

Form 3060-3
(August 2007)

SKID

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1010-4037
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM033955
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator XTO PERMIAN OPERATING LLC		7. If Unit or CA Agreement, Name and No. BIG EDDY / NMNM068294X
3a. Address 6401 Holiday Hill Road, Bldg 5 Midland, Texas 79701		8. Lease Name and Well No. BIG EDDY UNIT D1 BB JABBA 102H
3b. Phone No. (include area code) 970-769-6048		9. API Well No. 30-025-50823
4. Location of Well (Report location clearly and in accordance with any State requirements*) At surface SWSW / 490 FSL / 580 FWL / LAT 32.55280 / LONG -103.76077 At proposed prod. zone LOT 1 / 660 FNL / 50 FWL / LAT 32.54974 / LONG -103.81399		10. Field and Pool, or Exploratory 53560 SALT LAKE; BONE SPRING
14. Distance in miles and direction from nearest town or post office* 24.38 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 22 / T20S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 468 feet	16. No. of acres in lease 1280	12. County or Parish Lea
17. Spacing Unit dedicated to this well 480	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 9623 feet / 25913 feet	20. BLM/BIA Bond No. on file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3529 feet	22. Approximate date work will start* 11/21/2022	23. Estimated duration 90 Days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature <i>Jessica Dooling</i>	Name (Printed/Typed) Jessica Dooling	Date 11/17/2022
Title Regulatory Coordinator		

Approved by (Signature) CHRISTOPHER WALLS	Digitally signed by CHRISTOPHER WALLS Date: 2022.11.23 12:44:50 -07'00'	Name (Printed/Typed)	Date
Title Sup. PE		Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

11/29/2022

Well Name: BIG EDDY UNIT DI BB JABBA	Well Location: T20S / R32E / SEC 22 / SWSW / 32.55275 / -103.760482	County or Parish/State: LEA / NM
Well Number: 102Y	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: 3002547226	Well Status: Drilling Well	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2703713

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 11/18/2022	Time Sundry Submitted: 07:49
Date proposed operation will begin: 11/18/2022	

Procedure Description: ** Skid Original Wellbore, Well Number Change, and Surface Hole Location Change XTO Permian Operating, LLC requests permission to skid the original wellbore and make the following changes to the original APD: Change Well Number (Plugged Well) from 102H to 102Y No Additional Surface Disturbance Skid Original Wellbore of the BEU DI BB Jabba 102H, API Number 30-025-47226, from 490'FSL & 670'FWL, LAT 32.55280, LONG -103.760482 to 490'FSL & 580'FWL, LAT 32.55280, LONG -103.76077 Attachments: From 3160-3 C102 Drilling Program Directional Plan Overall Drill Island / Well Site Layout

NOI Attachments

Procedure Description

Big_Eddy_Unit_DI_BB_102H_Attachments_20221118074802.pdf

Well Name: BIG EDDY UNIT DI BB JABBA	Well Location: T20S / R32E / SEC 22 / SWSW / 32.55275 / -103.760482	County or Parish/State: LEA / NM
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Lease Number: NMLC065750A, NMNM33955	Unit or CA Name: BIG EDDY	Unit or CA Number: NMNM68294X
US Well Number: 3002547226	Well Status: Drilling Well	Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Specialist Review

Pages_from_Big_Eddy_Unit_DI_BB_102H_3160_3_signed_20221123124543.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: JESSICA DOOLING	Signed on: NOV 18, 2022 07:48 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Lead Regulatory Coordinator	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (970) 769-6048	
Email address: JESSICA.DOOLING@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: 11/23/2022
Signature: Chris Walls	

INSTRUCTIONS

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

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

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- 50823	² Pool Code 53560	³ Pool Name Salt Lake; Bone Spring
⁴ Property Code 328261	⁵ Property Name BIG EDDY UNIT DI BB JABBA	⁶ Well Number 102H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,529'

¹⁰ Surface Location

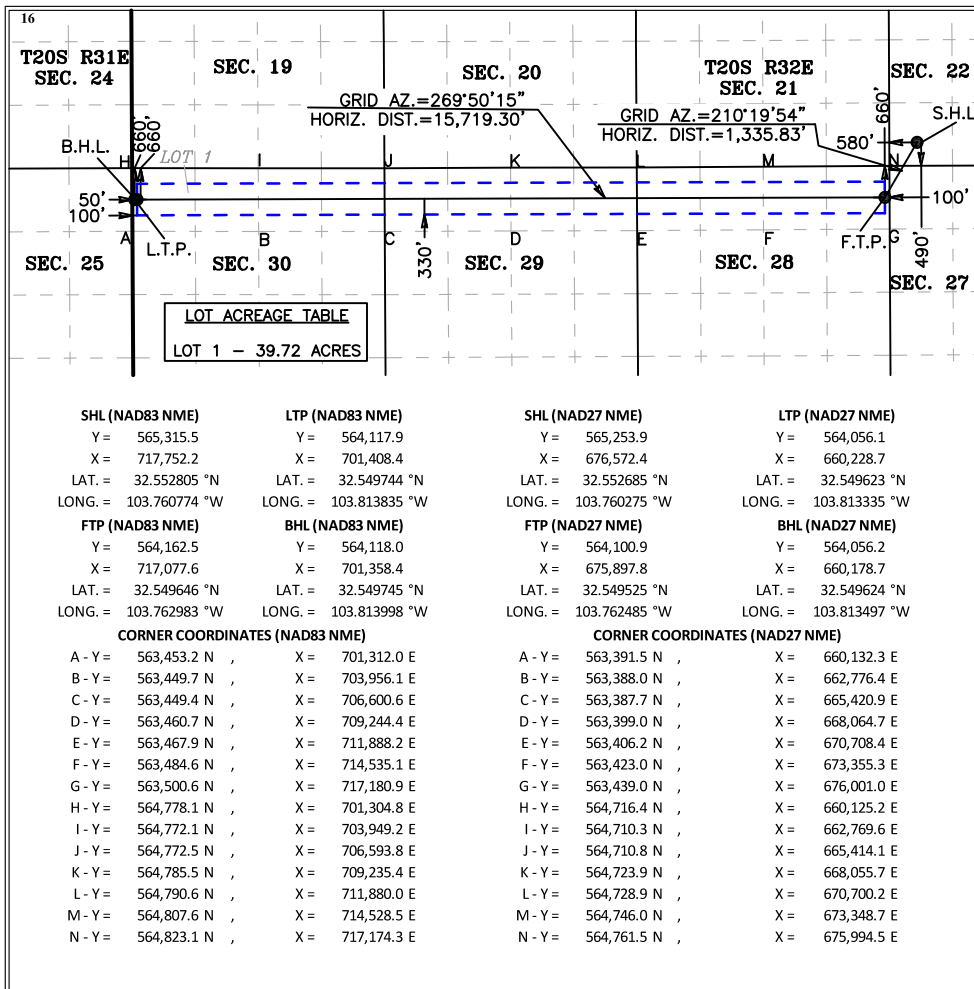
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	20 S	32 E		490	SOUTH	580	WEST	LEA

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
I	30	20 S	32 E		660	NORTH	50	WEST	LEA

¹² Dedicated Acres 479.72	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION

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

Jessica Dooling 11/17/2022
Signature Date

Jessica Dooling

Printed Name

jessica.dooling@exxonmobil.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

11-17-2022

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786

Certificate Number

RE

2019061805

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

XTO Energy Inc.
Big Eddy Unit Blue Bird Jabba 102H
Projected TD: 25914' MD / 9623' TVD

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 25914 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	2.95	3.15	6.26
12.25	2869' – 5035'	9.625	40	HC L-80	BTC	New	2.15	3.05	10.57
8.5	0' – 4935'	5.5	20	RY P-110	Semi-Premium	New	1.05	4.55	2.05
8.5	4935' - 25914'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.30	2.33

- 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 yd, 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 +/- 25914'1st Stage

Lead: 370 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: 2790 sxs 50/50 POZ/Class H (mixed at 13.2 ppg, 1.51 ft³/sx, 7.21 gal/sx water) Top of Cement: 9868 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: 1410 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: 2790 sxs 50/50 POZ/Class H (mixed at 13.2 ppg, 1.51 ft³/sx, 7.21 gal/sx water) Top of Cement: 9868 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 25914'	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 4827 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.



XTO Energy

**Lea County, NM (NAD-27)
BIG EDDY UNIT BB JABBA
102H**

Wellbore #1

Plan: PERMIT

Standard Planning Report

17 November, 2022



Project: Lea County, NM (NAD-27)
Site: BIG EDDY UNIT BB JABBA
Well: 102H
Wellbore: Wellbore #1
Design: PERMIT

WELL DETAILS: 102H

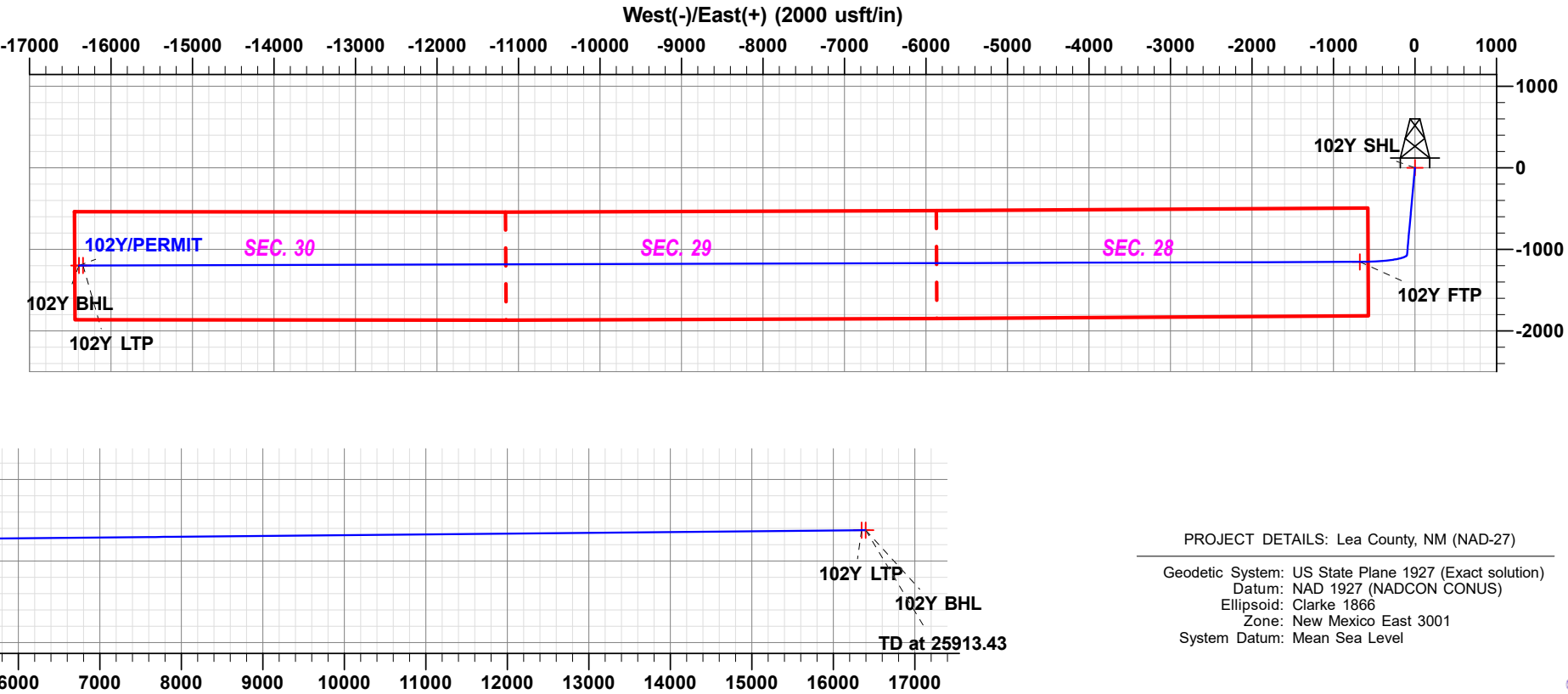
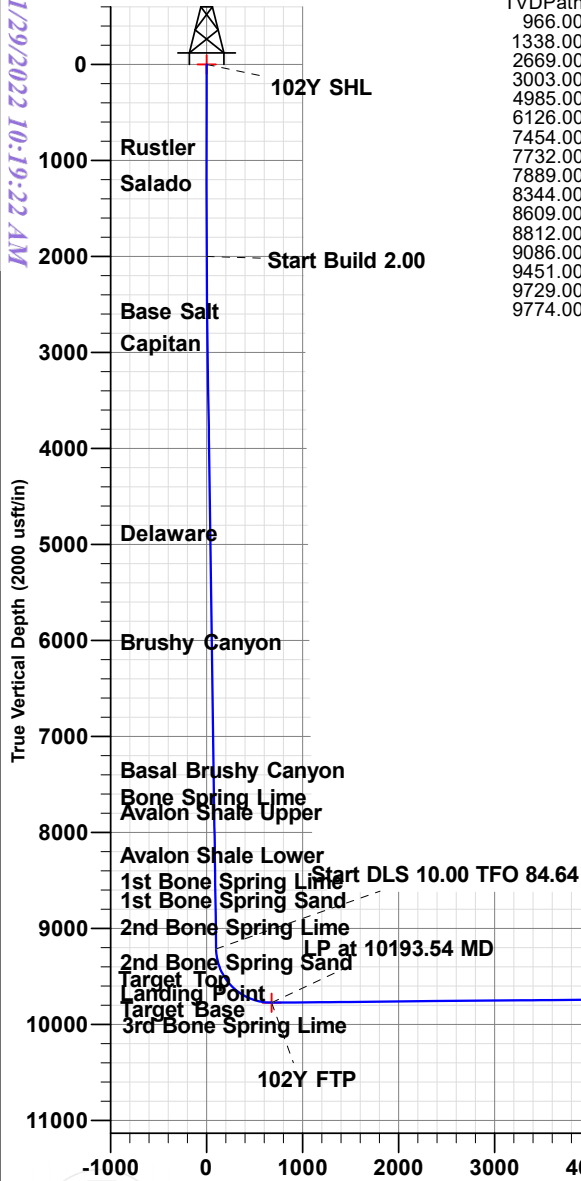
Rig Name:		TBD			
RKB = 33' @ 3562.00usft (TBD)					
Ground Level:		3529.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	565253.90	676572.40	32.5526847	-103.7602753

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2434.62	8.69	185.18	2432.96	-32.77	-2.97	2.00	185.18	3.06	
4	9296.16	8.69	185.18	9215.68	-1065.53	-96.51	0.00	0.00	99.48	
5	10193.54	90.55	269.84	9774.00	-1153.00	-674.60	10.00	84.64	677.82	102Y FTP
6	25863.43	90.55	269.84	9623.58	-1197.56	-16343.70	0.00	0.00	16346.98	102Y LTP
7	25913.43	90.55	269.84	9623.10	-1197.70	-16393.70	0.00	0.00	16396.98	102Y BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
102Y SHL	0.00	0.00	0.00	565253.90	676572.40	32.5526847	-103.7602753
102Y BHL	9623.10	-1197.70	-16393.70	564056.20	660178.70	32.5496238	-103.8134973
102Y LTP	9623.58	-1197.80	-16343.70	564056.10	660228.70	32.5496228	-103.8133350
102Y FTP	9774.00	-1153.00	-674.60	564100.90	675897.80	32.5495254	-103.7624846



Vertical Section at 269.84° (2000 usft/in)

PROJECT DETAILS: Lea County, NM (NAD-27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan: PERMIT (102H/Wellbore #1)

Created By: Matthew May Date: 15:14, November 17 2022

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Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

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

Site	BIG EDDY UNIT BB JABBA		
Site Position:		Northing:	565,253.90 usft
From:	Map	Easting:	676,572.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.5526847
		Longitude:	-103.7602752
		Grid Convergence:	0.31 °

Well	102Y		
Well Position	+N/-S	0.00 usft	Northing: 565,253.90 usft
	+E/-W	0.00 usft	Easting: 676,572.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.5526847
		Longitude:	-103.7602752
		Ground Level:	3,529.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	11/17/22	6.49
			Dip Angle (°) 60.12
			Field Strength (nT) 47,519

Design	PERMIT		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 269.84

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,434.62	8.69	185.18	2,432.96	-32.77	-2.97	2.00	2.00	0.00	185.18	
9,296.16	8.69	185.18	9,215.68	-1,065.53	-96.51	0.00	0.00	0.00	0.00	
10,193.54	90.55	269.84	9,774.00	-1,153.00	-674.60	10.00	9.12	9.43	84.64	102Y FTP
25,863.43	90.55	269.84	9,623.58	-1,197.56	-16,343.70	0.00	0.00	0.00	0.00	102Y LTP
25,913.43	90.55	269.84	9,623.10	-1,197.70	-16,393.70	0.00	0.00	0.00	0.00	102Y BHL



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102Y SHL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
966.00	0.00	0.00	966.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,338.00	0.00	0.00	1,338.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	185.18	2,099.98	-1.74	-0.16	0.16	2.00	2.00	0.00
2,200.00	4.00	185.18	2,199.84	-6.95	-0.63	0.65	2.00	2.00	0.00
2,300.00	6.00	185.18	2,299.45	-15.63	-1.42	1.46	2.00	2.00	0.00
2,400.00	8.00	185.18	2,398.70	-27.77	-2.51	2.59	2.00	2.00	0.00
2,434.62	8.69	185.18	2,432.96	-32.77	-2.97	3.06	2.00	2.00	0.00
2,500.00	8.69	185.18	2,497.58	-42.61	-3.86	3.98	0.00	0.00	0.00
2,600.00	8.69	185.18	2,596.44	-57.66	-5.22	5.38	0.00	0.00	0.00
2,673.41	8.69	185.18	2,669.00	-68.71	-6.22	6.42	0.00	0.00	0.00
Base Salt									
2,700.00	8.69	185.18	2,695.29	-72.71	-6.59	6.79	0.00	0.00	0.00
2,800.00	8.69	185.18	2,794.14	-87.77	-7.95	8.19	0.00	0.00	0.00
2,900.00	8.69	185.18	2,892.99	-102.82	-9.31	9.60	0.00	0.00	0.00
3,000.00	8.69	185.18	2,991.84	-117.87	-10.68	11.00	0.00	0.00	0.00
3,011.29	8.69	185.18	3,003.00	-119.57	-10.83	11.16	0.00	0.00	0.00
Capitan									
3,100.00	8.69	185.18	3,090.69	-132.92	-12.04	12.41	0.00	0.00	0.00
3,200.00	8.69	185.18	3,189.54	-147.97	-13.40	13.82	0.00	0.00	0.00
3,300.00	8.69	185.18	3,288.39	-163.02	-14.77	15.22	0.00	0.00	0.00
3,400.00	8.69	185.18	3,387.25	-178.07	-16.13	16.63	0.00	0.00	0.00
3,500.00	8.69	185.18	3,486.10	-193.13	-17.49	18.03	0.00	0.00	0.00
3,600.00	8.69	185.18	3,584.95	-208.18	-18.86	19.44	0.00	0.00	0.00
3,700.00	8.69	185.18	3,683.80	-223.23	-20.22	20.84	0.00	0.00	0.00
3,800.00	8.69	185.18	3,782.65	-238.28	-21.58	22.25	0.00	0.00	0.00
3,900.00	8.69	185.18	3,881.50	-253.33	-22.95	23.65	0.00	0.00	0.00
4,000.00	8.69	185.18	3,980.35	-268.38	-24.31	25.06	0.00	0.00	0.00
4,100.00	8.69	185.18	4,079.21	-283.44	-25.67	26.46	0.00	0.00	0.00
4,200.00	8.69	185.18	4,178.06	-298.49	-27.03	27.87	0.00	0.00	0.00
4,300.00	8.69	185.18	4,276.91	-313.54	-28.40	29.27	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	8.69	185.18	4,375.76	-328.59	-29.76	30.68	0.00	0.00	0.00
4,500.00	8.69	185.18	4,474.61	-343.64	-31.12	32.08	0.00	0.00	0.00
4,600.00	8.69	185.18	4,573.46	-358.69	-32.49	33.49	0.00	0.00	0.00
4,700.00	8.69	185.18	4,672.31	-373.74	-33.85	34.89	0.00	0.00	0.00
4,800.00	8.69	185.18	4,771.17	-388.80	-35.21	36.30	0.00	0.00	0.00
4,900.00	8.69	185.18	4,870.02	-403.85	-36.58	37.71	0.00	0.00	0.00
5,000.00	8.69	185.18	4,968.87	-418.90	-37.94	39.11	0.00	0.00	0.00
5,016.32	8.69	185.18	4,985.00	-421.35	-38.16	39.34	0.00	0.00	0.00
Delaware									
5,100.00	8.69	185.18	5,067.72	-433.95	-39.30	40.52	0.00	0.00	0.00
5,200.00	8.69	185.18	5,166.57	-449.00	-40.67	41.92	0.00	0.00	0.00
5,300.00	8.69	185.18	5,265.42	-464.05	-42.03	43.33	0.00	0.00	0.00
5,400.00	8.69	185.18	5,364.27	-479.10	-43.39	44.73	0.00	0.00	0.00
5,500.00	8.69	185.18	5,463.13	-494.16	-44.76	46.14	0.00	0.00	0.00
5,600.00	8.69	185.18	5,561.98	-509.21	-46.12	47.54	0.00	0.00	0.00
5,700.00	8.69	185.18	5,660.83	-524.26	-47.48	48.95	0.00	0.00	0.00
5,800.00	8.69	185.18	5,759.68	-539.31	-48.85	50.35	0.00	0.00	0.00
5,900.00	8.69	185.18	5,858.53	-554.36	-50.21	51.76	0.00	0.00	0.00
6,000.00	8.69	185.18	5,957.38	-569.41	-51.57	53.16	0.00	0.00	0.00
6,100.00	8.69	185.18	6,056.23	-584.46	-52.94	54.57	0.00	0.00	0.00
6,170.58	8.69	185.18	6,126.00	-595.09	-53.90	55.56	0.00	0.00	0.00
Brushy Canyon									
6,200.00	8.69	185.18	6,155.08	-599.52	-54.30	55.97	0.00	0.00	0.00
6,300.00	8.69	185.18	6,253.94	-614.57	-55.66	57.38	0.00	0.00	0.00
6,400.00	8.69	185.18	6,352.79	-629.62	-57.03	58.78	0.00	0.00	0.00
6,500.00	8.69	185.18	6,451.64	-644.67	-58.39	60.19	0.00	0.00	0.00
6,600.00	8.69	185.18	6,550.49	-659.72	-59.75	61.60	0.00	0.00	0.00
6,700.00	8.69	185.18	6,649.34	-674.77	-61.12	63.00	0.00	0.00	0.00
6,800.00	8.69	185.18	6,748.19	-689.82	-62.48	64.41	0.00	0.00	0.00
6,900.00	8.69	185.18	6,847.04	-704.88	-63.84	65.81	0.00	0.00	0.00
7,000.00	8.69	185.18	6,945.90	-719.93	-65.21	67.22	0.00	0.00	0.00
7,100.00	8.69	185.18	7,044.75	-734.98	-66.57	68.62	0.00	0.00	0.00
7,200.00	8.69	185.18	7,143.60	-750.03	-67.93	70.03	0.00	0.00	0.00
7,300.00	8.69	185.18	7,242.45	-765.08	-69.30	71.43	0.00	0.00	0.00
7,400.00	8.69	185.18	7,341.30	-780.13	-70.66	72.84	0.00	0.00	0.00
7,500.00	8.69	185.18	7,440.15	-795.18	-72.02	74.24	0.00	0.00	0.00
7,514.01	8.69	185.18	7,454.00	-797.29	-72.21	74.44	0.00	0.00	0.00
Basal Brushy Canyon									
7,600.00	8.69	185.18	7,539.00	-810.24	-73.39	75.65	0.00	0.00	0.00
7,700.00	8.69	185.18	7,637.86	-825.29	-74.75	77.05	0.00	0.00	0.00
7,795.24	8.69	185.18	7,732.00	-839.62	-76.05	78.39	0.00	0.00	0.00
Bone Spring Lime									
7,800.00	8.69	185.18	7,736.71	-840.34	-76.11	78.46	0.00	0.00	0.00
7,900.00	8.69	185.18	7,835.56	-855.39	-77.48	79.86	0.00	0.00	0.00
7,954.06	8.69	185.18	7,889.00	-863.53	-78.21	80.62	0.00	0.00	0.00
Avalon Shale Upper									
8,000.00	8.69	185.18	7,934.41	-870.44	-78.84	81.27	0.00	0.00	0.00
8,100.00	8.69	185.18	8,033.26	-885.49	-80.20	82.67	0.00	0.00	0.00
8,200.00	8.69	185.18	8,132.11	-900.54	-81.57	84.08	0.00	0.00	0.00
8,300.00	8.69	185.18	8,230.96	-915.60	-82.93	85.48	0.00	0.00	0.00
8,400.00	8.69	185.18	8,329.82	-930.65	-84.29	86.89	0.00	0.00	0.00
8,414.35	8.69	185.18	8,344.00	-932.81	-84.49	87.09	0.00	0.00	0.00
Avalon Shale Lower									



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	8.69	185.18	8,428.67	-945.70	-85.65	88.30	0.00	0.00	0.00
8,600.00	8.69	185.18	8,527.52	-960.75	-87.02	89.70	0.00	0.00	0.00
8,682.43	8.69	185.18	8,609.00	-973.16	-88.14	90.86	0.00	0.00	0.00
1st Bone Spring Lime									
8,700.00	8.69	185.18	8,626.37	-975.80	-88.38	91.11	0.00	0.00	0.00
8,800.00	8.69	185.18	8,725.22	-990.85	-89.74	92.51	0.00	0.00	0.00
8,887.79	8.69	185.18	8,812.00	-1,004.07	-90.94	93.74	0.00	0.00	0.00
1st Bone Spring Sand									
8,900.00	8.69	185.18	8,824.07	-1,005.91	-91.11	93.92	0.00	0.00	0.00
9,000.00	8.69	185.18	8,922.92	-1,020.96	-92.47	95.32	0.00	0.00	0.00
9,100.00	8.69	185.18	9,021.77	-1,036.01	-93.83	96.73	0.00	0.00	0.00
9,164.97	8.69	185.18	9,086.00	-1,045.79	-94.72	97.64	0.00	0.00	0.00
2nd Bone Spring Lime									
9,200.00	8.69	185.18	9,120.63	-1,051.06	-95.20	98.13	0.00	0.00	0.00
9,296.16	8.69	185.18	9,215.68	-1,065.53	-96.51	99.48	0.00	0.00	0.00
9,300.00	8.74	187.69	9,219.48	-1,066.11	-96.57	99.55	10.00	1.15	65.57
9,350.00	10.63	215.59	9,268.79	-1,073.63	-99.77	102.77	10.00	3.79	55.80
9,400.00	14.12	232.53	9,317.64	-1,081.10	-107.30	110.32	10.00	6.98	33.87
9,450.00	18.31	242.38	9,365.64	-1,088.46	-119.11	122.15	10.00	8.38	19.70
9,500.00	22.82	248.55	9,412.45	-1,095.65	-135.10	138.16	10.00	9.02	12.35
9,542.47	26.79	252.21	9,451.00	-1,101.59	-151.89	154.97	10.00	9.33	8.60
2nd Bone Spring Sand									
9,550.00	27.50	252.75	9,457.70	-1,102.62	-155.17	158.25	10.00	9.44	7.23
9,600.00	32.26	255.80	9,501.04	-1,109.32	-179.14	182.24	10.00	9.53	6.10
9,650.00	37.08	258.14	9,542.15	-1,115.70	-206.85	209.97	10.00	9.64	4.67
9,700.00	41.94	260.00	9,580.71	-1,121.70	-238.08	241.21	10.00	9.72	3.73
9,750.00	46.82	261.54	9,616.44	-1,127.29	-272.59	275.74	10.00	9.77	3.08
9,800.00	51.72	262.86	9,649.05	-1,132.41	-310.12	313.28	10.00	9.80	2.63
9,850.00	56.64	264.00	9,678.30	-1,137.04	-350.39	353.56	10.00	9.83	2.29
9,900.00	61.56	265.02	9,703.97	-1,141.13	-393.08	396.27	10.00	9.84	2.05
9,950.00	66.49	265.96	9,725.87	-1,144.65	-437.88	441.07	10.00	9.86	1.86
9,957.98	67.28	266.10	9,729.00	-1,145.16	-445.20	448.40	10.00	9.87	1.78
Target Top									
10,000.00	71.42	266.82	9,743.81	-1,147.59	-484.44	487.64	10.00	9.87	1.72
10,050.00	76.36	267.64	9,757.68	-1,149.90	-532.40	535.61	10.00	9.88	1.63
10,100.00	81.30	268.42	9,767.36	-1,151.59	-581.41	584.62	10.00	9.88	1.56
10,150.00	86.25	269.18	9,772.78	-1,152.63	-631.09	634.30	10.00	9.88	1.52
10,193.54	90.55	269.84	9,774.00	-1,153.00	-674.60	677.82	10.00	9.89	1.51
Landing Point - 102Y FTP									
10,200.00	90.55	269.84	9,773.94	-1,153.02	-681.06	684.28	0.00	0.00	0.00
10,300.00	90.55	269.84	9,772.98	-1,153.30	-781.05	784.27	0.00	0.00	0.00
10,400.00	90.55	269.84	9,772.02	-1,153.59	-881.05	884.27	0.00	0.00	0.00
10,500.00	90.55	269.84	9,771.06	-1,153.87	-981.04	984.26	0.00	0.00	0.00
10,600.00	90.55	269.84	9,770.10	-1,154.16	-1,081.04	1,084.26	0.00	0.00	0.00
10,700.00	90.55	269.84	9,769.14	-1,154.44	-1,181.03	1,184.25	0.00	0.00	0.00
10,800.00	90.55	269.84	9,768.18	-1,154.72	-1,281.03	1,284.25	0.00	0.00	0.00
10,900.00	90.55	269.84	9,767.22	-1,155.01	-1,381.02	1,384.24	0.00	0.00	0.00
11,000.00	90.55	269.84	9,766.26	-1,155.29	-1,481.02	1,484.24	0.00	0.00	0.00
11,100.00	90.55	269.84	9,765.30	-1,155.58	-1,581.01	1,584.23	0.00	0.00	0.00
11,200.00	90.55	269.84	9,764.34	-1,155.86	-1,681.01	1,684.23	0.00	0.00	0.00
11,300.00	90.55	269.84	9,763.38	-1,156.15	-1,781.00	1,784.23	0.00	0.00	0.00
11,400.00	90.55	269.84	9,762.42	-1,156.43	-1,881.00	1,884.22	0.00	0.00	0.00
11,500.00	90.55	269.84	9,761.46	-1,156.71	-1,980.99	1,984.22	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	90.55	269.84	9,760.50	-1,157.00	-2,080.99	2,084.21	0.00	0.00	0.00
11,700.00	90.55	269.84	9,759.54	-1,157.28	-2,180.98	2,184.21	0.00	0.00	0.00
11,800.00	90.55	269.84	9,758.58	-1,157.57	-2,280.98	2,284.20	0.00	0.00	0.00
11,900.00	90.55	269.84	9,757.62	-1,157.85	-2,380.97	2,384.20	0.00	0.00	0.00
12,000.00	90.55	269.84	9,756.66	-1,158.14	-2,480.97	2,484.19	0.00	0.00	0.00
12,100.00	90.55	269.84	9,755.70	-1,158.42	-2,580.96	2,584.19	0.00	0.00	0.00
12,200.00	90.55	269.84	9,754.74	-1,158.71	-2,680.96	2,684.18	0.00	0.00	0.00
12,300.00	90.55	269.84	9,753.78	-1,158.99	-2,780.95	2,784.18	0.00	0.00	0.00
12,400.00	90.55	269.84	9,752.82	-1,159.27	-2,880.95	2,884.17	0.00	0.00	0.00
12,500.00	90.55	269.84	9,751.86	-1,159.56	-2,980.94	2,984.17	0.00	0.00	0.00
12,600.00	90.55	269.84	9,750.90	-1,159.84	-3,080.94	3,084.17	0.00	0.00	0.00
12,700.00	90.55	269.84	9,749.94	-1,160.13	-3,180.93	3,184.16	0.00	0.00	0.00
12,800.00	90.55	269.84	9,748.98	-1,160.41	-3,280.93	3,284.16	0.00	0.00	0.00
12,900.00	90.55	269.84	9,748.02	-1,160.70	-3,380.92	3,384.15	0.00	0.00	0.00
13,000.00	90.55	269.84	9,747.06	-1,160.98	-3,480.92	3,484.15	0.00	0.00	0.00
13,100.00	90.55	269.84	9,746.10	-1,161.26	-3,580.91	3,584.14	0.00	0.00	0.00
13,200.00	90.55	269.84	9,745.14	-1,161.55	-3,680.91	3,684.14	0.00	0.00	0.00
13,300.00	90.55	269.84	9,744.18	-1,161.83	-3,780.90	3,784.13	0.00	0.00	0.00
13,400.00	90.55	269.84	9,743.22	-1,162.12	-3,880.90	3,884.13	0.00	0.00	0.00
13,500.00	90.55	269.84	9,742.26	-1,162.40	-3,980.89	3,984.12	0.00	0.00	0.00
13,600.00	90.55	269.84	9,741.30	-1,162.69	-4,080.89	4,084.12	0.00	0.00	0.00
13,700.00	90.55	269.84	9,740.34	-1,162.97	-4,180.88	4,184.12	0.00	0.00	0.00
13,800.00	90.55	269.84	9,739.38	-1,163.26	-4,280.88	4,284.11	0.00	0.00	0.00
13,900.00	90.55	269.84	9,738.42	-1,163.54	-4,380.87	4,384.11	0.00	0.00	0.00
14,000.00	90.55	269.84	9,737.46	-1,163.82	-4,480.87	4,484.10	0.00	0.00	0.00
14,100.00	90.55	269.84	9,736.50	-1,164.11	-4,580.86	4,584.10	0.00	0.00	0.00
14,200.00	90.55	269.84	9,735.54	-1,164.39	-4,680.86	4,684.09	0.00	0.00	0.00
14,300.00	90.55	269.84	9,734.58	-1,164.68	-4,780.85	4,784.09	0.00	0.00	0.00
14,400.00	90.55	269.84	9,733.62	-1,164.96	-4,880.85	4,884.08	0.00	0.00	0.00
14,500.00	90.55	269.84	9,732.66	-1,165.25	-4,980.84	4,984.08	0.00	0.00	0.00
14,600.00	90.55	269.84	9,731.70	-1,165.53	-5,080.84	5,084.07	0.00	0.00	0.00
14,700.00	90.55	269.84	9,730.74	-1,165.81	-5,180.83	5,184.07	0.00	0.00	0.00
14,800.00	90.55	269.84	9,729.78	-1,166.10	-5,280.83	5,284.06	0.00	0.00	0.00
14,900.00	90.55	269.84	9,728.82	-1,166.38	-5,380.82	5,384.06	0.00	0.00	0.00
15,000.00	90.55	269.84	9,727.86	-1,166.67	-5,480.82	5,484.06	0.00	0.00	0.00
15,100.00	90.55	269.84	9,726.90	-1,166.95	-5,580.81	5,584.05	0.00	0.00	0.00
15,200.00	90.55	269.84	9,725.94	-1,167.24	-5,680.81	5,684.05	0.00	0.00	0.00
15,300.00	90.55	269.84	9,724.98	-1,167.52	-5,780.80	5,784.04	0.00	0.00	0.00
15,400.00	90.55	269.84	9,724.02	-1,167.80	-5,880.80	5,884.04	0.00	0.00	0.00
15,500.00	90.55	269.84	9,723.06	-1,168.09	-5,980.79	5,984.03	0.00	0.00	0.00
15,600.00	90.55	269.84	9,722.10	-1,168.37	-6,080.79	6,084.03	0.00	0.00	0.00
15,700.00	90.55	269.84	9,721.14	-1,168.66	-6,180.78	6,184.02	0.00	0.00	0.00
15,800.00	90.55	269.84	9,720.18	-1,168.94	-6,280.78	6,284.02	0.00	0.00	0.00
15,900.00	90.55	269.84	9,719.22	-1,169.23	-6,380.77	6,384.01	0.00	0.00	0.00
16,000.00	90.55	269.84	9,718.26	-1,169.51	-6,480.77	6,484.01	0.00	0.00	0.00
16,100.00	90.55	269.84	9,717.30	-1,169.80	-6,580.76	6,584.00	0.00	0.00	0.00
16,200.00	90.55	269.84	9,716.34	-1,170.08	-6,680.76	6,684.00	0.00	0.00	0.00
16,300.00	90.55	269.84	9,715.38	-1,170.36	-6,780.75	6,784.00	0.00	0.00	0.00
16,400.00	90.55	269.84	9,714.42	-1,170.65	-6,880.75	6,883.99	0.00	0.00	0.00
16,500.00	90.55	269.84	9,713.46	-1,170.93	-6,980.74	6,983.99	0.00	0.00	0.00
16,600.00	90.55	269.84	9,712.50	-1,171.22	-7,080.74	7,083.98	0.00	0.00	0.00
16,700.00	90.55	269.84	9,711.54	-1,171.50	-7,180.73	7,183.98	0.00	0.00	0.00
16,800.00	90.55	269.84	9,710.58	-1,171.79	-7,280.73	7,283.97	0.00	0.00	0.00
16,900.00	90.55	269.84	9,709.62	-1,172.07	-7,380.72	7,383.97	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.00	90.55	269.84	9,708.66	-1,172.35	-7,480.72	7,483.96	0.00	0.00	0.00
17,100.00	90.55	269.84	9,707.70	-1,172.64	-7,580.71	7,583.96	0.00	0.00	0.00
17,200.00	90.55	269.84	9,706.74	-1,172.92	-7,680.71	7,683.95	0.00	0.00	0.00
17,300.00	90.55	269.84	9,705.78	-1,173.21	-7,780.70	7,783.95	0.00	0.00	0.00
17,400.00	90.55	269.84	9,704.82	-1,173.49	-7,880.70	7,883.94	0.00	0.00	0.00
17,500.00	90.55	269.84	9,703.86	-1,173.78	-7,980.69	7,983.94	0.00	0.00	0.00
17,600.00	90.55	269.84	9,702.90	-1,174.06	-8,080.69	8,083.94	0.00	0.00	0.00
17,700.00	90.55	269.84	9,701.94	-1,174.34	-8,180.68	8,183.93	0.00	0.00	0.00
17,800.00	90.55	269.84	9,700.98	-1,174.63	-8,280.68	8,283.93	0.00	0.00	0.00
17,900.00	90.55	269.84	9,700.02	-1,174.91	-8,380.67	8,383.92	0.00	0.00	0.00
18,000.00	90.55	269.84	9,699.06	-1,175.20	-8,480.67	8,483.92	0.00	0.00	0.00
18,100.00	90.55	269.84	9,698.10	-1,175.48	-8,580.66	8,583.91	0.00	0.00	0.00
18,200.00	90.55	269.84	9,697.14	-1,175.77	-8,680.66	8,683.91	0.00	0.00	0.00
18,300.00	90.55	269.84	9,696.18	-1,176.05	-8,780.65	8,783.90	0.00	0.00	0.00
18,400.00	90.55	269.84	9,695.23	-1,176.34	-8,880.65	8,883.90	0.00	0.00	0.00
18,500.00	90.55	269.84	9,694.27	-1,176.62	-8,980.64	8,983.89	0.00	0.00	0.00
18,600.00	90.55	269.84	9,693.31	-1,176.90	-9,080.64	9,083.89	0.00	0.00	0.00
18,700.00	90.55	269.84	9,692.35	-1,177.19	-9,180.63	9,183.88	0.00	0.00	0.00
18,800.00	90.55	269.84	9,691.39	-1,177.47	-9,280.63	9,283.88	0.00	0.00	0.00
18,900.00	90.55	269.84	9,690.43	-1,177.76	-9,380.62	9,383.88	0.00	0.00	0.00
19,000.00	90.55	269.84	9,689.47	-1,178.04	-9,480.62	9,483.87	0.00	0.00	0.00
19,100.00	90.55	269.84	9,688.51	-1,178.33	-9,580.61	9,583.87	0.00	0.00	0.00
19,200.00	90.55	269.84	9,687.55	-1,178.61	-9,680.61	9,683.86	0.00	0.00	0.00
19,300.00	90.55	269.84	9,686.59	-1,178.89	-9,780.60	9,783.86	0.00	0.00	0.00
19,400.00	90.55	269.84	9,685.63	-1,179.18	-9,880.60	9,883.85	0.00	0.00	0.00
19,500.00	90.55	269.84	9,684.67	-1,179.46	-9,980.59	9,983.85	0.00	0.00	0.00
19,600.00	90.55	269.84	9,683.71	-1,179.75	-10,080.59	10,083.84	0.00	0.00	0.00
19,700.00	90.55	269.84	9,682.75	-1,180.03	-10,180.58	10,183.84	0.00	0.00	0.00
19,800.00	90.55	269.84	9,681.79	-1,180.32	-10,280.58	10,283.83	0.00	0.00	0.00
19,900.00	90.55	269.84	9,680.83	-1,180.60	-10,380.57	10,383.83	0.00	0.00	0.00
20,000.00	90.55	269.84	9,679.87	-1,180.89	-10,480.57	10,483.82	0.00	0.00	0.00
20,100.00	90.55	269.84	9,678.91	-1,181.17	-10,580.56	10,583.82	0.00	0.00	0.00
20,200.00	90.55	269.84	9,677.95	-1,181.45	-10,680.56	10,683.82	0.00	0.00	0.00
20,300.00	90.55	269.84	9,676.99	-1,181.74	-10,780.55	10,783.81	0.00	0.00	0.00
20,400.00	90.55	269.84	9,676.03	-1,182.02	-10,880.55	10,883.81	0.00	0.00	0.00
20,500.00	90.55	269.84	9,675.07	-1,182.31	-10,980.54	10,983.80	0.00	0.00	0.00
20,600.00	90.55	269.84	9,674.11	-1,182.59	-11,080.54	11,083.80	0.00	0.00	0.00
20,700.00	90.55	269.84	9,673.15	-1,182.88	-11,180.53	11,183.79	0.00	0.00	0.00
20,800.00	90.55	269.84	9,672.19	-1,183.16	-11,280.53	11,283.79	0.00	0.00	0.00
20,900.00	90.55	269.84	9,671.23	-1,183.44	-11,380.52	11,383.78	0.00	0.00	0.00
21,000.00	90.55	269.84	9,670.27	-1,183.73	-11,480.52	11,483.78	0.00	0.00	0.00
21,100.00	90.55	269.84	9,669.31	-1,184.01	-11,580.51	11,583.77	0.00	0.00	0.00
21,200.00	90.55	269.84	9,668.35	-1,184.30	-11,680.51	11,683.77	0.00	0.00	0.00
21,300.00	90.55	269.84	9,667.39	-1,184.58	-11,780.50	11,783.77	0.00	0.00	0.00
21,400.00	90.55	269.84	9,666.43	-1,184.87	-11,880.50	11,883.76	0.00	0.00	0.00
21,500.00	90.55	269.84	9,665.47	-1,185.15	-11,980.49	11,983.76	0.00	0.00	0.00
21,600.00	90.55	269.84	9,664.51	-1,185.43	-12,080.49	12,083.75	0.00	0.00	0.00
21,700.00	90.55	269.84	9,663.55	-1,185.72	-12,180.48	12,183.75	0.00	0.00	0.00
21,800.00	90.55	269.84	9,662.59	-1,186.00	-12,280.48	12,283.74	0.00	0.00	0.00
21,900.00	90.55	269.84	9,661.63	-1,186.29	-12,380.47	12,383.74	0.00	0.00	0.00
22,000.00	90.55	269.84	9,660.67	-1,186.57	-12,480.47	12,483.73	0.00	0.00	0.00
22,100.00	90.55	269.84	9,659.71	-1,186.86	-12,580.46	12,583.73	0.00	0.00	0.00
22,200.00	90.55	269.84	9,658.75	-1,187.14	-12,680.46	12,683.72	0.00	0.00	0.00
22,300.00	90.55	269.84	9,657.79	-1,187.43	-12,780.45	12,783.72	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,400.00	90.55	269.84	9,656.83	-1,187.71	-12,880.45	12,883.71	0.00	0.00	0.00
22,500.00	90.55	269.84	9,655.87	-1,187.99	-12,980.44	12,983.71	0.00	0.00	0.00
22,600.00	90.55	269.84	9,654.91	-1,188.28	-13,080.44	13,083.71	0.00	0.00	0.00
22,700.00	90.55	269.84	9,653.95	-1,188.56	-13,180.43	13,183.70	0.00	0.00	0.00
22,800.00	90.55	269.84	9,652.99	-1,188.85	-13,280.43	13,283.70	0.00	0.00	0.00
22,900.00	90.55	269.84	9,652.03	-1,189.13	-13,380.42	13,383.69	0.00	0.00	0.00
23,000.00	90.55	269.84	9,651.07	-1,189.42	-13,480.42	13,483.69	0.00	0.00	0.00
23,100.00	90.55	269.84	9,650.11	-1,189.70	-13,580.41	13,583.68	0.00	0.00	0.00
23,200.00	90.55	269.84	9,649.15	-1,189.98	-13,680.41	13,683.68	0.00	0.00	0.00
23,300.00	90.55	269.84	9,648.19	-1,190.27	-13,780.40	13,783.67	0.00	0.00	0.00
23,400.00	90.55	269.84	9,647.23	-1,190.55	-13,880.40	13,883.67	0.00	0.00	0.00
23,500.00	90.55	269.84	9,646.27	-1,190.84	-13,980.39	13,983.66	0.00	0.00	0.00
23,600.00	90.55	269.84	9,645.31	-1,191.12	-14,080.39	14,083.66	0.00	0.00	0.00
23,700.00	90.55	269.84	9,644.35	-1,191.41	-14,180.38	14,183.65	0.00	0.00	0.00
23,800.00	90.55	269.84	9,643.39	-1,191.69	-14,280.38	14,283.65	0.00	0.00	0.00
23,900.00	90.55	269.84	9,642.43	-1,191.97	-14,380.37	14,383.65	0.00	0.00	0.00
24,000.00	90.55	269.84	9,641.47	-1,192.26	-14,480.37	14,483.64	0.00	0.00	0.00
24,100.00	90.55	269.84	9,640.51	-1,192.54	-14,580.36	14,583.64	0.00	0.00	0.00
24,200.00	90.55	269.84	9,639.55	-1,192.83	-14,680.36	14,683.63	0.00	0.00	0.00
24,300.00	90.55	269.84	9,638.59	-1,193.11	-14,780.35	14,783.63	0.00	0.00	0.00
24,400.00	90.55	269.84	9,637.63	-1,193.40	-14,880.35	14,883.62	0.00	0.00	0.00
24,500.00	90.55	269.84	9,636.67	-1,193.68	-14,980.34	14,983.62	0.00	0.00	0.00
24,600.00	90.55	269.84	9,635.71	-1,193.97	-15,080.34	15,083.61	0.00	0.00	0.00
24,700.00	90.55	269.84	9,634.75	-1,194.25	-15,180.33	15,183.61	0.00	0.00	0.00
24,800.00	90.55	269.84	9,633.79	-1,194.53	-15,280.33	15,283.60	0.00	0.00	0.00
24,900.00	90.55	269.84	9,632.83	-1,194.82	-15,380.32	15,383.60	0.00	0.00	0.00
25,000.00	90.55	269.84	9,631.87	-1,195.10	-15,480.32	15,483.59	0.00	0.00	0.00
25,100.00	90.55	269.84	9,630.91	-1,195.39	-15,580.31	15,583.59	0.00	0.00	0.00
25,200.00	90.55	269.84	9,629.95	-1,195.67	-15,680.31	15,683.59	0.00	0.00	0.00
25,300.00	90.55	269.84	9,628.99	-1,195.96	-15,780.30	15,783.58	0.00	0.00	0.00
25,400.00	90.55	269.84	9,628.03	-1,196.24	-15,880.30	15,883.58	0.00	0.00	0.00
25,500.00	90.55	269.84	9,627.07	-1,196.52	-15,980.29	15,983.57	0.00	0.00	0.00
25,600.00	90.55	269.84	9,626.11	-1,196.81	-16,080.29	16,083.57	0.00	0.00	0.00
25,700.00	90.55	269.84	9,625.15	-1,197.09	-16,180.28	16,183.56	0.00	0.00	0.00
25,800.00	90.55	269.84	9,624.19	-1,197.38	-16,280.28	16,283.56	0.00	0.00	0.00
25,863.43	90.55	269.84	9,623.58	-1,197.56	-16,343.70	16,346.98	0.00	0.00	0.00
102Y LTP									
25,900.00	90.55	269.84	9,623.23	-1,197.66	-16,380.27	16,383.55	0.00	0.00	0.00
25,913.43	90.55	269.84	9,623.10	-1,197.70	-16,393.70	16,396.98	0.00	0.00	0.00
102Y BHL									



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 102H
Company:	XTO Energy	TVD Reference:	RKB = 33' @ 3562.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 33' @ 3562.00usft (TBD)
Site:	BIG EDDY UNIT BB JABBA	North Reference:	Grid
Well:	102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
102Y SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	565,253.90	676,572.40	32.5526847	-103.7602752
102Y BHL - plan hits target center - Point	0.00	0.01	9,623.10	-1,197.70	-16,393.70	564,056.20	660,178.70	32.5496238	-103.8134973
102Y LTP - plan misses target center by 0.24usft at 25863.43usft MD (9623.58 TVD, -1197.56 N, -16343.70 E) - Point	0.00	0.00	9,623.58	-1,197.80	-16,343.70	564,056.10	660,228.70	32.5496229	-103.8133350
102Y FTP - plan hits target center - Point	0.00	0.00	9,774.00	-1,153.00	-674.60	564,100.90	675,897.80	32.5495254	-103.7624846

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
966.00	966.00	Rustler				
1,338.00	1,338.00	Salado				
2,673.41	2,669.00	Base Salt				
3,011.29	3,003.00	Capitan				
5,016.32	4,985.00	Delaware				
6,170.58	6,126.00	Brushy Canyon				
7,514.01	7,454.00	Basal Brushy Canyon				
7,795.24	7,732.00	Bone Spring Lime				
7,954.06	7,889.00	Avalon Shale Upper				
8,414.35	8,344.00	Avalon Shale Lower				
8,682.43	8,609.00	1st Bone Spring Lime				
8,887.79	8,812.00	1st Bone Spring Sand				
9,164.97	9,086.00	2nd Bone Spring Lime				
9,542.47	9,451.00	2nd Bone Spring Sand				
9,957.98	9,729.00	Target Top				
10,193.54	9,774.00	Landing Point				

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC.
LEASE NO.:	NMNM-033955
WELL NAME & NO.:	Big Eddy Unit DI BB Jaba 102H
SURFACE HOLE FOOTAGE:	0470' FSL & 0670' FWL
BOTTOM HOLE FOOTAGE	0660' FNL & 0050 FWL Sec. 30, T.20 S., R.32 E.
LOCATION:	Section 22, T.20 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input 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

1. 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.

R-111-P Potash

Capitan Reef

Possibility of water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Rustler, Artesia Group, and Capitan Reef.

Abnormal pressures expected to be encountered at the Base of the 3rd Bone

Springs/Top of the Wolfcamp

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. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing, which shall be set at approximately **2800** feet, 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 potash.**

9-5/8" 2nd Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **9-5/8** inch 2nd intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. 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, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef and 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.

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **50 feet** on top of Capitan Reef top (top estimated at 3,248'). If cement does not circulate see B.1.a, c-d above.

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8" 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate 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.

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)

☒ 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. 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.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. 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.

6. 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.
7. 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.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.

- c. 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.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.
- f. 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.
- g. 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.

JAM 120519

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: _XTO Permian Operating, LLC **OGRID:** _373075_____ **Date:** _11/28/2022_____

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Big Eddy Unit DI BB Jabba 102H		M-22-20S-32E	490'FSL & 580'FWL	2000	3200	3500

IV. Central Delivery Point Name: _BEU BB Central Tank Battery _____ [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Big Eddy Unit DI BB Jabba 102H		TBD	TBD	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

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

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☒ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☒ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Jessica Dooling</i>
Printed Name: Jessica Dooling
Title: Lead Regulatory Coordinator
E-mail Address: jessica.dooling@exxonmobil.com
Date: 11/28/2022
Phone: 970-769-6048
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:**1. Subsection B.**

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

2. Subsection C.

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

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

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

3. Subsection D.

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

- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- 4. Subsection E.
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 5. Subsection F.
 - Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
 - Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

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



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CARLSBAD OFFICE – EDDY & LEA COUNTIES

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

575-887-7329

XTO PERSONNEL:

Kendall Decker, Drilling Manager
Milton Turman, Drilling Superintendent
Jeff Raines, Construction Foreman
Toady Sanders, EH & S Manager
Wes McSpadden, Production Foreman

903-521-6477
817-524-5107
432-557-3159
903-520-1601
575-441-1147

SHERIFF DEPARTMENTS:

Eddy County
Lea County

575-887-7551
575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

Carlsbad
Eunice
Hobbs
Jal
Lovington

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

HOSPITALS:

Carlsbad Medical Emergency
Eunice Medical Emergency
Hobbs Medical Emergency
Jal Medical Emergency
Lovington Medical Emergency

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

AGENT NOTIFICATIONS:**For Lea County:**

Bureau of Land Management – Hobbs
New Mexico Oil Conservation Division – Hobbs

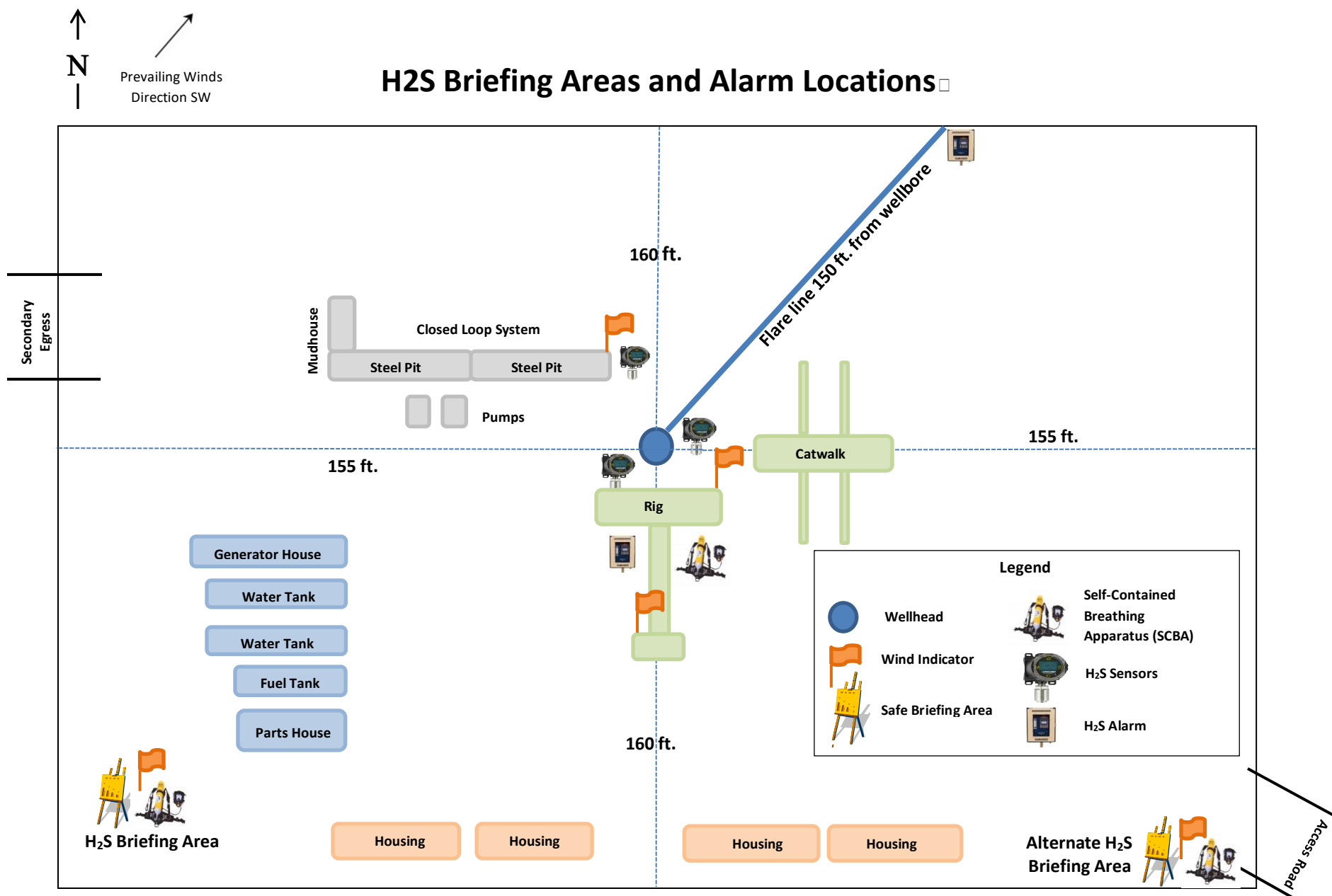
575-393-3612
575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad
New Mexico Oil Conservation Division - Artesia

575-234-5972
575-748-1283

H₂S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI BB JABBA**Well Number:** 102H**Disposal type description:**

Disposal location description: A licensed 3rd party vendor will be contracted to haul and safely dispose of garbage, junk and non-flammable waste materials.

Reserve Pit**Reserve Pit being used?** N**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description****Cuttings Area****Cuttings Area being used?** NO**Are you storing cuttings on location?** Y

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

Cuttings area length (ft.)**Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description****Section 8 - Ancillary Facilities****Are you requesting any Ancillary Facilities?:** N**Ancillary Facilities attachment:****Comments:**

District I

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

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 161764

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 161764
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/29/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	11/29/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	11/29/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	11/29/2022