<u>District I</u> 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**

Form C-101 August 1, 2011

Permit 323888

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, O	R ADD A ZONE
--	--------------

APPLICATION FOR PERIVIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE								
Operator Name and Address		2. OGRID Number						
XTO ENERGY, INC		5380						
6401 Holiday Hill Road		3. API Number						
Midland, TX 79707		30-025-50529						
4. Property Code	5. Property Name	6. Well No.						
313270	403H							
7 Surface Location								

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	M	31	19S	35E	4	242	N	1199	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	31	19S	35E	С	50	N	1870	W	Lea

9. Pool Information

WC-025 G-08 S203506D;BONE SPRING 97983
--

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well OIL			State	3703	
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date	
N 15600		2nd Bone Spring Sand		10/3/2022	
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water	

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC	
Surf	12.25	9.625	40	1947	680	0	
Int1	8.75	7.625	29.7	4100	1440	0	
Prod	6.75	5.5	20	15600	1080	2000	

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer	
Double Ram	3000	3000	Cameron	

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION	
Printed Name:	Electronically filed by Tiffany Yand	сеу	Approved By:	Paul F Kautz		
Title:	,			Geologist		
Email Address:				9/2/2022	Expiration Date: 9/2/2024	
Date: 8/23/2022 Phone: 432-215-8939			Conditions of Approval Attached			

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- 50529 ⁴ Property Code 313270 ⁷ OGRID No.		WC-25 G-08 S203506D; BONE SPRING			
⁴ Property Code 313270			Ferla Verde 31 STATE COM			
⁷ OGRID No.			Operator Name	403H 4H1		
005380			3,703'			

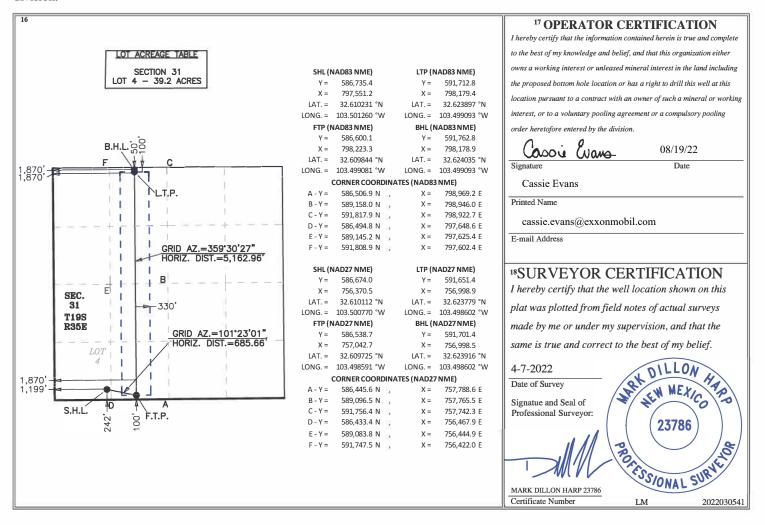
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
4	31	19 S	35 E		242	SOUTH	1,199	WEST	LEA	
11 Rottom Hole Location If Different From Surface										

Bollom 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
C	31	19 S	35 E		50	NORTH	1,870	WEST	LEA
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code					der No.				
159.2									

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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

Form APD Comments

Permit 323888

PERMIT COMMENTS

Operator Name and Address:	API Number:
XTO ENERGY, INC [5380]	30-025-50529
6401 Holiday Hill Road	Well:
Midland, TX 79707	PERLA VERDE 31 STATE COM #403H

Created By	Comment	Comment Date
pkautz	HOLD PROPERTY NAME	8/31/2022

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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**

Form APD Conditions

Permit 323888

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
XTO ENERGY, INC [5380]	30-025-50529		
6401 Holiday Hill Road	Well:		
Midland, TX 79707	PERLA VERDE 31 STATE COM #403H		

OCD	Condition
Reviewer	
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
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
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
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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.

Tal		esting, Surface BOP Stacks Pressure Test—	-High Pressure	
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.	
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP	
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP	
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ІТР	
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 safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program		
	during the evaluation period. The p	pressure shall not decrease below the		
	from one wellhead to another within when the integrity of a pressure se	n the 21 days, pressure testing is req	uired for pressure-containing and	
d For surface offshore operations, the	ne ram BOPs shall be pressure tes land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo		
e Adjustable chokes are not required	to be full sealing devices. Pressure	e testing against a closed choke is no	t required.	

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

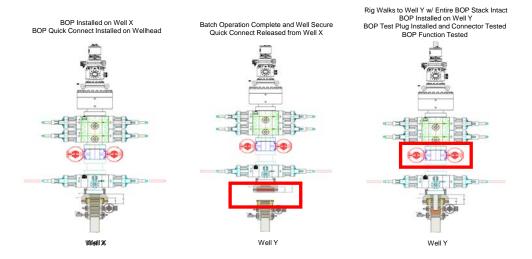
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

Procedures

- 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



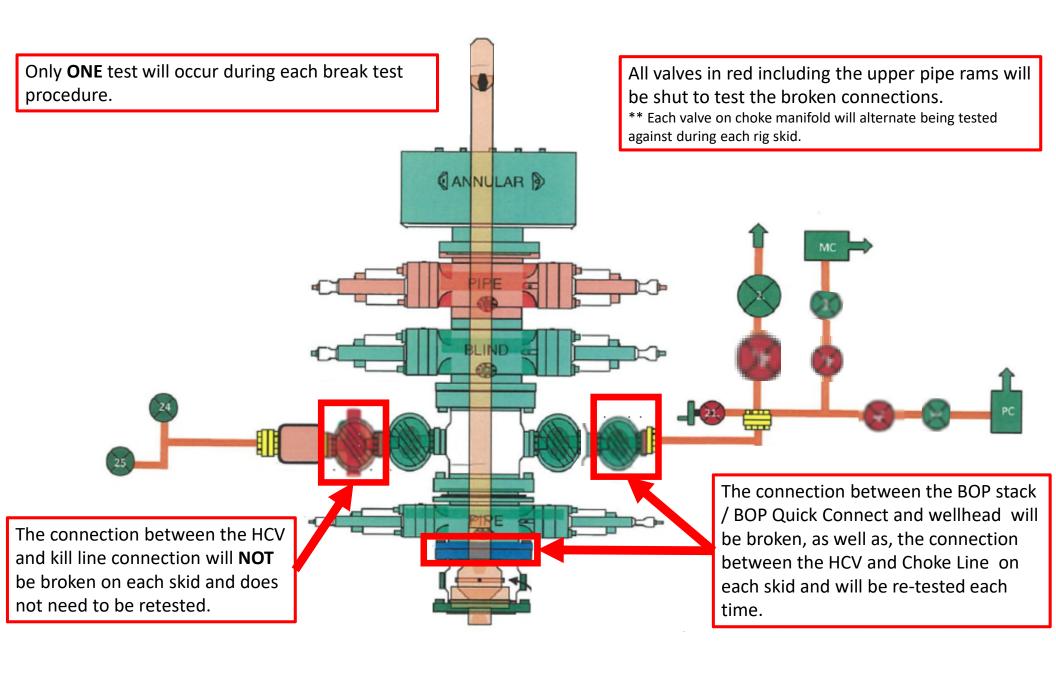
Summary

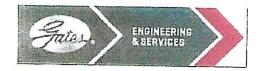
A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required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





GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer: Customer Ref. :

Invoice No.:

AUSTIN DISTRIBUTING

PENDING

201709

Test Date:

Hose Senal No.:

Created By:

6/8/2014

D-060814-1

NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Filting 1:

Gates Part No. :

Working Pressure:

4 1/16 in.5K FLG 4774-6001

5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

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

Quality:

Date:

Signature:

QUALITY 6/8/2014

Technical Supervisor:

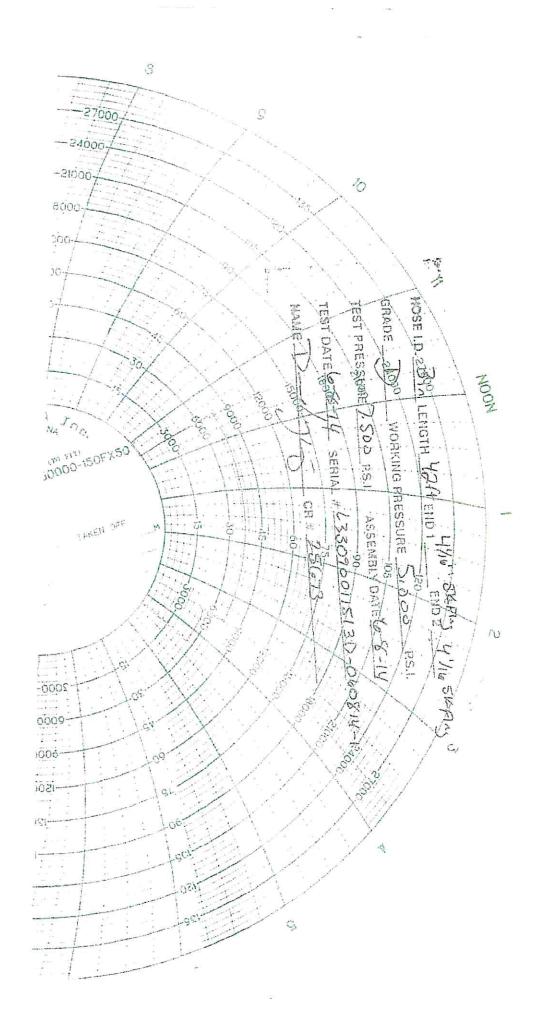
Date:

Signature:

PRODUCTION

6/8/2014

Form PTC - 01 Rev.0 2





HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

<u>CARLSBAD OFFICE – EDDY & LEA COUNTIES</u>

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

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.

Cement Variance Request

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7016') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per GE procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.



XTO Energy

Lea County, NM (NAD-27)
DAVY JONES STATE
#3H

Wellbore #1

Plan: PERMIT

Standard Planning Report

18 August, 2022



Project: Lea County, NM (NAD-27) Site: DAVY JONES STATE Well: #3H Wellbore: Wellbore #1 Design: PERMIT

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

Plan: PERMIT (#3H/Wellbore #1)

Date: 9:10, August 18 2022

Created By: Matthew May

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

WELL DETAILS: #3H

Rig Name: TBD GL @ 3703.00usft (TBD) Ground Level: 3703.00 +N/-S +E/-W Northing Easting L 0.00 0.00 586674.00 756370.50 32.6

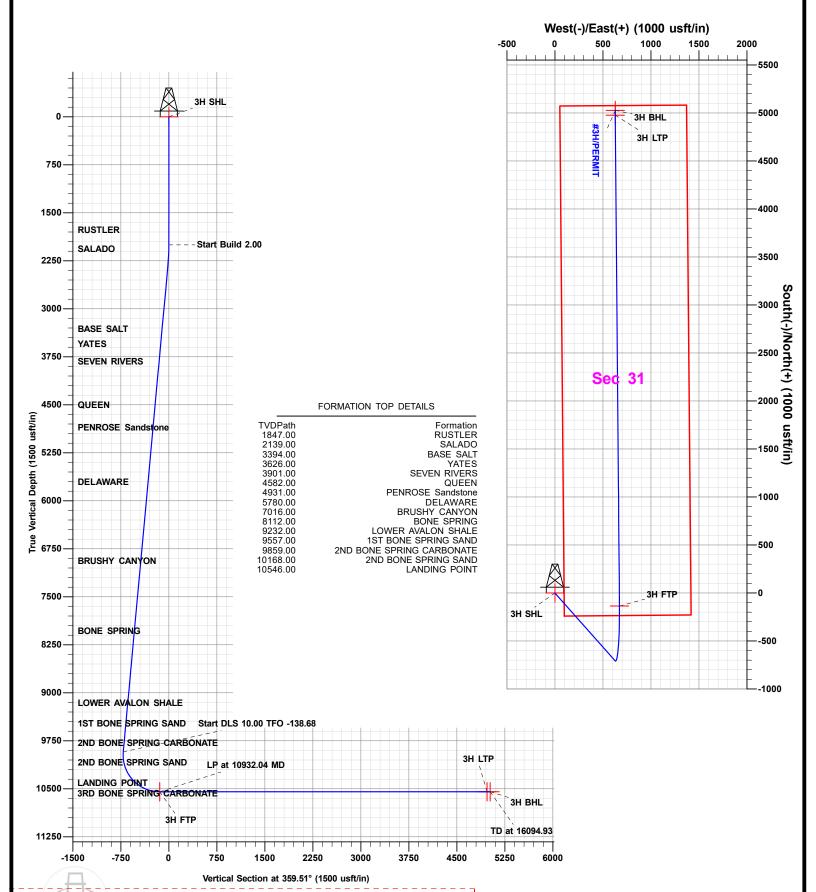
+E/-W Northing Easting Latitude Longitude 0.00 586674.00 756370.50 32.6101117 -103.5007699

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	2347.48	6.95	138.40	2346.63	-15.74	13.98	2.00	138.40	-15.86	
4	9979.74	6.95	138.40	9922.81	-706.28	627.14	0.00	0.00	-711.62	
5	10932.04	90.00	359.51	10546.00	-135.30	672.20	10.00	-138.68	-141.04	3H FTP
6	16044.93	90.00	359.51	10546.00	4977.40	628.43	0.00	0.00	4971.84	3H LTP
7	16094.93	90.00	359.51	10546.00	5027.40	628.00	0.00	0.00	5021.85	3H BHL

DESIGN TARGET DETAILS

Name	IVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
3H SHL	0.00	0.00	0.00	586674.00	756370.50	32.6101117	-103.5007699	Point
3H BHL	10546.00	5027.40	628.00	591701.40	756998.50	32.6239161	-103.4986025	Point
3H FTP	10546.00	-135.30	672.20	586538.70	757042.70	32.6097253	-103.4985906	Point
3H LTP	10546.00	4977.40	628.40	591651.40	756998.90	32.6237787	-103.4986024	Point



District I

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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		² Pool Code		
30-025-				
⁴ Property Code		⁵ Pr	roperty Name	⁶ Well Number
		3H		
⁷ OGRID No.		⁹ Elevation		
005380		3,703'		

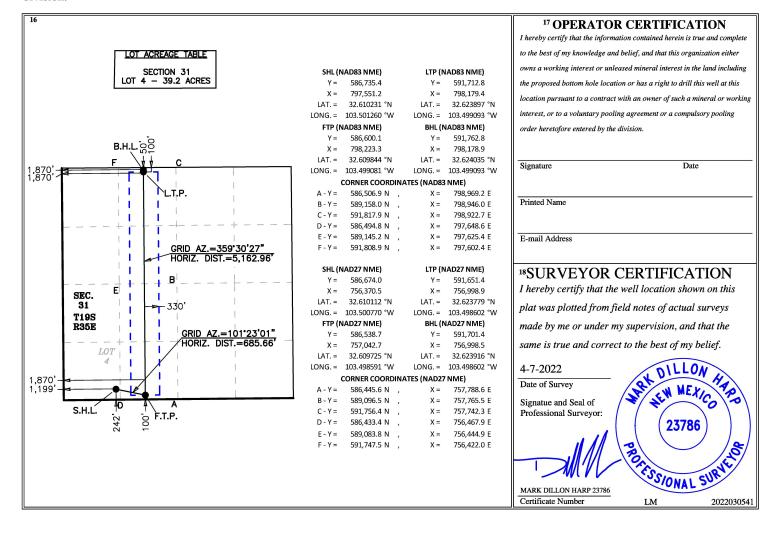
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	19 S	35 E		242	SOUTH	1,199	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	
C	31	19 S 35 E			50	NORTH	1,870	WEST	LEA	
12 Dedicated Acres	¹³ Joint or	Infill 14 C	onsolidation	Code 15 Or	der No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





EDM 5000.1.13 Single User Db Database:

Company: XTO Energy

Project: Lea County, NM (NAD-27) DAVY JONES STATE Site:

Well: #3H Wellbore #1 Wellbore: Design: **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD) GL @ 3703.00usft (TBD)

Minimum Curvature

Project Lea County, NM (NAD-27)

Map System: Geo Datum:

Map Zone:

Design

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

Mean Sea Level

DAVY JONES STATE Site

PERMIT

Site Position: Northing: 586,672.80 usft Latitude: 32.6101103 -103.5010622 From: Мар Easting: 756,280.50 usft Longitude: **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.45°

System Datum:

Well #3H

Well Position +N/-S Latitude: 1.20 usft Northing: 586,674.00 usft 32.6101117 +E/-W 90.00 usft Easting: 756,370.50 usft Longitude: -103.5007699

Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 3,703.00 usft

Wellbore #1 Wellbore **Model Name** Field Strength **Magnetics** Sample Date Declination **Dip Angle** (°) (nT) (°) IGRF2020 08/18/22 6.40 60.22 47,604

Audit Notes: Version: Phase: **PLAN** Tie On Depth: 0.00

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

(usft) (usft) (usft) (°) 0.00 0.00 0.00 359.51

Plan Sections	s									
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	
2,347.48	6.95	138.40	2,346.63	-15.74	13.98	2.00	2.00	0.00	138.40	
9,979.74	6.95	138.40	9,922.81	-706.28	627.14	0.00	0.00	0.00	0.00	
10,932.04	90.00	359.51	10,546.00	-135.30	672.20	10.00	8.72	-14.58	-138.68	3H FTP
16,044.93	90.00	359.51	10,546.00	4,977.40	628.43	0.00	0.00	0.00	0.00	3H LTP
16,094.93	90.00	359.51	10,546.00	5,027.40	628.00	0.00	0.00	0.00	0.00	3H BHL



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

Lea County, NM (NAD-27) DAVY JONES STATE Project: Site:

Well: #3H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD) GL @ 3703.00usft (TBD)

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 3H SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,000.00 1,100.00 1,200.00 1,300.00 1,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,000.00 1,100.00 1,200.00 1,300.00 1,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,500.00 1,600.00 1,700.00 1,800.00 1,847.00 RUSTLER	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,500.00 1,600.00 1,700.00 1,800.00 1,847.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,900.00 2,000.00 2,100.00 2,139.05	0.00 0.00 2.00 2.78	0.00 0.00 138.40 138.40	1,900.00 2,000.00 2,099.98 2,139.00	0.00 0.00 -1.30 -2.52	0.00 0.00 1.16 2.24	0.00 0.00 -1.31 -2.54	0.00 0.00 2.00 2.00	0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00
SALADO 2,200.00	4.00	138.40	2,199.84	-5.22	4.63	-5.26	2.00	2.00	0.00
2,300.00 2,347.48 2,400.00 2,500.00 2,600.00	6.00 6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40 138.40	2,299.45 2,346.63 2,398.76 2,498.03 2,597.29	-11.74 -15.74 -20.49 -29.54 -38.59	10.42 13.98 18.19 26.23 34.26	-11.82 -15.86 -20.65 -29.76 -38.88	2.00 2.00 0.00 0.00 0.00	2.00 2.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,700.00 2,800.00 2,900.00 3,000.00 3,100.00	6.95 6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40 138.40	2,696.56 2,795.82 2,895.09 2,994.35 3,093.62	-47.63 -56.68 -65.73 -74.78 -83.82	42.30 50.33 58.36 66.40 74.43	-47.99 -57.11 -66.23 -75.34 -84.46	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,200.00 3,300.00 3,400.00 3,402.60 BASE SAL	6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40	3,192.89 3,292.15 3,391.42 3,394.00	-92.87 -101.92 -110.97 -111.20	82.47 90.50 98.53 98.74	-93.57 -102.69 -111.81 -112.04	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
3,500.00	6.95	138.40	3,490.68	-120.01	106.57	-120.92	0.00	0.00	0.00
3,600.00 3,636.32 YATES	6.95 6.95	138.40 138.40	3,589.95 3,626.00	-129.06 -132.35	114.60 117.52	-130.04 -133.35	0.00 0.00	0.00 0.00	0.00 0.00
3,700.00 3,800.00 3,900.00	6.95 6.95 6.95	138.40 138.40 138.40	3,689.21 3,788.48 3,887.74	-138.11 -147.16 -156.21	122.63 130.67 138.70	-139.15 -148.27 -157.39	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,913.36 SEVEN RIV 4,000.00	6.95 /ERS 6.95	138.40	3,901.00	-157.41 -165.25	139.77 146.74	-158.60 -166.50	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Lea County, NM (NAD-27)
Site: DAVY JONES STATE

Well: #3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD) GL @ 3703.00usft (TBD)

Grid

Planr	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)	
	4,100.00	6.95	138.40	4,086.27	-174.30	154.77	-175.62	0.00	0.00	0.00	
	4,200.00	6.95	138.40	4,185.54	-183.35	162.80	-184.73	0.00	0.00	0.00	
	4,300.00	6.95	138.40	4,284.80	-192.40	170.84	-193.85	0.00	0.00	0.00	
	4,400.00	6.95	138.40	4,384.07	-201.44	178.87	-202.97	0.00	0.00	0.00	
	4,500.00	6.95	138.40	4,483.33	-210.49	186.90	-212.08	0.00	0.00	0.00	
	4,599.40	6.95	138.40	4,582.00	-219.48	194.89	-221.14	0.00	0.00	0.00	
	QUEEN 4,600.00 4,700.00	6.95 6.95	138.40 138.40	4,582.60 4,681.86	-219.54 -228.59	194.94 202.97	-221.20 -230.31	0.00 0.00	0.00 0.00	0.00 0.00	
	4,800.00	6.95	138.40	4,781.13	-237.63	211.01	-239.43	0.00	0.00	0.00	
	4,900.00	6.95	138.40	4,880.40	-246.68	219.04	-248.55	0.00	0.00	0.00	
	4,950.98	6.95	138.40	4,931.00	-251.29	223.14	-253.19	0.00	0.00	0.00	
		Sandstone	400.40	4.070.00	055.70	007.07	057.00	0.00	0.00	0.00	
	5,000.00	6.95	138.40	4,979.66	-255.73	227.07	-257.66	0.00	0.00	0.00	
	5,100.00	6.95	138.40	5,078.93	-264.78	235.11	-266.78	0.00	0.00	0.00	
	5,200.00	6.95	138.40	5,178.19	-273.82	243.14	-275.89	0.00	0.00	0.00	
	5,300.00	6.95	138.40	5,277.46	-282.87	251.18	-285.01	0.00	0.00	0.00	
	5,400.00	6.95	138.40	5,376.72	-291.92	259.21	-294.13	0.00	0.00	0.00	
	5,500.00	6.95	138.40	5,475.99	-300.97	267.24	-303.24	0.00	0.00	0.00	
	5,600.00	6.95	138.40	5,575.25	-310.02	275.28	-312.36	0.00	0.00	0.00	
	5,700.00	6.95	138.40	5,674.52	-319.06	283.31	-321.47	0.00	0.00	0.00	
	5,800.00	6.95	138.40	5,773.78	-328.11	291.34	-330.59	0.00	0.00	0.00	
	5,806.26	6.95	138.40	5,780.00	-328.68	291.85	-331.16	0.00	0.00	0.00	
	DELAWAR				00= 40						
	5,900.00	6.95	138.40	5,873.05	-337.16	299.38	-339.71	0.00	0.00	0.00	
	6,000.00	6.95	138.40	5,972.31	-346.21	307.41	-348.82	0.00	0.00	0.00	
	6,100.00	6.95	138.40	6,071.58	-355.25	315.45	-357.94	0.00	0.00	0.00	
	6,200.00	6.95	138.40	6,170.84	-364.30	323.48	-367.05	0.00	0.00	0.00	
	6,300.00	6.95	138.40	6,270.11	-373.35	331.51	-376.17	0.00	0.00	0.00	
	6,400.00	6.95	138.40	6,369.37	-382.40	339.55	-385.29	0.00	0.00	0.00	
	6,500.00	6.95	138.40	6,468.64	-391.44	347.58	-394.40	0.00	0.00	0.00	
	6,600.00	6.95	138.40	6,567.90	-400.49	355.62	-403.52	0.00	0.00	0.00	
	6,700.00	6.95	138.40	6,667.17	-409.54	363.65	-412.63	0.00	0.00	0.00	
	6,800.00	6.95	138.40	6,766.44	-418.59	371.68	-421.75	0.00	0.00	0.00	
	6,900.00	6.95	138.40	6,865.70	-427.63	379.72	-430.87	0.00	0.00	0.00	
	7,000.00	6.95	138.40	6,964.97	-436.68	387.75	-439.98	0.00	0.00	0.00	
	7,051.41	6.95	138.40	7,016.00	-441.33	391.88	-444.67	0.00	0.00	0.00	
	7,100.00	6.95	138.40	7,064.23	-445.73	395.78	-449.10	0.00	0.00	0.00	
	7,200.00	6.95	138.40	7,163.50	-454.78	403.82	-458.21	0.00	0.00	0.00	
	7,300.00	6.95	138.40	7,262.76	-463.83	411.85	-467.33	0.00	0.00	0.00	
	7,400.00	6.95	138.40	7,362.03	-472.87	419.89	-476.45	0.00	0.00	0.00	
	7,500.00	6.95	138.40	7,461.29	-481.92	427.92	-485.56	0.00	0.00	0.00	
	7,600.00	6.95	138.40	7,560.56	-490.97	435.95	-494.68	0.00	0.00	0.00	
	7,700.00	6.95	138.40	7,659.82	-500.02	443.99	-503.79	0.00	0.00	0.00	
	7,800.00	6.95	138.40	7,759.09	-509.06	452.02	-512.91	0.00	0.00	0.00	
	7,900.00	6.95	138.40	7,858.35	-518.11	460.06	-522.03	0.00	0.00	0.00	
	8,000.00 8,100.00 8,155.52 BONE SPF	6.95 6.95 6.95 RING	138.40 138.40 138.40	7,957.62 8,056.88 8,112.00	-527.16 -536.21 -541.23	468.09 476.12 480.58	-531.14 -540.26 -545.32	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
	8,200.00	6.95	138.40	8,156.15	-545.25	484.16	-549.38	0.00	0.00	0.00	
	8,300.00	6.95	138.40	8,255.41	-554.30	492.19	-558.49	0.00	0.00	0.00	



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Lea County, NM (NAD-27)
Site: DAVY JONES STATE

Well: #3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD)

GL @ 3703.00usft (TBD)

Grid

J									
lanned 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)
8,400.00 8,500.00 8,600.00 8,700.00	6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40	8,354.68 8,453.95 8,553.21 8,652.48	-563.35 -572.40 -581.45 -590.49	500.22 508.26 516.29 524.33	-567.61 -576.72 -585.84 -594.96	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
8,800.00	6.95	138.40	8,751.74	-599.54	532.36	-604.07	0.00	0.00	0.00
8,900.00 9,000.00 9,100.00 9,200.00 9,283.81	6.95 6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40 138.40	8,851.01 8,950.27 9,049.54 9,148.80 9,232.00	-608.59 -617.64 -626.68 -635.73 -643.31	540.39 548.43 556.46 564.50 571.23	-613.19 -622.30 -631.42 -640.54 -648.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	VALON SHALE								
9,300.00 9,400.00 9,500.00 9,600.00 9,611.22	6.95 6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40 138.40	9,248.07 9,347.33 9,446.60 9,545.86 9,557.00	-644.78 -653.83 -662.87 -671.92 -672.94	572.53 580.56 588.60 596.63 597.53	-649.65 -658.77 -667.88 -677.00 -678.02	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1ST BON	E SPRING SAN		·						
9,700.00 9,800.00 9,900.00 9,915.45	6.95 6.95 6.95 6.95	138.40 138.40 138.40 138.40	9,645.13 9,744.39 9,843.66 9,859.00	-680.97 -690.02 -699.06 -700.46	604.66 612.70 620.73 621.97	-686.12 -695.23 -704.35 -705.76	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
*	E SPRING CAR								
9,979.74	6.95	138.40	9,922.81	-706.28	627.14	-711.62	0.00	0.00	0.00
10,000.00 10,050.00 10,100.00 10,150.00 10,200.00	5.59 4.92 8.19 12.64 17.39	124.53 68.08 33.35 20.44 14.33	9,942.95 9,992.77 10,042.46 10,091.63 10,139.91	-707.76 -708.33 -704.56 -696.45 -684.07	628.77 632.76 636.71 640.59 644.35	-713.11 -713.72 -709.98 -701.90 -689.56	10.00 10.00 10.00 10.00 10.00	-6.71 -1.34 6.54 8.90 9.50	-68.44 -112.89 -69.47 -25.81 -12.22
10,229.68	20.27	12.05	10,168.00	-674.75	646.52	-680.25	10.00	9.69	-7.71
,	E SPRING SAN		10,100.00	014.70	040.02	000.20	10.00	0.00	7.71
10,250.00 10,300.00 10,350.00 10,400.00	22.25 27.16 32.09 37.04	10.81 8.50 6.85 5.61	10,186.94 10,232.35 10,275.80 10,316.96	-667.52 -646.93 -622.44 -594.25	647.98 651.44 654.71 657.77	-673.04 -652.48 -628.02 -599.85	10.00 10.00 10.00 10.00	9.75 9.81 9.87 9.90	-6.09 -4.62 -3.29 -2.49
10,450.00 10,500.00 10,550.00 10,600.00 10,650.00	42.00 46.97 51.94 56.92 61.89	4.62 3.80 3.11 2.50 1.96	10,355.52 10,391.18 10,423.67 10,452.75 10,478.19	-562.57 -527.64 -489.72 -449.12 -406.12	660.59 663.15 665.43 667.41 669.08	-568.20 -533.29 -495.40 -454.81 -411.83	10.00 10.00 10.00 10.00 10.00	9.92 9.93 9.94 9.95 9.96	-1.98 -1.63 -1.39 -1.21 -1.08
10,700.00 10,750.00 10,800.00 10,850.00 10,900.00	66.87 71.86 76.84 81.82 86.81	1.47 1.01 0.58 0.17 359.77	10,499.80 10,517.42 10,530.90 10,540.16 10,545.11	-361.07 -314.31 -266.18 -217.06 -167.32	670.43 671.44 672.11 672.43 672.40	-366.79 -320.04 -271.92 -222.80 -173.07	10.00 10.00 10.00 10.00 10.00	9.96 9.96 9.97 9.97 9.97	-0.98 -0.91 -0.86 -0.83 -0.81
10,932.04	90.00	359.51	10,546.00	-135.30	672.20	-141.04	10.00	9.97	-0.80
11,000.00	POINT - 3H FT 90.00	P 359.51	10,546.00	-67.34	671.62	-73.08	0.00	0.00	0.00
11,100.00 11,100.00 11,200.00 11,300.00	90.00 90.00 90.00 90.00	359.51 359.51 359.51	10,546.00 10,546.00 10,546.00 10,546.00	32.65 132.65 232.65	670.76 669.91 669.05	26.92 126.92 226.92	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,400.00 11,500.00 11,600.00 11,700.00	90.00 90.00 90.00 90.00	359.51 359.51 359.51 359.51	10,546.00 10,546.00 10,546.00 10,546.00	332.64 432.64 532.64 632.63	668.19 667.34 666.48 665.63	326.92 426.92 526.92 626.92	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Lea County, NM (NAD-27)
Site: DAVY JONES STATE

Well: #3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD) GL @ 3703.00usft (TBD)

Grid

lanned 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)
11,800.00	90.00	359.51	10,546.00	732.63	664.77	726.92	0.00	0.00	0.00
11,900.00	90.00	359.51	10,546.00	832.62	663.91	826.92	0.00	0.00	0.00
12,000.00	90.00	359.51	10,546.00	932.62	663.06	926.92	0.00	0.00	0.00
12,100.00	90.00	359.51	10,546.00	1,032.62	662.20	1,026.92	0.00	0.00	0.00
12,200.00	90.00	359.51	10,546.00	1,132.61	661.34	1,126.92	0.00	0.00	0.00
12,300.00	90.00	359.51	10,546.00	1,232.61	660.49	1,226.92	0.00	0.00	0.00
12,400.00	90.00	359.51	10,546.00	1,332.61	659.63	1,326.92	0.00	0.00	0.00
12,500.00	90.00	359.51	10,546.00	1,432.60	658.78	1,426.92	0.00	0.00	0.00
12,600.00	90.00	359.51	10,546.00	1,532.60	657.92	1,526.92	0.00	0.00	0.00
12,700.00	90.00	359.51	10,546.00	1,632.60	657.06	1,626.92	0.00	0.00	0.00
12,800.00	90.00	359.51	10,546.00	1,732.59	656.21	1,726.92	0.00	0.00	0.00
12,900.00	90.00	359.51	10,546.00	1,832.59	655.35	1,826.92	0.00	0.00	0.00
13,000.00	90.00	359.51	10,546.00	1,932.58	654.50	1,926.92	0.00	0.00	0.00
13,100.00	90.00	359.51	10,546.00	2,032.58	653.64	2,026.92	0.00	0.00	0.00
13,200.00	90.00	359.51	10,546.00	2,132.58	652.78	2,126.92	0.00	0.00	0.00
13,300.00	90.00	359.51	10,546.00	2,232.57	651.93	2,226.92	0.00	0.00	0.00
13,400.00	90.00	359.51	10,546.00	2,332.57	651.07	2,326.92	0.00	0.00	0.00
13,500.00	90.00	359.51	10,546.00	2,432.57	650.22	2,426.92	0.00	0.00	0.00
13,600.00	90.00	359.51	10,546.00	2,532.56	649.36	2,526.92	0.00	0.00	0.00
13,700.00	90.00	359.51	10,546.00	2,632.56	648.50	2,626.92	0.00	0.00	0.00
13,800.00	90.00	359.51	10,546.00	2,732.56	647.65	2,726.92	0.00	0.00	0.00
13,900.00	90.00	359.51	10,546.00	2,832.55	646.79	2,826.92	0.00	0.00	0.00
14,000.00	90.00	359.51	10,546.00	2,932.55	645.93	2,926.92	0.00	0.00	0.00
14,100.00	90.00	359.51	10,546.00	3,032.54	645.08	3,026.92	0.00	0.00	0.00
14,200.00	90.00	359.51	10,546.00	3,132.54	644.22	3,126.92	0.00	0.00	0.00
14,300.00	90.00	359.51	10,546.00	3,232.54	643.37	3,226.92	0.00	0.00	0.00
14,400.00	90.00	359.51	10,546.00	3,332.53	642.51	3,326.92	0.00	0.00	0.00
14,500.00	90.00	359.51	10,546.00	3,432.53	641.65	3,426.92	0.00	0.00	0.00
14,600.00	90.00	359.51	10,546.00	3,532.53	640.80	3,526.92	0.00	0.00	0.00
14,700.00	90.00	359.51	10,546.00	3,632.52	639.94	3,626.92	0.00	0.00	0.00
14,800.00	90.00	359.51	10,546.00	3,732.52	639.09	3,726.92	0.00	0.00	0.00
14,900.00	90.00	359.51	10,546.00	3,832.51	638.23	3,826.92	0.00	0.00	0.00
15,000.00	90.00	359.51	10,546.00	3,932.51	637.37	3,926.92	0.00	0.00	0.00
15,100.00	90.00	359.51	10,546.00	4,032.51	636.52	4,026.92	0.00	0.00	0.00
15,200.00	90.00	359.51	10,546.00	4,132.50	635.66	4,126.92	0.00	0.00	0.00
15,300.00	90.00	359.51	10,546.00	4,232.50	634.81	4,226.92	0.00	0.00	0.00
15,400.00	90.00	359.51	10,546.00	4,332.50	633.95	4,326.92	0.00	0.00	0.00
15,500.00	90.00	359.51	10,546.00	4,432.49	633.09	4,426.92	0.00	0.00	0.00
15,600.00	90.00	359.51	10,546.00	4,532.49	632.24	4,526.92	0.00	0.00	0.00
15,700.00	90.00	359.51	10,546.00	4,632.49	631.38	4,626.92	0.00	0.00	0.00
15,800.00	90.00	359.51	10,546.00	4,732.48	630.52	4,726.92	0.00	0.00	0.00
15,900.00	90.00	359.51	10,546.00	4,832.48	629.67	4,826.92	0.00	0.00	0.00
16,000.00	90.00	359.51	10,546.00	4,932.47	628.81	4,926.92	0.00	0.00	0.00
16,044.93	90.00	359.51	10,546.00	4,977.40	628.43	4,971.84	0.00	0.00	0.00
3H LTP 16,094.93 3H BHL	90.00	359.51	10,546.00	5,027.40	628.00	5,021.85	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Lea County, NM (NAD-27)
Site: DAVY JONES STATE

Well: #3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#3H

GL @ 3703.00usft (TBD) GL @ 3703.00usft (TBD)

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
3H SHL - plan hits target of Point	0.00 center	0.00	0.00	0.00	0.00	586,674.00	756,370.50	32.6101117	-103.5007699
3H FTP - plan hits target of Point	0.00 center	0.00	10,546.00	-135.30	672.20	586,538.70	757,042.70	32.6097253	-103.4985906
3H BHL - plan hits target of Point	0.00 center	0.00	10,546.00	5,027.40	628.00	591,701.40	756,998.50	32.6239161	-103.4986024
3H LTP - plan misses targ - Point	0.00 get center by		10,546.00 16044.93us	4,977.40 sft MD (1054	628.40 6.00 TVD, 49	591,651.40 977.40 N, 628.43	756,998.90 E)	32.6237787	-103.4986024

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,847.00	1,847.00	RUSTLER			
	2,139.05	2,139.00	SALADO			
	3,402.60	3,394.00	BASE SALT			
	3,636.32	3,626.00	YATES			
	3,913.36	3,901.00	SEVEN RIVERS			
	4,599.40	4,582.00	QUEEN			
	4,950.98	4,931.00	PENROSE Sandstone			
	5,806.26	5,780.00	DELAWARE			
	7,051.41	7,016.00	BRUSHY CANYON			
	8,155.52	8,112.00	BONE SPRING			
	9,283.81	9,232.00	LOWER AVALON SHALE			
	9,611.22	9,557.00	1ST BONE SPRING SAND			
	9,915.45	9,859.00	2ND BONE SPRING CARBONATE			
	10,229.68	10,168.00	2ND BONE SPRING SAND			
	10,932.04	10,546.00	LANDING POINT			

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

XTO Energy Inc.
Davy Jones State 3H
Projected TD: 16095' MD / 10546' TVD
SHL: 242' FSL & 1199' FWL , Section 31, T19S, R35E
BHL: 50' FNL & 1870' FWL , Section 31, T19S, R35E
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	1847'	Water
Top of Salt	2139'	Water
Base of Salt	3394'	Water
Delaware	5780'	Water
Brushy Canyon	7016'	Water/Oil/Gas
Bone Spring	8112'	Water
1st Bone Spring Ss	9557'	Water/Oil/Gas
Target/Land Curve	10546'	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 9.625 inch casing @ 1947' (192' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 4100' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16095 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 3800 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1947'	1946'	9.625	40	J-55	BTC	New	3.39	2.92	8.09
8.75	0' – 2000'	2000'	7.625	29.7	RY P-110	Flush Joint	New	3.40	5.30	4.58
8.75	2000' – 4100'	4100'	7.625	29.7	HC L-80	Flush Joint	New	2.47	4.88	6.51
6.75	0' – 4000'	4000'	5.5	20	RY P-110	Semi-Premium	New	1.05	5.74	2.52
6.75	4000' - 15600'	9670'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.18	2.52

- · Production casing meets the clearance requiremenets as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3 B.1
- · XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- \cdot XTO requests to not utilize centralizers in the curve and lateral
- · 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- \cdot 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- · Test on 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: 11" 10M top flange x 9-5/8" bottom

- B. Tubing Head: 11" 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 7-5/8" casing per BLM Onshore Order 2
 - \cdot Wellhead Manufacturer representative will not be present for BOP test plug installation

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

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1947'

Lead: 550 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 130 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 = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 4100'

<u>1st Stage</u>

Optional Lead: 380 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: -270 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 7016

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 790 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 to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (7016') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, 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 +/- 16095

Lead: -70 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 3800 feet
Tail: 1010 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 2000 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 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 9.625 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 2780 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 9.625, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 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	iviud Type	(ppg)	(sec/qt)	(cc)
0' - 1947'	12.25	FW/Native	8.7-9.2	35-40	NC
1947' - 4100'	8.75	FW / Cut Brine / Direct Emulsion / OBM	9.7-10.2	30-32	NC
4100' - 16095'	6.75	ОВМ	9.3-9.8	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 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut 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 9.625 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 170 to 190 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 5100 psi.

10. Anticipated Starting Date and Duration of Operations

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

nten	t X	As Dril	led										
API #	ŧ												
	erator Nai	me: IIAN OPI	ERATIN	G, LL	.C	Property Name: Davy Jones State							Well Number
(ick (Off Point	(KOP)											
UL M	Section 31	Township 19S	Range 35E	Lot 4	Feet 242		om N/:	S	Feet 1199	Fro We	m E/W	County	
Latit 32.	ude 610231	1	l		Longitu			ļ				NAD 83	
First	Take Poir	nt (FTP)			1							1	
UL N	Section 31	Township 19S	Feet 100		om N/S	S	Feet 1870	Fro We	m E/W	County Lea			
Latit 32.	ude 609844	1	35E	1		Longitude NAD -103.499081 83							
Last ⁻	Гake Poin	t (LTP)											
UL C	Section 31	Township 19S	Range 35E	Lot	Feet 100	From N	-	Feet 1870		From E/W Vest	Coun Lea	ty	
Latit 32.	ude 623897	7		I	Longitu	ude .4990	93		l		NAD 83		
s thi	s well the	e defining v	vell for th	ie Hori	zontal S _l	pacing U	Init?	_	I				
s thi:	s well an	infill well?		Υ									
	ll is yes p ng Unit.	lease prov	ide API if	availal	ole, Ope	rator Na	me aı	nd w	vell nur	mber for	Defini	ng well fo	r Horizontal
API #	ŧ												
-	erator Nai D Permi	_{me:} an Opera	ating LL	<u></u>		Proper Boots							Well Number
													KZ 06/29/201

T.

Operator:

XTO Energy Inc

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Date: 08 / 09 / 2022

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

OGRID:

05380

II. Type: □ Original	⊠ Amendme	ent due to □ 19.15	5.27.9.D(6)(a) NMAC	□ 19.15.27.9.D	(6)(b) NMAC □	Other.
If Other, please describe:						
III. Well(s): Provide the to be recompleted from a sin	-		h new or recompleted central delivery point.		ells proposed to	be drilled or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Perla Verde 31 State Com 201H		4-31-19S-35E	241'FSL & 1139'FWL	500	650	350
Perla Verde 31 State 202H		P-31-19S-35E	230'FSL & 1301'FEL	500	650	350
Perla Verde 31 State Com 203H		4-31-19S-35E	241'FSL & 1169'FWL	500	650	350
Perla Verde 31 State Com 204H		P-31-19S-35E	226'FSL & 258'FEL	500	650	350
Perla Verde 31 State Com 401H		4-31-19S-35E	241' FSL & 1109' FWL	500	650	350
Perla Verde 31 State 402H		P-31-19S-35E	230' FSL & 1301' FEL	500	650	350
Perla Verde 31 State Com 403H		4-31-19S-35E	242' FSL & 1199' FWL	500	650	350
Perla Verde 31 State 404H		P-31-19S-35E	230' FSL & 1211' FEL	500	650	350

IV. Central Delivery Point Name: Perla Verde CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion	Initial Flow	First Production
				Commencement	Back Date	Date
				Date		
Perla Verde 31 State Com 201H		4-31-19S-35E	241'FSL & 1139'FWL	500	650	350
Perla Verde 31 State 202H		P-31-19S-35E	230'FSL & 1301'FEL	500	650	350
Perla Verde 31 State Com 203H		4-31-19S-35E	241'FSL & 1169'FWL	500	650	350
Perla Verde 31 State Com 204H		P-31-19S-35E	226'FSL & 258'FEL	500	650	350
Perla Verde 31 State Com 401H		4-31-19S-35E	241' FSL & 1109' FWL	500	650	350

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	Perla Verde 31 State Com 403H	4-31-19S-35E	242' FSL & 1199' FWL	500	650	350
	Perla Verde 31 State 404H	P-31-19S-35E	230' FSL & 1211' FEL	500	650	350

- 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.

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. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.
- **XII.** Line Capacity. The natural gas gathering system \square will X 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 \square does X 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:

 \Box 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;
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
 - (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.

eived by OCD: 9/2/2022 10:22:22 AM Caso i Wave-	Page 34 o
Printed Name: Cassie Evans	
Title: Regulatory Analyst	
E-mail Address: cassie.evans@exxonmobil.com	
Date: 08/09/22	
Phone: 432.218.3671	
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.

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. O 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. O 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.
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- **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.