Received by OCD: 5/8/2022 10:56:29 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report? 09/08/2022
Well Name: OUTRIDER 28 FED	Well Location: T24S / R32E / SEC 28 / SESE /	County or Parish/State:
Well Number: 707H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM016353	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550255	Well Status: Approved Application for Permit to Drill	Operator: XTO ENERGY INCORPORATED

Notice of Intent

Sundry ID: 2689361

Type of Submission: Notice of Intent

Date Sundry Submitted: 08/26/2022

Date proposed operation will begin: 09/02/2022

Type of Action: APD Change Time Sundry Submitted: 11:49

Procedure Description: **Well name and number change, pool code and name change, surface hole location change, bottom hole location change, first and last take point changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: Change well name from Outrider 28 Federal 707H to Outrider 27 Federal 512H Change well number from 707H to 512H Change pool code from 97899 to 98248 Change pool name from Bone Spring to Wolfcamp Change SHL from 426'FSL & 1026'FEL to 456"FSL & 1029'FEL, Section 28-T24S-R32E for drilling efficiencies and operational safety. No Additional Surface Disturbance. Change BHL from 50'FNL & 990'FEL Section 21-T24S-R32E to 50"FNL & 2310'FWL Section 27-T24S-R32E Change FTP fr/50'FSL & 990'FEL to 100'FSL & 2310'FWL Change LTP fr/50'FNL & 990'FEL to 100'FNL & 2310'FWL Attachments: C102 Drilling Program Directional Plan

NOI Attachments

Procedure Description

Outrider_27_Fed_512H_Attachments_20220826114756.pdf

K	eceived by OCD: 9/8/2022 10:56:29 AM Well Name: OUTRIDER 28 FED	Well Location: T24S / R32E / SEC 28 / SESE /	County or Parish/State: Page 2 of 24
	Well Number: 707H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM016353	Unit or CA Name:	Unit or CA Number:
	US Well Number: 3002550255	Well Status: Approved Application for Permit to Drill	Operator: XTO ENERGY INCORPORATED

Conditions of Approval

Additional

Sec_28_24S_32E_NMP_2681481_Outrider_27_Federal_511H_Lea_NMNM016353_XTO_COAs_20220831104822.pdf

Sec_28_24S_32E_NMP_2681481_Outrider_27_Federal_511H_Lea_NMNM016353_XTO_13_22_44795_AM_2022083 1104822.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

Name: XTO ENERGY INCORPORATED

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:

Phone:

Email address:

State:

Zip:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 09/02/2022

Signed on: AUG 26, 2022 11:48 AM

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

Page 3 of 24

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	¹ API Number ² Pool Code 30-025-50255 98248 WC-025 G-08 S243217P;UPR WC							WOLFC	AMP	
⁴ Property (Code	⁵ Property Name ⁶ Well Number								Well Number
332873					OUTRIDER	27 FED				512H
⁷ OGRID	No.				⁸ Operator	Name				⁹ Elevation
005380)				XTO ENER	GY, INC.				3,527'
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County
Р	28	24 S	32 E		456	SOUTH	1,029	EAS	ST	LEA
			¹¹ Bo	ttom Hol	e Location I	f Different Fror	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County
C	27	24 S	32 E	2 E 50 NORTH 2,310 WEST I						LEA
¹² Dedicated Acres 160	¹³ Joint o	r Infill ¹⁴ (Consolidation	ntion Code ¹⁵ Order 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.

		_		¹⁷ OPERATOR C	
				I hereby certify that the information of	
				to the best of my knowledge and belie	
		SHL (NAD83 NME)	LTP (NAD83 NME)	owns a working interest or unleased	mineral interest in the land including
		Y = 430,758.3	Y = 435,510.9	the proposed bottom hole location or	has a right to drill this well at this
		X = 745,199.7	X = 748,506.5	location pursuant to a contract with a	an owner of such a mineral or working
		LAT. = 32.182516 °N	LAT. = 32.195523 °N	interest, or to a voluntary pooling ag.	reement or a compulsory pooling
		LONG. = 103.674386 °W	LONG. = 103.663602 °W	order heretofore entered by the divisi	on.
		FTP (NAD83 NME) Y = 430.432.9	BHL (NAD83 NME)		
SEC.	SEC.	Y = 430,432.9 X = 748,541.1	Y = 435,560.9 X = 748,506.1	Jessica Dooling	7/5/2022
21	B.H.L. 00 22	LAT. = 32.181564 °N	LAT. = 32.195661 °N	Signature	Date
	B VA	_ LONG. = 103.663592 °W	LONG. = 103.663602 °W	Jessica Dooling	
2,310' 2		CORNER COORDIN	ATES (NAD83 NME)	Jessica Dooling	
SEC. 28	L.T.P.	A-Y= 435,614.1 N ,	X = 748,839.1 E	Printed Name	
T24S R32E		B-Y= 435,601.4 N ,	X = 747,517.5 E	jessica.dooling@e	xxonmohil com
		C - Y = 432,975.0 N ,	X = 748,855.8 E		
GRID AZ.=359*36'33"		D - Y = 432,962.2 N , E - Y = 430,336.0 N ,	X = 747,534.9 E X = 748,872.5 E	E-mail Address	
HORIZ. DIST.=5,128.18	- SEC. 27	E - Y = 430,336.0 N , F - Y = 430,323.5 N ,	X = 748,872.5 E X = 747,552.2 E		
		SHL (NAD27 NME)	LTP (NAD27 NME)	¹⁸ SURVEYOR CE	PTIFICATION
		Y = 430,699.9	Y = 435,452.5		
	I → 330'	X = 704,015.1	X = 707,322.0	<i>I hereby certify that the well</i>	l location shown on this
GRID_A7.=95'33'47"		LAT. = 32.182392 °N	LAT. = 32.195400 °N	plat was plotted from field	notes of actual surveys
GRID AZ.=95°33'47" HORIZ. DIST.=3,357.21'		LONG. = 103.673907 °W	LONG. = 103.663123 °W		· · · · · · · · · · · · · · · · · · ·
L ; +	- :+	FTP (NAD27 NME)	BHL (NAD27 NME)	made by me or under my su	pervision, and indi ine
S.H.L.		Y = 430,374.5	Y = 435,502.5	same is true and correct to	the best of my belief.
		X = 707,356.4 LAT. = 32.181441 °N	X = 707,321.6 LAT. = 32.195537 °N		AL DILLON HIT D
1,029'		LONG. = 103.663114 °W	LONG. = 103.663123 °W	05-10-2022	DILLON
v - 2,310'-	F	-	ATES (NAD27 NME)	Date of Survey	RAN DILLOW HAND
SEC. 00 33 4	F.T.P. Q SEC.	A - Y = 435,555.7 N ,	X = 707,654.6 E	Signatue and Seal of	REAL W MEXICO PO
33 4	F.T.P. 6 34	B-Y= 435,543.0 N ,	X = 706,333.0 E	Professional Surveyor:	
		C-Y= 432,916.6 N ,	X = 707,671.2 E		(23786))
		— D-Y= 432,903.8 N ,	X = 706,350.3 E		
		E-Y= 430,277.6 N ,	X = 707,687.8 E		ر رو ای ا
		F-Y= 430,265.2 N ,	X = 706,367.5 E		
					FSC CIIR
┣╎───┤───┼───	-	-		MARK DILLON HARP 23786	AW 202204068
				Certificate Number	AW 202204068

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

XTO Energy Inc. Outrider 27 Federal 512H Projected TD: 17991' MD / 12300' TVD SHL: 457' FSL & 4251' FWL , Section 28, T24S, R32E BHL: 50' FNL & 2310' FWL , Section 27, T24S, R32E Lea County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	906'	Water
Top of Salt	1217'	Water
Base of Salt	4528'	Water
Delaware	4732'	Water
Brushy Canyon	7242'	Water/Oil/Gas
Bone Spring	8656'	Water
1st Bone Spring Ss	9670'	Water/Oil/Gas
2nd Bone Spring Ss	10356'	Water/Oil/Gas
3rd Bone Spring Ss	11656'	Water/Oil/Gas
Wolfcamp	12056'	Water/Oil/Gas
Wolfcamp X	12081'	Water/Oil/Gas
Wolfcamp Y	12144'	Water/Oil/Gas
Target/Land Curve	12300'	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 9.625 inch casing @ 1006' (211' 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 11700' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 17991 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 11400 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1006'	1006'	9.625	40	J-55	BTC	New	1.19	5.65	15.66
8.75	0' – 4000'	3802'	7.625	29.7	RY P-110	Flush Joint	New	2.56	2.65	1.61
8.75	4000' – 11700'	10880'	7.625	29.7	HC L-80	Flush Joint	New	1.86	1.71	1.78
6.75	0' – 11600'	10780'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.84	2.12
6.75	11600' - 17991'	12300'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.74	2.12

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

· XTO requests to not utilize centralizers in the curve and lateral

· 7.625 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 Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

 \cdot 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.
- \cdot Manufacturer will monitor welding process to ensure appropriate temperature of seal.

· Operator will test the 7-5/8" casing per BLM Onshore Order 2

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

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1006'

Lead: 230 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 +/- 11700' 1st Stage

Optional Lead: 390 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) TOC: Surface Tail: 410 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) TOC: Brushy Canyon @ 7242 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: 820 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 (7242') 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 +/- 17991'

Lead: 40 sxs NeoCen	n (mixed at 11.5 ppg	, 2.69 ft3/sx, 15.00 g	gal/sx water) Top of Cement:	11400 feet
Tail: 400 sxs VersaCe	em (mixed at 13.2 pp	og, 1.51 ft3/sx, 8.38	gal/sx water) Top of Cement:	12403 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 ser 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 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3690 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, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M 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	TIDIE SIZE	Muu Type	(ppg)	(sec/qt)	(cc)
0' - 1006'	12.25	FW/Native	8.7-9.2	35-40	NC
1006' - 11700'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
11700' - 17991'	6.75	OBM	10-10.5	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 185 to 205 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 6396 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.



XTO Energy

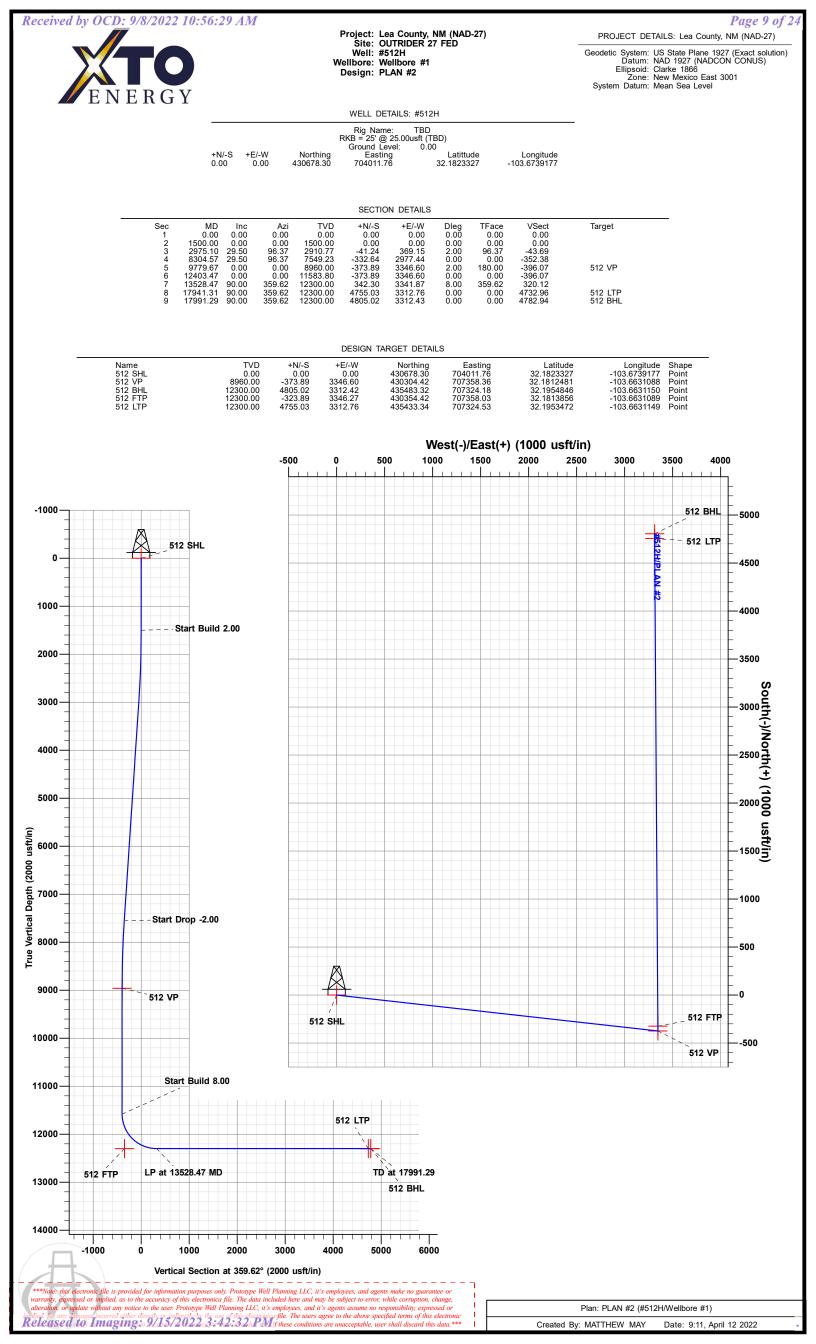
Lea County, NM (NAD-27) OUTRIDER 27 FED #512H

Wellbore #1

Plan: PLAN #2

Standard Planning Report

12 April, 2022





ENERGY										
Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Lea County, NM (NAD-27) OUTRIDER 27 FED #512H Wellbore #1 PLAN #2				TVD Ref MD Refe North R	Local Co-ordinate Reference:Well #512HTVD Reference:RKB = 25' @ 25.00usft (TBD)MD Reference:RKB = 25' @ 25.00usft (TBD)North Reference:GridSurvey Calculation Method:Minimum Curvature				
Project	Lea Co	ounty, NM (N	AD-27)							
Map System: Geo Datum:	US Stat NAD 193		(Exact soluti I CONUS)	on)	System D)atum:	Μ	ean Sea Level		
Site	OUTR	IDER 27 FED)							
Site Position: From: Position Uncertain	•	Northing: 430,668.00 usft Latitude: 32.1823094 Map Easting: 703,715.30 usft Longitude: -103.6748761								
Well	#512H									
Well Position	+N/-S +E/-W			orthing: Isting:		430,678.30 704,011.76		titude: ngitude:		32.1823328 -103.673917
Position Uncertain	ity	0.0	0 usft W	ellhead Ele	vation:	0.00	usft Gr	ound Level:		0.00 usf
Wellbore	Wellbo	ore #1								
Magnetics	Мос	del Name	Sampl	e Date	Declina (°)			Angle °)	Field Stre (nT)	-
		IGRF2020		04/10/22		6.50		59.82		47,398
Design	PLAN	#2								
Audit Notes: Version:			Phas	e:	PLAN	Tie	e On Depth:		0.00	
Vertical Section:		De	epth From (T (usft) 0.00	VD)	+N/-S (usft) 0.00	(u	/ -W sft) 00		ection (°) 19.62	
Plan Sections										
	nation °)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 1,500.00 2,975.10 8,304.57 9,779.67	0.00 0.00 29.50 29.50 0.00	0.00 0.01 96.37 96.37 0.00	0.00 1,500.00 2,910.77 7,549.23 8,960.00	0.00 0.00 -41.24 -332.64 -373.89	0.00 0.00 369.15 2,977.44 3,346.60	0.00 0.00 2.00 0.00 2.00	0.00 0.00 2.00 0.00 -2.00	0.00 0.00 0.00	0.00 0.01 96.37 0.00 180.00 51	2 VP
12,403.47 13,528.47 17,941.31 17,991.29	0.00 90.00 90.00 90.00	0.00 359.62 359.62 359.62	11,583.80 12,300.00 12,300.00 12,300.00	-373.89 342.30 4,755.04 4,805.02	3,346.60 3,341.87 3,312.76 3,312.43	0.00 8.00 0.00 0.00	0.00 8.00 0.00 0.00	0.00 0.00 0.00	0.00 359.62 0.00 51 0.00 51	2 LTP

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Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #512H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 25.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 25.00usft (TBD)
Site:	OUTRIDER 27 FED	North Reference:	Grid
Well:	#512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #2		

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)
0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00 400.00	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 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 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 0.00
1,500.00 1,600.00 1,700.00 1,800.00 1,900.00	0.00 2.00 4.00 6.00 8.00	0.01 96.37 96.37 96.37 96.37	1,500.00 1,599.98 1,699.84 1,799.45 1,898.70	0.00 -0.19 -0.77 -1.74 -3.10	0.00 1.73 6.94 15.60 27.71	0.00 -0.21 -0.82 -1.85 -3.28	0.00 2.00 2.00 2.00 2.00	0.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00 0.00
2,000.00 2,100.00 2,200.00 2,300.00 2,400.00	10.00 12.00 14.00 16.00 18.00	96.37 96.37 96.37 96.37 96.37	1,997.47 2,095.62 2,193.06 2,289.64 2,385.27	-4.83 -6.95 -9.45 -12.32 -15.57	43.25 62.22 84.57 110.29 139.35	-5.12 -7.36 -10.01 -13.05 -16.49	2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00 0.00
2,500.00 2,600.00 2,700.00 2,800.00 2,900.00	20.00 22.00 24.00 26.00 28.00	96.37 96.37 96.37 96.37 96.37	2,479.82 2,573.17 2,665.21 2,755.84 2,844.94	-19.18 -23.16 -27.50 -32.19 -37.23	171.70 207.31 246.14 288.14 333.26	-20.32 -24.54 -29.13 -34.10 -39.44	2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00 0.00
2,975.10 3,000.00 3,100.00 3,200.00 3,300.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	2,910.77 2,932.45 3,019.48 3,106.52 3,193.55	-41.24 -42.60 -48.07 -53.54 -59.01	369.15 381.34 430.28 479.22 528.16	-43.69 -45.13 -50.92 -56.72 -62.51	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
3,400.00 3,500.00 3,600.00 3,700.00 3,800.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	3,280.58 3,367.62 3,454.65 3,541.69 3,628.72	-64.48 -69.94 -75.41 -80.88 -86.35	577.11 626.05 674.99 723.93 772.87	-68.30 -74.09 -79.89 -85.68 -91.47	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
3,900.00 4,000.00 4,100.00 4,200.00 4,300.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	3,715.75 3,802.79 3,889.82 3,976.86 4,063.89	-91.81 -97.28 -102.75 -108.22 -113.68	821.81 870.75 919.69 968.63 1,017.57	-97.26 -103.05 -108.85 -114.64 -120.43	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
4,400.00 4,500.00 4,600.00 4,700.00 4,800.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	4,150.92 4,237.96 4,324.99 4,412.02 4,499.06	-119.15 -124.62 -130.09 -135.56 -141.02	1,066.51 1,115.45 1,164.40 1,213.34 1,262.28	-126.22 -132.02 -137.81 -143.60 -149.39	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
4,900.00 5,000.00 5,100.00 5,200.00	29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37	4,586.09 4,673.13 4,760.16 4,847.19	-146.49 -151.96 -157.43 -162.89	1,311.22 1,360.16 1,409.10 1,458.04	-155.18 -160.98 -166.77 -172.56	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

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Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #512H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 25.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 25.00usft (TBD)
Site:	OUTRIDER 27 FED	North Reference:	Grid
Well:	#512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #2		

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)
5,300.00	29.50	96.37	4,934.23	-168.36	1,506.98	-178.35	0.00	0.00	0.00
5,400.00	29.50	96.37	5,021.26	-173.83	1,555.92	-184.15	0.00	0.00	0.00
5,500.00	29.50	96.37	5,108.30	-179.30	1,604.86	-189.94	0.00	0.00	0.00
5,600.00	29.50	96.37	5,195.33	-184.77	1,653.80	-195.73	0.00	0.00	0.00
5,700.00	29.50	96.37	5,282.36	-190.23	1,702.74	-201.52	0.00	0.00	0.00
5,800.00	29.50 29.50	96.37 96.37	5,369.40 5,456.43	-195.70 -201.17	1,751.68 1,800.63	-207.31 -213.11	0.00 0.00	0.00	0.00 0.00
5,900.00	29.50	96.37	5,456.43	-201.17	1,800.63	-213.11	0.00	0.00	0.00
6,000.00	29.50	96.37	5,543.47	-206.64	1,849.57	-218.90	0.00	0.00	0.00
6,100.00	29.50	96.37	5,630.50	-212.10	1,898.51	-224.69	0.00	0.00	0.00
6,200.00	29.50	96.37	5,717.53	-217.57	1,947.45	-230.48	0.00	0.00	0.00
6,300.00	29.50	96.37	5,804.57	-223.04	1,996.39	-236.27	0.00	0.00	0.00
6,400.00 6,500.00 6,600.00 6,700.00 6,800.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	5,891.60 5,978.64 6,065.67 6,152.70 6,239.74	-228.51 -233.97 -239.44 -244.91 -250.38	2,045.33 2,094.27 2,143.21 2,192.15 2,241.09	-242.07 -247.86 -253.65 -259.44 -265.24	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
6,900.00 7,000.00 7,100.00 7,200.00 7,300.00	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	6,326.77 6,413.80 6,500.84 6,587.87 6,674.91	-255.85 -261.31 -266.78 -272.25 -277.72	2,290.03 2,338.97 2,387.92 2,436.86 2,485.80	-271.03 -276.82 -282.61 -288.40 -294.20	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
7,400.00	29.50	96.37	6,761.94	-283.18	2,534.74	-299.99	0.00	0.00	0.00
7,500.00	29.50	96.37	6,848.97	-288.65	2,583.68	-305.78	0.00	0.00	0.00
7,600.00	29.50	96.37	6,936.01	-294.12	2,632.62	-311.57	0.00	0.00	0.00
7,700.00	29.50	96.37	7,023.04	-299.59	2,681.56	-317.37	0.00	0.00	0.00
7,800.00	29.50	96.37	7,110.08	-305.06	2,730.50	-323.16	0.00	0.00	0.00
7,900.00 8,000.00 8,100.00 8,200.00 8,304.57	29.50 29.50 29.50 29.50 29.50 29.50	96.37 96.37 96.37 96.37 96.37	7,197.11 7,284.14 7,371.18 7,458.21 7,549.23	-310.52 -315.99 -321.46 -326.93 -332.64	2,779.44 2,828.38 2,877.32 2,926.26 2,977.44	-328.95 -334.74 -340.53 -346.33 -352.38	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
8,400.00	27.59	96.37	7,633.05	-337.71	3,022.76	-357.75	2.00	-2.00	0.00
8,500.00	25.59	96.37	7,722.46	-342.68	3,067.25	-363.01	2.00	-2.00	0.00
8,600.00	23.59	96.37	7,813.39	-347.30	3,108.61	-367.91	2.00	-2.00	0.00
8,700.00	21.59	96.37	7,905.71	-351.56	3,146.79	-372.43	2.00	-2.00	0.00
8,800.00	19.59	96.37	7,999.31	-355.47	3,181.74	-376.56	2.00	-2.00	0.00
8,900.00	17.59	96.37	8,094.09	-359.01	3,213.43	-380.31	2.00	-2.00	0.00
9,000.00	15.59	96.37	8,189.92	-362.18	3,241.81	-383.67	2.00	-2.00	0.00
9,100.00	13.59	96.37	8,286.69	-364.98	3,266.85	-386.63	2.00	-2.00	0.00
9,200.00	11.59	96.37	8,384.28	-367.40	3,288.51	-389.20	2.00	-2.00	0.00
9,300.00	9.59	96.37	8,482.57	-369.44	3,306.78	-391.36	2.00	-2.00	0.00
9,400.00	7.59	96.37	8,581.44	-371.10	3,321.63	-393.12	2.00	-2.00	0.00
9,500.00	5.59	96.37	8,680.77	-372.37	3,333.04	-394.47	2.00	-2.00	0.00
9,600.00	3.59	96.37	8,780.45	-373.26	3,341.00	-395.41	2.00	-2.00	0.00
9,700.00	1.59	96.37	8,880.34	-373.76	3,345.50	-395.94	2.00	-2.00	0.00
9,779.67	0.00	0.00	8,960.00	-373.89	3,346.60	-396.07	2.00	-2.00	0.00
9,800.00	0.00	0.00	8,980.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
9,900.00	0.00	0.00	9,080.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,000.00	0.00	0.00	9,180.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,100.00	0.00	0.00	9,280.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,200.00	0.00	0.00	9,380.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,300.00	0.00	0.00	9,480.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,400.00	0.00	0.00	9,580.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00
10,500.00	0.00	0.00	9,680.33	-373.89	3,346.60	-396.07	0.00	0.00	0.00

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COMPASS 5000.1 Build 74

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	ocal Co-ordinate Reference: /D Reference:	Well #512H RKB = 25' @ 25.00usft (TBD)
t: Lea County, NM (NAD-27) MD	D Reference:	RKB = 25' @ 25.00usft (TBD)
	orth Reference: urvey Calculation Method:	Grid Minimum Curvature
bre: Wellbore #1 1: PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.00 10,700.00	0.00 0.00	0.00	9,780.33 9,880.33	-373.89 -373.89	3,346.60 3,346.60	-396.07 -396.07	0.00 0.00	0.00 0.00	0.00 0.00
10,800.00 10,900.00 11,000.00 11,100.00 11,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,980.33 10,080.33 10,180.33 10,280.33 10,380.33	-373.89 -373.89 -373.89 -373.89 -373.89 -373.89	3,346.60 3,346.60 3,346.60 3,346.60 3,346.60	-396.07 -396.07 -396.07 -396.07 -396.07	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
11,300.00 11,400.00 11,500.00 11,600.00 11,700.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,480.33 10,580.33 10,680.33 10,780.33 10,880.33	-373.89 -373.89 -373.89 -373.89 -373.89 -373.89	3,346.60 3,346.60 3,346.60 3,346.60 3,346.60	-396.07 -396.07 -396.07 -396.07 -396.07	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
11,800.00 11,900.00 12,000.00 12,100.00 12,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,980.33 11,080.33 11,180.33 11,280.33 11,280.33	-373.89 -373.89 -373.89 -373.89 -373.89 -373.89	3,346.60 3,346.60 3,346.60 3,346.60 3,346.60	-396.07 -396.07 -396.07 -396.07 -396.07	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
12,300.00 12,403.47 12,450.00 12,500.00 12,550.00	0.00 0.00 3.72 7.72 11.72	0.00 0.00 359.62 359.62 359.62	11,480.33 11,583.80 11,630.30 11,680.04 11,729.31	-373.89 -373.89 -372.38 -367.39 -358.95	3,346.60 3,346.60 3,346.59 3,346.56 3,346.50	-396.07 -396.07 -394.56 -389.58 -381.14	0.00 0.00 8.00 8.00 8.00	0.00 0.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00 0.00
12,600.00 12,650.00 12,700.00 12,750.00 12,800.00	15.72 19.72 23.72 27.72 31.72	359.62 359.62 359.62 359.62 359.62 359.62	11,777.87 11,825.49 11,871.93 11,916.97 11,960.38	-347.09 -331.88 -313.37 -291.68 -266.89	3,346.42 3,346.32 3,346.20 3,346.06 3,345.89	-369.28 -354.06 -335.56 -313.86 -289.08	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00 0.00
12,850.00 12,900.00 12,950.00 13,000.00 13,050.00	35.72 39.72 43.72 47.72 51.72	359.62 359.62 359.62 359.62 359.62 359.62	12,001.96 12,041.50 12,078.81 12,113.71 12,146.03	-239.14 -208.56 -175.29 -139.50 -101.36	3,345.71 3,345.51 3,345.29 3,345.05 3,344.80	-261.33 -230.74 -197.47 -161.68 -123.54	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00 0.00
13,100.00 13,150.00 13,200.00 13,250.00 13,300.00	55.72 59.72 63.72 67.72 71.72	359.62 359.62 359.62 359.62 359.62 359.62	12,175.61 12,202.30 12,225.99 12,246.54 12,263.87	-61.06 -18.80 25.22 70.79 117.68	3,344.53 3,344.26 3,343.97 3,343.66 3,343.36	-83.24 -40.98 3.05 48.61 95.51	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00 0.00
13,350.00 13,400.00 13,450.00 13,500.00 13,528.47	75.72 79.72 83.72 87.72 90.00	359.62 359.62 359.62 359.62 359.62	12,277.88 12,288.51 12,295.71 12,299.43 12,300.00	165.67 214.51 263.98 313.83 342.30	3,343.04 3,342.72 3,342.39 3,342.06 3,341.87	143.49 192.34 241.81 291.66 320.12	8.00 8.00 8.00 8.00 8.00	8.00 8.00 8.00 8.00 8.00	0.00 0.00 0.00 0.00 0.00 0.00
13,600.00 13,700.00 13,800.00 13,900.00 14,000.00	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62	12,300.00 12,300.00 12,300.00 12,300.00 12,300.00	413.82 513.82 613.82 713.81 813.81	3,341.40 3,340.74 3,340.08 3,339.42 3,338.76	391.65 491.65 591.65 691.65 791.65	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
14,100.00 14,200.00 14,300.00 14,400.00 14,500.00	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62	12,300.00 12,300.00 12,300.00 12,300.00 12,300.00	913.81 1,013.81 1,113.80 1,213.80 1,313.80	3,338.10 3,337.44 3,336.78 3,336.12 3,335.46	891.65 991.65 1,091.65 1,191.65 1,291.65	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
14,600.00 14,700.00	90.00 90.00	359.62 359.62	12,300.00 12,300.00	1,413.80 1,513.80	3,334.80 3,334.14	1,391.65 1,491.65	0.00 0.00	0.00 0.00	0.00 0.00

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Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well #512H RKB = 25' @ 25.00usft (TBD)
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 25.00usft (TBD)
Site:	OUTRIDER 27 FED	North Reference:	Grid
Well:	#512H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.00	90.00	359.62	12,300.00	1,613.79	3,333.49	1,591.65	0.00	0.00	0.00
14,900.00	90.00	359.62	12,300.00	1,713.79	3,332.83	1,691.65	0.00	0.00	0.00
15,000.00	90.00	359.62	12,300.00	1,813.79	3,332.17	1,791.65	0.00	0.00	0.00
15,100.00	90.00	359.62	12,300.00	1,913.79	3,331.51	1,891.65	0.00	0.00	0.00
15,200.00	90.00	359.62	12,300.00	2,013.79	3,330.85	1,991.65	0.00	0.00	0.00
15,300.00	90.00	359.62	12,300.00	2,113.78	3,330.19	2,091.65	0.00	0.00	0.00
15,400.00	90.00	359.62	12,300.00	2,213.78	3,329.53	2,191.65	0.00	0.00	0.00
15,500.00	90.00	359.62	12,300.00	2,313.78	3,328.87	2,291.65	0.00	0.00	0.00
15,600.00	90.00	359.62	12,300.00	2,413.78	3,328.21	2,391.65	0.00	0.00	0.00
15,700.00	90.00	359.62	12,300.00	2,513.77	3,327.55	2,491.65	0.00	0.00	0.00
15,800.00	90.00	359.62	12,300.00	2,613.77	3,326.89	2,591.65	0.00	0.00	0.00
15,900.00	90.00	359.62	12,300.00	2,713.77	3,326.23	2,691.65	0.00	0.00	0.00
16,000.00	90.00	359.62	12,300.00	2,813.77	3,325.57	2,791.65	0.00	0.00	0.00
16,100.00	90.00	359.62	12,300.00	2,913.77	3,324.91	2,891.65	0.00	0.00	0.00
16,200.00	90.00	359.62	12,300.00	3,013.76	3,324.25	2,991.65	0.00	0.00	0.00
16,300.00	90.00	359.62	12,300.00	3,113.76	3,323.59	3,091.65	0.00	0.00	0.00
16,400.00	90.00	359.62	12,300.00	3,213.76	3,322.93	3,191.65	0.00	0.00	0.00
16,500.00	90.00	359.62	12,300.00	3,313.76	3,322.27	3,291.65	0.00	0.00	0.00
16,600.00	90.00	359.62	12,300.00	3,413.75	3,321.61	3,391.65	0.00	0.00	0.00
16,700.00	90.00	359.62	12,300.00	3,513.75	3,320.95	3,491.65	0.00	0.00	0.00
16,800.00	90.00	359.62	12,300.00	3,613.75	3,320.29	3,591.65	0.00	0.00	0.00
16,900.00	90.00	359.62	12,300.00	3,713.75	3,319.63	3,691.65	0.00	0.00	0.00
17,000.00	90.00	359.62	12,300.00	3,813.75	3,318.97	3,791.65	0.00	0.00	0.00
17,100.00	90.00	359.62	12,300.00	3,913.74	3,318.31	3,891.65	0.00	0.00	0.00
17,200.00	90.00	359.62	12,300.00	4,013.74	3,317.65	3,991.65	0.00	0.00	0.00
17,300.00	90.00	359.62	12,300.00	4,113.74	3,316.99	4,091.65	0.00	0.00	0.00
17,400.00	90.00	359.62	12,300.00	4,213.74	3,316.33	4,191.65	0.00	0.00	0.00
17,500.00	90.00	359.62	12,300.00	4,313.74	3,315.67	4,291.65	0.00	0.00	0.00
17,600.00	90.00	359.62	12,300.00	4,413.73	3,315.01	4,391.65	0.00	0.00	0.00
17,700.00	90.00	359.62	12,300.00	4,513.73	3,314.35	4,491.65	0.00	0.00	0.00
17,800.00	90.00	359.62	12,300.00	4,613.73	3,313.69	4,591.65	0.00	0.00	0.00
17,900.00	90.00	359.62	12,300.00	4,713.73	3,313.03	4,691.65	0.00	0.00	0.00
17,941.31	90.00	359.62	12,300.00	4,755.04	3,312.76	4,732.96	0.00	0.00	0.00
17,991.29	90.00	359.62	12,300.00	4,805.02	3,312.43	4,782.94	0.00	0.00	0.00

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Lea County, NM (NAD-27) OUTRIDER 27 FED #512H Wellbore #1 PLAN #2				TVD Reference: MD Reference: North Reference:			Well #512H RKB = 25' @ 25.00usft (TBD) RKB = 25' @ 25.00usft (TBD) Grid Minimum Curvature		
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	
512 SHL - plan hits target - Point	0.00 center	0.00	0.00	0.00	0.00	430,678.30	704,011.7	6 32.1823328	-103.6739177	
512 VP - plan hits target - Point	0.00 center	0.00	8,960.00	-373.89	3,346.60	430,304.42	707,358.3	6 32.1812481	-103.6631088	
512 FTP - plan misses tar - Point	0.00 get center by		12,300.00 at 12998.0	-323.89 4usft MD (12	3,346.27 112.39 TVD	430,354.42 , -140.95 N, 3345.0	707,358.0 06 E)	3 32.1813856	-103.6631089	
512 LTP - plan hits target - Point	0.00 center	0.01	12,300.00	4,755.04	3,312.76	435,433.34	707,324.5	2 32.1953472	-103.6631149	
512 BHL - plan misses tar - Point	0.00 get center by		12,300.00 17991.29u	4,805.02 sft MD (1230	3,312.42 0.00 TVD, 4	435,483.32 805.02 N, 3312.43	707,324.1 E)	8 32.1954846	-103.6631150	

Outrider 27 Federal 512H

	surface of	csg in a	17 1/2	inch hole.		<u>Design l</u>	Factors			Surfa	ce	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	68.00	HCL	80	BTC	22.75	6.05	2.49	1,006	11	4.26	11.22	68,408
"B"				BTC				0				0
w/8.4#/	/g mud, 30min Sf	c Csg Test psig:	1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,006				68,408
	f Proposed to			ent Volumes				,				,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
17 1/2	0.6946	820	1377	699	97	9.20	1178	2M				8.75
						a racks S or E)	ac par 0.0.1.					
					once plac (pip		as per 0.0.1.1		ouniu.			
95/8	casing ins	side the	13 3/8			Design I	Factors			Int	1	
Segment	#/ft	Grade	- / -	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	HCP	110	BTC	8.28	2.1	1.18	4,000	4	1.82	3.59	160,000
"B"	40.00	HCL		BTC	∞	2.10	0.86	7,700	3	1.32		308,000
	g mud, 30min Sf	-		2.0			Totals:	11,700	•		0.00	468,000
				achieve a top of	0	ft from su		1006				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
12 1/4	0.3132	2560	5188	3687	41	10.20	4348	5M				0.81
	lient(3) for Seg	ment(s): A, B	s, C, D = a, 1.51	1, c, d All >								
.70, Ок. Tail cmt				I, c, d All >		Design Fa	ctors			Prod	1	
. <mark>70, Ок.</mark> Tail cmt 5 1/2	casing ins #/ft		9 5/8	Coupling	Joint	<u>Design Fa</u> Collapse	ctors Burst	Length	B@s	Prod a-B	1 a-C	Weigh
. <mark>70, Ок.</mark> Tail cmt 5 1/2	casing ins	side the	9 5/8		Joint 2.97			Length 11.600	B@s 2			
70, ОК. Tail cmt 5 1/2 Segment	casing ins #/ft	side the Grade	9 5/8 110	Coupling		Collapse	Burst	11,600		a-B	a-C 2.55	232,00
.70, OK. Tail cmt 5 1/2 Segment "A" "B"	casing ins #/ft 20.00 20.00	side the Grade RY P RY P	9 5/8 110 110	Coupling Semi-Premiur	2.97	Collapse 1.65	Burst 1.88		2	a-B 2.91	a-C 2.55	232,00 127,82
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/	casing ins #/ft 20.00 20.00 /g mud, 30min Sfo	side the Grade RY P RY P c Csg Test psig:	9 5/8 110 110 2,372	Coupling Semi-Premiur Semi-Premiur	2.97	Collapse 1.65	Burst 1.88 1.88 Totals:	11,600 6,391	2	a-B 2.91	a-C 2.55 2.55	232,00 127,82 359,82
.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/	casing ins #/ft 20.00 20.00 /g mud, 30min Sfo	side the Grade RY P RY P c Csg Test psig: blume(s) are	9 5/8 110 110 2,372 intended to a	Coupling Semi-Premiur	2.97 ∞ 12000	Collapse 1.65 1.65 ft from su	Burst 1.88 1.88 Totals:	11,600 6,391 17,991 -300	2	a-B 2.91	a-C 2.55 2.55	232,00 127,82 359,82 overlap.
.70, ОК. Таіl ст 5 1/2 Segment "А" "В" w/8.4#/	casing ins #/ft 20.00 20.00 'g mud, 30min Sfo The cement vo	side the Grade RY P RY P c Csg Test psig:	9 5/8 110 110 2,372 intended to a 1 Stage	Coupling Semi-Premiur Semi-Premiur achieve a top of Min	2.97 ∞	Collapse 1.65 1.65	Burst 1.88 1.88 Totals: Inface or a	11,600 6,391 17,991 -300 Req'd	2	a-B 2.91	a-C 2.55 2.55	232,00 127,82 359,82 overlap. Min Dis
.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular	side the Grade RY P RY P c Csg Test psig: blume(s) are 1 Stage Cmt Sx	9 5/8 110 110 2,372 intended to a	Coupling Semi-Premiur Semi-Premiur achieve a top of	2.97 ∞ 12000 1 Stage	Collapse 1.65 1.65 ft from su Drilling	Burst 1.88 1.88 Totals: Inface or a Calc	11,600 6,391 17,991 -300	2	a-B 2.91	a-C 2.55 2.55	232,00 127,82 359,82 overlap. Min Dis
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291	side the Grade RY P RY P c Csg Test psig: olume(s) are 1 Stage	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft	2.97 ∞ 12000 1 Stage % Excess	Collapse 1.65 1.65 ft from su Drilling Mud Wt	Burst 1.88 1.88 Totals: Inface or a Calc	11,600 6,391 17,991 -300 Req'd	2	a-B 2.91	a-C 2.55 2.55	232,000 127,82 0 359,820 overlap. Min Dist Hole-Cpl
1.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291	side the Grade RY P RY P c Csg Test psig: blume(s) are 1 Stage Cmt Sx	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft	2.97 ∞ 12000 1 Stage % Excess	Collapse 1.65 1.65 ft from su Drilling Mud Wt	Burst 1.88 1.88 Totals: Inface or a Calc	11,600 6,391 17,991 -300 Req'd	2	a-B 2.91	a-C 2.55 2.55	127,820 359,820 overlap. Min Dist Hole-Cpl
.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291	side the Grade RY P RY P c Csg Test psig: blume(s) are 1 Stage Cmt Sx	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft	2.97 ∞ 12000 1 Stage % Excess	Collapse 1.65 1.65 ft from su Drilling Mud Wt	Burst 1.88 1.88 Totals: Inface or a Calc MASP	11,600 6,391 17,991 -300 Req'd	2 2	a-B 2.91	a-C 2.55 2.55	232,000 127,82 0 359,820 overlap. Min Dist Hole-Cpl
.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291	side the Grade RY P RY P c Csg Test psig: blume(s) are 1 Stage Cmt Sx	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft	2.97 ∞ 12000 1 Stage % Excess	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00	Burst 1.88 1.88 Totals: Inface or a Calc MASP	11,600 6,391 17,991 -300 Req'd	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55	232,000 127,82 359,820 overlap. Min Dis Hole-Cpl 1.10
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 ht yld > 1.35	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372	2.97 ∞ 12000 1 Stage % Excess 174	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00	Burst 1.88 1.88 Totals: Inface or a Calc MASP	11,600 6,391 17,991 -300 Req'd BOPE	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55	232,00 127,82 359,82 overlap. Min Diss Hole-Cpl 1.10
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 ht yld > 1.35	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling	2.97 ∞ 12000 1 Stage % Excess 174	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00	Burst 1.88 1.88 Totals: Inface or a Calc MASP	11,600 6,391 17,991 -300 Req'd BOPE	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55	232,00 127,82 359,82 overlap. Min Dis Hole-Cpl 1.10 Weigh
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment "A" "B"	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 ht yld > 1.35 #/ft	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450 Grade	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759 5 1/2	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling 0.00 0.00	2.97 ∞ 12000 1 Stage % Excess 174 #N/A	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00 <u>Design I</u> Collapse	Burst 1.88 1.88 Totals: Inface or a Calc MASP Factors Burst Totals:	11,600 6,391 17,991 -300 Req'd BOPE Length 0 0 0	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55 Casing> a-C	232,00 127,82 359,82 overlap. Min Dis Hole-Cp 1.10 Weigh 0 0 0
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment "A" "B" w/8.4#/	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 nt yld > 1.35 #/ft	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450 Grade	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759 5 1/2	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling 0.00 0.00 0.00	2.97 ∞ 12000 1 Stage % Excess 174	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00 Design I Collapse	Burst 1.88 1.88 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	11,600 6,391 17,991 -300 Req'd BOPE Length 0 0	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55 Casing> a-C	232,00 127,82 359,82 overlap. Min Dis Hole-Cp 1.10 Weigh 0 0 0 0 overlap.
.70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment "A" "B"	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 ht yld > 1.35 #/ft	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450 Grade	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759 5 1/2	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling 0.00 0.00	2.97 ∞ 12000 1 Stage % Excess 174 #N/A	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00 Design I Collapse ft from su Drilling	Burst 1.88 1.88 Totals: Inface or a Calc MASP Factors Burst Totals:	11,600 6,391 17,991 -300 Req'd BOPE Length 0 0 0	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55 Casing> a-C	232,00 127,82 359,82 overlap. Min Dis Hole-Cpi 1.10 Weigh 0 0 0 overlap.
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment "A" "B" w/8.4#/	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 nt yld > 1.35 #/ft	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450 Grade	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759 5 1/2 udes this csg	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling 0.00 0.00 0.00 0,00 0,00	2.97 ∞ 12000 1 Stage % Excess 174 #N/A #N/A 1 Stage % Excess	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00 Design I Collapse	Burst 1.88 1.88 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	11,600 6,391 17,991 -300 Req'd BOPE Length 0 0 0 #N/A	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55 Casing> a-C	232,00 127,82 359,82 overlap. Min Dis Hole-Cpl 1.10 Weigh 0 0 0 overlap. Min Dis
70, OK. Tail cmt 5 1/2 Segment "A" "B" w/8.4#/ Hole Size 8 1/2 lass 'C' tail cm #N/A 0 Segment "A" "B" w/8.4#/ Hole	casing ins #/ft 20.00 20.00 /g mud, 30min Sfr The cement vo Annular Volume 0.2291 nt yld > 1.35 #/ft /g mud, 30min Sfr Cmt vol cal Annular	side the Grade RY P C Csg Test psig: blume(s) are 1 Stage Cmt Sx 2450 Grade c Csg Test psig: c below incl 1 Stage	9 5/8 110 110 2,372 intended to a 1 Stage CuFt Cmt 3759 5 1/2 udes this csg 1 Stage	Coupling Semi-Premiur Semi-Premiur achieve a top of Min Cu Ft 1372 Coupling 0.00 0.00 0.00 0,00	2.97 ∞ 12000 1 Stage % Excess 174 #N/A #N/A	Collapse 1.65 1.65 ft from su Drilling Mud Wt 12.00 Design I Collapse ft from su Drilling	Burst 1.88 1.88 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	11,600 6,391 17,991 -300 Req'd BOPE Length 0 0 0 #N/A Req'd	2 2 2	a-B 2.91 2.91	a-C 2.55 2.55 Casing> a-C	232,00 127,82 359,82 overlap. Min Dis Hole-Cpl 1.10 Weigh 0 0 0 0

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Outrider 27 Federal 512H
LOCATION:	Sec 28-24S-32E-NMP
COUNTY:	Lea County, New Mexico

Updated COAs for Outrider 27 Federal 512H (Previously 112H) per Sundry 2689361 approved through engineering on 08/31/2022.

H2S	• Yes	C No	
Potash	None	C Secretary	© R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	COM	🗖 Unit

COA

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware Mountain Group** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately 1005 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

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

Eddy County

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

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

B. PRESSURE CONTROL

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

done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	141628
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	9/15/2022

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Action 141628