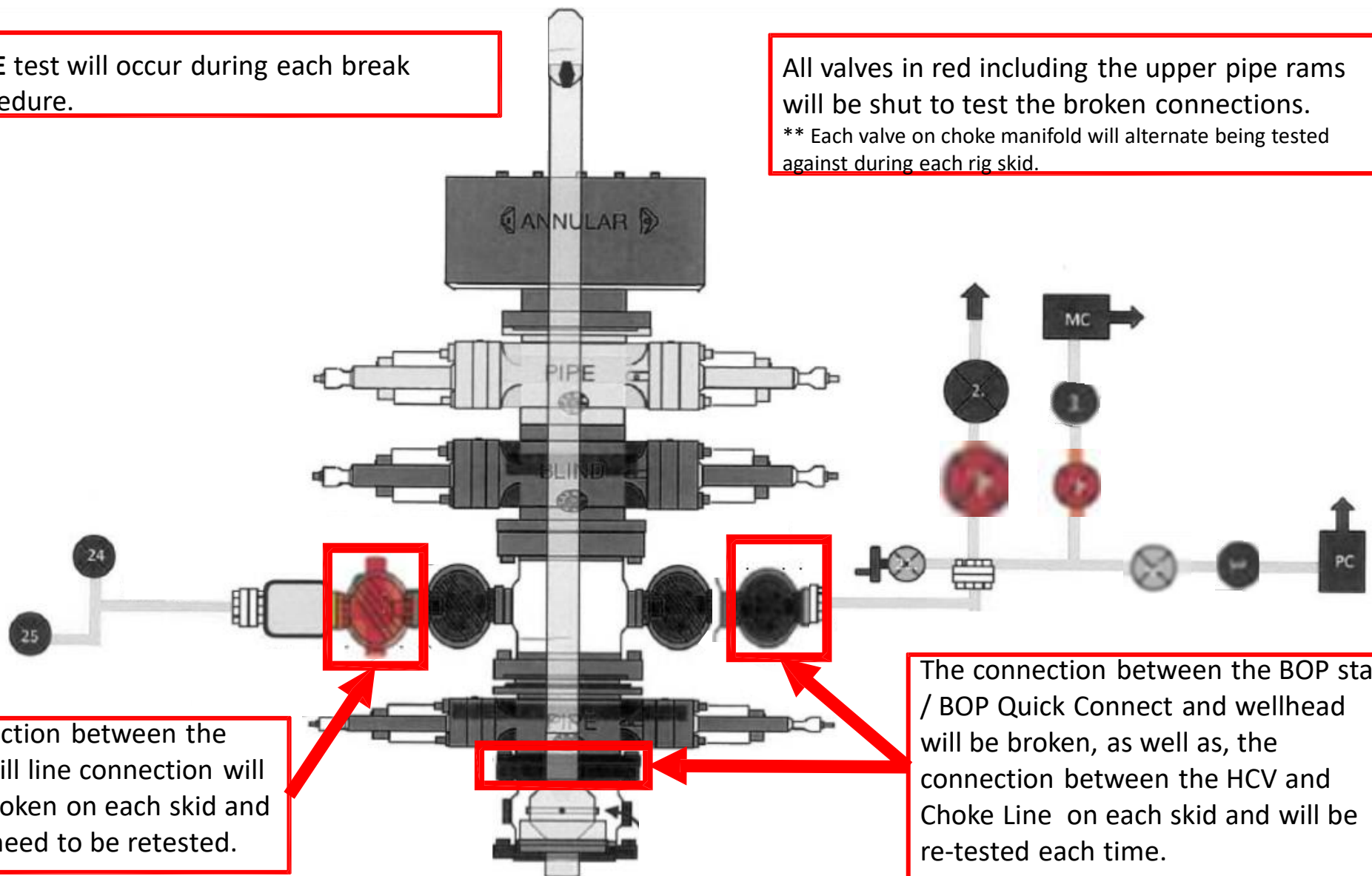
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.



XTO Energy

**EDDY COUNTY, NM (NAD-27)
JAMES RANCH UNIT DI 7 SAWTOOTH
804H**

Wellbore #1

Plan: PERMIT

Standard Planning Report

21 November, 2022



Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: EDDY COUNTY, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: 804H

		Rig Name: TBD	
		RKB = 32' @ 3361.00usft (TBD)	
		Ground Level: 3329.00	
+N/-S	+E/-W	Northing	Easting
0.00	0.00	487877.90	661937.90
		Latitude	Longitude
		32.3402025	-103.8090020

SECTION DETAILS

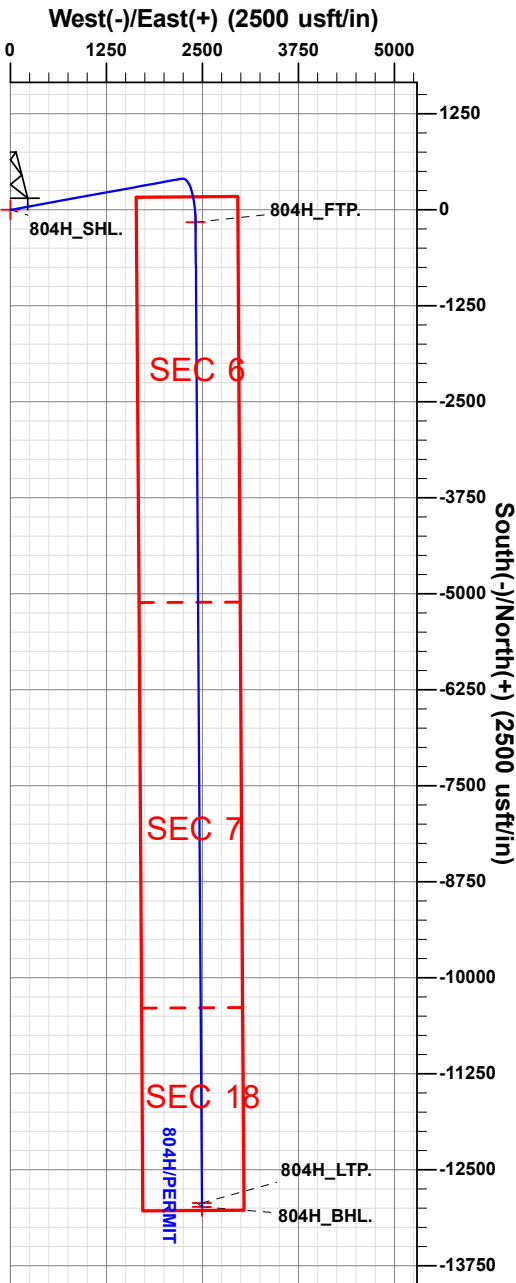
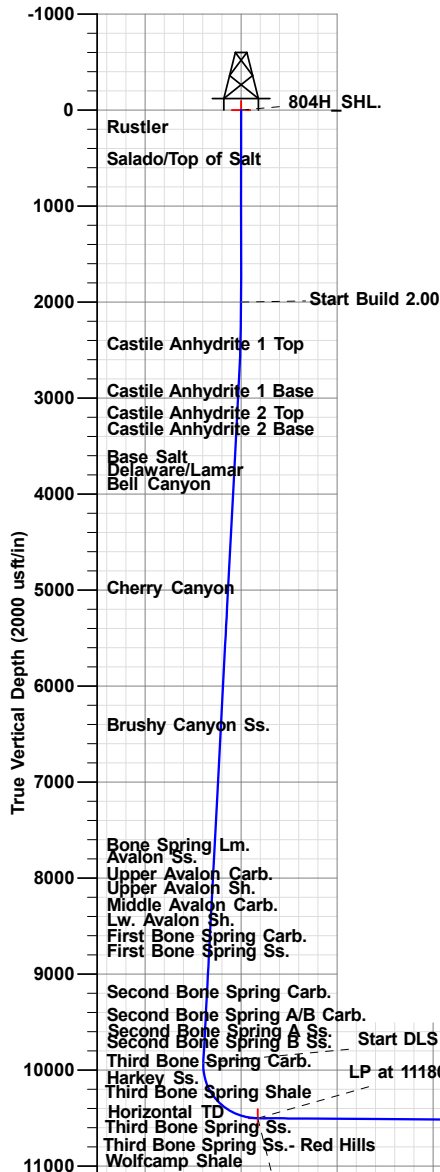
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2842.97	16.86	79.69	2830.86	22.04	121.14	2.00	79.69	-21.26	
4	10255.90	16.86	79.69	9925.17	406.86	2236.36	0.00	0.00	-392.41	
5	11180.73	89.60	179.63	10502.00	-160.40	2411.00	10.00	99.63	175.97	804H_FTP.
6	23951.22	89.60	179.63	10591.65	-12930.30	2494.37	0.00	0.00	12946.14	804H_LTP.
7	24001.22	89.60	179.63	10592.00	-12980.30	2494.70	0.00	0.00	12996.14	804H_BHL.

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
804H_SHL.	0.00	0.00	0.00	487877.90	661937.90	32.3402025	-103.8090020
804H_FTP.	10502.00	-160.40	2411.00	487717.50	664348.90	32.3397289	-103.8011984
804H_LTP.	10591.65	-12930.30	2494.50	474947.60	664432.40	32.3046254	-103.8011334
804H_BHL.	10592.00	-12980.30	2494.70	474897.60	664432.60	32.3044880	-103.8011336

FORMATION TOP DETAILS

TVDPATH	Formation
279.00	Rustler
617.00	Salado/Top of Salt
2537.00	Castile Anhydrite 1 Top
3028.00	Castile Anhydrite 1 Base
3258.00	Castile Anhydrite 2 Top
3363.00	Castile Anhydrite 2 Base
3721.00	Base Salt
3961.00	Delaware/Lamar
3994.00	Bell Canyon
5084.00	Cherry Canyon
6511.00	Brushy Canyon Ss.
7834.00	Bone Spring Lm.
7881.00	Avalon Ss.
8138.00	Upper Avalon Carb.
8210.00	Upper Avalon Sh.
8379.00	Middle Avalon Carb.
8454.00	Lw. Avalon Sh.
8783.00	First Bone Spring Carb.
8863.00	First Bone Spring Ss.
9293.00	Second Bone Spring Carb.
9673.00	Second Bone Spring A Ss.
9751.00	Second Bone Spring A/B Carb.
9813.00	Second Bone Spring B Ss.
9965.00	Third Bone Spring Carb.
10181.00	Harkey Ss.
10262.00	Third Bone Spring Shale
10502.00	Horizontal Landing Point
10592.00	Horizontal TD





Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3361.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	MD Reference:	RKB = 32' @ 3361.00usft (TBD)
Site:	JAMES RANCH UNIT DI 7 SAWTOOTH	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project	EDDY COUNTY, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site						JAMES RANCH UNIT DI 7 SAWTOOTH											
Site Position:			Northing:			487,779.90 usft			Latitude:			32.3399854					
From:			Map			Easting:			658,009.00 usft			Longitude:			-103.8217243		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.27		

Well	804H					
Well Position	+N/-S	98.00 usft	Northing:	487,877.90 usft	Latitude:	32.3402025
	+E/-W	3,928.90 usft	Easting:	661,937.90 usft	Longitude:	-103.8090020
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,329.00 usft

Design	PERMIT			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.63

Plan Sections										
Measured 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	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,842.97	16.86	79.69	2,830.86	22.04	121.14	2.00	2.00	0.00	79.69	
10,255.90	16.86	79.69	9,925.17	406.86	2,236.36	0.00	0.00	0.00	0.00	
11,180.73	89.60	179.63	10,502.00	-160.40	2,411.00	10.00	7.87	10.81	99.63	804H_FTP.
23,951.22	89.60	179.63	10,591.65	-12,930.30	2,494.37	0.00	0.00	0.00	0.00	804H_LTP.
24,001.22	89.60	179.63	10,592.00	-12,980.30	2,494.70	0.00	0.00	0.00	0.00	804H_BHL.



Planning Report

Database: EDM 5000.1.13 Single User Db
Company: XTO Energy
Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
TVD Reference: RKB = 32' @ 3361.00usft (TBD)
MD Reference: RKB = 32' @ 3361.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
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
804H_SHL.									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
279.00	0.00	0.00	279.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
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	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
617.00	0.00	0.00	617.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado/Top of Salt									
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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
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
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	79.69	2,099.98	0.31	1.72	-0.30	2.00	2.00	0.00
2,200.00	4.00	79.69	2,199.84	1.25	6.87	-1.20	2.00	2.00	0.00
2,300.00	6.00	79.69	2,299.45	2.81	15.44	-2.71	2.00	2.00	0.00
2,400.00	8.00	79.69	2,398.70	4.99	27.43	-4.81	2.00	2.00	0.00
2,500.00	10.00	79.69	2,497.47	7.79	42.82	-7.51	2.00	2.00	0.00
2,540.20	10.80	79.69	2,537.00	9.09	49.96	-8.77	2.00	2.00	0.00
Castile Anhydrite 1 Top									
2,600.00	12.00	79.69	2,595.62	11.21	61.59	-10.81	2.00	2.00	0.00
2,700.00	14.00	79.69	2,693.06	15.23	83.72	-14.69	2.00	2.00	0.00
2,800.00	16.00	79.69	2,789.64	19.86	109.18	-19.16	2.00	2.00	0.00
2,842.97	16.86	79.69	2,830.86	22.04	121.14	-21.26	2.00	2.00	0.00
2,900.00	16.86	79.69	2,885.44	25.00	137.42	-24.11	0.00	0.00	0.00
3,000.00	16.86	79.69	2,981.14	30.19	165.95	-29.12	0.00	0.00	0.00
3,048.97	16.86	79.69	3,028.00	32.73	179.92	-31.57	0.00	0.00	0.00
Castile Anhydrite 1 Base									
3,100.00	16.86	79.69	3,076.84	35.38	194.48	-34.13	0.00	0.00	0.00
3,200.00	16.86	79.69	3,172.54	40.57	223.02	-39.13	0.00	0.00	0.00
3,289.30	16.86	79.69	3,258.00	45.21	248.50	-43.60	0.00	0.00	0.00
Castile Anhydrite 2 Top									
3,300.00	16.86	79.69	3,268.24	45.76	251.55	-44.14	0.00	0.00	0.00
3,399.01	16.86	79.69	3,363.00	50.90	279.80	-49.10	0.00	0.00	0.00
Castile Anhydrite 2 Base									
3,400.00	16.86	79.69	3,363.95	50.96	280.09	-49.15	0.00	0.00	0.00
3,500.00	16.86	79.69	3,459.65	56.15	308.62	-54.15	0.00	0.00	0.00
3,600.00	16.86	79.69	3,555.35	61.34	337.15	-59.16	0.00	0.00	0.00
3,700.00	16.86	79.69	3,651.05	66.53	365.69	-64.17	0.00	0.00	0.00
3,773.09	16.86	79.69	3,721.00	70.32	386.54	-67.83	0.00	0.00	0.00



Planning Report

Database: EDM 5000.1.13 Single User Db
Company: XTO Energy
Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
TVD Reference: RKB = 32' @ 3361.00usft (TBD)
MD Reference: RKB = 32' @ 3361.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
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)
Base Salt									
3,800.00	16.86	79.69	3,746.75	71.72	394.22	-69.17	0.00	0.00	0.00
3,900.00	16.86	79.69	3,842.46	76.91	422.76	-74.18	0.00	0.00	0.00
4,000.00	16.86	79.69	3,938.16	82.10	451.29	-79.19	0.00	0.00	0.00
4,023.87	16.86	79.69	3,961.00	83.34	458.10	-80.38	0.00	0.00	0.00
Delaware/Lamar									
4,058.35	16.86	79.69	3,994.00	85.13	467.94	-82.11	0.00	0.00	0.00
Bell Canyon									
4,100.00	16.86	79.69	4,033.86	87.29	479.83	-84.19	0.00	0.00	0.00
4,200.00	16.86	79.69	4,129.56	92.48	508.36	-89.20	0.00	0.00	0.00
4,300.00	16.86	79.69	4,225.26	97.68	536.89	-94.21	0.00	0.00	0.00
4,400.00	16.86	79.69	4,320.97	102.87	565.43	-99.21	0.00	0.00	0.00
4,500.00	16.86	79.69	4,416.67	108.06	593.96	-104.22	0.00	0.00	0.00
4,600.00	16.86	79.69	4,512.37	113.25	622.50	-109.23	0.00	0.00	0.00
4,700.00	16.86	79.69	4,608.07	118.44	651.03	-114.23	0.00	0.00	0.00
4,800.00	16.86	79.69	4,703.77	123.63	679.56	-119.24	0.00	0.00	0.00
4,900.00	16.86	79.69	4,799.47	128.82	708.10	-124.25	0.00	0.00	0.00
5,000.00	16.86	79.69	4,895.18	134.01	736.63	-129.25	0.00	0.00	0.00
5,100.00	16.86	79.69	4,990.88	139.21	765.17	-134.26	0.00	0.00	0.00
5,197.30	16.86	79.69	5,084.00	144.26	792.93	-139.13	0.00	0.00	0.00
Cherry Canyon									
5,200.00	16.86	79.69	5,086.58	144.40	793.70	-139.27	0.00	0.00	0.00
5,300.00	16.86	79.69	5,182.28	149.59	822.24	-144.27	0.00	0.00	0.00
5,400.00	16.86	79.69	5,277.98	154.78	850.77	-149.28	0.00	0.00	0.00
5,500.00	16.86	79.69	5,373.69	159.97	879.30	-154.29	0.00	0.00	0.00
5,600.00	16.86	79.69	5,469.39	165.16	907.84	-159.30	0.00	0.00	0.00
5,700.00	16.86	79.69	5,565.09	170.35	936.37	-164.30	0.00	0.00	0.00
5,800.00	16.86	79.69	5,660.79	175.54	964.91	-169.31	0.00	0.00	0.00
5,900.00	16.86	79.69	5,756.49	180.73	993.44	-174.32	0.00	0.00	0.00
6,000.00	16.86	79.69	5,852.20	185.93	1,021.97	-179.32	0.00	0.00	0.00
6,100.00	16.86	79.69	5,947.90	191.12	1,050.51	-184.33	0.00	0.00	0.00
6,200.00	16.86	79.69	6,043.60	196.31	1,079.04	-189.34	0.00	0.00	0.00
6,300.00	16.86	79.69	6,139.30	201.50	1,107.58	-194.34	0.00	0.00	0.00
6,400.00	16.86	79.69	6,235.00	206.69	1,136.11	-199.35	0.00	0.00	0.00
6,500.00	16.86	79.69	6,330.70	211.88	1,164.65	-204.36	0.00	0.00	0.00
6,600.00	16.86	79.69	6,426.41	217.07	1,193.18	-209.36	0.00	0.00	0.00
6,688.39	16.86	79.69	6,511.00	221.66	1,218.40	-213.79	0.00	0.00	0.00
Brushy Canyon Ss.									
6,700.00	16.86	79.69	6,522.11	222.26	1,221.71	-214.37	0.00	0.00	0.00
6,800.00	16.86	79.69	6,617.81	227.45	1,250.25	-219.38	0.00	0.00	0.00
6,900.00	16.86	79.69	6,713.51	232.65	1,278.78	-224.38	0.00	0.00	0.00
7,000.00	16.86	79.69	6,809.21	237.84	1,307.32	-229.39	0.00	0.00	0.00
7,100.00	16.86	79.69	6,904.92	243.03	1,335.85	-234.40	0.00	0.00	0.00
7,200.00	16.86	79.69	7,000.62	248.22	1,364.38	-239.40	0.00	0.00	0.00
7,300.00	16.86	79.69	7,096.32	253.41	1,392.92	-244.41	0.00	0.00	0.00
7,400.00	16.86	79.69	7,192.02	258.60	1,421.45	-249.42	0.00	0.00	0.00
7,500.00	16.86	79.69	7,287.72	263.79	1,449.99	-254.42	0.00	0.00	0.00
7,600.00	16.86	79.69	7,383.43	268.98	1,478.52	-259.43	0.00	0.00	0.00
7,700.00	16.86	79.69	7,479.13	274.18	1,507.06	-264.44	0.00	0.00	0.00
7,800.00	16.86	79.69	7,574.83	279.37	1,535.59	-269.44	0.00	0.00	0.00
7,900.00	16.86	79.69	7,670.53	284.56	1,564.12	-274.45	0.00	0.00	0.00
8,000.00	16.86	79.69	7,766.23	289.75	1,592.66	-279.46	0.00	0.00	0.00
8,070.81	16.86	79.69	7,834.00	293.42	1,612.86	-283.00	0.00	0.00	0.00



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Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
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Planned Survey									
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)
Bone Spring Lm.									
8,100.00	16.86	79.69	7,861.94	294.94	1,621.19	-284.46	0.00	0.00	0.00
8,119.92	16.86	79.69	7,881.00	295.97	1,626.88	-285.46	0.00	0.00	0.00
Avalon Ss.									
8,200.00	16.86	79.69	7,957.64	300.13	1,649.73	-289.47	0.00	0.00	0.00
8,300.00	16.86	79.69	8,053.34	305.32	1,678.26	-294.48	0.00	0.00	0.00
8,388.46	16.86	79.69	8,138.00	309.91	1,703.50	-298.91	0.00	0.00	0.00
Upper Avalon Carb.									
8,400.00	16.86	79.69	8,149.04	310.51	1,706.80	-299.49	0.00	0.00	0.00
8,463.70	16.86	79.69	8,210.00	313.82	1,724.97	-302.67	0.00	0.00	0.00
Upper Avalon Sh.									
8,500.00	16.86	79.69	8,244.74	315.70	1,735.33	-304.49	0.00	0.00	0.00
8,600.00	16.86	79.69	8,340.44	320.90	1,763.86	-309.50	0.00	0.00	0.00
8,640.29	16.86	79.69	8,379.00	322.99	1,775.36	-311.52	0.00	0.00	0.00
Middle Avalon Carb.									
8,700.00	16.86	79.69	8,436.15	326.09	1,792.40	-314.51	0.00	0.00	0.00
8,718.66	16.86	79.69	8,454.00	327.06	1,797.72	-315.44	0.00	0.00	0.00
Lw. Avalon Sh.									
8,800.00	16.86	79.69	8,531.85	331.28	1,820.93	-319.51	0.00	0.00	0.00
8,900.00	16.86	79.69	8,627.55	336.47	1,849.47	-324.52	0.00	0.00	0.00
9,000.00	16.86	79.69	8,723.25	341.66	1,878.00	-329.53	0.00	0.00	0.00
9,062.43	16.86	79.69	8,783.00	344.90	1,895.81	-332.65	0.00	0.00	0.00
First Bone Spring Carb.									
9,100.00	16.86	79.69	8,818.95	346.85	1,906.53	-334.53	0.00	0.00	0.00
9,146.02	16.86	79.69	8,863.00	349.24	1,919.67	-336.84	0.00	0.00	0.00
First Bone Spring Ss.									
9,200.00	16.86	79.69	8,914.66	352.04	1,935.07	-339.54	0.00	0.00	0.00
9,300.00	16.86	79.69	9,010.36	357.23	1,963.60	-344.55	0.00	0.00	0.00
9,400.00	16.86	79.69	9,106.06	362.43	1,992.14	-349.55	0.00	0.00	0.00
9,500.00	16.86	79.69	9,201.76	367.62	2,020.67	-354.56	0.00	0.00	0.00
9,595.34	16.86	79.69	9,293.00	372.57	2,047.87	-359.33	0.00	0.00	0.00
Second Bone Spring Carb.									
9,600.00	16.86	79.69	9,297.46	372.81	2,049.21	-359.57	0.00	0.00	0.00
9,700.00	16.86	79.69	9,393.17	378.00	2,077.74	-364.57	0.00	0.00	0.00
9,800.00	16.86	79.69	9,488.87	383.19	2,106.27	-369.58	0.00	0.00	0.00
9,900.00	16.86	79.69	9,584.57	388.38	2,134.81	-374.59	0.00	0.00	0.00
9,992.40	16.86	79.69	9,673.00	393.18	2,161.17	-379.21	0.00	0.00	0.00
Second Bone Spring A Ss.									
10,000.00	16.86	79.69	9,680.27	393.57	2,163.34	-379.59	0.00	0.00	0.00
10,073.91	16.86	79.69	9,751.00	397.41	2,184.43	-383.29	0.00	0.00	0.00
Second Bone Spring A/B Carb.									
10,100.00	16.86	79.69	9,775.97	398.76	2,191.88	-384.60	0.00	0.00	0.00
10,138.69	16.86	79.69	9,813.00	400.77	2,202.92	-386.54	0.00	0.00	0.00
Second Bone Spring B Ss.									
10,200.00	16.86	79.69	9,871.68	403.95	2,220.41	-389.61	0.00	0.00	0.00
10,255.90	16.86	79.69	9,925.17	406.86	2,236.36	-392.41	0.00	0.00	0.00
10,297.48	16.66	94.13	9,965.00	407.51	2,248.24	-392.98	10.00	-0.48	34.72
Third Bone Spring Carb.									
10,300.00	16.68	95.00	9,967.42	407.45	2,248.96	-392.92	10.00	0.80	34.75
10,350.00	17.81	111.49	10,015.20	404.02	2,263.24	-389.40	10.00	2.26	32.98
10,400.00	20.12	125.20	10,062.50	396.26	2,277.39	-381.54	10.00	4.62	27.41
10,450.00	23.26	135.77	10,108.98	384.22	2,291.31	-369.42	10.00	6.28	21.15



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Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
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Planned Survey										
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	26.93	143.78	10,154.26	368.00	2,304.89	-353.11	10.00	7.36	16.02	
10,530.32	29.34	147.69	10,181.00	356.18	2,312.92	-341.24	10.00	7.95	12.89	
Harkey Ss.										
10,550.00	30.96	149.92	10,198.02	347.72	2,318.04	-332.75	10.00	8.22	11.34	
10,600.00	35.22	154.74	10,239.91	323.54	2,330.65	-308.48	10.00	8.51	9.64	
10,627.46	37.62	156.97	10,262.00	308.67	2,337.30	-293.57	10.00	8.76	8.12	
Third Bone Spring Shale										
10,650.00	39.63	158.62	10,279.61	295.64	2,342.62	-280.50	10.00	8.89	7.34	
10,700.00	44.14	161.84	10,316.83	264.23	2,353.86	-249.02	10.00	9.03	6.43	
10,750.00	48.74	164.57	10,351.28	229.55	2,364.30	-214.27	10.00	9.19	5.46	
10,800.00	53.39	166.94	10,382.70	191.86	2,373.84	-176.53	10.00	9.30	4.73	
10,850.00	58.08	169.03	10,410.85	151.46	2,382.42	-136.07	10.00	9.38	4.19	
10,900.00	62.80	170.92	10,435.51	108.64	2,389.97	-93.21	10.00	9.44	3.78	
10,950.00	67.54	172.66	10,456.50	63.74	2,396.43	-48.27	10.00	9.49	3.47	
11,000.00	72.31	174.28	10,473.66	17.10	2,401.76	-1.59	10.00	9.52	3.24	
11,050.00	77.08	175.82	10,486.86	-30.93	2,405.91	46.47	10.00	9.55	3.08	
11,100.00	81.86	177.30	10,495.99	-79.99	2,408.85	95.54	10.00	9.57	2.96	
11,150.00	86.65	178.75	10,500.99	-129.69	2,410.56	145.25	10.00	9.58	2.89	
11,180.73	89.60	179.63	10,502.00	-160.40	2,411.00	175.97	10.00	9.58	2.86	
Horizontal Landing Point - 804H_FTP.										
11,200.00	89.60	179.63	10,502.14	-179.67	2,411.13	195.23	0.00	0.00	0.00	
11,300.00	89.60	179.63	10,502.84	-279.66	2,411.78	295.23	0.00	0.00	0.00	
11,400.00	89.60	179.63	10,503.54	-379.66	2,412.43	395.23	0.00	0.00	0.00	
11,500.00	89.60	179.63	10,504.24	-479.65	2,413.08	495.23	0.00	0.00	0.00	
11,600.00	89.60	179.63	10,504.94	-579.65	2,413.74	595.22	0.00	0.00	0.00	
11,700.00	89.60	179.63	10,505.65	-679.64	2,414.39	695.22	0.00	0.00	0.00	
11,800.00	89.60	179.63	10,506.35	-779.64	2,415.04	795.22	0.00	0.00	0.00	
11,900.00	89.60	179.63	10,507.05	-879.63	2,415.70	895.22	0.00	0.00	0.00	
12,000.00	89.60	179.63	10,507.75	-979.63	2,416.35	995.21	0.00	0.00	0.00	
12,100.00	89.60	179.63	10,508.45	-1,079.62	2,417.00	1,095.21	0.00	0.00	0.00	
12,200.00	89.60	179.63	10,509.16	-1,179.62	2,417.65	1,195.21	0.00	0.00	0.00	
12,300.00	89.60	179.63	10,509.86	-1,279.62	2,418.31	1,295.21	0.00	0.00	0.00	
12,400.00	89.60	179.63	10,510.56	-1,379.61	2,418.96	1,395.20	0.00	0.00	0.00	
12,500.00	89.60	179.63	10,511.26	-1,479.61	2,419.61	1,495.20	0.00	0.00	0.00	
12,600.00	89.60	179.63	10,511.96	-1,579.60	2,420.27	1,595.20	0.00	0.00	0.00	
12,700.00	89.60	179.63	10,512.67	-1,679.60	2,420.92	1,695.20	0.00	0.00	0.00	
12,800.00	89.60	179.63	10,513.37	-1,779.59	2,421.57	1,795.19	0.00	0.00	0.00	
12,900.00	89.60	179.63	10,514.07	-1,879.59	2,422.22	1,895.19	0.00	0.00	0.00	
13,000.00	89.60	179.63	10,514.77	-1,979.58	2,422.88	1,995.19	0.00	0.00	0.00	
13,100.00	89.60	179.63	10,515.47	-2,079.58	2,423.53	2,095.19	0.00	0.00	0.00	
13,200.00	89.60	179.63	10,516.18	-2,179.57	2,424.18	2,195.18	0.00	0.00	0.00	
13,300.00	89.60	179.63	10,516.88	-2,279.57	2,424.84	2,295.18	0.00	0.00	0.00	
13,400.00	89.60	179.63	10,517.58	-2,379.57	2,425.49	2,395.18	0.00	0.00	0.00	
13,500.00	89.60	179.63	10,518.28	-2,479.56	2,426.14	2,495.18	0.00	0.00	0.00	
13,600.00	89.60	179.63	10,518.98	-2,579.56	2,426.79	2,595.17	0.00	0.00	0.00	
13,700.00	89.60	179.63	10,519.69	-2,679.55	2,427.45	2,695.17	0.00	0.00	0.00	
13,800.00	89.60	179.63	10,520.39	-2,779.55	2,428.10	2,795.17	0.00	0.00	0.00	
13,900.00	89.60	179.63	10,521.09	-2,879.54	2,428.75	2,895.17	0.00	0.00	0.00	
14,000.00	89.60	179.63	10,521.79	-2,979.54	2,429.41	2,995.16	0.00	0.00	0.00	
14,100.00	89.60	179.63	10,522.49	-3,079.53	2,430.06	3,095.16	0.00	0.00	0.00	
14,200.00	89.60	179.63	10,523.20	-3,179.53	2,430.71	3,195.16	0.00	0.00	0.00	
14,300.00	89.60	179.63	10,523.90	-3,279.52	2,431.36	3,295.16	0.00	0.00	0.00	
14,400.00	89.60	179.63	10,524.60	-3,379.52	2,432.02	3,395.15	0.00	0.00	0.00	



Planning Report

Database: EDM 5000.1.13 Single User Db
Company: XTO Energy
Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
TVD Reference: RKB = 32' @ 3361.00usft (TBD)
MD Reference: RKB = 32' @ 3361.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
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)
14,500.00	89.60	179.63	10,525.30	-3,479.51	2,432.67	3,495.15	0.00	0.00	0.00
14,600.00	89.60	179.63	10,526.00	-3,579.51	2,433.32	3,595.15	0.00	0.00	0.00
14,700.00	89.60	179.63	10,526.71	-3,679.51	2,433.98	3,695.15	0.00	0.00	0.00
14,800.00	89.60	179.63	10,527.41	-3,779.50	2,434.63	3,795.14	0.00	0.00	0.00
14,900.00	89.60	179.63	10,528.11	-3,879.50	2,435.28	3,895.14	0.00	0.00	0.00
15,000.00	89.60	179.63	10,528.81	-3,979.49	2,435.93	3,995.14	0.00	0.00	0.00
15,100.00	89.60	179.63	10,529.51	-4,079.49	2,436.59	4,095.14	0.00	0.00	0.00
15,200.00	89.60	179.63	10,530.22	-4,179.48	2,437.24	4,195.13	0.00	0.00	0.00
15,300.00	89.60	179.63	10,530.92	-4,279.48	2,437.89	4,295.13	0.00	0.00	0.00
15,400.00	89.60	179.63	10,531.62	-4,379.47	2,438.55	4,395.13	0.00	0.00	0.00
15,500.00	89.60	179.63	10,532.32	-4,479.47	2,439.20	4,495.13	0.00	0.00	0.00
15,600.00	89.60	179.63	10,533.02	-4,579.46	2,439.85	4,595.12	0.00	0.00	0.00
15,700.00	89.60	179.63	10,533.73	-4,679.46	2,440.50	4,695.12	0.00	0.00	0.00
15,800.00	89.60	179.63	10,534.43	-4,779.45	2,441.16	4,795.12	0.00	0.00	0.00
15,900.00	89.60	179.63	10,535.13	-4,879.45	2,441.81	4,895.12	0.00	0.00	0.00
16,000.00	89.60	179.63	10,535.83	-4,979.45	2,442.46	4,995.11	0.00	0.00	0.00
16,100.00	89.60	179.63	10,536.53	-5,079.44	2,443.12	5,095.11	0.00	0.00	0.00
16,200.00	89.60	179.63	10,537.24	-5,179.44	2,443.77	5,195.11	0.00	0.00	0.00
16,300.00	89.60	179.63	10,537.94	-5,279.43	2,444.42	5,295.11	0.00	0.00	0.00
16,400.00	89.60	179.63	10,538.64	-5,379.43	2,445.07	5,395.10	0.00	0.00	0.00
16,500.00	89.60	179.63	10,539.34	-5,479.42	2,445.73	5,495.10	0.00	0.00	0.00
16,600.00	89.60	179.63	10,540.04	-5,579.42	2,446.38	5,595.10	0.00	0.00	0.00
16,700.00	89.60	179.63	10,540.75	-5,679.41	2,447.03	5,695.10	0.00	0.00	0.00
16,800.00	89.60	179.63	10,541.45	-5,779.41	2,447.69	5,795.09	0.00	0.00	0.00
16,900.00	89.60	179.63	10,542.15	-5,879.40	2,448.34	5,895.09	0.00	0.00	0.00
17,000.00	89.60	179.63	10,542.85	-5,979.40	2,448.99	5,995.09	0.00	0.00	0.00
17,100.00	89.60	179.63	10,543.55	-6,079.40	2,449.64	6,095.09	0.00	0.00	0.00
17,200.00	89.60	179.63	10,544.26	-6,179.39	2,450.30	6,195.08	0.00	0.00	0.00
17,300.00	89.60	179.63	10,544.96	-6,279.39	2,450.95	6,295.08	0.00	0.00	0.00
17,400.00	89.60	179.63	10,545.66	-6,379.38	2,451.60	6,395.08	0.00	0.00	0.00
17,500.00	89.60	179.63	10,546.36	-6,479.38	2,452.26	6,495.08	0.00	0.00	0.00
17,600.00	89.60	179.63	10,547.06	-6,579.37	2,452.91	6,595.08	0.00	0.00	0.00
17,700.00	89.60	179.63	10,547.77	-6,679.37	2,453.56	6,695.07	0.00	0.00	0.00
17,800.00	89.60	179.63	10,548.47	-6,779.36	2,454.21	6,795.07	0.00	0.00	0.00
17,900.00	89.60	179.63	10,549.17	-6,879.36	2,454.87	6,895.07	0.00	0.00	0.00
18,000.00	89.60	179.63	10,549.87	-6,979.35	2,455.52	6,995.07	0.00	0.00	0.00
18,100.00	89.60	179.63	10,550.57	-7,079.35	2,456.17	7,095.06	0.00	0.00	0.00
18,200.00	89.60	179.63	10,551.28	-7,179.34	2,456.83	7,195.06	0.00	0.00	0.00
18,300.00	89.60	179.63	10,551.98	-7,279.34	2,457.48	7,295.06	0.00	0.00	0.00
18,400.00	89.60	179.63	10,552.68	-7,379.34	2,458.13	7,395.06	0.00	0.00	0.00
18,500.00	89.60	179.63	10,553.38	-7,479.33	2,458.78	7,495.05	0.00	0.00	0.00
18,600.00	89.60	179.63	10,554.08	-7,579.33	2,459.44	7,595.05	0.00	0.00	0.00
18,700.00	89.60	179.63	10,554.79	-7,679.32	2,460.09	7,695.05	0.00	0.00	0.00
18,800.00	89.60	179.63	10,555.49	-7,779.32	2,460.74	7,795.05	0.00	0.00	0.00
18,900.00	89.60	179.63	10,556.19	-7,879.31	2,461.40	7,895.04	0.00	0.00	0.00
19,000.00	89.60	179.63	10,556.89	-7,979.31	2,462.05	7,995.04	0.00	0.00	0.00
19,100.00	89.60	179.63	10,557.59	-8,079.30	2,462.70	8,095.04	0.00	0.00	0.00
19,200.00	89.60	179.63	10,558.30	-8,179.30	2,463.35	8,195.04	0.00	0.00	0.00
19,300.00	89.60	179.63	10,559.00	-8,279.29	2,464.01	8,295.03	0.00	0.00	0.00
19,400.00	89.60	179.63	10,559.70	-8,379.29	2,464.66	8,395.03	0.00	0.00	0.00
19,500.00	89.60	179.63	10,560.40	-8,479.28	2,465.31	8,495.03	0.00	0.00	0.00
19,600.00	89.60	179.63	10,561.10	-8,579.28	2,465.97	8,595.03	0.00	0.00	0.00
19,700.00	89.60	179.63	10,561.81	-8,679.28	2,466.62	8,695.02	0.00	0.00	0.00
19,800.00	89.60	179.63	10,562.51	-8,779.27	2,467.27	8,795.02	0.00	0.00	0.00



Planning Report

Database: EDM 5000.1.13 Single User Db
Company: XTO Energy
Project: EDDY COUNTY, NM (NAD-27)
Site: JAMES RANCH UNIT DI 7 SAWTOOTH
Well: 804H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference: Well 804H
TVD Reference: RKB = 32' @ 3361.00usft (TBD)
MD Reference: RKB = 32' @ 3361.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey										
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)	
19,900.00	89.60	179.63	10,563.21	-8,879.27	2,467.92	8,895.02	0.00	0.00	0.00	
20,000.00	89.60	179.63	10,563.91	-8,979.26	2,468.58	8,995.02	0.00	0.00	0.00	
20,100.00	89.60	179.63	10,564.61	-9,079.26	2,469.23	9,095.01	0.00	0.00	0.00	
20,200.00	89.60	179.63	10,565.32	-9,179.25	2,469.88	9,195.01	0.00	0.00	0.00	
20,300.00	89.60	179.63	10,566.02	-9,279.25	2,470.54	9,295.01	0.00	0.00	0.00	
20,400.00	89.60	179.63	10,566.72	-9,379.24	2,471.19	9,395.01	0.00	0.00	0.00	
20,500.00	89.60	179.63	10,567.42	-9,479.24	2,471.84	9,495.00	0.00	0.00	0.00	
20,600.00	89.60	179.63	10,568.12	-9,579.23	2,472.49	9,595.00	0.00	0.00	0.00	
20,700.00	89.60	179.63	10,568.83	-9,679.23	2,473.15	9,695.00	0.00	0.00	0.00	
20,800.00	89.60	179.63	10,569.53	-9,779.23	2,473.80	9,795.00	0.00	0.00	0.00	
20,900.00	89.60	179.63	10,570.23	-9,879.22	2,474.45	9,894.99	0.00	0.00	0.00	
21,000.00	89.60	179.63	10,570.93	-9,979.22	2,475.11	9,994.99	0.00	0.00	0.00	
21,100.00	89.60	179.63	10,571.63	-10,079.21	2,475.76	10,094.99	0.00	0.00	0.00	
21,200.00	89.60	179.63	10,572.34	-10,179.21	2,476.41	10,194.99	0.00	0.00	0.00	
21,300.00	89.60	179.63	10,573.04	-10,279.20	2,477.06	10,294.98	0.00	0.00	0.00	
21,400.00	89.60	179.63	10,573.74	-10,379.20	2,477.72	10,394.98	0.00	0.00	0.00	
21,500.00	89.60	179.63	10,574.44	-10,479.19	2,478.37	10,494.98	0.00	0.00	0.00	
21,600.00	89.60	179.63	10,575.14	-10,579.19	2,479.02	10,594.98	0.00	0.00	0.00	
21,700.00	89.60	179.63	10,575.85	-10,679.18	2,479.68	10,694.97	0.00	0.00	0.00	
21,800.00	89.60	179.63	10,576.55	-10,779.18	2,480.33	10,794.97	0.00	0.00	0.00	
21,900.00	89.60	179.63	10,577.25	-10,879.17	2,480.98	10,894.97	0.00	0.00	0.00	
22,000.00	89.60	179.63	10,577.95	-10,979.17	2,481.63	10,994.97	0.00	0.00	0.00	
22,100.00	89.60	179.63	10,578.65	-11,079.17	2,482.29	11,094.96	0.00	0.00	0.00	
22,200.00	89.60	179.63	10,579.36	-11,179.16	2,482.94	11,194.96	0.00	0.00	0.00	
22,300.00	89.60	179.63	10,580.06	-11,279.16	2,483.59	11,294.96	0.00	0.00	0.00	
22,400.00	89.60	179.63	10,580.76	-11,379.15	2,484.25	11,394.96	0.00	0.00	0.00	
22,500.00	89.60	179.63	10,581.46	-11,479.15	2,484.90	11,494.95	0.00	0.00	0.00	
22,600.00	89.60	179.63	10,582.16	-11,579.14	2,485.55	11,594.95	0.00	0.00	0.00	
22,700.00	89.60	179.63	10,582.87	-11,679.14	2,486.20	11,694.95	0.00	0.00	0.00	
22,800.00	89.60	179.63	10,583.57	-11,779.13	2,486.86	11,794.95	0.00	0.00	0.00	
22,900.00	89.60	179.63	10,584.27	-11,879.13	2,487.51	11,894.94	0.00	0.00	0.00	
23,000.00	89.60	179.63	10,584.97	-11,979.12	2,488.16	11,994.94	0.00	0.00	0.00	
23,100.00	89.60	179.63	10,585.67	-12,079.12	2,488.82	12,094.94	0.00	0.00	0.00	
23,200.00	89.60	179.63	10,586.38	-12,179.11	2,489.47	12,194.94	0.00	0.00	0.00	
23,300.00	89.60	179.63	10,587.08	-12,279.11	2,490.12	12,294.93	0.00	0.00	0.00	
23,400.00	89.60	179.63	10,587.78	-12,379.11	2,490.77	12,394.93	0.00	0.00	0.00	
23,500.00	89.60	179.63	10,588.48	-12,479.10	2,491.43	12,494.93	0.00	0.00	0.00	
23,600.00	89.60	179.63	10,589.18	-12,579.10	2,492.08	12,594.93	0.00	0.00	0.00	
23,700.00	89.60	179.63	10,589.89	-12,679.09	2,492.73	12,694.92	0.00	0.00	0.00	
23,800.00	89.60	179.63	10,590.59	-12,779.09	2,493.39	12,794.92	0.00	0.00	0.00	
23,900.00	89.60	179.63	10,591.29	-12,879.08	2,494.04	12,894.92	0.00	0.00	0.00	
23,951.22	89.60	179.63	10,591.65	-12,930.30	2,494.37	12,946.14	0.00	0.00	0.00	
804H_LTP.										
24,001.22	89.60	179.63	10,592.00	-12,980.30	2,494.70	12,996.14	0.00	0.00	0.00	
Horizontal TD - 804H_BHL.										



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3361.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27)	MD Reference:	RKB = 32' @ 3361.00usft (TBD)
Site:	JAMES RANCH UNIT DI 7 SAWTOOTH	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
804H_SHL. - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	487,877.90	661,937.90	32.3402025	-103.8090020
804H_FTP. - plan hits target center - Point	0.00	0.00	10,502.00	-160.40	2,411.00	487,717.50	664,348.90	32.3397289	-103.8011984
804H_LTP. - plan misses target center by 0.13usft at 23951.22usft MD (10591.65 TVD, -12930.30 N, 2494.37 E) - Point	0.00	0.00	10,591.65	-12,930.30	2,494.50	474,947.60	664,432.40	32.3046255	-103.8011334
804H_BHL. - plan hits target center - Point	0.00	0.00	10,592.00	-12,980.30	2,494.70	474,897.60	664,432.60	32.3044880	-103.8011336

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
279.00	279.00	Rustler			
617.00	617.00	Salado/Top of Salt			
2,540.20	2,537.00	Castile Anhydrite 1 Top			
3,048.97	3,028.00	Castile Anhydrite 1 Base			
3,289.30	3,258.00	Castile Anhydrite 2 Top			
3,399.01	3,363.00	Castile Anhydrite 2 Base			
3,773.09	3,721.00	Base Salt			
4,023.87	3,961.00	Delaware/Lamar			
4,058.35	3,994.00	Bell Canyon			
5,197.30	5,084.00	Cherry Canyon			
6,688.39	6,511.00	Brushy Canyon Ss.			
8,070.81	7,834.00	Bone Spring Lm.			
8,119.92	7,881.00	Avalon Ss.			
8,388.46	8,138.00	Upper Avalon Carb.			
8,463.70	8,210.00	Upper Avalon Sh.			
8,640.29	8,379.00	Middle Avalon Carb.			
8,718.66	8,454.00	Lw. Avalon Sh.			
9,062.43	8,783.00	First Bone Spring Carb.			
9,146.02	8,863.00	First Bone Spring Ss.			
9,595.34	9,293.00	Second Bone Spring Carb.			
9,992.40	9,673.00	Second Bone Spring A Ss.			
10,073.91	9,751.00	Second Bone Spring A/B Carb.			
10,138.69	9,813.00	Second Bone Spring B Ss.			
10,297.48	9,965.00	Third Bone Spring Carb.			
10,530.32	10,181.00	Harkey Ss.			
10,627.46	10,262.00	Third Bone Spring Shale			
11,180.73	10,502.00	Horizontal Landing Point			
24,001.22	10,592.00	Horizontal TD			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	James Ranch Unit DI 7 Sawtooth 804H
LOCATION:	Sec 06-23S-31E-NMP
COUNTY:	Eddy County, New Mexico

COA

H₂S	<input type="radio"/> No	<input checked="" type="radio"/> Yes		
Potash / WIPP	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P	<input checked="" type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input checked="" type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> 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 592 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 592 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.

- b. ☐ Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. ☐ Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. ☐ If cement falls back, remedial cementing will be done prior to drilling out that string.
2. ☐ The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
- ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ ☐ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing 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 6511'**
 - 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 R111 Potash Areas 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.

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

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 OilGasReports@wipp.ws.

Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

BOPE Break Testing Variance

- ☐ BOPE Break Testing is ONLY permitted for 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.

- ☐ 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

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

A. ☐ CASING

1. ☐ Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. ☐ Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. ☐ Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. ☐ Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. ☐ No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. ☐ On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. ☐ If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. ☐ Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. ☐ PRESSURE CONTROL

1. ☐ All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **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.

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.

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.

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO PERSONNEL:
Jesse Chondo, Drilling Manager
Sean Strode, Drilling Superintendent
Josh Davis, Construction Foreman
Andy Owens, EH & S Manager
Mike Allen, Production Foreman

432-210-7505
432-234-0875
936-332-2212
903-245-2602
918-421-9056

SHERIFF DEPARTMENTS:
Eddy County
Lea County

575-887-7551
575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:
Carlsbad
Eunice
Hobbs
Jal
Lovington

911
575-885-2111
575-394-2111
575-397-9308
575-395-2221
575-396-2359

HOSPITALS:
Carlsbad Medical Emergency
Eunice Medical Emergency
Hobbs Medical Emergency
Jal Medical Emergency
Lovington Medical Emergency

911
575-885-2111
575-394-2112
575-397-9308
575-395-2221
575-396-2359

AGENT NOTIFICATIONS:
For Lea County:
Bureau of Land Management – Hobbs
New Mexico Oil Conservation Division – Hobbs

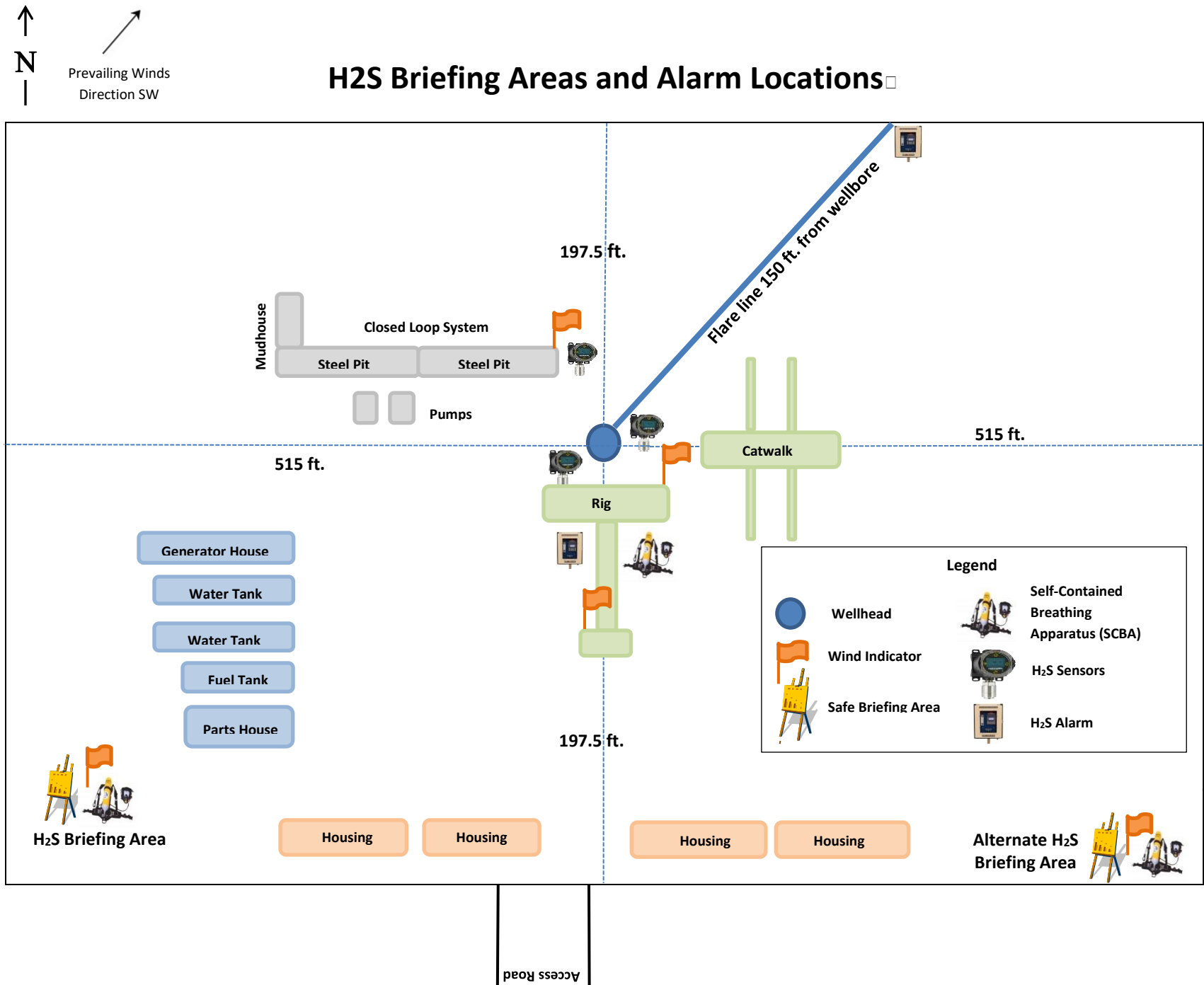
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575-393-6161

For Eddy County:
Bureau of Land Management - Carlsbad
New Mexico Oil Conservation Division - Artesia

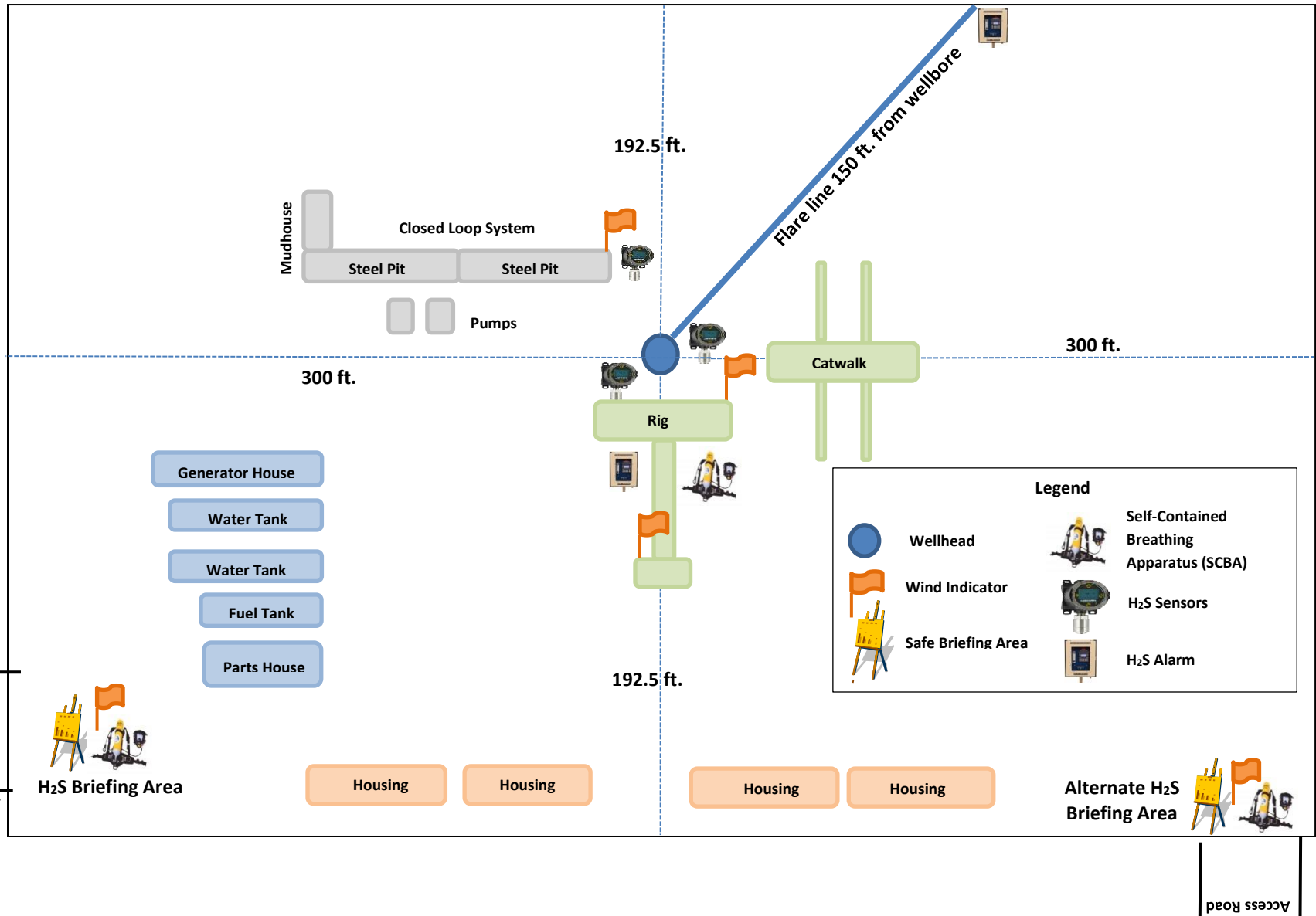
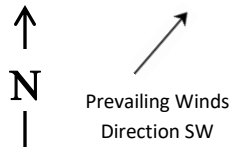
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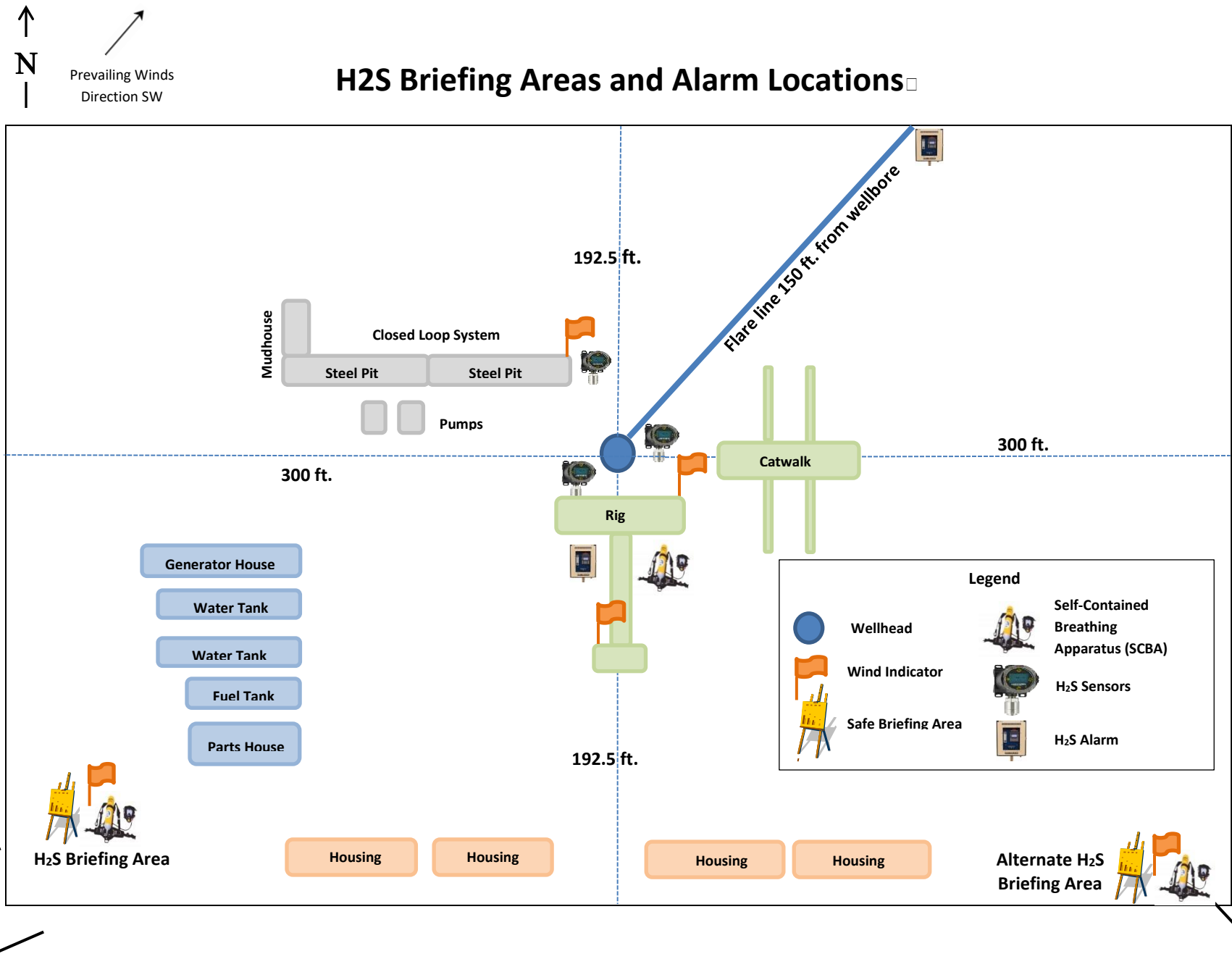
H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations





Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 7 SAWTOOTH

Well Number: 804H

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 FACILITY Disposal location ownership: COMMERCIAL

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 FACILITY Disposal location ownership: COMMERCIAL

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

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.

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 Operating, LLC **OGRID:** 373075 **Date:** March 10, 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
James Ranch Unit DI 7 Sawtooth 116H		2-6-T23S-R31E	155' FNL & 2050' FEL	2000	3200	3500
James Ranch Unit DI 7 Sawtooth 117H		2-6-T23S-R31E	155' FNL & 1960' FEL	2000	3200	3500
James Ranch Unit DI 7 Sawtooth 803H		1-6-T23S-R31E	155' FNL & 350' FEL	2000	3200	3500
James Ranch Unit DI 7 Sawtooth 804H		1-6-T23S-R31E	155' FNL & 320' FEL	2000	3200	3500

IV. Central Delivery Point Name: James Ranch Unit DI 7 Sawtooth CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commence ment Date	Initial Flow Back Date	First Production Date
James Ranch Unit DI 7 Sawtooth 116H		TBD	TBD	TBD	TBD	TBD
James Ranch Unit DI 7 Sawtooth 117H		TBD	TBD	TBD	TBD	TBD
James Ranch Unit DI 7 Sawtooth 803H		TBD	TBD	TBD	TBD	TBD
James Ranch Unit DI 7 Sawtooth 804H		TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

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

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ 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 ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

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

Effective May 25, 2021

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: <i>Rusty Klein</i>
Printed Name: Rusty Klein
Title: Regulatory Analyst
E-mail Address: ranell.klein@exxonmobil.com
Date: March 10, 2024
Phone: 575-703-6412
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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
District IV
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 321911

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:
	373075
	Action Number:
	321911
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	3/27/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/27/2024
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	3/27/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	3/27/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	3/27/2024
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	3/27/2024