

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

Sundry Print Reports

Well Name: BIG EDDY UNIT DI BB Well Location: T20S / R32E / SEC 22 / County or Parish/State: LEA /

JABBA SWSW / 32.5522 / -103.76058

Well Number: 104H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMLC065750A, Unit or CA Name: BIG EDDY Unit or CA Number:

NMNM33955 NMNM68294X

US Well Number: 3002547270 Well Status: Approved Application for Operator: XTO PERMIAN

Permit to Drill OPERATING LLC

Notice of Intent

Sundry ID: 2682661

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 07/19/2022 Time Sundry Submitted: 05:16

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/270'FSL & 915'FWL to 290'FSL & 640'FWL. Well Stays in the Same Quarter-Quarter as Permitted Total SHL Move: 20'North & 275'East 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_104H_Attachments_20220719051551.pdf

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eived by OCD: 9/6/2022 11:49:22 AM Well Name: BIG EDDY UNIT DI BB

JABBA

Well Location: T20S / R32E / SEC 22 /

SWSW / 32.5522 / -103.76058

County or Parish/State: LEA/ 2 of

NM

Well Number: 104H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC065750A,

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Unit or CA Name: BIG EDDY

Unit or CA Number:

NMNM68294X

US Well Number: 3002547270

Well Status: Approved Application for

Permit to Drill

Operator: XTO PERMIAN

OPERATING LLC

Conditions of Approval

Additional

Sec 22 20S 32E NMP 2682661 Big Eddy Unit DI BB Jabba 104H Lea NMNM033955 XTO COAs 2022083113 2034.pdf

Sec_22_20S_32E_NMP_2682661_Big_Eddy_Unit_DI_BB_Jabba_104H_Lea_NMNM033955_XTO_13_22_44804_Allis on_Morency_20220831132034.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 05:15 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 Date: 09/02/2022 **Disposition:** Approved

Signature: Chris Walls

Page 2 of 2

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

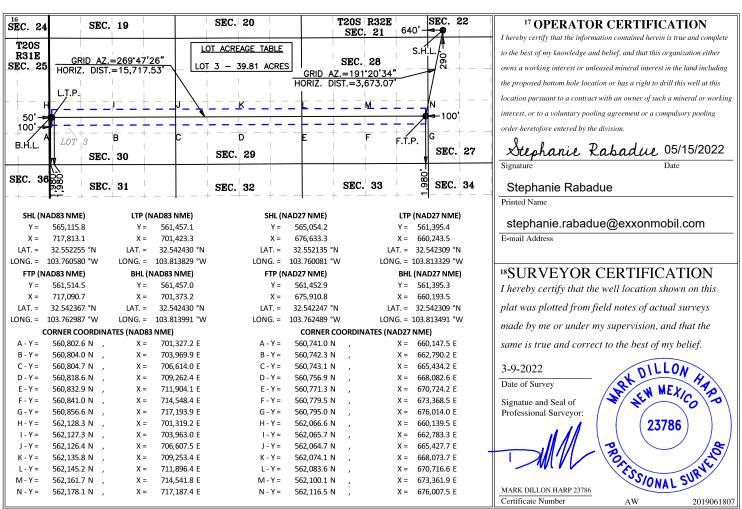
¹ API Numbe 30-025-4	² Pool Code 53560	³ Pool Name Salt Lake; Bone Spring	
⁴ Property Code 328261		operty Name t DI BB Jabba	⁶ Well Number 104H
⁷ OGRID No.	8 OI	perator Name	⁹ Elevation
373075	XTO PERMIA	N OPERATING, LLC.	3,529'

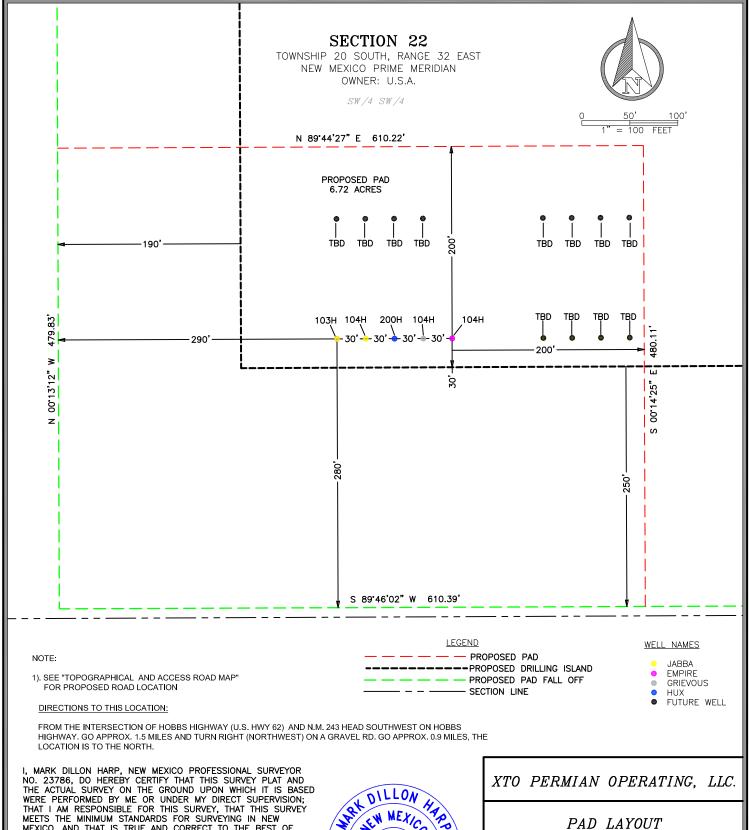
¹⁰ Surface Location

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		290	SOUTH	SOUTH 640		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			

CE of for no.	Section	Township	Kunge	Lot Iun	r cet ii om the	1 torth South line	r cet ii om the	Bust 11 est inic	County	
3	30	20 S	32 E		1,980	SOUTH	50	WEST	LEA	
12 Dedicated Acres	13 Joint or	· Infill 14 (Consolidation	Code 15 Or	der No.					
479.81										

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.





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

MARK DILLON HARP

REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 23786



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

SEW MEXICO

23786

FSS/ONAL SUR

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PAD LAYOUT

BIG EDDY UNIT BB PROPOSED PAD LOCATED 625 FEET FROM THE WEST LINE AND 250 FEET FROM THE SOUTH LINE OF SECTION 22, TOWNSHIP 20 SOUTH, RANGE 32 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

	DATE:	07-05-2022	PROJECT NO:	2017111944
	DRAWN BY:	LM	SCALE:	1" = 100'
	CHECKED BY:	DH	SHEET:	1 OF 1
	FIELD CREW:	RE	REVISION:	0
_	TIEED CREW.	NL.	REVISION.	

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

XTO Energy Inc.

Big Eddy Unit Blue Bird Jabba 104H Projected TD: 26873' MD / 9805' TVD SHL: 290' FSL & 640' FWL , Section 22, T20S, R32E BHL: 1980' FSL & 50' FWL , Section 30, 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

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 26873 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	втс	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	втс	New	2.94	3.15	6.26
12.25	2869' – 5035'	9.625	40	HC L-80	втс	New	2.14	3.05	10.57
8.5	0' – 4935'	5.5	20	RY P-110	Semi-Premium	New	1.05	4.55	1.92
8.5	4935' - 26873'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.29	2.13

[·] 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

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

 \cdot 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)

10C: 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 +/- 26873'

1st Stage

 Lead: 390 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:
 10032 feet

 Compressives:
 12-hr =
 1375 psi
 24 hr = 2285 psi

2nd Stage Bradenhead (if needed)

Optional 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 (4985') 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: 1490 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: 10032 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 Hydril 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 nippling up on the 18.625, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling 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	Viscosity	Fluid Loss
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(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 26873'	8.5	ОВМ	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 104H

Measured

26873.21 ft

Depth: TVD RKB:

Released to Imaging: 9/7/2022 9:48:52 AM

9805.00 ft

Location

Cartographic New Mexico Reference East - NAD System: 27

Northing: 565055.30 ft

Easting: 676615.82 ft

RKB: 3543.00 ft

Ground Level:

3513.00 ft

North

Reference: Convergenc

0.31 Deg e Angle:

Site:

BlueBird

Grid

BEU BB Slot: JABBA 104H

Plan BEU BB Sections JABBA 104H

> Measured TVD Build Turn Dogleg Inclination Azimuth RKB Y Offset X Offset Rate Depth Rate Rate (ft) (Deg) (Deg) (ft) (ft) (ft) (Deg/100ft) (Deg/100ft) (Deg/100ft) Target

0	0	0	0	0	-0.01	0	0	0
2850	0	0	2850	0	-0.01	0	0	0
4364.53	30.29	180.12	4294.96	-391.1	-0.84	2	0	2
10031.69	30.29	180.12	9188.42	-3249.54	-6.92	0	0	0
11154.55	90	269.78	9805	-3612.41	-721.75	5.32	7.99	8 FTP 6
26873.21	90	269.78	9805	-3671.73	-16440.3	0	0	0 BHL 6

BEU BB Position Uncertainty JABBA 104H

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Measured			TVD	Highside		Lateral		Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	XOM_R20 SG 0 MWD+IFF MS
100	0	0	100	0.358	0	0.358	0	2.299	0	0	0.358	0.358	MS XOM_R20 SG MWD+IFF MS
200	0	0	200	0.717	0	0.717	0	2.307	0	0	0.717	0.717	XOM_R20 SG 0 MWD+IFI MS
300	0	0	300	1.075	0	1.075	0	2.321	0	0	1.075	1.075	XOM_R2 0 SG MWD+IF MS
400	0	0	400	1.434	0	1.434	0	2.34	0	0	1.434	1.434	XOM_R2 SG 0 MWD+IF MS
500	0	0	500	1.792	0	1.792	0	2.364	0	0	1.792	1.792	XOM_R2 SG 0 MWD+IF MS
600	0	0	600	2.151	0	2.151	0	2.394	0	0	2.151	2.151	XOM_R2 0 SG MWD+IF MS

P	
ag	
e 1.	
30	
f 55	

700	0	0	700	2.509	0	2.509	0	2.428	0	0	2.509	2.509	XOM_R2OW SG MWD+IFR1+ MS
800	0	0	800	2.868	0	2.868	0	2.467	0	0	2.868	2.868	XOM_R2OW 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
1000	0	0	1000	3.585	0	3.585	0	2.56	0	0	3.585	3.585	XOM_R2OW O SG MWD+IFR1+ MS
1100	0	0	1100	3.943	0	3.943	0	2.613	0	0	3.943	3.943	XOM_R2OW 0 SG MWD+IFR1+ MS
1200	0	0	1200	4.302	0	4.302	0	2.67	0	0	4.302	4.302	XOM_R2OW SG 0 MWD+IFR1+ MS
1300	0	0	1300	4.66	0	4.66	0	2.731	0	0	4.66	4.66	XOM_R2OW O SG MWD+IFR1+ MS
1400	0	0	1400	5.019	0	5.019	0	2.797	0	0	5.019	5.019	XOM_R2OW SG 0 MWD+IFR1+ MS
1500	0	0	1500	5.377	0	5.377	0	2.866	0	0	5.377	5.377	XOM_R2OW SG 0 MWD+IFR1+ MS
1600	0	0	1600	5.736	0	5.736	0	2.939	0	0	5.736	5.736	XOM_R2OW SG 0 MWD+IFR1+ MS
1700	0	0	1700	6.094	0	6.094	0	3.016	0	0	6.094	6.094	XOM_R2OW SG 0 MWD+IFR1+ MS
1800	0	0	1800	6.452	0	6.452	0	3.096	0	0	6.452	6.452	XOM_R2OW SG 0 MWD+IFR1+ MS

1900	0	0	1900	6.811	0	6.811	0	3.179	0	0	6.811	6.811	XOM_R2OW O SG MWD+IFR1+ MS XOM_R2OW
2000	0	0	2000	7.169	0	7.169	0	3.266	0	0	7.169	7.169	SG 0 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
2850	0	0	2850	10.216	0	10.216	0	4.123	0	0	10.216	10.216	0 SG MWD+IFR1+ MS XOM_R2OW
2900	1	180.122	2899.997	10.385	0	10.387	0	4.179	0	0	10.386	10.386	135 SG MWD+IFR1+ MS

3000	3	180.122	2999.931	10.697	0	10.71	0	4.294	0	0	10.71	10.71	XOM_R2OW SG MWD+IFR1+
3100	5	180.122	3099.683	10.999	0	11.035	0	4.41	0	0	11.035	11.035	MS XOM_R2OW
													-0.142 MWD+IFR1+ MS XOM_R2OW
3200	7	180.122	3199.13	11.291	0	11.362	0	4.527	0	0	11.362	11.361	-0.054 SG MWD+IFR1+ MS XOM_R2OW
3300	9	180.122	3298.152	11.572	0	11.691	0	4.645	0	0	11.691	11.688	-0.001 SG MWD+IFR1+ MS
3400	11	180.122	3396.628	11.843	0	12.021	0	4.765	0	0	12.021	12.015	XOM_R2OW 0.03 SG MWD+IFR1+ MS
3500	13	180.122	3494.437	12.103	0	12.352	0	4.888	0	0	12.352	12.342	XOM_R2OW 0.05 SG MWD+IFR1+
3600	15	180.122	3591.462	12.352	0	12.685	0	5.013	0	0	12.685	12.669	MS XOM_R2OW SG 0.064 MWD+IFR1+
3700	17	180.122	3687.583	12.591	0	13.018	0	5.141	0	0	13.018	12.996	MS XOM_R2OW
3700	-,	100.122	3007.303	12.331	Ü	13.010	· ·	3.111	ŭ	Ü	13.010	12.330	MS XOM_R2OW
3800	19	180.122	3782.684	12.82	0	13.354	0	5.273	0	0	13.354	13.322	0.082 SG MWD+IFR1+ MS XOM_R2OW
3900	21	180.122	3876.649	13.04	0	13.691	0	5.41	0	0	13.691	13.648	0.088 SG MWD+IFR1+ MS
4000	23	180.122	3969.362	13.251	0	14.03	0	5.553	0	0	14.03	13.974	XOM_R2OW 0.093 SG MWD+IFR1+ MS
4100	25	180.122	4060.712	13.453	0	14.372	0	5.702	0	0	14.372	14.3	XOM_R2OW XOM_R2OW SG 0.097 MWD+IFR1+ MS

4200	27	180.122	4150.587	13.649	0	14.716	0	5.86	0	0	14.716	14.625	XOM_R2OW 0.101 SG MWD+IFR1+ MS
4300	29	180.122	4238.877	13.837	0	15.062	0	6.026	0	0	15.062	14.949	XOM_R2OW SG 0.104 MWD+IFR1+ MS XOM_R2OW
4364.535	30.291	180.122	4294.964	13.956	0	15.287	0	6.137	0	0	15.287	15.159	0.106 SG MWD+IFR1+ MS XOM_R2OW
4400	30.291	180.122	4325.587	14.088	0	15.412	0	6.202	0	0	15.412	15.273	0.107 SG MWD+IFR1+ MS
4500	30.291	180.122	4411.935	14.467	0	15.766	0	6.401	0	0	15.766	15.597	XOM_R2OW 0.109 SG MWD+IFR1+ MS
4600	30.291	180.122	4498.282	14.853	0	16.126	0	6.609	0	0	16.126	15.926	XOM_R2OW 0.111 SG MWD+IFR1+ MS
4700	30.291	180.122	4584.63	15.246	0	16.49	0	6.824	0	0	16.49	16.261	XOM_R2OW 0.112 SG MWD+IFR1+ MS
4800	30.291	180.122	4670.978	15.645	0	16.858	0	7.046	0	0	16.858	16.601	XOM_R2OW 0.113 SG MWD+IFR1+ MS
4900	30.291	180.122	4757.326	16.051	0	17.231	0	7.274	0	0	17.231	16.946	XOM_R2OW 0.114 SG MWD+IFR1+ MS
5000	30.291	180.122	4843.673	16.462	0	17.607	0	7.508	0	0	17.607	17.295	XOM_R2OW SG MWD+IFR1+ MS
5100	30.291	180.122	4930.021	16.878	0	17.987	0	7.747	0	0	17.987	17.649	XOM_R2OW 0.115 SG MWD+IFR1+ MS
5200	30.291	180.122	5016.369	17.299	0	18.37	0	7.992	0	0	18.37	18.007	XOM_R2OW 0.116 SG MWD+IFR1+ MS

5300	30.291	180.122	5102.717	17.725	0	18.756	0	8.241	0	0	18.756	18.369	XOM_R2OW 0.117 SG MWD+IFR1+ MS
5400	30.291	180.122	5189.064	18.154	0	19.146	0	8.494	0	0	19.146	18.735	XOM_R2OW SG 0.117 MWD+IFR1+ MS
5500	30.291	180.122	5275.412	18.588	0	19.538	0	8.752	0	0	19.538	19.105	XOM_R2OW SG MWD+IFR1+ MS
5600	30.291	180.122	5361.76	19.025	0	19.932	0	9.014	0	0	19.932	19.477	XOM_R2OW SG MWD+IFR1+ MS
5700	30.291	180.122	5448.108	19.465	0	20.329	0	9.279	0	0	20.329	19.853	XOM_R2OW 0.119 SG MWD+IFR1+ MS
5800	30.291	180.122	5534.455	19.909	0	20.728	0	9.548	0	0	20.728	20.232	XOM_R2OW SG MWD+IFR1+ MS
5900	30.291	180.122	5620.803	20.355	0	21.13	0	9.819	0	0	21.13	20.614	XOM_R2OW SG 0.12 MWD+IFR1+ MS
6000	30.291	180.122	5707.151	20.804	0	21.533	0	10.094	0	0	21.533	20.998	XOM_R2OW SG 0.12 MWD+IFR1+ MS
6100	30.291	180.122	5793.499	21.256	0	21.938	0	10.372	0	0	21.938	21.385	XOM_R2OW SG 0.12 MWD+IFR1+ MS
6200	30.291	180.122	5879.846	21.71	0	22.346	0	10.653	0	0	22.346	21.775	XOM_R2OW SG 0.121 MWD+IFR1+ MS
6300	30.291	180.122	5966.194	22.166	0	22.755	0	10.936	0	0	22.755	22.167	XOM_R2OW SG 0.121 MWD+IFR1+ MS
6400	30.291	180.122	6052.542	22.624	0	23.165	0	11.222	0	0	23.165	22.561	XOM_R2OW SG 0.121 MWD+IFR1+ MS

6500	30.291	180.122	6138.89	23.085	0	23.577	0	11.511	0	0	23.577	22.957	XOM_R2OW 0.122 SG MWD+IFR1+
6600	30.291	180.122	6225.237	23.547	0	23.991	0	11.801	0	0	23.991	23.355	MS XOM_R2OW SG 0.122 MWD+IFR1+
6700	30.291	180.122	6311.585	24.011	0	24.406	0	12.094	0	0	24.406	23.756	MS XOM_R2OW SG 0.123 MWD+IFR1+ MS
6800	30.291	180.122	6397.933	24.476	0	24.822	0	12.389	0	0	24.822	24.158	XOM_R2OW SG 0.123 MWD+IFR1+ MS
6900	30.291	180.122	6484.281	24.944	0	25.24	0	12.687	0	0	25.24	24.562	XOM_R2OW SG MWD+IFR1+ MS
7000	30.291	180.122	6570.628	25.412	0	25.659	0	12.986	0	0	25.659	24.967	XOM_R2OW SG 0.124 MWD+IFR1+ MS
7100	30.291	180.122	6656.976	25.882	0	26.078	0	13.287	0	0	26.078	25.375	XOM_R2OW 0.124 SG MWD+IFR1+ MS
7200	30.291	180.122	6743.324	26.354	0	26.499	0	13.591	0	0	26.499	25.784	XOM_R2OW SG 0.124 MWD+IFR1+ MS
7300	30.291	180.122	6829.671	26.826	0	26.921	0	13.896	0	0	26.921	26.194	XOM_R2OW 0.125 SG MWD+IFR1+ MS
7400	30.291	180.122	6916.019	27.3	0	27.345	0	14.203	0	0	27.345	26.606	XOM_R2OW 0.125 SG MWD+IFR1+ MS
7500	30.291	180.122	7002.367	27.775	0	27.769	0	14.512	0	0	27.769	27.019	XOM_R2OW SG MWD+IFR1+ MS
7600	30.291	180.122	7088.715	28.251	0	28.193	0	14.823	0	0	28.193	27.434	XOM_R2OW SG 0.125 MWD+IFR1+ MS

7700	30.291	180.122	7175.062	28.728	0	28.619	0	15.136	0	0	28.619	27.85	XOM_R2OW 0.126 SG MWD+IFR1+ MS
7800	30.291	180.122	7261.41	29.206	0	29.046	0	15.45	0	0	29.046	28.268	XOM_R2OW SG 0.126 MWD+IFR1+ MS XOM_R2OW
7900	30.291	180.122	7347.758	29.685	0	29.473	0	15.766	0	0	29.473	28.686	0.126 SG MWD+IFR1+ MS XOM_R2OW
8000	30.291	180.122	7434.106	30.165	0	29.901	0	16.084	0	0	29.901	29.106	0.127 SG MWD+IFR1+ MS
8100	30.291	180.122	7520.453	30.645	0	30.33	0	16.403	0	0	30.33	29.527	XOM_R2OW 0.127 SG MWD+IFR1+ MS
8200	30.291	180.122	7606.801	31.127	0	30.759	0	16.725	0	0	30.759	29.949	XOM_R2OW SG 0.127 MWD+IFR1+ MS
8300	30.291	180.122	7693.149	31.609	0	31.19	0	17.047	0	0	31.19	30.372	XOM_R2OW O.128 SG MWD+IFR1+ MS
8400	30.291	180.122	7779.497	32.092	0	31.62	0	17.372	0	0	31.62	30.797	XOM_R2OW SG 0.128 MWD+IFR1+ MS
8500	30.291	180.122	7865.844	32.576	0	32.052	0	17.698	0	0	32.052	31.222	XOM_R2OW SG MWD+IFR1+ MS
8600	30.291	180.122	7952.192	33.06	0	32.484	0	18.025	0	0	32.484	31.648	XOM_R2OW SG MWD+IFR1+ MS
8700	30.291	180.122	8038.54	33.545	0	32.916	0	18.354	0	0	32.916	32.076	XOM_R2OW O.129 SG MWD+IFR1+ MS
8800	30.291	180.122	8124.888	34.03	0	33.35	0	18.685	0	0	33.35	32.504	XOM_R2OW SG 0.129 MWD+IFR1+ MS

8900	30.291	180.122	8211.235	34.516	0	33.783	0	19.018	0	0	33.783	32.933	XOM_R2OW 0.13 SG MWD+IFR1+ MS
9000	30.291	180.122	8297.583	35.003	0	34.217	0	19.352	0	0	34.217	33.363	XOM_R2OW 0.13 SG MWD+IFR1+ MS
9100	30.291	180.122	8383.931	35.49	0	34.652	0	19.687	0	0	34.652	33.795	XOM_R2OW 0.13 SG MWD+IFR1+ MS
9200	30.291	180.122	8470.279	35.978	0	35.087	0	20.024	0	0	35.087	34.227	XOM_R2OW SG 0.131 MWD+IFR1+ MS
9300	30.291	180.122	8556.626	36.466	0	35.523	0	20.363	0	0	35.523	34.659	XOM_R2OW SG MWD+IFR1+ MS XOM_R2OW
9400	30.291	180.122	8642.974	36.955	0	35.959	0	20.703	0	0	35.959	35.093	SG 0.131 MWD+IFR1+ MS XOM_R2OW
9500	30.291	180.122	8729.322	37.444	0	36.395	0	21.044	0	0	36.395	35.528	0.132 SG MWD+IFR1+ MS XOM_R2OW
9600	30.291	180.122	8815.67	37.934	0	36.832	0	21.388	0	0	36.832	35.963	SG 0.132 MWD+IFR1+ MS XOM_R2OW
9700	30.291	180.122	8902.017	38.424	0	37.269	0	21.732	0	0	37.269	36.399	0.132 SG MWD+IFR1+ MS XOM_R2OW
9800	30.291	180.122	8988.365	38.914	0	37.706	0	22.079	0	0	37.706	36.836	0.133 SG MWD+IFR1+ MS XOM_R2OW
9900	30.291	180.122	9074.713	39.405	0	38.144	0	22.426	0	0	38.144	37.273	0.133 SG MWD+IFR1+ MS XOM R2OW
10000	30.291	180.122	9161.061	39.896	0	38.582	0	22.776	0	0	38.582	37.712	0.133 SG MWD+IFR1+ MS

10031.688 30.291 180.122 10100 30.761 190.853	9188.422 40.052 9247.31 40.284	0	38.721	0	22.887	0	0	38.721	37.851	0.134 SG MWD+IFR1+ MS
10100 30.761 190.853	9247.31 40.284	0	38.99							XOM_R2OW
				0	23.127	0	0	39.02	38.15	0.085 SG MWD+IFR1+ MS
10200 32.95 205.469	9332.371 40.239	0	39.292	0	23.482	0	0	39.45	38.58	XOM_R2OW SG MWD+IFR1+
										MS XOM_R2OW
10300 36.617 217.965	9414.594 39.701	0	39.541	0	23.844	0	0	39.86	38.993	0.48 SG MWD+IFR1+ MS XOM_R2OW
10400 41.364 228.224	9492.379 38.67	0	39.782	0	24.22	0	0	40.24	39.378	1.281 SG MWD+IFR1+ MS
10500 46.859 236.594	9564.212 37.199	0	40.029	0	24.613	0	0	40.583	39.729	XOM_R2OW SG 2.75 MWD+IFR1+
										MS XOM_R2OW
10600 52.86 243.526	9628.695 35.392	0	40.274	0	25.025	0	0	40.884	40.04	5.162 SG MWD+IFR1+ MS XOM_R2OW
10700 59.205 249.409	9684.572 33.392	0	40.506	0	25.46	0	0	41.143	40.302	SG 8.8 MWD+IFR1+ MS
10800 65.782 254.55	9730.756 31.384	0	40.716	0	25.917	0	0	41.367	40.509	XOM_R2OW SG MWD+IFR1+
										MS XOM_R2OW SG
10900 72.514 259.179	9766.349 29.592	0	40.892	0	26.394	0	0	41.569	40.65	19.871 MWD+IFR1+ MS XOM_R2OW
11000 79.345 263.474	9790.657 28.266	0	41.026	0	26.888	0	0	41.76	40.718	26.208 SG MWD+IFR1+ MS
11100 86.233 267.579	9803.207 27.646	0	41.109	0	27.392	0	0	41.953	40.71	XOM_R2OW SG 31.891 MWD+IFR1+ MS

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													XOM_R2OW
11154.551	90	269.783	9805	27.668	0	41.13	0	27.668	0	0	42.062	40.674	34.518 MWD+IFR1+ MS XOM_R2OW
11200	90	269.783	9805	27.9	0	41.183	0	27.9	0	0	42.154	40.637	36.399 SG MWD+IFR1+ MS
11300	90	269.783	9805	28.42	0	41.312	0	28.42	0	0	42.366	40.555	XOM_R2OW SG MWD+IFR1+
													MS XOM_R2OW
11400	90	269.783	9805	28.952	0	41.456	0	28.952	0	0	42.594	40.474	42.315 SG MWD+IFR1+ MS XOM_R2OW
11500	90	269.783	9805	29.494	0	41.616	0	29.494	0	0	42.835	40.395	44.399 SG MWD+IFR1+ MS
11600	90	269.783	9805	30.048	0	41.792	0	30.048	0	0	43.088	40.318	XOM_R2OW SG 46.145 MWD+IFR1+
													MS XOM_R2OW
11700	90	269.783	9805	30.612	0	41.982	0	30.612	0	0	43.352	40.246	47.65 MWD+IFR1+ MS XOM_R2OW
11800	90	269.783	9805	31.185	0	42.188	0	31.185	0	0	43.626	40.177	48.978 SG MWD+IFR1+ MS
11900	90	269.783	9805	31.767	0	42.408	0	31.767	0	0	43.912	40.113	XOM_R2OW SG MWD+IFR1+
40000	20	252 722	2025	22.252		40.640				•		40.050	MS XOM_R2OW
12000	90	269.783	9805	32.358	0	42.643	0	32.358	0	0	44.207	40.052	51.255 MWD+IFR1+ MS XOM_R2OW
12100	90	269.783	9805	32.957	0	42.892	0	32.957	0	0	44.513	39.996	52.256 SG MWD+IFR1+ MS
12200	90	269.783	9805	33.564	0	43.155	0	33.564	0	0	44.828	39.943	XOM_R2OW SG MWD+IFR1+
													MS

12300	90	269.783	9805	34.178	0	43.432	0	34.178	0	0	45.153	39.895	XOM_R2OW SG 54.057 MWD+IFR1+ MS
12400	90	269.783	9805	34.798	0	43.722	0	34.798	0	0	45.489	39.85	XOM_R2OW SG 54.878 MWD+IFR1+ MS
12500	90	269.783	9805	35.426	0	44.026	0	35.426	0	0	45.833	39.809	XOM_R2OW SG MWD+IFR1+ MS
12600	90	269.783	9805	36.059	0	44.343	0	36.059	0	0	46.188	39.771	XOM_R2OW 56.396 MWD+IFR1+ MS XOM_R2OW
12700	90	269.783	9805	36.698	0	44.672	0	36.698	0	0	46.551	39.737	57.101 SG MWD+IFR1+ MS XOM_R2OW
12800	90	269.783	9805	37.343	0	45.013	0	37.343	0	0	46.924	39.706	57.776 MWD+IFR1+ MS XOM_R2OW
12900	90	269.783	9805	37.993	0	45.367	0	37.993	0	0	47.306	39.679	58.423 SG MWD+IFR1+ MS XOM_R2OW
13000	90	269.783	9805	38.648	0	45.733	0	38.648	0	0	47.697	39.654	59.045 SG MWD+IFR1+ MS XOM_R2OW
13100	90	269.783	9805	39.308	0	46.11	0	39.308	0	0	48.097	39.633	59.643 SG MWD+IFR1+ MS XOM_R2OW
13200	90	269.783	9805	39.972	0	46.499	0	39.972	0	0	48.506	39.614	60.22 SG MWD+IFR1+ MS XOM_R2OW
13300	90	269.783	9805	40.641	0	46.898	0	40.641	0	0	48.924	39.598	60.776 SG MWD+IFR1+ MS XOM_R2OW
13400	90	269.783	9805	41.314	0	47.308	0	41.314	0	0	49.35	39.586	61.314 SG MWD+IFR1+ MS

13500	90	269.783	9805	41.99	0	47.729	0	41.99	0	0	49.784	39.575	XOM_R2OW SG MWD+IFR1+
13600	90	269.783	9805	42.671	0	48.16	0	42.671	0	0	50.226	39.567	MS XOM_R2OW SG 62.336 MWD+IFR1+
12700	00	260 702	0005	42.255	0	40.6	0	42.255	0	0	50.677	20.562	MS XOM_R2OW
13700	90	269.783	9805	43.355	0	48.6	0	43.355	0	0	50.677	39.562	MWD+IFR1+ MS XOM_R2OW
13800	90	269.783	9805	44.042	0	49.051	0	44.042	0	0	51.135	39.559	63.295 SG MWD+IFR1+ MS XOM_R2OW
13900	90	269.783	9805	44.732	0	49.511	0	44.732	0	0	51.602	39.559	63.752 SG MWD+IFR1+ MS
14000	90	269.783	9805	45.426	0	49.979	0	45.426	0	0	52.075	39.56	XOM_R2OW SG 64.196 MWD+IFR1+ MS
14100	90	269.783	9805	46.122	0	50.457	0	46.122	0	0	52.557	39.564	XOM_R2OW 64.626 SG MWD+IFR1+
14200	90	269.783	9805	46.821	0	50.943	0	46.821	0	0	53.045	39.57	MS XOM_R2OW SG MWD+IFR1+
14300	90	269.783	9805	47.523	0	51.438	0	47.523	0	0	53.541	39.578	MS XOM_R2OW SG 65.45 MWD+IFR1+
14400	90	269.783	9805	48.228	0	51.941	0	48.228	0	0	54.044	39.588	MS XOM_R2OW SG
14400	90	205.765	9603	40.220	Ü	31.941	Ü	40.220	U	U	34.044	33.300	MWD+IFR1+ MS XOM_R2OW
14500	90	269.783	9805	48.935	0	52.452	0	48.935	0	0	54.553	39.6	MWD+IFR1+ MS XOM_R2OW
14600	90	269.783	9805	49.644	0	52.97	0	49.644	0	0	55.069	39.614	66.6 SG MWD+IFR1+ MS

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													XOM_R2OW
14700	90	269.783	9805	50.355	0	53.496	0	50.355	0	0	55.592	39.63	66.962 SG MWD+IFR1+ MS
14800	90	269.783	9805	51.069	0	54.029	0	51.069	0	0	56.121	39.647	XOM_R2OW 5G 67.315 MWD+IFR1+ MS XOM_R2OW
14900	90	269.783	9805	51.785	0	54.569	0	51.785	0	0	56.656	39.666	67.658 SG MWD+IFR1+ MS
15000	90	269.783	9805	52.502	0	55.116	0	52.502	0	0	57.198	39.687	XOM_R2OW SG 67.992 MWD+IFR1+ MS XOM_R2OW
15100	90	269.783	9805	53.222	0	55.67	0	53.222	0	0	57.745	39.71	68.317 SG MWD+IFR1+ MS
15200	90	269.783	9805	53.943	0	56.229	0	53.943	0	0	58.298	39.734	XOM_R2OW 68.633 SG MWD+IFR1+ MS
15300	90	269.783	9805	54.666	0	56.796	0	54.666	0	0	58.857	39.759	XOM_R2OW 68.942 SG MWD+IFR1+ MS
15400	90	269.783	9805	55.391	0	57.368	0	55.391	0	0	59.421	39.787	XOM_R2OW 69.242 SG MWD+IFR1+ MS
15500	90	269.783	9805	56.118	0	57.946	0	56.118	0	0	59.991	39.815	XOM_R2OW 69.535 SG MWD+IFR1+ MS
15600	90	269.783	9805	56.845	0	58.529	0	56.845	0	0	60.566	39.845	XOM_R2OW SG 69.82 MWD+IFR1+ MS
15700	90	269.783	9805	57.575	0	59.119	0	57.575	0	0	61.146	39.877	XOM_R2OW 70.099 SG MWD+IFR1+ MS
15800	90	269.783	9805	58.306	0	59.713	0	58.306	0	0	61.731	39.91	XOM_R2OW SG MWD+IFR1+ MS

15900	90	269.783	9805	59.038	0	60.313	0	59.038	0	0	62.321	39.945	XOM_R2OW 70.635 SG MWD+IFR1+
16000	90	269.783	9805	59.772	0	60.918	0	59.772	0	0	62.915	39.98	MS XOM_R2OW 5G 70.894 MWD+IFR1+ MS
16100	90	269.783	9805	60.507	0	61.528	0	60.507	0	0	63.515	40.017	XOM_R2OW 71.146 SG MWD+IFR1+ MS
16200	90	269.783	9805	61.243	0	62.142	0	61.243	0	0	64.118	40.056	XOM_R2OW SG 71.392 MWD+IFR1+ MS
16300	90	269.783	9805	61.98	0	62.761	0	61.98	0	0	64.727	40.095	XOM_R2OW 71.632 SG MWD+IFR1+ MS
16400	90	269.783	9805	62.719	0	63.385	0	62.719	0	0	65.339	40.136	XOM_R2OW 71.867 SG MWD+IFR1+ MS
16500	90	269.783	9805	63.458	0	64.013	0	63.458	0	0	65.956	40.178	XOM_R2OW 72.096 SG MWD+IFR1+ MS
16600	90	269.783	9805	64.199	0	64.645	0	64.199	0	0	66.576	40.222	XOM_R2OW SG 72.32 MWD+IFR1+ MS
16700	90	269.783	9805	64.94	0	65.281	0	64.94	0	0	67.201	40.266	XOM_R2OW SG 72.539 MWD+IFR1+ MS
16800	90	269.783	9805	65.683	0	65.921	0	65.683	0	0	67.83	40.312	XOM_R2OW SG 72.753 MWD+IFR1+ MS
16900	90	269.783	9805	66.427	0	66.565	0	66.427	0	0	68.462	40.359	XOM_R2OW SG 72.962 MWD+IFR1+ MS
17000	90	269.783	9805	67.171	0	67.213	0	67.171	0	0	69.098	40.407	XOM_R2OW SG 73.167 MWD+IFR1+ MS

													XOM_R2OW
17100	90	269.783	9805	67.917	0	67.865	0	67.917	0	0	69.738	40.456	73.366 SG MWD+IFR1+ MS
17200	90	269.783	9805	68.663	0	68.52	0	68.663	0	0	70.381	40.506	XOM_R2OW 73.562 SG MWD+IFR1+ MS
17300	90	269.783	9805	69.411	0	69.178	0	69.411	0	0	71.027	40.557	XOM_R2OW 73.753 SG MWD+IFR1+ MS
17400	90	269.783	9805	70.159	0	69.84	0	70.159	0	0	71.677	40.61	XOM_R2OW SG 73.94 MWD+IFR1+ MS
17500	90	269.783	9805	70.907	0	70.505	0	70.907	0	0	72.33	40.663	XOM_R2OW SG MWD+IFR1+ MS
17600	90	269.783	9805	71.657	0	71.173	0	71.657	0	0	72.986	40.718	XOM_R2OW SG 74.303 MWD+IFR1+ MS
17700	90	269.783	9805	72.407	0	71.844	0	72.407	0	0	73.645	40.773	XOM_R2OW 74.478 SG MWD+IFR1+ MS
17800	90	269.783	9805	73.159	0	72.518	0	73.159	0	0	74.308	40.83	XOM_R2OW SG 74.65 MWD+IFR1+ MS
17900	90	269.783	9805	73.91	0	73.196	0	73.91	0	0	74.973	40.887	XOM_R2OW SG 74.818 MWD+IFR1+ MS
18000	90	269.783	9805	74.663	0	73.876	0	74.663	0	0	75.641	40.946	XOM_R2OW 74.983 MWD+IFR1+ MS
18100	90	269.783	9805	75.416	0	74.558	0	75.416	0	0	76.312	41.005	XOM_R2OW SG 75.144 MWD+IFR1+ MS
18200	90	269.783	9805	76.17	0	75.244	0	76.17	0	0	76.985	41.065	XOM_R2OW SG MWD+IFR1+ MS

													XOM_R2OW
18300	90	269.783	9805	76.924	0	75.932	0	76.924	0	0	77.661	41.127	MWD+IFR1+ MS XOM_R2OW
18400	90	269.783	9805	77.679	0	76.622	0	77.679	0	0	78.34	41.189	75.61 SG MWD+IFR1+ MS XOM_R2OW
18500	90	269.783	9805	78.435	0	77.315	0	78.435	0	0	79.021	41.252	75.759 SG MWD+IFR1+ MS XOM_R2OW
18600	90	269.783	9805	79.191	0	78.01	0	79.191	0	0	79.705	41.316	75.905 SG MWD+IFR1+ MS
18700	90	269.783	9805	79.947	0	78.708	0	79.947	0	0	80.391	41.381	XOM_R2OW 76.048 SG MWD+IFR1+ MS
18800	90	269.783	9805	80.705	0	79.408	0	80.705	0	0	81.08	41.447	XOM_R2OW 76.188 SG MWD+IFR1+ MS
18900	90	269.783	9805	81.462	0	80.11	0	81.462	0	0	81.771	41.514	XOM_R2OW 76.326 SG MWD+IFR1+ MS
19000	90	269.783	9805	82.221	0	80.814	0	82.221	0	0	82.463	41.582	XOM_R2OW 76.461 SG MWD+IFR1+ MS
19100	90	269.783	9805	82.979	0	81.521	0	82.979	0	0	83.159	41.65	XOM_R2OW 76.594 SG MWD+IFR1+ MS
19200	90	269.783	9805	83.739	0	82.229	0	83.739	0	0	83.856	41.72	XOM_R2OW SG 76.724 MWD+IFR1+ MS
19300	90	269.783	9805	84.498	0	82.94	0	84.498	0	0	84.555	41.79	XOM_R2OW 76.852 SG MWD+IFR1+ MS
19400	90	269.783	9805	85.258	0	83.652	0	85.258	0	0	85.257	41.861	XOM_R2OW XOM_R2OW SG 76.977 SG MWD+IFR1+ MS

													XOM_R2OW
19500	90	269.783	9805	86.019	0	84.366	0	86.019	0	0	85.96	41.933	77.1 SG MWD+IFR1+ MS XOM_R2OW
19600	90	269.783	9805	86.78	0	85.083	0	86.78	0	0	86.665	42.006	77.221 SG MWD+IFR1+ MS XOM_R2OW
19700	90	269.783	9805	87.541	0	85.8	0	87.541	0	0	87.372	42.08	77.34 SG MWD+IFR1+ MS
19800	90	269.783	9805	88.303	0	86.52	0	88.303	0	0	88.081	42.154	XOM_R2OW SG 77.456 MWD+IFR1+ MS
19900	90	269.783	9805	89.066	0	87.241	0	89.066	0	0	88.792	42.229	XOM_R2OW SG 77.571 MWD+IFR1+ MS
20000	90	269.783	9805	89.828	0	87.964	0	89.828	0	0	89.505	42.305	XOM_R2OW 77.683 SG MWD+IFR1+ MS
20100	90	269.783	9805	90.591	0	88.689	0	90.591	0	0	90.219	42.382	XOM_R2OW 77.794 SG MWD+IFR1+ MS
20200	90	269.783	9805	91.355	0	89.415	0	91.355	0	0	90.935	42.46	XOM_R2OW SG 77.902 MWD+IFR1+ MS
20300	90	269.783	9805	92.118	0	90.143	0	92.118	0	0	91.653	42.538	XOM_R2OW SG 78.009 MWD+IFR1+
20400	90	269.783	9805	92.882	0	90.872	0	92.882	0	0	92.372	42.617	MS XOM_R2OW SG 78.114 MWD+IFR1+
20500	90	269.783	9805	93.647	0	91.603	0	93.647	0	0	93.093	42.697	MS XOM_R2OW SG 78.217 MWD+IFR1+
20600	90	269.783	9805	94.412	0	92.335	0	94.412	0	0	93.815	42.778	MS XOM_R2OW SG 78.319 MWD+IFR1+ MS

20700	90	269.783	9805	95.177	0	93.069	0	95.177	0	0	94.539	42.859	XOM_R2OW 78.418 SG MWD+IFR1+ MS
20800	90	269.783	9805	95.942	0	93.804	0	95.942	0	0	95.264	42.941	XOM_R2OW SG 78.516 MWD+IFR1+ MS XOM_R2OW
20900	90	269.783	9805	96.708	0	94.54	0	96.708	0	0	95.991	43.024	78.613 SG MWD+IFR1+ MS
21000	90	269.783	9805	97.474	0	95.278	0	97.474	0	0	96.719	43.107	XOM_R2OW 78.708 SG MWD+IFR1+ MS
21100	90	269.783	9805	98.24	0	96.017	0	98.24	0	0	97.448	43.192	XOM_R2OW 78.801 SG MWD+IFR1+ MS
21200	90	269.783	9805	99.007	0	96.757	0	99.007	0	0	98.179	43.277	XOM_R2OW 78.893 SG MWD+IFR1+ MS
21300	90	269.783	9805	99.774	0	97.498	0	99.774	0	0	98.911	43.362	XOM_R2OW 78.983 SG MWD+IFR1+ MS
21400	90	269.783	9805	100.541	0	98.241	0	100.541	0	0	99.645	43.449	XOM_R2OW SG 79.072 MWD+IFR1+ MS
21500	90	269.783	9805	101.308	0	98.985	0	101.308	0	0	100.379	43.536	XOM_R2OW 79.16 SG MWD+IFR1+ MS
21600	90	269.783	9805	102.076	0	99.73	0	102.076	0	0	101.115	43.624	XOM_R2OW SG 79.246 MWD+IFR1+ MS
21700	90	269.783	9805	102.844	0	100.476	0	102.844	0	0	101.852	43.712	XOM_R2OW SG 79.331 MWD+IFR1+ MS
21800	90	269.783	9805	103.612	0	101.223	0	103.612	0	0	102.591	43.801	XOM_R2OW SG 79.414 MWD+IFR1+ MS

21900	90	269.783	9805	104.381	0	101.971	0	104.381	0	0	103.33	43.891	XOM_R2OW 79.497 SG MWD+IFR1+
22000	90	269.783	9805	105.149	0	102.72	0	105.149	0	0	104.071	43.981	MS XOM_R2OW 79.578 SG MWD+IFR1+ MS
22100	90	269.783	9805	105.918	0	103.47	0	105.918	0	0	104.812	44.072	XOM_R2OW 79.658 SG MWD+IFR1+ MS
22200	90	269.783	9805	106.688	0	104.222	0	106.688	0	0	105.555	44.164	XOM_R2OW SG 79.736 MWD+IFR1+ MS XOM_R2OW
22300	90	269.783	9805	107.457	0	104.974	0	107.457	0	0	106.299	44.257	79.814 SG MWD+IFR1+ MS XOM_R2OW
22400	90	269.783	9805	108.227	0	105.727	0	108.227	0	0	107.044	44.35	79.89 SG MWD+IFR1+ MS XOM_R2OW
22500	90	269.783	9805	108.996	0	106.481	0	108.996	0	0	107.79	44.443	79.965 SG MWD+IFR1+ MS XOM_R2OW
22600	90	269.783	9805	109.766	0	107.236	0	109.766	0	0	108.537	44.538	80.039 SG MWD+IFR1+ MS XOM_R2OW
22700	90	269.783	9805	110.537	0	107.992	0	110.537	0	0	109.285	44.633	80.112 SG MWD+IFR1+ MS XOM_R2OW
22800	90	269.783	9805	111.307	0	108.749	0	111.307	0	0	110.033	44.728	80.184 SG MWD+IFR1+ MS XOM_R2OW
22900	90	269.783	9805	112.078	0	109.506	0	112.078	0	0	110.783	44.824	80.255 SG MWD+IFR1+ MS XOM_R2OW
23000	90	269.783	9805	112.849	0	110.265	0	112.849	0	0	111.534	44.921	80.325 SG MWD+IFR1+ MS

23100	90	269.783	9805	113.62	0	111.024	0	113.62	0	0	112.285	45.019	XOM_R2OW 80.394 SG MWD+IFR1+ MS
23200	90	269.783	9805	114.391	0	111.784	0	114.391	0	0	113.038	45.117	XOM_R2OW SG 80.462 MWD+IFR1+ MS
23300	90	269.783	9805	115.162	0	112.545	0	115.162	0	0	113.791	45.215	XOM_R2OW 80.529 SG MWD+IFR1+ MS
23400	90	269.783	9805	115.934	0	113.307	0	115.934	0	0	114.546	45.314	XOM_R2OW 80.595 SG MWD+IFR1+ MS
23500	90	269.783	9805	116.706	0	114.069	0	116.706	0	0	115.301	45.414	XOM_R2OW 80.66 SG MWD+IFR1+ MS
23600	90	269.783	9805	117.478	0	114.833	0	117.478	0	0	116.056	45.514	XOM_R2OW 80.724 SG MWD+IFR1+ MS
23700	90	269.783	9805	118.25	0	115.597	0	118.25	0	0	116.813	45.615	XOM_R2OW 80.787 SG MWD+IFR1+ MS
23800	90	269.783	9805	119.022	0	116.361	0	119.022	0	0	117.571	45.717	XOM_R2OW SG 80.85 MWD+IFR1+ MS XOM_R2OW
23900	90	269.783	9805	119.794	0	117.127	0	119.794	0	0	118.329	45.819	80.912 SG MWD+IFR1+ MS XOM_R2OW
24000	90	269.783	9805	120.567	0	117.893	0	120.567	0	0	119.088	45.922	80.972 SG MWD+IFR1+ MS XOM_R2OW
24100	90	269.783	9805	121.34	0	118.659	0	121.34	0	0	119.848	46.025	81.032 SG MWD+IFR1+ MS XOM_R2OW
24200	90	269.783	9805	122.113	0	119.427	0	122.113	0	0	120.608	46.129	81.092 SG MWD+IFR1+ MS

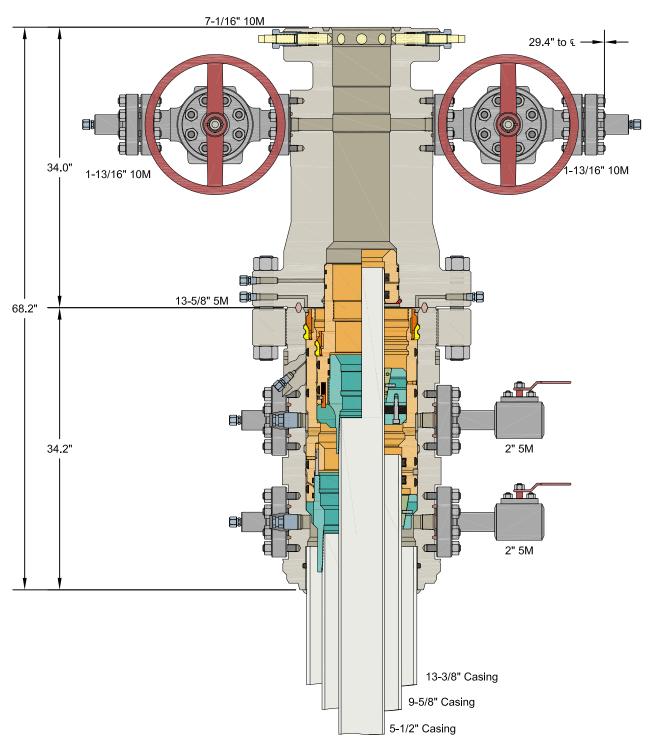
24300	90	269.783	9805	122.886	0	120.195	0	122.886	0	0	121.369	46.233	XOM_R2OW SG MWD+IFR1+ MS
24400	90	269.783	9805	123.659	0	120.963	0	123.659	0	0	122.131	46.338	XOM_R2OW SG 81.208 MWD+IFR1+ MS
24500	90	269.783	9805	124.432	0	121.733	0	124.432	0	0	122.894	46.443	XOM_R2OW 81.265 SG MWD+IFR1+ MS
24600	90	269.783	9805	125.206	0	122.503	0	125.206	0	0	123.657	46.549	XOM_R2OW SG 81.321 MWD+IFR1+ MS
24700	90	269.783	9805	125.979	0	123.273	0	125.979	0	0	124.421	46.655	XOM_R2OW SG MWD+IFR1+ MS
24800	90	269.783	9805	126.753	0	124.044	0	126.753	0	0	125.186	46.762	XOM_R2OW SG MWD+IFR1+ MS
24900	90	269.783	9805	127.527	0	124.816	0	127.527	0	0	125.951	46.87	XOM_R2OW 81.485 SG MWD+IFR1+ MS
25000	90	269.783	9805	128.301	0	125.588	0	128.301	0	0	126.717	46.978	XOM_R2OW SG MWD+IFR1+ MS
25100	90	269.783	9805	129.075	0	126.361	0	129.075	0	0	127.483	47.087	XOM_R2OW SG MWD+IFR1+ MS
25200	90	269.783	9805	129.85	0	127.134	0	129.85	0	0	128.25	47.196	XOM_R2OW SG 81.644 MWD+IFR1+ MS
25300	90	269.783	9805	130.624	0	127.908	0	130.624	0	0	129.018	47.305	XOM_R2OW SG MWD+IFR1+ MS
25400	90	269.783	9805	131.399	0	128.683	0	131.399	0	0	129.786	47.415	XOM_R2OW SG 81.746 MWD+IFR1+ MS

25500	90	269.783	9805	132.173	0	129.458	0	132.173	0	0	130.555	47.526	XOM_R2OW SG MWD+IFR1+ MS
25600	90	269.783	9805	132.948	0	130.233	0	132.948	0	0	131.325	47.637	XOM_R2OW SG 81.846 MWD+IFR1+ MS
25700	90	269.783	9805	133.723	0	131.009	0	133.723	0	0	132.095	47.748	XOM_R2OW SG 81.895 MWD+IFR1+ MS
25800	90	269.783	9805	134.498	0	131.785	0	134.498	0	0	132.865	47.861	XOM_R2OW SG 81.943 MWD+IFR1+ MS
25900	90	269.783	9805	135.273	0	132.562	0	135.273	0	0	133.636	47.973	XOM_R2OW SG 81.991 MWD+IFR1+ MS
26000	90	269.783	9805	136.048	0	133.34	0	136.048	0	0	134.408	48.086	XOM_R2OW SG 82.038 MWD+IFR1+ MS
26100	90	269.783	9805	136.824	0	134.118	0	136.824	0	0	135.18	48.2	XOM_R2OW SG 82.085 MWD+IFR1+ MS
26200	90	269.783	9805	137.599	0	134.896	0	137.599	0	0	135.953	48.314	XOM_R2OW SG 82.131 MWD+IFR1+ MS XOM_R2OW
26300	90	269.783	9805	138.375	0	135.675	0	138.375	0	0	136.726	48.428	82.177 SG MWD+IFR1+ MS XOM_R2OW
26400	90	269.783	9805	139.15	0	136.454	0	139.15	0	0	137.5	48.543	82.222 SG MWD+IFR1+ MS XOM_R2OW
26500	90	269.783	9805	139.926	0	137.233	0	139.926	0	0	138.274	48.658	82.266 SG MWD+IFR1+ MS XOM_R2OW
26600	90	269.783	9805	140.702	0	138.014	0	140.702	0	0	139.049	48.774	82.31 SG MWD+IFR1+ MS

26700	90	269.783	9805	141.478	0	138.794	0	141.478	0	0	139.824	48.89	XOM_R2OW 82.354 SG MWD+IFR1+ MS
26800	90	269.783	9805	142.254	0	139.575	0	142.254	0	0	140.599	49.007	XOM_R2OW SG 82.397 MWD+IFR1+ MS
26873.213	90	269.783	9805	142.822	0	140.147	0	142.822	0	0	141.167	49.093	XOM_R2OW SG MWD+IFR1+ MS

Plan Targets	BEU BB JABBA 104H				
	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 6	11154.54	561442.89	675894.07	6262	CIRCLE
LTP 6	26823.25	561383.64	660225.48	6262	CIRCLE
BHL 6	26873.21	561383.57	660175.52	6262	CIRCLE





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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	16FEB17
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.

Pressure Test—High Pressure ²⁰							
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.				
rixed pipe, variable bore, lind, 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 ide outlet valves below ram reventers (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 hokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,				
Kelly, kelly valves, drill pipe afety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program					
No visible leaks. The pressure shall remain stabl	75 No. 10 10 10 10 10 10 10 10 10 10 10 10 10	pressure shall not decrease below the	•				

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.

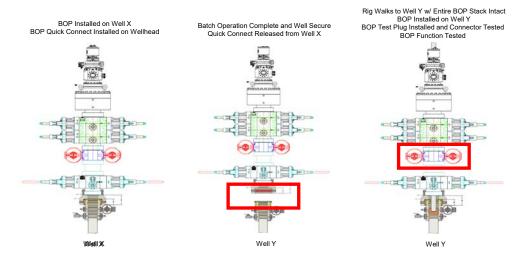
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that 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

- 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 guick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

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

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



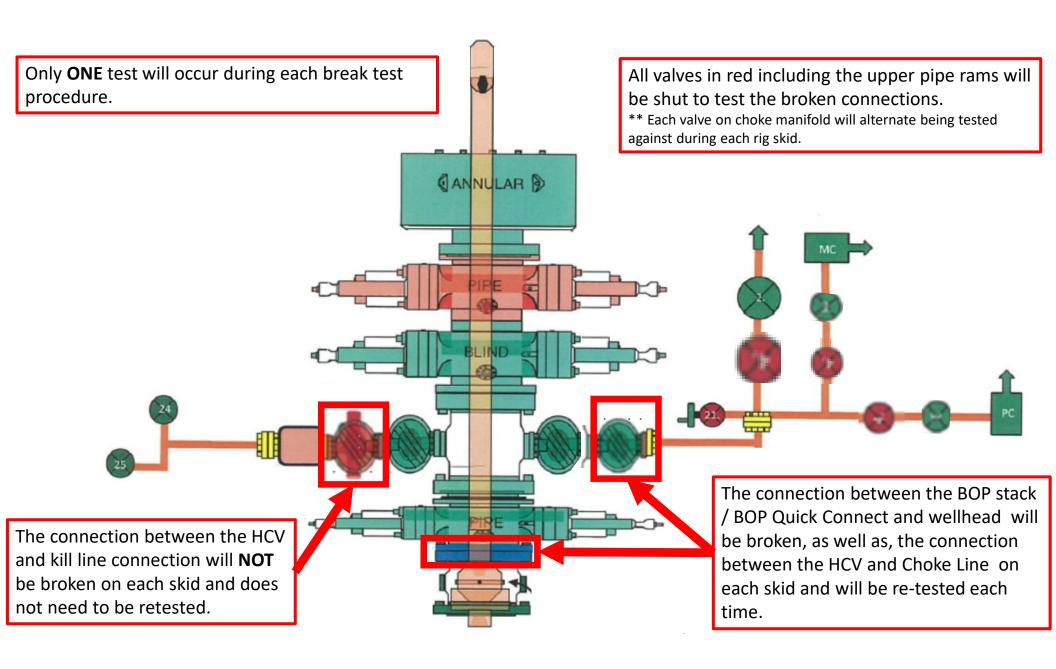
Summary

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

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

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

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



XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

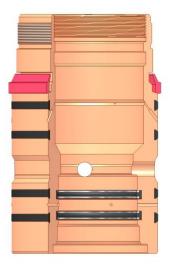
1. Cement Program

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

2. Offline Cementing Procedure

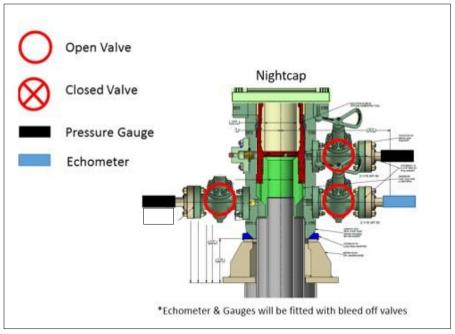
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

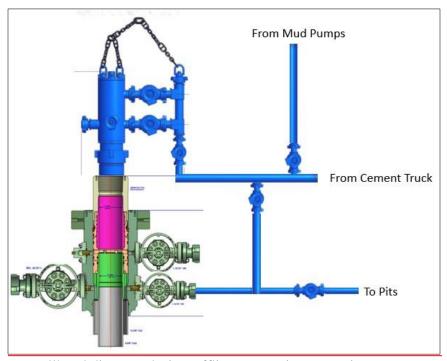
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 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 nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

Sec 22-20S-32E-NMP 2682661 Big Eddy Unit DI BB Jabba 104H Lea NMNM033955 XTO 13-22 44804 Allison Morency

Big Eddy Unit DI BB Jabba 104H

18 5/8	surface o	sg in a	24	inch hole.		<u>Design l</u>	-actors			Surfa	ace	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	87.50	J	55	BTC	14.25	1.24	1.49	1,066	5	2.50	2.29	93,275
"B"				BTC				0				0
w/8.4#	#/g mud, 30min Sfo	Csg Test psig:	1,110	Tail Cmt	does not	circ to sfc.	Totals:	1,066				93,275
Comparison	of Proposed to	Minimum R	equired Ceme	nt Volumes								
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
24	1.2496	1890	3356	1332	152	9.20	901	2M				12.00

13 3/8	casing ins	ide the	18 5/8			Design	Factors -		4	Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J	55	BTC	5.65	0.75	1.93	2,769	2	3.48	1.25	150,911
"B"								0				0
w/8.4#	#/g mud, 30min Sfo	CSg Test psig:					Totals:	2,769				150,911
	The cement vo	olume(s) are	intended to a	chieve a top of	0	ft from su	ırface or a	1066				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
17 1/2	0.6946	2060	3825	1976	94	10.50	785	2M				1.56
Class 'H' tail cı	mt yld > 1.20								_			

9 5/8	casing ins	side the	13 3/8			Design Fa	<u>ctors</u>		4	Int 2		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	HCP	110	BTC	10.98	2.99	3.08	2,869	6	5.35	5.39	114,760
"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 Sfo	c Csg Test psig:	1,500				Totals:	5,035				201,400
	The cement vo	olume(s) are	intended to a	chieve a top of	0	ft from su	ırface or a	2769				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
12 1/4	0.3132	1390	3149	1714	84	9.50	1478	2M				0.81
Class 'C' tail cr	class 'C' tail cmt yld > 1.35											

5 1/2	casing in	side the	9 5/8			Design	Factors -		4	Prod 1	4	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	RY P	110	3emi-Premiur	6.49	4.33	4.93	4,935	5	8.55	7.51	98,700
"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 Sf	c Csg Test psig:	1,500				Totals:	26,873				537,460
	The cement vo	olume(s) are	intended to a	chieve a top of	4400	ft from su	ırface 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.												

Carlsbad Field Office 8/31/2022

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Big Eddy Unit DI BB Jabba 104H

LOCATION: Sec 22-20S-32E-NMP **COUNTY:** Lea County, New Mexico

Updated COAs per Sundry 2682661 approved through engineering on 08/31/2022.

COA

H2S	C Yes	⊙ No	
Potash	O None	Secretary	⊙ R-111-P
Cave/Karst Potential	• Low	Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	✓ 4 String Area		□WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	✓ 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 <u>R111 Potash Areas</u> 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 <u>Capitan Reef Areas</u> 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 CountyCall 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 140777

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	140777
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	9/7/2022