

Well Name: BIG EDDY UNIT DI BB JABBA	Well Location: T20S / R32E / SEC 22 / SWSW / 32.55275 / -103.760579	County or Parish/State: LEA / NM
Well Number: 101H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC065750A, NMNM33955	Unit or CA Name: BIG EDDY	Unit or CA Number: NMNM68294X
US Well Number: 3002547225	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2682660

Type of Submission: Notice of Intent **Type of Action:** Other

Date Sundry Submitted: 07/19/2022 **Time Sundry Submitted:** 05:12

Date proposed operation will begin: 08/10/2022

Procedure Description: **Surface Location Move, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change SHL fr/470'FSL & 640'FWL to 490'FSL & 640'FWL. Well Stays in the Same Quarter-Quarter as Permitted Total SHL Move: 20'North SHL change requested to optimize well pad layout, drilling efficiencies, and for safety purposes. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Jabba_101H_Attachments_20220719051228.pdf

Received by OCD: 9/6/2022 11:53:32 AM

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Conditions of Approval

Additional

Sec_22_20S_32E_NMP_2682660_Big_Eddy_Unit_DI_BB_Jabba_101H_Lea_NMNM033955_XTO_COAs_20220831132428.pdf

Operator

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

Operator Electronic Signature: STEPHANIE RABADUE	Signed on: JUL 19, 2022 05:12 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Coordinator	
Street Address: 500 W. Illinois St, Ste 100	
City: Midland	State: TX
Phone: (432) 620-6714	
Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 09/02/2022
Signature: Chris Walls	

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 30-025-47225	² Pool Code 53560	³ Pool Name Salt Lake; Bone Spring
⁴ Property Code 328261	⁵ Property Name Big Eddy Unit DI BB Jabba	
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁶ Well Number 101H ⁹ Elevation 3,529'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	20 S	32 E		490	SOUTH	640	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	19	20 S	32 E		660	SOUTH	50	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
479.68			

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.

LOT 4 - 39.68 ACRES

LOT ACREAGE TABLE

Section	Area (Acres)
19	1.25
20	1.25
21	1.25
22	1.25
25	1.25
29	1.25
28	1.25
30	1.25
Total	39.68

CORNER COORDINATES (NAD83 NME)

Point	X	Y
A	566,105.2	566,105.2
B	566,101.1	566,101.1
C	566,100.1	566,100.1
D	566,108.2	566,108.2
E	566,112.3	566,112.3
F	566,128.3	566,128.3
G	566,143.6	566,143.6
H	564,778.1	564,778.1
I	564,772.1	564,772.1
J	564,772.5	564,772.5
K	564,785.5	564,785.5
L	564,790.6	564,790.6
M	564,807.6	564,807.6
N	564,823.1	564,823.1

CORNER COORDINATES (NAD27 NME)

Point	X	Y
A	566,043.5	566,043.5
B	566,039.3	566,039.3
C	566,038.4	566,038.4
D	566,046.5	566,046.5
E	566,050.6	566,050.6
F	566,066.6	566,066.6
G	566,081.9	566,081.9
H	564,716.4	564,716.4
I	564,710.3	564,710.3
J	564,710.8	564,710.8
K	564,723.9	564,723.9
L	564,728.9	564,728.9
M	564,746.0	564,746.0
N	564,761.5	564,761.5

17 OPERATOR CERTIFICATION

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

Stephanie Rabadue 05/15/2022

Signature _____ Date _____

Stephanie Rabadue

Printed Name _____

stephanie.rabadue@exxonmobil.com

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.

3-9-2022

Date of Survey _____

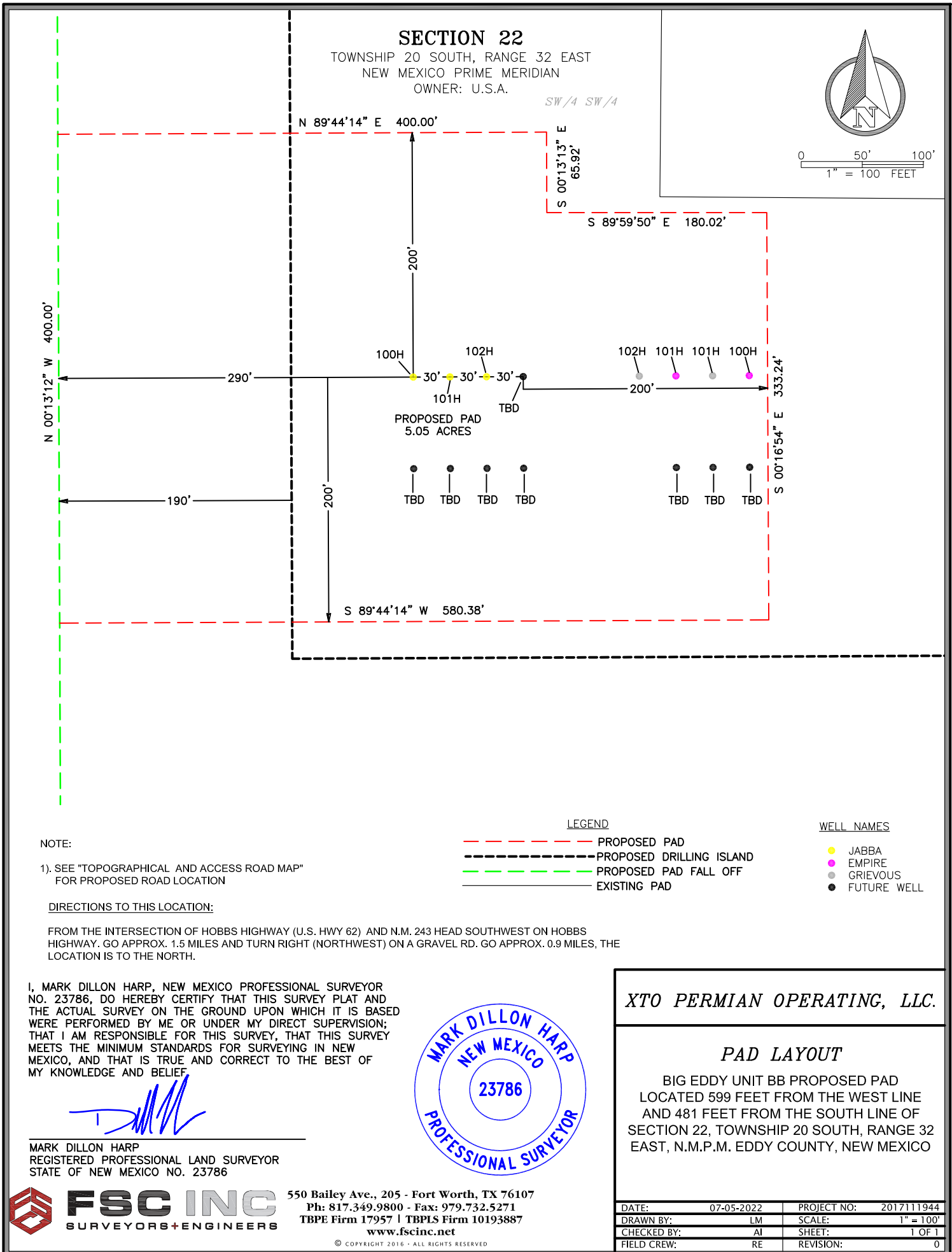
Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

AW

2019061804





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

XTO Energy Inc.
Big Eddy Unit Blue Bird Jabba 101H
Projected TD: 25945' MD / 9805' TVD
SHL: 490' FSL & 640' FWL , Section 22, T20S, R32E
BHL: 660' FSL & 50' FWL , Section 19, T20S, R32E
Lea County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	966'	Water
Top of Salt	1338'	Water
Base of Salt	2669'	Water
Capitan Reef	3003'	Water
Delaware	4985'	Water
Brushy Canyon	6126'	Water/Oil/Gas
Bone Spring	7732'	Water
1st Bone Spring Ss	8812'	Water/Oil/Gas
2nd Bone Spring Ss	9451'	Water/Oil/Gas
Target/Land Curve	9805'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 18.625 inch casing @ 1066' (272' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13.375 inch casing at 2769' and circulating cement to surface. The second intermediate will isolate the Capitan Reef from the salt down to the next casing seat by setting 9.625 inch casing at 5035' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 25945 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 2928 feet; >50' above the Capitan Reef) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
24	0' – 1066'	18.625	87.5	J-55	BTC	New	2.71	1.31	14.25
17.5	0' – 2769'	13.375	54.5	J-55	BTC	New	2.19	1.34	5.65
12.25	0' – 2869'	9.625	40	HC P-110	BTC	New	2.94	3.15	6.26
12.25	2869' – 5035'	9.625	40	HC L-80	BTC	New	2.14	3.05	10.57
8.5	0' – 4935'	5.5	20	RY P-110	Semi-Premium	New	1.05	4.55	2.04
8.5	4935' - 25945'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.29	2.32

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

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 18-5/8" bottom

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2

- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18.625, 87.5 New BTC, J-55 casing to be set at +/- 1066'

Lead: 1340 sxs Class C (mixed at 12.8 ppg, 1.95 ft³/sx, 10.93 gal/sx water)
 Tail: 550 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 250 psi 24 hr = 500 psi

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

1st Intermediate Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 2769'

Lead: 1750 sxs Class C (mixed at 12.9 ppg, 1.95 ft³/sx, 10.93 gal/sx water)
 Tail: 310 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 5035'

1st Stage

Optional Lead: 1250 sxs Class C (mixed at 10.5 ppg, 2.37 ft³/sx, 12.78 gal/sx water)
 TOC: 0
 Tail: 140 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 TOC: 4735
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage Bradenhead (if needed)

Optional Tail: 1220 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 0
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests the option to pump a two stage cement job on the 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Capitan Reef (3003') and the second stage performed as a bradenhead squeeze with planned cement from the Capitan Reef to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 25945'1st Stage

Lead: 300 sxs 50/50 POZ/Class C (mixed at 11.5 ppg, 2.6 ft³/sx, 14.84 gal/sx water) Top of Cement: 6126 feet
Tail: 2930 sxs 50/50 POZ/Class H (mixed at 13.2 ppg, 1.51 ft³/sx, 7.21 gal/sx water) Top of Cement: 9098 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

2nd Stage Bradenhead (if needed)

Tail: 1100 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
Top of Cement: 2928
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests the option to pump a two stage cement job on the 5-1/2" production casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6126') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to a depth dictated by the COA or current regulations.

A freshwater spacer will be pumped behind the cement to displace to the desired depth. A bradenhead squeeze will reduce channeling and allow for a more accurate placement of cement, while leaving an un-cemented portion of the annulus for pressure monitoring during completions operations.

XTO requests the ability to conduct the bradenhead squeeze offline.

XTO requests to pump an Optional Lead & Tail, if well conditions dictate, in an attempt to bring top of cement as dictated by the COA or current regulations. If cement reaches this depth, the BLM will be notified and the second stage bradenhead squeeze will be negated.

Lead: 1400 sxs 50/50 POZ/Class C (mixed at 11.5 ppg, 2.6 ft³/sx, 14.84 gal/sx water) Top of Cement: 2928 feet
Tail: 2930 sxs 50/50 POZ/Class H (mixed at 13.2 ppg, 1.51 ft³/sx, 7.21 gal/sx water) Top of Cement: 9098 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 18.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydriil and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 0 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 18.625, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 13.375, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1066'	24	FW/Native	8.7-9.2	35-40	NC
1066' - 2769'	17.5	Brine	10-10.5	30-32	NC
2769' to 5035'	12.25	FW / Cut Brine	9-9.5	30-32	NC
5035' to 25945'	8.5	OBM	9.5-10	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 18-5/8" surface casing with brine solution. A 10 ppg -10.5 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 18.625 casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4844 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after Remuda 25 State drilling is completed and BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - BEU BB JABBA 101H

Measured Depth: 25944.75 ft

TVD RKB: 9805.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 565255.24 ft

Easting: 676614.90 ft

RKB: 3543.00 ft

Ground Level: 3513.00 ft

North Reference: Grid

Convergence Angle: 0.31 Deg

Site: BlueBird

Slot: BEU BB JABBA 101H

Plan Sections		BEU BB JABBA 101H							
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	

0	0	0	0	0	-0.01	0	0	0
3500	0	0	3500	0	-0.01	0	0	0
3915.67	8.31	351.65	3914.21	29.79	-4.38	2	0	2
4594.38	8.31	351.65	4585.79	126.88	-18.63	0	0	0
5010.05	0	0	5000	156.66	-23	-2	0	2
9098.05	0	0	9088	156.66	-23	0	0	0
10223.05	90	270	9804.2	156.66	-739.2	8	0	8 FTP 3
25944.75	89.99	269.65	9805	109.18	-16460.81	0	0	0 BHL 3

Position		BEU BB												
Uncertainty		JABBA 101H												
Measured		TVD		Highside		Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor Tool
Depth	Inclination	RKB		Error		Error		Error		Bias		Error	Error	Azimuth Used
(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	0	XOM_R2OW SG 0 MWD+IFR1+ MS
100	0	100	100	0.358	0	0.358	0	2.299	0	0	0	0.358	0.358	XOM_R2OW SG 0 MWD+IFR1+ MS
200	0	200	200	0.717	0	0.717	0	2.307	0	0	0	0.717	0.717	XOM_R2OW SG 0 MWD+IFR1+ MS
300	0	300	300	1.075	0	1.075	0	2.321	0	0	0	1.075	1.075	XOM_R2OW SG 0 MWD+IFR1+ MS
400	0	400	400	1.434	0	1.434	0	2.34	0	0	0	1.434	1.434	XOM_R2OW SG 0 MWD+IFR1+ MS
500	0	500	500	1.792	0	1.792	0	2.364	0	0	0	1.792	1.792	XOM_R2OW SG 0 MWD+IFR1+ MS

600	0	0	600	2.151	0	2.151	0	2.394	0	0	2.151	2.151	0	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
700	0	0	700	2.509	0	2.509	0	2.428	0	0	2.509	2.509	0	SG MWD+IFR1+ MS XOM_R2OW
800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	0	SG MWD+IFR1+ MS XOM_R2OW
900	0	0	900	3.226	0	3.226	0	2.511	0	0	3.226	3.226	0	SG MWD+IFR1+ MS XOM_R2OW
1000	0	0	1000	3.585	0	3.585	0	2.56	0	0	3.585	3.585	0	SG MWD+IFR1+ MS XOM_R2OW
1100	0	0	1100	3.943	0	3.943	0	2.613	0	0	3.943	3.943	0	SG MWD+IFR1+ MS XOM_R2OW
1200	0	0	1200	4.302	0	4.302	0	2.67	0	0	4.302	4.302	0	SG MWD+IFR1+ MS XOM_R2OW
1300	0	0	1300	4.66	0	4.66	0	2.731	0	0	4.66	4.66	0	SG MWD+IFR1+ MS XOM_R2OW
1400	0	0	1400	5.019	0	5.019	0	2.797	0	0	5.019	5.019	0	SG MWD+IFR1+ MS XOM_R2OW
1500	0	0	1500	5.377	0	5.377	0	2.866	0	0	5.377	5.377	0	SG MWD+IFR1+ MS XOM_R2OW
1600	0	0	1600	5.736	0	5.736	0	2.939	0	0	5.736	5.736	0	SG MWD+IFR1+ MS XOM_R2OW
1700	0	0	1700	6.094	0	6.094	0	3.016	0	0	6.094	6.094	0	SG MWD+IFR1+ MS

1800	0	0	1800	6.452	0	6.452	0	3.096	0	0	6.452	6.452	0	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
1900	0	0	1900	6.811	0	6.811	0	3.179	0	0	6.811	6.811	0	SG MWD+IFR1+ MS XOM_R2OW
2000	0	0	2000	7.169	0	7.169	0	3.266	0	0	7.169	7.169	0	SG MWD+IFR1+ MS XOM_R2OW
2100	0	0	2100	7.528	0	7.528	0	3.355	0	0	7.528	7.528	0	SG MWD+IFR1+ MS XOM_R2OW
2200	0	0	2200	7.886	0	7.886	0	3.448	0	0	7.886	7.886	0	SG MWD+IFR1+ MS XOM_R2OW
2300	0	0	2300	8.245	0	8.245	0	3.544	0	0	8.245	8.245	0	SG MWD+IFR1+ MS XOM_R2OW
2400	0	0	2400	8.603	0	8.603	0	3.643	0	0	8.603	8.603	0	SG MWD+IFR1+ MS XOM_R2OW
2500	0	0	2500	8.962	0	8.962	0	3.745	0	0	8.962	8.962	0	SG MWD+IFR1+ MS XOM_R2OW
2600	0	0	2600	9.32	0	9.32	0	3.849	0	0	9.32	9.32	0	SG MWD+IFR1+ MS XOM_R2OW
2700	0	0	2700	9.679	0	9.679	0	3.956	0	0	9.679	9.679	0	SG MWD+IFR1+ MS XOM_R2OW
2800	0	0	2800	10.037	0	10.037	0	4.066	0	0	10.037	10.037	0	SG MWD+IFR1+ MS XOM_R2OW
2900	0	0	2900	10.396	0	10.396	0	4.179	0	0	10.396	10.396	0	SG MWD+IFR1+ MS

3000	0	0	3000	10.754	0	10.754	0	4.295	0	0	10.754	10.754	0	XOM_R2OW SG MWD+IFR1+ MS
3100	0	0	3100	11.113	0	11.113	0	4.413	0	0	11.113	11.113	0	XOM_R2OW SG MWD+IFR1+ MS
3200	0	0	3200	11.471	0	11.471	0	4.534	0	0	11.471	11.471	0	XOM_R2OW SG MWD+IFR1+ MS
3300	0	0	3300	11.83	0	11.83	0	4.657	0	0	11.83	11.83	0	XOM_R2OW SG MWD+IFR1+ MS
3400	0	0	3400	12.188	0	12.188	0	4.783	0	0	12.188	12.188	0	XOM_R2OW SG MWD+IFR1+ MS
3500	0	0	3500	12.547	0	12.547	0	4.912	0	0	12.547	12.547	0	XOM_R2OW SG MWD+IFR1+ MS
3600	2	351.65	3599.98	12.898	0	12.905	0	5.043	0	0	12.905	12.905	0.722	XOM_R2OW SG MWD+IFR1+ MS
3700	4	351.65	3699.838	13.235	0	13.263	0	5.175	0	0	13.263	13.263	2.728	XOM_R2OW SG MWD+IFR1+ MS
3800	6	351.65	3799.452	13.558	0	13.622	0	5.309	0	0	13.622	13.62	0.143	XOM_R2OW SG MWD+IFR1+ MS
3900	8	351.65	3898.702	13.866	0	13.98	0	5.444	0	0	13.98	13.976	-1.756	XOM_R2OW SG MWD+IFR1+ MS
3915.669	8.313	351.65	3914.212	13.912	0	14.036	0	5.463	0	0	14.036	14.032	-0.659	XOM_R2OW SG MWD+IFR1+ MS
4000	8.313	351.65	3997.657	14.213	0	14.337	0	5.582	0	0	14.337	14.33	-3.12	XOM_R2OW SG MWD+IFR1+ MS

															XOM_R2OW
4100	8.313	351.65	4096.606	14.57	0	14.696	0	5.726	0	0	14.696	14.683	-4.017	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4200	8.313	351.65	4195.555	14.928	0	15.055	0	5.873	0	0	15.055	15.038	-4.384	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4300	8.313	351.65	4294.505	15.287	0	15.414	0	6.023	0	0	15.414	15.393	-4.57	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4400	8.313	351.65	4393.454	15.646	0	15.774	0	6.176	0	0	15.774	15.749	-4.673	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4500	8.313	351.65	4492.403	16.006	0	16.135	0	6.332	0	0	16.135	16.106	-4.731	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4594.377	8.313	351.65	4585.788	16.346	0	16.475	0	6.481	0	0	16.475	16.443	-4.76	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4600	8.201	351.65	4591.353	16.37	0	16.495	0	6.491	0	0	16.496	16.463	-4.765	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4700	6.201	351.65	4690.559	16.779	0	16.857	0	6.654	0	0	16.857	16.821	-4.818	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4800	4.201	351.65	4790.142	17.171	0	17.217	0	6.82	0	0	17.217	17.179	-4.852	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
4900	2.201	351.65	4889.981	17.545	0	17.577	0	6.987	0	0	17.577	17.538	-4.862	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
5000	0.201	351.65	4989.954	17.898	0	17.936	0	7.156	0	0	17.936	17.896	-4.892	SG	
															MWD+IFR1+
															MS
															XOM_R2OW
5010.046	0	0	5000	17.932	0	17.972	0	7.173	0	0	17.972	17.932	-4.896	SG	
															MWD+IFR1+
															MS

5100	0	0	5089.954	18.254	0	18.294	0	7.325	0	0	18.294	18.254	-4.907	XOM_R2OW SG MWD+IFR1+ MS
5200	0	0	5189.954	18.612	0	18.651	0	7.498	0	0	18.652	18.611	-4.919	XOM_R2OW SG MWD+IFR1+ MS
5300	0	0	5289.954	18.969	0	19.009	0	7.672	0	0	19.01	18.969	-4.93	XOM_R2OW SG MWD+IFR1+ MS
5400	0	0	5389.954	19.327	0	19.367	0	7.85	0	0	19.368	19.326	-4.941	XOM_R2OW SG MWD+IFR1+ MS
5500	0	0	5489.954	19.684	0	19.725	0	8.03	0	0	19.725	19.684	-4.951	XOM_R2OW SG MWD+IFR1+ MS
5600	0	0	5589.954	20.042	0	20.083	0	8.213	0	0	20.083	20.042	-4.961	XOM_R2OW SG MWD+IFR1+ MS
5700	0	0	5689.954	20.4	0	20.441	0	8.398	0	0	20.441	20.4	-4.97	XOM_R2OW SG MWD+IFR1+ MS
5800	0	0	5789.954	20.758	0	20.799	0	8.586	0	0	20.799	20.757	-4.979	XOM_R2OW SG MWD+IFR1+ MS
5900	0	0	5889.954	21.115	0	21.157	0	8.777	0	0	21.157	21.115	-4.987	XOM_R2OW SG MWD+IFR1+ MS
6000	0	0	5989.954	21.473	0	21.515	0	8.971	0	0	21.515	21.473	-4.995	XOM_R2OW SG MWD+IFR1+ MS
6100	0	0	6089.954	21.831	0	21.873	0	9.167	0	0	21.873	21.831	-5.003	XOM_R2OW SG MWD+IFR1+ MS
6200	0	0	6189.954	22.189	0	22.231	0	9.367	0	0	22.231	22.189	-5.01	XOM_R2OW SG MWD+IFR1+ MS

6300	0	0	6289.954	22.547	0	22.589	0	9.569	0	0	22.589	22.546	-5.017	XOM_R2OW SG MWD+IFR1+ MS
6400	0	0	6389.954	22.905	0	22.947	0	9.773	0	0	22.947	22.904	-5.024	XOM_R2OW SG MWD+IFR1+ MS
6500	0	0	6489.954	23.262	0	23.305	0	9.981	0	0	23.305	23.262	-5.031	XOM_R2OW SG MWD+IFR1+ MS
6600	0	0	6589.954	23.62	0	23.663	0	10.191	0	0	23.664	23.62	-5.037	XOM_R2OW SG MWD+IFR1+ MS
6700	0	0	6689.954	23.978	0	24.021	0	10.404	0	0	24.022	23.978	-5.043	XOM_R2OW SG MWD+IFR1+ MS
6800	0	0	6789.954	24.336	0	24.379	0	10.62	0	0	24.38	24.336	-5.049	XOM_R2OW SG MWD+IFR1+ MS
6900	0	0	6889.954	24.694	0	24.738	0	10.838	0	0	24.738	24.694	-5.055	XOM_R2OW SG MWD+IFR1+ MS
7000	0	0	6989.954	25.052	0	25.096	0	11.06	0	0	25.096	25.052	-5.06	XOM_R2OW SG MWD+IFR1+ MS
7100	0	0	7089.954	25.41	0	25.454	0	11.284	0	0	25.454	25.41	-5.065	XOM_R2OW SG MWD+IFR1+ MS
7200	0	0	7189.954	25.768	0	25.812	0	11.511	0	0	25.812	25.768	-5.07	XOM_R2OW SG MWD+IFR1+ MS
7300	0	0	7289.954	26.126	0	26.17	0	11.741	0	0	26.17	26.126	-5.075	XOM_R2OW SG MWD+IFR1+ MS
7400	0	0	7389.954	26.484	0	26.528	0	11.973	0	0	26.529	26.484	-5.08	XOM_R2OW SG MWD+IFR1+ MS

7500	0	0	7489.954	26.842	0	26.886	0	12.209	0	0	26.887	26.842	-5.085	XOM_R2OW SG MWD+IFR1+ MS
7600	0	0	7589.954	27.2	0	27.245	0	12.447	0	0	27.245	27.2	-5.089	XOM_R2OW SG MWD+IFR1+ MS
7700	0	0	7689.954	27.558	0	27.603	0	12.688	0	0	27.603	27.558	-5.093	XOM_R2OW SG MWD+IFR1+ MS
7800	0	0	7789.954	27.917	0	27.961	0	12.932	0	0	27.961	27.916	-5.098	XOM_R2OW SG MWD+IFR1+ MS
7900	0	0	7889.954	28.275	0	28.319	0	13.179	0	0	28.319	28.274	-5.102	XOM_R2OW SG MWD+IFR1+ MS
8000	0	0	7989.954	28.633	0	28.677	0	13.429	0	0	28.678	28.632	-5.106	XOM_R2OW SG MWD+IFR1+ MS
8100	0	0	8089.954	28.991	0	29.036	0	13.681	0	0	29.036	28.99	-5.109	XOM_R2OW SG MWD+IFR1+ MS
8200	0	0	8189.954	29.349	0	29.394	0	13.937	0	0	29.394	29.349	-5.113	XOM_R2OW SG MWD+IFR1+ MS
8300	0	0	8289.954	29.707	0	29.752	0	14.195	0	0	29.752	29.707	-5.117	XOM_R2OW SG MWD+IFR1+ MS
8400	0	0	8389.954	30.065	0	30.11	0	14.457	0	0	30.111	30.065	-5.12	XOM_R2OW SG MWD+IFR1+ MS
8500	0	0	8489.954	30.423	0	30.468	0	14.721	0	0	30.469	30.423	-5.124	XOM_R2OW SG MWD+IFR1+ MS
8600	0	0	8589.954	30.781	0	30.827	0	14.988	0	0	30.827	30.781	-5.127	XOM_R2OW SG MWD+IFR1+ MS

8700	0	0	8689.954	31.14	0	31.185	0	15.258	0	0	31.185	31.139	-5.13	XOM_R2OW SG MWD+IFR1+ MS
8800	0	0	8789.954	31.498	0	31.543	0	15.53	0	0	31.544	31.497	-5.133	XOM_R2OW SG MWD+IFR1+ MS
8900	0	0	8889.954	31.856	0	31.901	0	15.806	0	0	31.902	31.856	-5.136	XOM_R2OW SG MWD+IFR1+ MS
9000	0	0	8989.954	32.214	0	32.26	0	16.085	0	0	32.26	32.214	-5.139	XOM_R2OW SG MWD+IFR1+ MS
9098.046	0	0	9088	32.565	0	32.611	0	16.361	0	0	32.611	32.565	-5.142	XOM_R2OW SG MWD+IFR1+ MS
9100	0.156	270	9089.954	32.618	0	32.572	0	16.366	0	0	32.618	32.572	-5.144	XOM_R2OW SG MWD+IFR1+ MS
9200	8.156	270	9189.61	32.717	0	32.91	0	16.647	0	0	32.956	32.91	-4.83	XOM_R2OW SG MWD+IFR1+ MS
9300	16.156	270	9287.288	32.339	0	33.241	0	16.92	0	0	33.286	33.241	-3.913	XOM_R2OW SG MWD+IFR1+ MS
9400	24.156	270	9381.088	31.501	0	33.56	0	17.178	0	0	33.597	33.56	-3.316	XOM_R2OW SG MWD+IFR1+ MS
9500	32.156	270	9469.183	30.242	0	33.864	0	17.416	0	0	33.88	33.863	-5.21	XOM_R2OW SG MWD+IFR1+ MS
9600	40.156	270	9549.858	28.619	0	34.148	0	17.634	0	0	34.148	34.127	94.176	XOM_R2OW SG MWD+IFR1+ MS
9700	48.156	270	9621.544	26.721	0	34.412	0	17.833	0	0	34.412	34.335	92.041	XOM_R2OW SG MWD+IFR1+ MS

9800	56.156	270	9682.845	24.667	0	34.654	0	18.017	0	0	34.654	34.501	92	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
9900	64.156	270	9732.568	22.62	0	34.873	0	18.192	0	0	34.874	34.625	92.185	SG MWD+IFR1+ MS XOM_R2OW
10000	72.156	270	9769.745	20.791	0	35.07	0	18.366	0	0	35.071	34.709	92.406	SG MWD+IFR1+ MS XOM_R2OW
10100	80.156	270	9793.653	19.433	0	35.244	0	18.543	0	0	35.245	34.76	92.63	SG MWD+IFR1+ MS XOM_R2OW
10200	88.156	270	9803.826	18.796	0	35.392	0	18.728	0	0	35.393	34.784	92.861	SG MWD+IFR1+ MS XOM_R2OW
10223.046	90	270	9804.197	18.771	0	35.422	0	18.771	0	0	35.423	34.787	92.922	SG MWD+IFR1+ MS XOM_R2OW
10300	90	270	9804.197	18.927	0	35.526	0	18.927	0	0	35.528	34.795	93.061	SG MWD+IFR1+ MS XOM_R2OW
10400	90	270	9804.197	19.157	0	35.678	0	19.157	0	0	35.68	34.805	93.133	SG MWD+IFR1+ MS XOM_R2OW
10500	90	269.994	9804.197	19.416	0	35.848	0	19.416	0	0	35.851	34.816	93.13	SG MWD+IFR1+ MS XOM_R2OW
10600	90	269.992	9804.198	19.702	0	36.035	0	19.702	0	0	36.039	34.829	93.082	SG MWD+IFR1+ MS XOM_R2OW
10700	90	269.99	9804.198	20.015	0	36.24	0	20.015	0	0	36.244	34.842	93.007	SG MWD+IFR1+ MS XOM_R2OW
10800	90	269.987	9804.198	20.354	0	36.462	0	20.354	0	0	36.466	34.857	92.918	SG MWD+IFR1+ MS

10900	90	269.985	9804.199	20.717	0	36.701	0	20.717	0	0	36.706	34.872	92.822	XOM_R2OW SG MWD+IFR1+ MS
11000	90	269.983	9804.199	21.102	0	36.957	0	21.102	0	0	36.961	34.889	92.723	XOM_R2OW SG MWD+IFR1+ MS
11100	90	269.981	9804.2	21.51	0	37.228	0	21.51	0	0	37.233	34.906	92.626	XOM_R2OW SG MWD+IFR1+ MS
11200	90	269.978	9804.2	21.938	0	37.516	0	21.938	0	0	37.521	34.925	92.531	XOM_R2OW SG MWD+IFR1+ MS
11300	90	269.976	9804.201	22.385	0	37.819	0	22.385	0	0	37.824	34.944	92.439	XOM_R2OW SG MWD+IFR1+ MS
11400	90	269.974	9804.202	22.851	0	38.137	0	22.851	0	0	38.142	34.965	92.351	XOM_R2OW SG MWD+IFR1+ MS
11500	90	269.972	9804.203	23.333	0	38.469	0	23.333	0	0	38.475	34.987	92.268	XOM_R2OW SG MWD+IFR1+ MS
11600	89.999	269.97	9804.203	23.832	0	38.816	0	23.832	0	0	38.822	35.009	92.188	XOM_R2OW SG MWD+IFR1+ MS
11700	89.999	269.967	9804.204	24.346	0	39.177	0	24.346	0	0	39.183	35.033	92.113	XOM_R2OW SG MWD+IFR1+ MS
11800	89.999	269.965	9804.205	24.874	0	39.552	0	24.874	0	0	39.557	35.057	92.042	XOM_R2OW SG MWD+IFR1+ MS
11900	89.999	269.963	9804.206	25.415	0	39.94	0	25.415	0	0	39.945	35.083	91.975	XOM_R2OW SG MWD+IFR1+ MS
12000	89.999	269.961	9804.207	25.969	0	40.34	0	25.969	0	0	40.346	35.109	91.911	XOM_R2OW SG MWD+IFR1+ MS

12100	89.999	269.959	9804.209	26.534	0	40.753	0	26.534	0	0	40.759	35.137	91.85	XOM_R2OW SG MWD+IFR1+ MS
12200	89.999	269.956	9804.21	27.11	0	41.178	0	27.11	0	0	41.184	35.166	91.793	XOM_R2OW SG MWD+IFR1+ MS
12300	89.999	269.954	9804.211	27.697	0	41.615	0	27.697	0	0	41.62	35.195	91.739	XOM_R2OW SG MWD+IFR1+ MS
12400	89.999	269.952	9804.213	28.293	0	42.063	0	28.293	0	0	42.069	35.225	91.687	XOM_R2OW SG MWD+IFR1+ MS
12500	89.999	269.95	9804.214	28.898	0	42.522	0	28.898	0	0	42.527	35.257	91.639	XOM_R2OW SG MWD+IFR1+ MS
12600	89.999	269.948	9804.216	29.512	0	42.991	0	29.512	0	0	42.997	35.289	91.592	XOM_R2OW SG MWD+IFR1+ MS
12700	89.999	269.945	9804.217	30.133	0	43.471	0	30.133	0	0	43.477	35.323	91.548	XOM_R2OW SG MWD+IFR1+ MS
12800	89.999	269.943	9804.219	30.762	0	43.961	0	30.762	0	0	43.967	35.357	91.506	XOM_R2OW SG MWD+IFR1+ MS
12900	89.999	269.941	9804.221	31.398	0	44.46	0	31.398	0	0	44.466	35.392	91.466	XOM_R2OW SG MWD+IFR1+ MS
13000	89.999	269.939	9804.222	32.041	0	44.969	0	32.041	0	0	44.975	35.428	91.428	XOM_R2OW SG MWD+IFR1+ MS
13100	89.999	269.937	9804.224	32.69	0	45.487	0	32.69	0	0	45.493	35.465	91.391	XOM_R2OW SG MWD+IFR1+ MS
13200	89.999	269.934	9804.226	33.345	0	46.013	0	33.345	0	0	46.019	35.504	91.356	XOM_R2OW SG MWD+IFR1+ MS

13300	89.999	269.932	9804.228	34.005	0	46.548	0	34.005	0	0	46.554	35.543	91.323	XOM_R2OW SG MWD+IFR1+ MS
13400	89.999	269.93	9804.23	34.67	0	47.091	0	34.67	0	0	47.096	35.583	91.291	XOM_R2OW SG MWD+IFR1+ MS
13500	89.999	269.928	9804.232	35.34	0	47.641	0	35.34	0	0	47.647	35.624	91.26	XOM_R2OW SG MWD+IFR1+ MS
13600	89.999	269.926	9804.234	36.015	0	48.199	0	36.015	0	0	48.205	35.665	91.231	XOM_R2OW SG MWD+IFR1+ MS
13700	89.999	269.923	9804.237	36.695	0	48.765	0	36.695	0	0	48.771	35.708	91.203	XOM_R2OW SG MWD+IFR1+ MS
13800	89.999	269.921	9804.239	37.378	0	49.337	0	37.378	0	0	49.343	35.752	91.176	XOM_R2OW SG MWD+IFR1+ MS
13900	89.999	269.919	9804.241	38.065	0	49.917	0	38.065	0	0	49.922	35.796	91.149	XOM_R2OW SG MWD+IFR1+ MS
14000	89.999	269.917	9804.244	38.756	0	50.502	0	38.756	0	0	50.508	35.842	91.124	XOM_R2OW SG MWD+IFR1+ MS
14100	89.999	269.915	9804.246	39.451	0	51.095	0	39.451	0	0	51.1	35.888	91.1	XOM_R2OW SG MWD+IFR1+ MS
14200	89.999	269.912	9804.249	40.149	0	51.693	0	40.149	0	0	51.698	35.936	91.077	XOM_R2OW SG MWD+IFR1+ MS
14300	89.998	269.91	9804.251	40.85	0	52.297	0	40.85	0	0	52.303	35.984	91.055	XOM_R2OW SG MWD+IFR1+ MS
14400	89.998	269.908	9804.254	41.554	0	52.907	0	41.554	0	0	52.913	36.033	91.033	XOM_R2OW SG MWD+IFR1+ MS

14500	89.998	269.906	9804.257	42.261	0	53.523	0	42.261	0	0	53.528	36.083	91.012	XOM_R2OW SG MWD+IFR1+ MS
14600	89.998	269.904	9804.259	42.97	0	54.143	0	42.97	0	0	54.149	36.134	90.992	XOM_R2OW SG MWD+IFR1+ MS
14700	89.998	269.901	9804.262	43.682	0	54.769	0	43.682	0	0	54.775	36.186	90.972	XOM_R2OW SG MWD+IFR1+ MS
14800	89.998	269.899	9804.265	44.397	0	55.4	0	44.397	0	0	55.405	36.239	90.953	XOM_R2OW SG MWD+IFR1+ MS
14900	89.998	269.897	9804.268	45.114	0	56.036	0	45.114	0	0	56.041	36.293	90.935	XOM_R2OW SG MWD+IFR1+ MS
15000	89.998	269.895	9804.271	45.833	0	56.676	0	45.833	0	0	56.681	36.347	90.917	XOM_R2OW SG MWD+IFR1+ MS
15100	89.998	269.893	9804.274	46.554	0	57.321	0	46.554	0	0	57.326	36.403	90.9	XOM_R2OW SG MWD+IFR1+ MS
15200	89.998	269.89	9804.278	47.278	0	57.97	0	47.278	0	0	57.975	36.459	90.884	XOM_R2OW SG MWD+IFR1+ MS
15300	89.998	269.888	9804.281	48.003	0	58.623	0	48.003	0	0	58.628	36.516	90.867	XOM_R2OW SG MWD+IFR1+ MS
15400	89.998	269.886	9804.284	48.73	0	59.28	0	48.73	0	0	59.286	36.574	90.852	XOM_R2OW SG MWD+IFR1+ MS
15500	89.998	269.884	9804.288	49.459	0	59.942	0	49.459	0	0	59.947	36.633	90.836	XOM_R2OW SG MWD+IFR1+ MS
15600	89.998	269.882	9804.291	50.189	0	60.607	0	50.189	0	0	60.612	36.693	90.822	XOM_R2OW SG MWD+IFR1+ MS

15700	89.998	269.879	9804.295	50.921	0	61.275	0	50.921	0	0	61.281	36.753	90.807	XOM_R2OW SG MWD+IFR1+ MS
15800	89.998	269.877	9804.298	51.655	0	61.948	0	51.655	0	0	61.953	36.815	90.793	XOM_R2OW SG MWD+IFR1+ MS
15900	89.998	269.875	9804.302	52.39	0	62.623	0	52.39	0	0	62.629	36.877	90.78	XOM_R2OW SG MWD+IFR1+ MS
16000	89.998	269.873	9804.306	53.127	0	63.302	0	53.127	0	0	63.308	36.94	90.766	XOM_R2OW SG MWD+IFR1+ MS
16100	89.998	269.871	9804.309	53.865	0	63.985	0	53.865	0	0	63.99	37.004	90.754	XOM_R2OW SG MWD+IFR1+ MS
16200	89.998	269.868	9804.313	54.604	0	64.67	0	54.604	0	0	64.675	37.069	90.741	XOM_R2OW SG MWD+IFR1+ MS
16300	89.998	269.866	9804.317	55.344	0	65.358	0	55.344	0	0	65.363	37.134	90.729	XOM_R2OW SG MWD+IFR1+ MS
16400	89.998	269.864	9804.321	56.086	0	66.05	0	56.086	0	0	66.055	37.201	90.717	XOM_R2OW SG MWD+IFR1+ MS
16500	89.998	269.862	9804.325	56.829	0	66.744	0	56.829	0	0	66.749	37.268	90.705	XOM_R2OW SG MWD+IFR1+ MS
16600	89.998	269.86	9804.329	57.573	0	67.441	0	57.573	0	0	67.446	37.336	90.694	XOM_R2OW SG MWD+IFR1+ MS
16700	89.998	269.857	9804.333	58.318	0	68.14	0	58.318	0	0	68.145	37.405	90.682	XOM_R2OW SG MWD+IFR1+ MS
16800	89.998	269.855	9804.338	59.064	0	68.842	0	59.064	0	0	68.847	37.475	90.672	XOM_R2OW SG MWD+IFR1+ MS

16900	89.998	269.853	9804.342	59.811	0	69.547	0	59.811	0	0	69.552	37.545	90.661	XOM_R2OW SG MWD+IFR1+ MS
17000	89.997	269.851	9804.346	60.559	0	70.254	0	60.559	0	0	70.259	37.616	90.651	XOM_R2OW SG MWD+IFR1+ MS
17100	89.997	269.849	9804.351	61.308	0	70.963	0	61.308	0	0	70.968	37.688	90.641	XOM_R2OW SG MWD+IFR1+ MS
17200	89.997	269.846	9804.355	62.058	0	71.675	0	62.058	0	0	71.68	37.761	90.631	XOM_R2OW SG MWD+IFR1+ MS
17300	89.997	269.844	9804.36	62.809	0	72.389	0	62.809	0	0	72.394	37.835	90.621	XOM_R2OW SG MWD+IFR1+ MS
17400	89.997	269.842	9804.365	63.56	0	73.105	0	63.56	0	0	73.11	37.909	90.611	XOM_R2OW SG MWD+IFR1+ MS
17500	89.997	269.84	9804.369	64.312	0	73.823	0	64.312	0	0	73.828	37.985	90.602	XOM_R2OW SG MWD+IFR1+ MS
17600	89.997	269.838	9804.374	65.065	0	74.543	0	65.066	0	0	74.548	38.06	90.593	XOM_R2OW SG MWD+IFR1+ MS
17700	89.997	269.835	9804.379	65.819	0	75.265	0	65.819	0	0	75.27	38.137	90.584	XOM_R2OW SG MWD+IFR1+ MS
17800	89.997	269.833	9804.384	66.574	0	75.989	0	66.574	0	0	75.994	38.215	90.575	XOM_R2OW SG MWD+IFR1+ MS
17900	89.997	269.831	9804.389	67.329	0	76.715	0	67.329	0	0	76.72	38.293	90.567	XOM_R2OW SG MWD+IFR1+ MS
18000	89.997	269.829	9804.394	68.085	0	77.443	0	68.085	0	0	77.448	38.372	90.558	XOM_R2OW SG MWD+IFR1+ MS

18100	89.997	269.827	9804.399	68.841	0	78.172	0	68.841	0	0	78.177	38.452	90.55	XOM_R2OW SG MWD+IFR1+ MS
18200	89.997	269.824	9804.404	69.599	0	78.904	0	69.599	0	0	78.908	38.532	90.542	XOM_R2OW SG MWD+IFR1+ MS
18300	89.997	269.822	9804.409	70.356	0	79.636	0	70.356	0	0	79.641	38.613	90.534	XOM_R2OW SG MWD+IFR1+ MS
18400	89.997	269.82	9804.414	71.115	0	80.371	0	71.115	0	0	80.376	38.695	90.526	XOM_R2OW SG MWD+IFR1+ MS
18500	89.997	269.818	9804.42	71.874	0	81.107	0	71.874	0	0	81.112	38.778	90.519	XOM_R2OW SG MWD+IFR1+ MS
18600	89.997	269.816	9804.425	72.633	0	81.844	0	72.633	0	0	81.849	38.861	90.511	XOM_R2OW SG MWD+IFR1+ MS
18700	89.997	269.813	9804.431	73.393	0	82.583	0	73.393	0	0	82.588	38.945	90.504	XOM_R2OW SG MWD+IFR1+ MS
18800	89.997	269.811	9804.436	74.154	0	83.324	0	74.154	0	0	83.329	39.03	90.497	XOM_R2OW SG MWD+IFR1+ MS
18900	89.997	269.809	9804.442	74.915	0	84.066	0	74.915	0	0	84.07	39.116	90.49	XOM_R2OW SG MWD+IFR1+ MS
19000	89.997	269.807	9804.447	75.676	0	84.809	0	75.676	0	0	84.814	39.202	90.483	XOM_R2OW SG MWD+IFR1+ MS
19100	89.997	269.805	9804.453	76.438	0	85.554	0	76.438	0	0	85.558	39.289	90.476	XOM_R2OW SG MWD+IFR1+ MS
19200	89.997	269.802	9804.459	77.201	0	86.3	0	77.201	0	0	86.304	39.376	90.469	XOM_R2OW SG MWD+IFR1+ MS

19300	89.997	269.8	9804.465	77.963	0	87.047	0	77.963	0	0	87.051	39.465	90.462	XOM_R2OW SG MWD+IFR1+ MS
19400	89.997	269.798	9804.471	78.727	0	87.795	0	78.727	0	0	87.8	39.554	90.456	XOM_R2OW SG MWD+IFR1+ MS
19500	89.997	269.796	9804.477	79.49	0	88.545	0	79.49	0	0	88.549	39.643	90.449	XOM_R2OW SG MWD+IFR1+ MS
19600	89.997	269.794	9804.483	80.255	0	89.296	0	80.255	0	0	89.3	39.734	90.443	XOM_R2OW SG MWD+IFR1+ MS
19700	89.996	269.791	9804.489	81.019	0	90.047	0	81.019	0	0	90.052	39.825	90.437	XOM_R2OW SG MWD+IFR1+ MS
19800	89.996	269.789	9804.495	81.784	0	90.801	0	81.784	0	0	90.805	39.916	90.431	XOM_R2OW SG MWD+IFR1+ MS
19900	89.996	269.787	9804.501	82.549	0	91.555	0	82.549	0	0	91.559	40.009	90.425	XOM_R2OW SG MWD+IFR1+ MS
20000	89.996	269.785	9804.508	83.315	0	92.31	0	83.315	0	0	92.314	40.102	90.419	XOM_R2OW SG MWD+IFR1+ MS
20100	89.996	269.783	9804.514	84.081	0	93.066	0	84.081	0	0	93.071	40.195	90.413	XOM_R2OW SG MWD+IFR1+ MS
20200	89.996	269.78	9804.521	84.847	0	93.823	0	84.847	0	0	93.828	40.29	90.407	XOM_R2OW SG MWD+IFR1+ MS
20300	89.996	269.778	9804.527	85.614	0	94.582	0	85.614	0	0	94.586	40.384	90.401	XOM_R2OW SG MWD+IFR1+ MS
20400	89.996	269.776	9804.534	86.381	0	95.341	0	86.381	0	0	95.345	40.48	90.396	XOM_R2OW SG MWD+IFR1+ MS

20500	89.996	269.774	9804.54	87.148	0	96.101	0	87.148	0	0	96.106	40.576	90.39	XOM_R2OW SG MWD+IFR1+ MS
20600	89.996	269.772	9804.547	87.916	0	96.862	0	87.916	0	0	96.867	40.673	90.385	XOM_R2OW SG MWD+IFR1+ MS
20700	89.996	269.769	9804.554	88.684	0	97.624	0	88.684	0	0	97.629	40.771	90.379	XOM_R2OW SG MWD+IFR1+ MS
20800	89.996	269.767	9804.561	89.452	0	98.387	0	89.452	0	0	98.391	40.869	90.374	XOM_R2OW SG MWD+IFR1+ MS
20900	89.996	269.765	9804.567	90.22	0	99.151	0	90.221	0	0	99.155	40.967	90.369	XOM_R2OW SG MWD+IFR1+ MS
21000	89.996	269.763	9804.574	90.989	0	99.915	0	90.989	0	0	99.92	41.067	90.364	XOM_R2OW SG MWD+IFR1+ MS
21100	89.996	269.761	9804.581	91.758	0	100.68	0	91.758	0	0	100.685	41.167	90.359	XOM_R2OW SG MWD+IFR1+ MS
21200	89.996	269.758	9804.589	92.528	0	101.447	0	92.528	0	0	101.451	41.267	90.354	XOM_R2OW SG MWD+IFR1+ MS
21300	89.996	269.756	9804.596	93.297	0	102.214	0	93.297	0	0	102.218	41.368	90.349	XOM_R2OW SG MWD+IFR1+ MS
21400	89.996	269.754	9804.603	94.067	0	102.981	0	94.067	0	0	102.986	41.47	90.344	XOM_R2OW SG MWD+IFR1+ MS
21500	89.996	269.752	9804.61	94.837	0	103.75	0	94.837	0	0	103.754	41.572	90.339	XOM_R2OW SG MWD+IFR1+ MS
21600	89.996	269.75	9804.618	95.607	0	104.519	0	95.607	0	0	104.523	41.675	90.334	XOM_R2OW SG MWD+IFR1+ MS

21700	89.996	269.747	9804.625	96.378	0	105.289	0	96.378	0	0	105.293	41.779	90.329	XOM_R2OW SG MWD+IFR1+ MS
21800	89.996	269.745	9804.633	97.149	0	106.059	0	97.149	0	0	106.064	41.883	90.325	XOM_R2OW SG MWD+IFR1+ MS
21900	89.996	269.743	9804.64	97.92	0	106.831	0	97.92	0	0	106.835	41.987	90.32	XOM_R2OW SG MWD+IFR1+ MS
22000	89.996	269.741	9804.648	98.691	0	107.603	0	98.691	0	0	107.607	42.093	90.315	XOM_R2OW SG MWD+IFR1+ MS
22100	89.996	269.739	9804.655	99.462	0	108.375	0	99.462	0	0	108.38	42.198	90.311	XOM_R2OW SG MWD+IFR1+ MS
22200	89.996	269.736	9804.663	100.234	0	109.148	0	100.234	0	0	109.153	42.305	90.307	XOM_R2OW SG MWD+IFR1+ MS
22300	89.996	269.734	9804.671	101.006	0	109.922	0	101.006	0	0	109.927	42.412	90.302	XOM_R2OW SG MWD+IFR1+ MS
22400	89.995	269.732	9804.679	101.778	0	110.697	0	101.778	0	0	110.701	42.519	90.298	XOM_R2OW SG MWD+IFR1+ MS
22500	89.995	269.73	9804.687	102.55	0	111.472	0	102.55	0	0	111.477	42.627	90.294	XOM_R2OW SG MWD+IFR1+ MS
22600	89.995	269.728	9804.695	103.322	0	112.248	0	103.323	0	0	112.252	42.735	90.289	XOM_R2OW SG MWD+IFR1+ MS
22700	89.995	269.725	9804.703	104.095	0	113.024	0	104.095	0	0	113.028	42.845	90.285	XOM_R2OW SG MWD+IFR1+ MS
22800	89.995	269.723	9804.711	104.868	0	113.801	0	104.868	0	0	113.805	42.954	90.281	XOM_R2OW SG MWD+IFR1+ MS

22900	89.995	269.721	9804.719	105.641	0	114.578	0	105.641	0	0	114.583	43.064	90.277	XOM_R2OW SG MWD+IFR1+ MS
23000	89.995	269.719	9804.727	106.414	0	115.356	0	106.414	0	0	115.361	43.175	90.273	XOM_R2OW SG MWD+IFR1+ MS
23100	89.995	269.717	9804.736	107.187	0	116.134	0	107.187	0	0	116.139	43.286	90.269	XOM_R2OW SG MWD+IFR1+ MS
23200	89.995	269.714	9804.744	107.961	0	116.913	0	107.961	0	0	116.918	43.398	90.265	XOM_R2OW SG MWD+IFR1+ MS
23300	89.995	269.712	9804.753	108.734	0	117.693	0	108.734	0	0	117.697	43.51	90.261	XOM_R2OW SG MWD+IFR1+ MS
23400	89.995	269.71	9804.761	109.508	0	118.473	0	109.508	0	0	118.477	43.623	90.257	XOM_R2OW SG MWD+IFR1+ MS
23500	89.995	269.708	9804.77	110.282	0	119.253	0	110.282	0	0	119.258	43.736	90.253	XOM_R2OW SG MWD+IFR1+ MS
23600	89.995	269.706	9804.778	111.056	0	120.034	0	111.056	0	0	120.039	43.85	90.249	XOM_R2OW SG MWD+IFR1+ MS
23700	89.995	269.703	9804.787	111.83	0	120.816	0	111.831	0	0	120.82	43.964	90.245	XOM_R2OW SG MWD+IFR1+ MS
23800	89.995	269.701	9804.796	112.605	0	121.597	0	112.605	0	0	121.602	44.079	90.242	XOM_R2OW SG MWD+IFR1+ MS
23900	89.995	269.699	9804.805	113.379	0	122.38	0	113.379	0	0	122.385	44.194	90.238	XOM_R2OW SG MWD+IFR1+ MS
24000	89.995	269.697	9804.814	114.154	0	123.163	0	114.154	0	0	123.167	44.31	90.234	XOM_R2OW SG MWD+IFR1+ MS

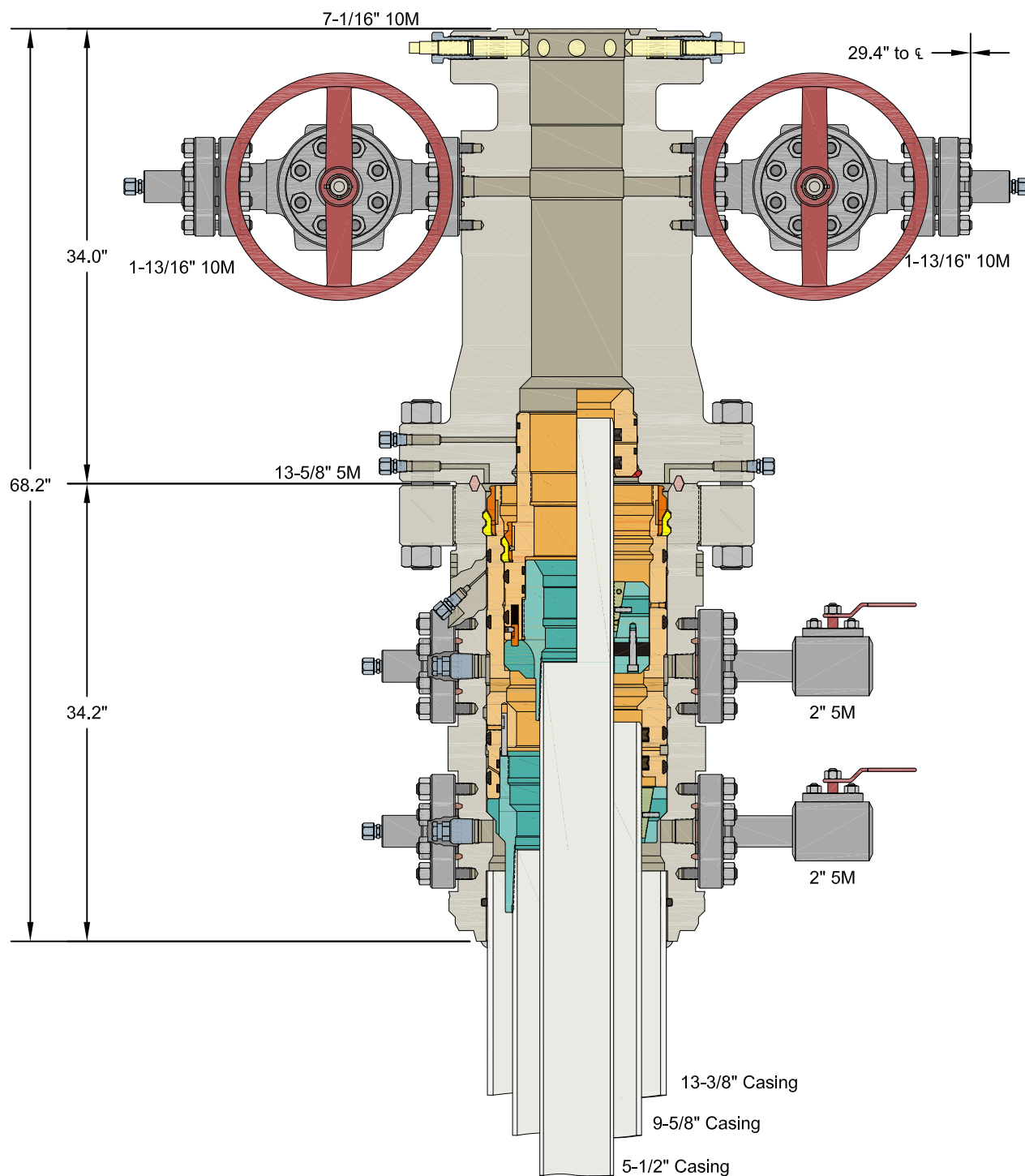
24100	89.995	269.695	9804.823	114.929	0	123.946	0	114.929	0	0	123.951	44.426	90.231	XOM_R2OW SG MWD+IFR1+ MS
24200	89.995	269.692	9804.832	115.704	0	124.729	0	115.704	0	0	124.734	44.543	90.227	XOM_R2OW SG MWD+IFR1+ MS
24300	89.995	269.69	9804.841	116.479	0	125.513	0	116.479	0	0	125.518	44.66	90.223	XOM_R2OW SG MWD+IFR1+ MS
24400	89.995	269.688	9804.85	117.254	0	126.298	0	117.254	0	0	126.303	44.777	90.22	XOM_R2OW SG MWD+IFR1+ MS
24500	89.995	269.686	9804.859	118.029	0	127.083	0	118.029	0	0	127.088	44.895	90.216	XOM_R2OW SG MWD+IFR1+ MS
24600	89.995	269.684	9804.869	118.805	0	127.868	0	118.805	0	0	127.873	45.014	90.213	XOM_R2OW SG MWD+IFR1+ MS
24700	89.995	269.681	9804.878	119.58	0	128.654	0	119.581	0	0	128.659	45.133	90.209	XOM_R2OW SG MWD+IFR1+ MS
24800	89.995	269.679	9804.887	120.356	0	129.44	0	120.356	0	0	129.445	45.252	90.206	XOM_R2OW SG MWD+IFR1+ MS
24900	89.995	269.677	9804.897	121.132	0	130.226	0	121.132	0	0	130.231	45.372	90.203	XOM_R2OW SG MWD+IFR1+ MS
25000	89.995	269.675	9804.906	121.908	0	131.013	0	121.908	0	0	131.018	45.493	90.199	XOM_R2OW SG MWD+IFR1+ MS
25100	89.994	269.673	9804.916	122.684	0	131.8	0	122.684	0	0	131.805	45.614	90.196	XOM_R2OW SG MWD+IFR1+ MS
25200	89.994	269.67	9804.926	123.46	0	132.588	0	123.46	0	0	132.593	45.735	90.193	XOM_R2OW SG MWD+IFR1+ MS

25300	89.994	269.668	9804.936	124.236	0	133.376	0	124.236	0	0	133.38	45.857	90.189	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
25400	89.994	269.666	9804.945	125.013	0	134.164	0	125.013	0	0	134.169	45.979	90.186	SG MWD+IFR1+ MS XOM_R2OW
25500	89.994	269.664	9804.955	125.789	0	134.952	0	125.789	0	0	134.957	46.101	90.183	SG MWD+IFR1+ MS XOM_R2OW
25600	89.994	269.662	9804.965	126.566	0	135.741	0	126.566	0	0	135.746	46.224	90.18	SG MWD+IFR1+ MS XOM_R2OW
25700	89.994	269.659	9804.975	127.342	0	136.53	0	127.343	0	0	136.535	46.348	90.176	SG MWD+IFR1+ MS XOM_R2OW
25800	89.994	269.657	9804.985	128.119	0	137.32	0	128.119	0	0	137.325	46.472	90.173	SG MWD+IFR1+ MS XOM_R2OW
25900	89.994	269.655	9804.995	128.896	0	138.11	0	128.896	0	0	138.115	46.596	90.17	SG MWD+IFR1+ MS XOM_R2OW
25944.75	89.994	269.654	9805	129.244	0	138.463	0	129.244	0	0	138.468	46.652	90.169	SG MWD+IFR1+ MS

Plan Targets					BEU BB JABBA 101H				
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape				
FTP 3	10224.84	565411.9	675874.09	6262	CIRCLE				
LTP 3	25894.8	565364.37	660204.04	6262	CIRCLE				
BHL 3	25944.75	565364.42	660154.09	6262	CIRCLE				



GE Oil & Gas



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XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead
Assembly, With T-EBS-F Tubing Head

DRAWN

VJK

16FFB17

APPRV

KN

16FEB17

FOR REFERENCE ONLY

DRAWING NO.

10012842

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 (OOGO) No. 2, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. OOGO No. 2, Section I.D.2 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since OOGO No. 2 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. OOGO No. 2 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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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 ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or 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.

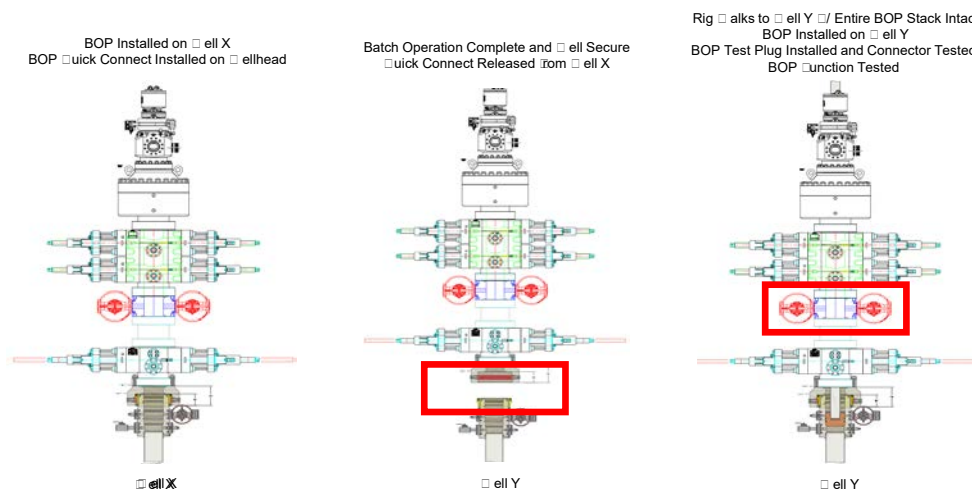
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the OOGO No.2.

Procedures

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 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.

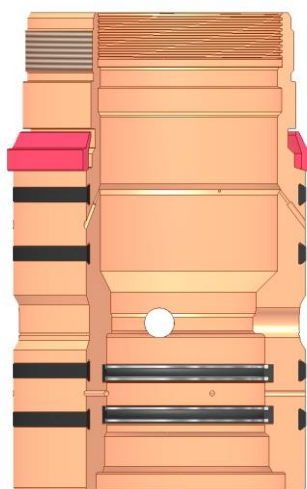
1. Cement Program

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.



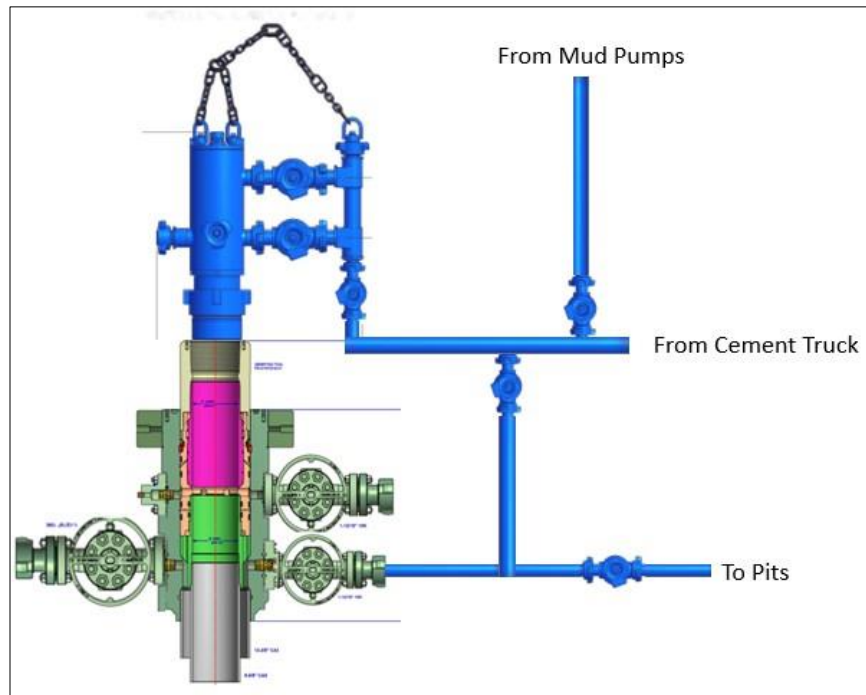
Annular packoff with both external and internal seals

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.

Sec 22 20S 32E MP 2682661 Big Eddy Unit DI BB Jabba 101H Lea M M033955 XTO 13 22 44804 Illison
Morency

Big Eddy Unit DI BB Jabba 101H

18 5/8	surface csg in a	24	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"□"	87.50	J 55	BTC	14.25	1.24	1.49	1066	5	2.50	2.29	93275
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,110				Tail Cmt	does not	circ to sfc.	Totals:	1066			93275
Comparison of Proposed to Minimum Required Cement Volumes											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
24	1.2496	1890	3356	1332	152	9.20	901	2M			12.00
Site plat (pipe racks S or E) as per O.O.I.III D.4.1. not found.											

13 3/8	casing inside the	18 5/8	Design Factors					Int 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"□"	54.50	J 55	BTC	5.65	0.75	1.93	2769	2	3.48	1.25	150911
"B"							0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	2769			150911
The cement volume(s) are intended to achieve a top of				0	ft from surface or a			1066			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
17 1/2	0.6946	2060	3825	1976	94	10.50	785	2M			1.56
Class 'H' tail cmt yld > 1.20											

9 5/8	casing inside the		13 3/8	Design Factors					Int 2		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"□"	40.00	HCP 110	BTC	10.98	2.99	3.08	2869	6	5.35	5.39	114760
"B"	40.00	HCL 80	BTC	∞	2.99	2.24	2,166	4	3.89	5.39	86,640
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	5035	201400		
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		2769			overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
12 1/4	0.3132	1390	3149	1714	84	9.50	1478	2M			0.81
Class 'C' tail cmt yld > 1.35											

5 1/2	casing inside the		9 5/8	Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"□"	20.00	RY P 110	Semi-Premiur	6.49	4.33	4.93	4935	5	8.55	7.51	98700
"B"	20.00	RY P 110	Semi-Flush	∞	4.33	4.93	21,938	5	8.55	7.51	438,760
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	26873	537460		
The cement volume(s) are intended to achieve a top of					4400	ft from surface or a		635	overlap.		
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg		
8 1/2	0.2291	3320	5438	5168	5	10.00			1.30		
Class 'C' tail cmt yld > 1.35											
Capitan Reef est top XXXX.											

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Big Eddy Unit DI BB Jabba 101H
LOCATION:	Sec 22-20S-32E-NMP
COUNTY:	Lea County, New Mexico

Updated COAs per Sundry 2682660 approved through engineering on 08/31/2022.

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **18 5/8** inch surface casing shall be set at approximately 1177 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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.

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

2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing set at 2,800 ft is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In R111 Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.

3. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is: Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is: Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.
 - a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

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

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

A. CASING

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

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500

feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

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

CONDITIONS

Action 140780

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 140780
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/7/2022