Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

https://www.emnrd.nm.gov/ocd/contact-us

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 398679

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

Operator Name and Address 3R Operating, LLC		2. OGRID Number 331569			
20405 State Highway 249 Houston, TX 77070	20405 State Highway 249				
4. Property Code 337811	5. Property Name FOREHAND RANCH 22 27 STATE COM	6. Well No. 502H			

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	22	23S	27E	K	2319	S	1772	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	27	23S	27E	N	100	S	1980	W	Eddy

9. Pool Information

FOREHAND RANCH;BONE SPRING	24660

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3155
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	14947	2nd Bone Spring Sand		1/26/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

${\ensuremath{\overline{\boxtimes}}}$ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			21111000000 0001115	g and comont i rogiam		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	450	422	0
Int1	12.25	9.625	40	2000	610	0
Prod	8.75	5.5	23	14947	2176	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	Atlas
Double Ram	10000	5000	Atlas

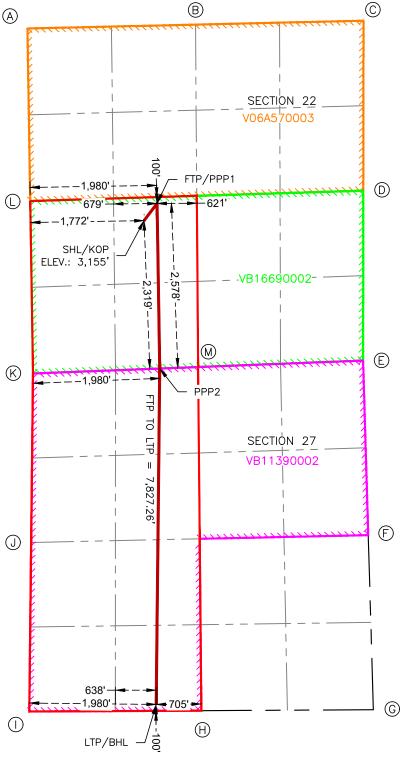
23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable. Signature:				OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Austin Tran	nell	Approved By:	Jeffrey Harrison	
Title:	Title: Director of environmental and regulatory		Title:	Petroleum Specialist III	
Email Address: atramell@3roperating.com			Approved Date:	11/7/2025	Expiration Date: 11/7/2027
Date:	11/6/2025	Phone: 832-810-1037	Conditions of Appr	oval Attached	

<u>C-10</u>	<u>)2</u>		En			ıral Resources Dep	artment		F	Revised July 9, 2024
	Electronically Permitting	/		OIL (CONSERVA	TION DIVISION			☑ Initial Su	ıbmittal
	J							Submittal Type:	☐ Amende	d Report
								, , , , , , , , , , , , , , , , , , ,	☐ As Drille	d
					WELL LOCAT	ION INFORMATION				
API Nu	ımber 15-5745	58	Pool Code	24660		Pool Name FOREHAND F	RANCH: BO	ONE SPR	ING	
Proper	ty Code 87811)	Property N	ame		NCH 22 27 STATE C	<u> </u>	JIL OI K	Well Numb	er 502H
OGRIE	No.		Operator N				<u> </u>		Ground Lev	vel Elevation
	331569	ner: State	 □ Foo □ T	ribal 🗆 Ec		ERATING, LLC	ner: VState		_ <u> </u> □ Tribal □ Fe	3,155'
<u> </u>	Surface Owi	ici. 🗹 State		IIDAI 🗆 FE		Willierar Ow	TICI. Ly State		TIIDAI L. FE	
1			-		-	ce Location	-			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County
K	22	23S	27E		2,319' FSL	1,772' FWL	32.2894	·24° -1	04.180576°	EDDY
·	1	1	-	1	1	Hole Location	T	· · ·		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County
N	27	23S	27E		100' FSL	1,980' FWL	32.2686	45° -1	04.179999°	EDDY
Dedica	ted Acres	Infill or Defin	ing Well	Defining	Well API	Overlapping Spacing	g Unit (Y/N)	Consolida	tion Code	
4	180	infill		30-0	15-57730		· · ·			
Order I	Numbers.	pending				Well setbacks are u	ınder Comm	on Ownersl	hip: ☑Yes □I	No
		pending			141.1	** ** ** ** ** ** ** ** ** ** ** ** **				
UL	Section	Township	Range	Lot	Ft. from N/S	ff Point (KOP) Ft. from E/W	Latitude	1.	ongitude	County
оL К	22	23S	27E	LOI	2,319' FSL	·	32.2894		04.180576°	EDDY
		230	272		·	ake Point (FTP)	02.200		04.100070	2551
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	T L	ongitude	County
K	22	238	27E		2,578' FSL	1,980' FWL	32.2901	60° -1	04.179917°	EDDY
					·	 ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
N	27	23S	27E		100' FSL	1,980' FWL	32.2686	45° -1	04.179999°	EDDY
				1						
Unitize	d Area or A	rea of Uniform	Interest	Spacing	Unit Type	orizontal 🏻 Vertical	Grou	nd Floor Ele	evation:	
C	omm									
OPER/	ATOR CER	TIFICATIONS				SURVEYOR CERTIFI	ICATIONS			
best of r that this in the la well at t unlease	my knowledge organization and including this location p d mineral int	e and belief, and either owns a w the proposed boursuant to a cor	I, if the well is vorking interes ttom hole loca tract with an cluntary pooling	a vertical or t or unlease tion or has a wner of a w	I complete to the directional well, d mineral interest a right to drill this orking interest or or a compulsory	I hereby certify that the w actual surveys made by i correct to the best of my	me or under m belief.	MEXICO	a, and that the s	from field notes of ame is true and
the cons mineral the well order fro	sent of at leas interest in ea 's completed om the divisio	st one lessee or ch tract (in the ta interval will be lo	owner of a wo arget pool or fo ocated or obta	rking interest ormation) in ned a comp	which any part of oulsory pooling		R. Company		Date: 9/24/2025	
Signatu Δ uct	_{re} in Tramo	ااد	D	ate		Signature and Seal of Pro	ofessional Sur	veyor		
		O11				Cortificate Number	Date of Sur	/AV	- -	Number
Printed		wo no c 1!				Certificate Number		-	Kevision	Number
atra Email A		roperating	J.com			12177	9/2	4/2025		2
		will he assign	ed to this cor	nnletion III	ntil all interests h	ave been consolidated o	or a non-stan	dard unit h	as heen annro	wed by the division

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



CORNER COORDINATES NEW MEXICO EAST - NAD 83							
POINT	NORTHING/EASTING						
Α	N:472,059.75' E:586,719.92'						
В	N:472,120.67' E:589,344.46'						
С	N:472,181.60' E:591,969.00'						
D	N:469,527.00' E:591,965.50'						
Е	N:466,872.40' E:591,962.00'						
F	N:464,145.20' E:592,042.51'						
G	N:461,417.99' E:592,123.02'						
Н	N:461,403.78' E:589,435.92'						
_	N:461,389.58' E:586,748.83'						
J	N:464,029.99' E:586,778.02'						
К	N:466,670.40' E:586,807.20'						
L	N:469,365.07' E:586,763.56'						
М	N:466,771.40' E:589,384.60'						

SURFACE HOLE LOCATION & KICK-OFF POINT 2,319' FSL & 1,772' FWL ELEV: 3.155'

NAD 83 X = 588,540.99' NAD 83 Y = 469,058.66' NAD 83 LAT = 32.289424° NAD 83 LONG = -104.180576° NAD 27 X = 547,358.65' NAD 27 Y = 468,999.90' NAD 27 LAT = 32.289304° NAD 27 LONG = -104.180078°

FIRST TAKE POINT & PENETRATION POINT 1 2,578' FSL & 1,980 FWL

NAD 83 X = 588,744.43' NAD 83 Y = 469,326.69' NAD 83 LAT = 32.290160° NAD 83 LONG = -104.179917° NAD 27 X = 547,562.09' NAD 27 Y = 469,267.92' NAD 27 LAT = 32.290040° NAD 27 LONG = -104.179418°

PENETRATION POINT 2 0' FSL & 1,980' FWL

NAD 83 X = 588,785.68' NAD 83 Y = 466,747.93' NAD 83 LAT = 32.283071° NAD 83 LONG = -104.179795' NAD 27 X = 547,603.29' NAD 27 Y = 466,689.29' NAD 27 LAT = 32.282951° NAD 27 LONG = -104.179297'

LAST TAKE POINT &
BOTTOM HOLE LOCATION
100' FSL & 1,980' FWL

NAD 83 X = 588,730.17' NAD 83 Y = 461,500.05' NAD 83 LAT = 32.268645° NAD 83 LONG = -104.179999° NAD 27 X = 547,547.67' NAD 27 Y = 461,441.49' NAD 27 LAT = 32.268526° NAD 27 LONG = -104.179501°

FOREHAND RANCH 22 27 STATE COM 502H

Released to Imaging: 11/7/2025 2:41:43 PM

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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 398679

PERMIT COMMENTS

Operator Name and Address:	API Number:
3R Operating, LLC [331569]	30-015-57458
20405 State Highway 249	Well:
Houston, TX 77070	FOREHAND RANCH 22 27 STATE COM #502H

Created By	Comment	Comment Date
ieffrev.harrison	Please correct NGMP before resubmitting and correct form C-102 and dedicated acreage plat if necessary.	10/10/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

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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 398679

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
3R Operating, LLC [331569]	30-015-57458
20405 State Highway 249	Well:
Houston, TX 77070	FOREHAND RANCH 22 27 STATE COM #502H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
	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.
jeffrey.harrison	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.

3R Operating, LLC

Company: 3R Operating, LLC

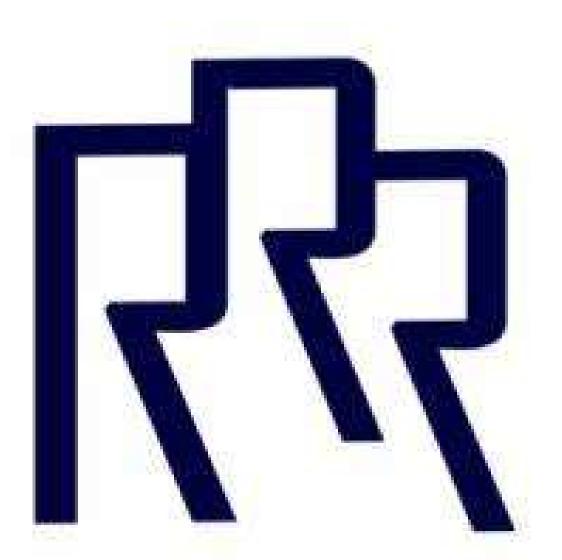
Field: Eddy County, NM (NAD83) Location: Forehand Ranch 22-27

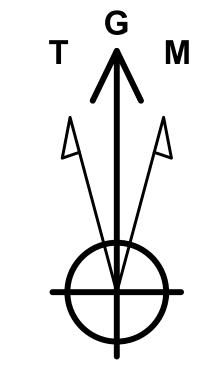
Well: Forehand Ranch 22-27 State Com 502H

OH

Plan: Plan 1

GL 3155 + 26.5' KB @ 3181.50usft





Azimuths to Grid North True North: -0.08° Magnetic North: 6.44°

> Magnetic Field Strength: 46974.2nT Dip Angle: 59.72° Date: 9/12/2025 Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 6.44°

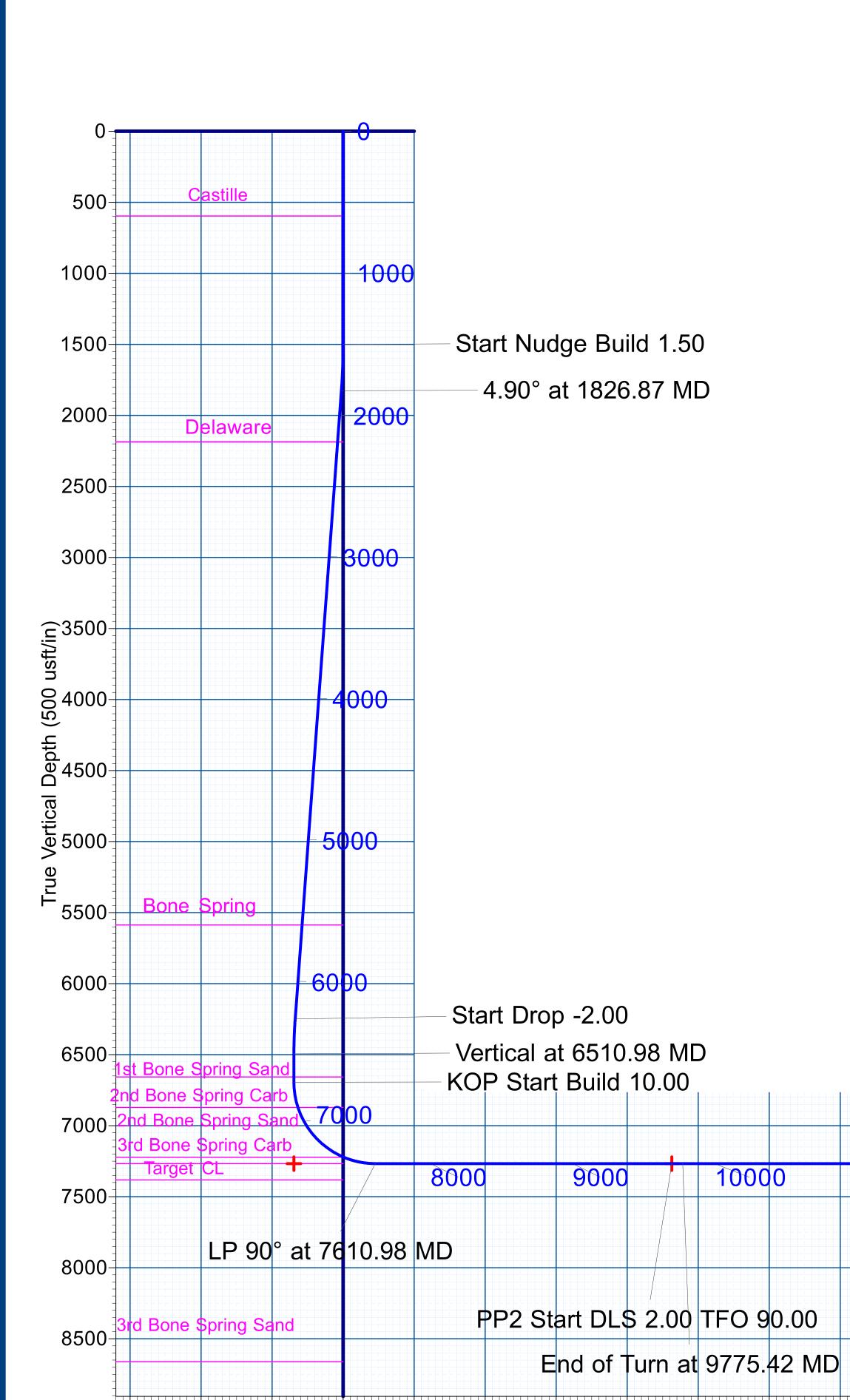
RIG: TBD

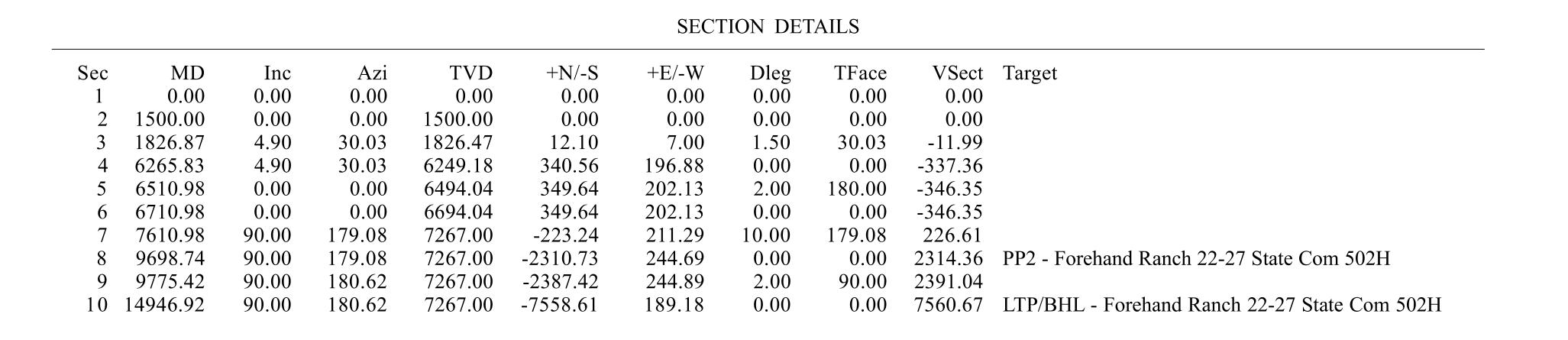
WELL DETAILS	S: Forehand Rai	nch 22-27 State (Com 502H	
GL 3155 + 2	26.5' KB @ 3181	1.50usft 315:	5.00	
Northing	Easting	Latittude	Longitude	Slot

32.289424 -104.180576

DESIGN TARGET DETAILS

lame	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
TP/PP1 - Forehand Ranch 22-27 State Com 502H	7267.00	349.64	202.13	469408.30	588743.12	32.290384	-104.179921
TP/BHL - Forehand Ranch 22-27 State Com 502H	7267.00	-7558.61	189.18	461500.05	588730.17	32.268645	-104.179999
PP2 - Forehand Ranch 22-27 State Com 502H	7267.00	-2310.73	244.69	466747.93	588785.68	32.283071	-104.179795





FORMATION TOP DETAILS

TVDPath 597.00 2187.00 2187.00 5587.00 6657.00 6872.00 7222.00 7267.00	MDPath 597.00 2188.72 2188.72 5601.21 6673.94 6891.93 7382.39 7610.98	Formation Castille Delaware Lamar Bone Spring 1st Bone Spring Sand 2nd Bone Spring Carb 2nd Bone Spring Sand Target CL

LTP/BHL at 14946.92

Vertical Section at 179.08° (500 usft/in)

LTP/BHL - Forehand Ranch 22-27 State Com 502H

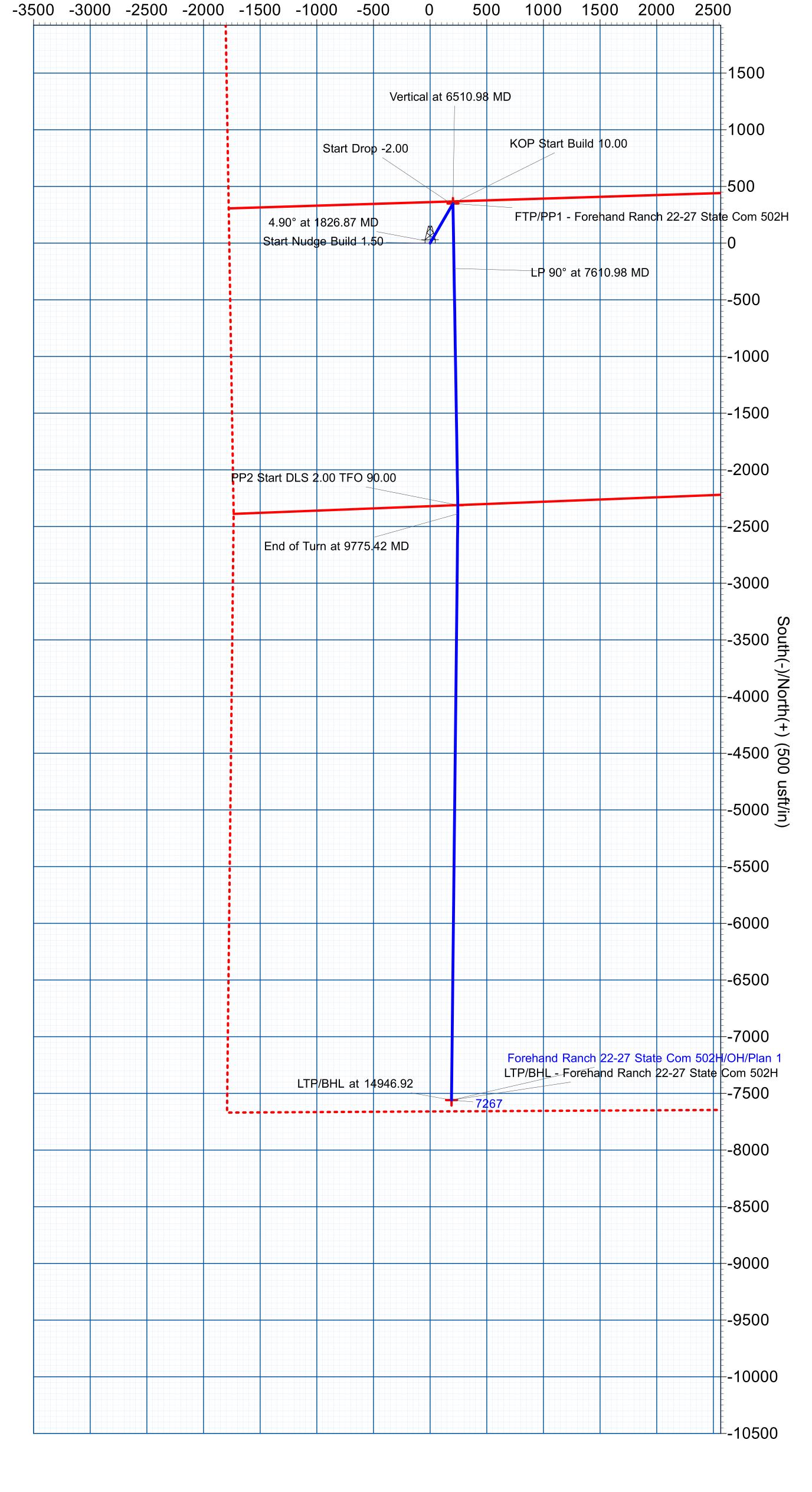
1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000 10500 11000 11500 12000 12500 13000 13500



PROJECT DETAILS: Eddy County, NM (NAD83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

West(-)/East(+) (500 usft/in)



Plan: Plan 1 (Forehand Ranch 22-27 State Com 502H/OH)

Created By: Jenise Kirkpatrick Date: 14:59, September 12 2025



3R Operating, LLC

Eddy County, NM (NAD83)
Forehand Ranch 22-27
Forehand Ranch 22-27 State Com 502H

OH

Plan: Plan 1

Standard Planning Report

12 September, 2025

Planning Report

EDM_WA Database:

Company: 3R Operating, LLC Project: Eddy County, NM (NAD83) Site: Forehand Ranch 22-27

Well: Forehand Ranch 22-27 State Com 502H

Wellbore: OH Plan 1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

179.08

Minimum Curvature

Project Eddy County, NM (NAD83)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

Forehand Ranch 22-27 Site

Northing: 469,059.33 usft Site Position: Latitude: 32.289425 From: Мар Easting: 588,591.01 usft Longitude: -104.180415

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

0.00

Well Forehand Ranch 22-27 State Com 502H

Well Position +N/-S 0.00 usft Northing: 469,058.66 usft Latitude: 32.289424 +E/-W 0.00 usft Easting: 588,540.99 usft Longitude: -104.180577

Position Uncertainty 0.00 usft Wellhead Elevation: usft **Ground Level:** 3,155.00 usft

0.08 **Grid Convergence:**

ОН Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 46,974.18141102 IGRF2025 9/12/2025 6.52 59.72

Design Plan 1 Audit Notes: PLAN Tie On Depth: 0.00 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00

0.00

Plan Survey Tool Program Date 9/12/2025 **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.00 14,948.95 Plan 1 (OH) MWD

OWSG MWD - Standard

枌

Planning Report

Database: EDM_WA

Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)
Site: Forehand Ranch 22-27

Well: Forehand Ranch 22-27 State Com 502H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,826.87	4.90	30.03	1,826.47	12.10	7.00	1.50	1.50	0.00	30.03	
6,265.83	4.90	30.03	6,249.18	340.56	196.88	0.00	0.00	0.00	0.00	
6,510.98	0.00	0.00	6,494.04	349.64	202.13	2.00	-2.00	0.00	180.00	
6,710.98	0.00	0.00	6,694.04	349.64	202.13	0.00	0.00	0.00	0.00	
7,610.98	90.00	179.08	7,267.00	-223.24	211.29	10.00	10.00	0.00	179.08	
9,698.74	90.00	179.08	7,267.00	-2,310.73	244.69	0.00	0.00	0.00	0.00	PP2 - Forehand Ranc
9,775.42	90.00	180.62	7,267.00	-2,387.42	244.89	2.00	0.00	2.00	90.00	
14,946.92	90.00	180.62	7,267.00	-7,558.61	189.18	0.00	0.00	0.00	0.00	LTP/BHL - Forehand I



EDM_WA Database: Company: 3R Operating, LLC Eddy County, NM (NAD83) Project: Forehand Ranch 22-27 Site:

Well: Forehand Ranch 22-27 State Com 502H

Wellbore: ОН Design: Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Grid **Survey Calculation Method:**

Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Design:		Plan 1								
lannor	d Survey									
iailile	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00 597.00	0.00 0.00	0.00 0.00	500.00 597.00	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	397.00	0.00	0.00	0.00	0.00	0.00	0.00
	Castille	0.00	0.00	000.00	0.00	0.00	0.00	0.00	0.00	0.00
	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	Start Nudge		0.00	.,555.55	0.00	0.00	0.00	0.00	0.00	0.00
	1,600.00	1.50	30.03	1,599.99	1.13	0.66	-1.12	1.50	1.50	0.00
	1,700.00	3.00	30.03	1,699.91	4.53	2.62	-1.12 -4.49	1.50	1.50	0.00
	1,800.00	4.50	30.03	1,799.69	10.19	5.89	-10.10	1.50	1.50	0.00
	1,826.87	4.90	30.03	1,826.47	12.10	7.00	-11.99	1.50	1.50	0.00
	4.90° at 1826	.87 MD								
	1,900.00	4.90	30.03	1,899.33	17.51	10.12	-17.35	0.00	0.00	0.00
	2,000.00	4.90	30.03	1,998.97	24.91	14.40	-24.68	0.00	0.00	0.00
	2,100.00	4.90	30.03	2,098.60	32.31	18.68	-32.01	0.00	0.00	0.00
	2,188.72	4.90	30.03	2,187.00	38.88	22.47	-38.51	0.00	0.00	0.00
	Lamar - Dela	ware								
	2,200.00	4.90	30.03	2,198.24	39.71	22.96	-39.34	0.00	0.00	0.00
	2,300.00	4.90	30.03	2,297.87	47.11	27.23	-46.67	0.00	0.00	0.00
	2,400.00	4.90	30.03	2,397.50	54.51	31.51	-54.00	0.00	0.00	0.00
	2,500.00	4.90	30.03	2,497.14	61.91	35.79	-61.33	0.00	0.00	0.00
	2,600.00	4.90	30.03	2,596.77	69.31	40.07	-68.66	0.00	0.00	0.00
	2,700.00	4.90	30.03	2,696.41	76.71	44.35	-75.99	0.00	0.00	0.00
	2,800.00	4.90	30.03	2,796.04	84.11	48.62	-83.32	0.00	0.00	0.00
	2,900.00 3,000.00	4.90 4.90	30.03 30.03	2,895.67 2,995.31	91.51 98.91	52.90 57.18	-90.65 -97.98	0.00 0.00	0.00 0.00	0.00 0.00
							105.01			
	3,100.00	4.90	30.03	3,094.94	106.31	61.46	-105.31	0.00	0.00	0.00
	3,200.00	4.90	30.03	3,194.58	113.71	65.73	-112.64	0.00	0.00	0.00
	3,300.00	4.90	30.03	3,294.21	121.11	70.01	-119.97	0.00	0.00	0.00
	3,400.00	4.90	30.03	3,393.84	128.51	74.29	-127.30	0.00	0.00	0.00
	3,500.00	4.90	30.03	3,493.48	135.91	78.57	-134.63	0.00	0.00	0.00
	3,600.00	4.90	30.03	3,593.11	143.30	82.85	-141.96	0.00	0.00	0.00
	3,700.00	4.90	30.03	3,692.75	150.70	87.12	-149.29	0.00	0.00	0.00
	3,800.00	4.90	30.03	3,792.38	158.10	91.40	-156.62	0.00	0.00	0.00
	3,900.00	4.90	30.03	3,892.02	165.50	95.68	-163.95	0.00	0.00	0.00
	4,000.00	4.90	30.03	3,991.65	172.90	99.96	-171.28	0.00	0.00	0.00
	4,100.00	4.90	30.03	4,091.28	180.30	104.23	-178.61	0.00	0.00	0.00
	4,200.00	4.90	30.03	4,190.92	187.70	108.51	-185.94	0.00	0.00	0.00
	4,300.00	4.90	30.03	4,290.55	195.10	112.79	-193.27	0.00	0.00	0.00
	4,400.00	4.90	30.03	4,390.19	202.50	117.07 121.35	-200.60	0.00	0.00	0.00
	4,500.00	4.90	30.03	4,489.82	209.90	121.35	-207.93	0.00	0.00	0.00
	4,600.00	4.90	30.03	4,589.45	217.30	125.62	-215.26	0.00	0.00	0.00





Database: EDM_WA Company: 3R Operating, LLC

Project: Eddy County, NM (NAD83)
Site: Forehand Ranch 22-27

Well: Forehand Ranch 22-27 State Com 502H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Grid

Design:		Plan 1								
Planne	d 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)
	4,700.00 4,800.00 4,900.00 5,000.00 5,100.00	4.90 4.90 4.90 4.90 4.90	30.03 30.03 30.03 30.03 30.03	4,689.09 4,788.72 4,888.36 4,987.99 5,087.62	224.70 232.10 239.50 246.90 254.30	129.90 134.18 138.46 142.73 147.01	-222.59 -229.92 -237.25 -244.57 -251.90	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
	5,200.00 5,300.00 5,400.00 5,500.00 5,600.00	4.90 4.90 4.90 4.90 4.90	30.03 30.03 30.03 30.03 30.03	5,187.26 5,286.89 5,386.53 5,486.16 5,585.79	261.70 269.10 276.50 283.90 291.30	151.29 155.57 159.85 164.12 168.40	-259.23 -266.56 -273.89 -281.22 -288.55	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
	5,601.21	4.90	30.03	5,587.00	291.39	168.45	-288.64	0.00	0.00	0.00
	Bone Spring 5,700.00 5,800.00 5,900.00 6,000.00	4.90 4.90 4.90 4.90	30.03 30.03 30.03 30.03	5,685.43 5,785.06 5,884.70 5,984.33	298.70 306.10 313.49 320.89	172.68 176.96 181.23 185.51	-295.88 -303.21 -310.54 -317.87	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	6,100.00 6,200.00 6,265.83 Start Drop -2	4.90 4.90 4.90	30.03 30.03 30.03	6,083.96 6,183.60 6,249.18	328.29 335.69 340.56	189.79 194.07 196.88	-325.20 -332.53 -337.36	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	6,300.00 6,400.00 6,500.00	4.22 2.22 0.22	30.03 30.03 30.03	6,283.25 6,383.09 6,483.06	342.92 347.78 349.62	198.24 201.05 202.12	-339.69 -344.51 -346.33	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
	6,510.98 Vertical at 65	0.00 10.98 MD	0.00	6,494.04	349.64	202.13	-346.35	2.00	-2.00	0.00
	6,600.00 6,673.94	0.00 0.00	0.00 0.00	6,583.06 6,657.00	349.64 349.64	202.13 202.13	-346.35 -346.35	0.00 0.00	0.00 0.00	0.00 0.00
	1st Bone Spr 6,700.00	0.00	0.00	6,683.06	349.64	202.13	-346.35	0.00	0.00	0.00
	6,710.98	0.00	0.00	6,694.04	349.64	202.13	-346.35	0.00	0.00	0.00
	6,750.00 6,800.00 6,850.00 6,891.93	3.90 8.90 13.90 18.10	179.08 179.08 179.08 179.08	6,733.03 6,782.70 6,831.70 6,872.00	348.31 342.74 332.86 321.31	202.15 202.24 202.40 202.58	-345.02 -339.45 -329.57 -318.01	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
	2nd Bone Sp	ring Carb								
	6,900.00 6,950.00 7,000.00 7,050.00 7,100.00	18.90 23.90 28.90 33.90 38.90	179.08 179.08 179.08 179.08 179.08	6,879.65 6,926.19 6,970.96 7,013.62 7,053.85	318.75 300.51 278.29 252.25 222.59	202.62 202.92 203.27 203.69 204.16	-315.45 -297.21 -274.99 -248.94 -219.28	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
	7,150.00 7,200.00 7,250.00 7,300.00 7,350.00	43.90 48.90 53.90 58.90 63.90	179.08 179.08 179.08 179.08 179.08	7,091.34 7,125.81 7,157.00 7,184.66 7,208.58	189.54 153.34 114.28 72.66 28.78	204.69 205.27 205.90 206.56 207.26	-186.23 -150.03 -110.96 -69.33 -25.44	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
	7,382.39	67.14	179.08	7,222.00	-0.69	207.73	4.03	10.00	10.00	0.00
	2nd Bone Sp 7,400.00 7,450.00	68.90 73.90	179.08 179.08	7,228.59 7,244.53	-17.02 -64.39	208.00 208.75	20.36 67.73	10.00 10.00	10.00 10.00	0.00 0.00
	7,500.00 7,550.00	78.90 83.90	179.08 179.08	7,256.28 7,263.76	-112.97 -162.38	209.53 210.32	116.32 165.74	10.00 10.00	10.00 10.00	0.00 0.00
	7,600.00	88.90	179.08	7,266.89	-212.26	211.12	215.63	10.00	10.00	0.00





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Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Grid

gn:	Plar	1 1								
ned Survey										
Measurd Depth (usft)	Incli	nation (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,610	0.98	90.00	179.08	7,267.00	-223.24	211.29	226.61	10.00	10.00	0.00
	at 7610.98 I			,						
7,700		90.00	179.08	7,267.00	-312.25	212.72	315.62	0.00	0.00	0.00
7,800		90.00	179.08	7,267.00	-412.24	214.32	415.62	0.00	0.00	0.00
7,900		90.00	179.08	7,267.00	-512.22	215.92	515.62	0.00	0.00	0.00
8,000		90.00	179.08	7,267.00	-612.21	217.52	615.62	0.00	0.00	0.00
8,100		90.00	179.08	7,267.00	-712.20	219.12	715.62	0.00	0.00	0.00
8,200		90.00	179.08	7,267.00	-812.19	220.72	815.62	0.00	0.00	0.00
8,300		90.00	179.08	7,267.00	-912.17	222.32	915.62	0.00	0.00	0.00
8,400	0.00	90.00	179.08	7,267.00	-1,012.16	223.92	1,015.62	0.00	0.00	0.00
8,500		90.00	179.08	7,267.00	-1,112.15	225.52	1,115.62	0.00	0.00	0.00
8,600		90.00	179.08	7,267.00	-1,212.13	227.11	1,215.62	0.00	0.00	0.00
8,700		90.00	179.08	7,267.00	-1,312.12	228.71	1,315.62	0.00	0.00	0.00
8,800		90.00	179.08	7,267.00	-1,412.11	230.31	1,415.62	0.00	0.00	0.00
8,900	0.00	90.00	179.08	7,267.00	-1,512.10	231.91	1,515.62	0.00	0.00	0.00
9,000	0.00	90.00	179.08	7,267.00	-1,612.08	233.51	1,615.62	0.00	0.00	0.00
9,100	0.00	90.00	179.08	7,267.00	-1,712.07	235.11	1,715.62	0.00	0.00	0.00
9,200	0.00	90.00	179.08	7,267.00	-1,812.06	236.71	1,815.62	0.00	0.00	0.00
9,300	0.00	90.00	179.08	7,267.00	-1,912.04	238.31	1,915.62	0.00	0.00	0.00
9,400	0.00	90.00	179.08	7,267.00	-2,012.03	239.91	2,015.62	0.00	0.00	0.00
9,500	0.00	90.00	179.08	7,267.00	-2,112.02	241.51	2,115.62	0.00	0.00	0.00
9,600		90.00	179.08	7,267.00	-2,212.01	243.11	2,215.62	0.00	0.00	0.00
9,698		90.00	179.08	7,267.00	-2,310.73	244.69	2,314.36	0.00	0.00	0.00
·	art DLS 2.00			,	_,		_,_,_,			
9,700		90.00	179.11	7,267.00	-2,311.99	244.71	2,315.62	2.00	0.00	2.00
9,775		90.00	180.62	7,267.00	-2,387.42	244.89	2,391.04	2.00	0.00	2.00
·	Turn at 977			,	,		,			
			100.00	7.007.00	0.444.00	044.00	0.445.04	0.00	0.00	0.00
9,800		90.00	180.62	7,267.00	-2,411.99	244.63	2,415.61	0.00	0.00	0.00
9,900		90.00	180.62	7,267.00	-2,511.98	243.55	2,515.57	0.00	0.00	0.00
10,000		90.00	180.62	7,267.00	-2,611.98	242.47	2,615.53	0.00	0.00	0.00
10,100 10,200		90.00 90.00	180.62 180.62	7,267.00 7,267.00	-2,711.97 -2,811.97	241.39 240.32	2,715.50 2,815.46	0.00 0.00	0.00 0.00	0.00 0.00
10,200	0.00	90.00	100.02	7,207.00	-2,011.91	240.32		0.00	0.00	0.00
10,300		90.00	180.62	7,267.00	-2,911.96	239.24	2,915.43	0.00	0.00	0.00
10,400		90.00	180.62	7,267.00	-3,011.95	238.16	3,015.39	0.00	0.00	0.00
10,500		90.00	180.62	7,267.00	-3,111.95	237.08	3,115.35	0.00	0.00	0.00
10,600		90.00	180.62	7,267.00	-3,211.94	236.01	3,215.32	0.00	0.00	0.00
10,700	0.00	90.00	180.62	7,267.00	-3,311.94	234.93	3,315.28	0.00	0.00	0.00
10,800	0.00	90.00	180.62	7,267.00	-3,411.93	233.85	3,415.25	0.00	0.00	0.00
10,900	0.00	90.00	180.62	7,267.00	-3,511.93	232.78	3,515.21	0.00	0.00	0.00
11,000	0.00	90.00	180.62	7,267.00	-3,611.92	231.70	3,615.17	0.00	0.00	0.00
11,100		90.00	180.62	7,267.00	-3,711.91	230.62	3,715.14	0.00	0.00	0.00
11,200	0.00	90.00	180.62	7,267.00	-3,811.91	229.54	3,815.10	0.00	0.00	0.00
11,300	0.00	90.00	180.62	7,267.00	-3,911.90	228.47	3,915.07	0.00	0.00	0.00
11,400		90.00	180.62	7,267.00	-4,011.90	227.39	4,015.03	0.00	0.00	0.00
11,500		90.00	180.62	7,267.00	-4,111.89	226.31	4,114.99	0.00	0.00	0.00
11,600		90.00	180.62	7,267.00	-4,211.89	225.23	4,214.96	0.00	0.00	0.00
11,700		90.00	180.62	7,267.00	-4,311.88	224.16	4,314.92	0.00	0.00	0.00
11,800		90.00	180.62	7,267.00	-4,411.87	223.08	4,414.89	0.00	0.00	0.00
11,800		90.00	180.62	7,267.00	-4,411.87 -4,511.87	223.08	4,414.89 4,514.85	0.00	0.00	0.00
12,000		90.00	180.62	7,267.00	-4,511.8 <i>1</i> -4,611.86	220.93	4,514.65 4,614.81	0.00	0.00	0.00
12,000		90.00	180.62	7,267.00	-4,011.86	219.85	4,014.01	0.00	0.00	0.00
12,100		90.00	180.62	7,267.00	-4,711.85 -4,811.85	219.65	4,714.76 4,814.74	0.00	0.00	0.00
•										
12,300	0.00	90.00	180.62	7,267.00	-4,911.84	217.69	4,914.71	0.00	0.00	0.00



Planning Report

Database: EDM_WA
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GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Grid

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)
12,400.00 12,500.00 12,600.00	90.00 90.00 90.00	180.62 180.62 180.62	7,267.00 7,267.00 7,267.00	-5,011.84 -5,111.83 -5,211.83	216.62 215.54 214.46	5,014.67 5,114.63 5,214.60	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
12,700.00	90.00	180.62	7,267.00	-5,311.82	213.39	5,314.56	0.00	0.00	0.00
12,800.00	90.00	180.62	7,267.00	-5,411.82	212.31	5,414.53	0.00	0.00	0.00
12,900.00	90.00	180.62	7,267.00	-5,511.81	211.23	5,514.49	0.00	0.00	0.00
13,000.00	90.00	180.62	7,267.00	-5,611.80	210.15	5,614.45	0.00	0.00	0.00
13,100.00	90.00	180.62	7,267.00	-5,711.80	209.08	5,714.42	0.00	0.00	0.00
13,200.00	90.00	180.62	7,267.00	-5,811.79	208.00	5,814.38	0.00	0.00	0.00
13,300.00	90.00	180.62	7,267.00	-5,911.79	206.92	5,914.35	0.00	0.00	0.00
13,400.00	90.00	180.62	7,267.00	-6,011.78	205.84	6,014.31	0.00	0.00	0.00
13,500.00	90.00	180.62	7,267.00	-6,111.78	204.77	6,114.28	0.00	0.00	0.00
13,600.00	90.00	180.62	7,267.00	-6,211.77	203.69	6,214.24	0.00	0.00	0.00
13,700.00	90.00	180.62	7,267.00	-6,311.76	202.61	6,314.20	0.00	0.00	0.00
13,800.00	90.00	180.62	7,267.00	-6,411.76	201.54	6,414.17	0.00	0.00	0.00
13,900.00	90.00	180.62	7,267.00	-6,511.75	200.46	6,514.13	0.00	0.00	0.00
14,000.00	90.00	180.62	7,267.00	-6,611.75	199.38	6,614.10	0.00	0.00	0.00
14,100.00	90.00	180.62	7,267.00	-6,711.74	198.30	6,714.06	0.00	0.00	0.00
14,200.00	90.00	180.62	7,267.00	-6,811.73	197.23	6,814.02	0.00	0.00	0.00
14,300.00	90.00	180.62	7,267.00	-6,911.73	196.15	6,913.99	0.00	0.00	0.00
14,400.00	90.00	180.62	7,267.00	-7,011.72	195.07	7,013.95	0.00	0.00	0.00
14,500.00	90.00	180.62	7,267.00	-7,111.72	193.99	7,113.92	0.00	0.00	0.00
14,600.00	90.00	180.62	7,267.00	-7,211.71	192.92	7,213.88	0.00	0.00	0.00
14,700.00	90.00	180.62	7,267.00	-7,311.71	191.84	7,313.84	0.00	0.00	0.00
14,800.00	90.00	180.62	7,267.00	-7,411.70	190.76	7,413.81	0.00	0.00	0.00
14,900.00	90.00	180.62	7,267.00	-7,511.69	189.69	7,513.77	0.00	0.00	0.00
14,946.92	90.00	180.62	7,267.00	-7,558.61	189.18	7,560.67	0.00	0.00	0.00

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
FTP/PP1 - Forehand Ra - plan misses target o - Point	0.00 center by 237	0.00 .43usft at 71	7,267.00 55.17usft MI	349.64 D (7095.06 TV	202.13 'D, 185.93 N, 2	469,408.30 204.75 E)	588,743.12	32.290384	-104.179921
LTP/BHL - Forehand Ra - plan hits target cent - Point	0.00 er	0.00	7,267.00	-7,558.61	189.18	461,500.05	588,730.17	32.268645	-104.179999
PP2 - Forehand Ranch 2 - plan hits target cent - Point	0.00 er	0.00	7,267.00	-2,310.73	244.69	466,747.93	588,785.68	32.283071	-104.179796



Planning Report

Database: EDM_WA
Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)
Site: Forehand Ranch 22-27

Well: Forehand Ranch 22-27 State Com 502H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Forehand Ranch 22-27 State Com 502H

GL 3155 + 26.5' KB @ 3181.50usft GL 3155 + 26.5' KB @ 3181.50usft

Jilu

rmations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	597.00	597.00	Castille				
	2,188.72	2,187.00	Lamar				
	2,188.72	2,187.00	Delaware				
	5,601.21	5,587.00	Bone Spring				
	6,673.94	6,657.00	1st Bone Spring Sand				
	6,891.93	6,872.00	2nd Bone Spring Carb				
	7,382.39	7,222.00	2nd Bone Spring Sand				
	7,610.98	7,267.00	Target CL				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	Start Nudge Build 1.50	
1,826.87	1,826.47	12.10	7.00	4.90° at 1826.87 MD	
6,265.83	6,249.18	340.56	196.88	Start Drop -2.00	
6,510.98	6,494.04	349.64	202.13	Vertical at 6510.98 MD	
6,710.98	6,694.04	349.64	202.13	KOP Start Build 10.00	
7,610.98	7,267.00	-223.24	211.29	LP 90° at 7610.98 MD	
9,698.74	7,267.00	-2,310.73	244.69	PP2 Start DLS 2.00 TFO 90.00	
9,775.42	7,267.00	-2,387.42	244.89	End of Turn at 9775.42 MD	
14,946.92	7,267.00	-7,558.61	189.18	LTP/BHL at 14946.92	

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description <u>Effective May 25, 2021</u>

Operator: 3R Operating LLC			OGRID: 331569			Date: 09 / 22 / 25		
☐ Amendmen	nt due to □ 19.15.2	27.9.D(6)(a) NM	IAC □ 19.15.27.9.	D(6)(b) NN	MAC □ Othe	er.		
				f wells prop	posed to be c	drilled or proposed		
API	ULSTR	Footages	Anticipated Oil BBL/D			Anticipated roduced Water BBL/D		
e: Provide the	following informat	ion for each new	v or recompleted wal delivery point. Completion	rell or set of	f wells propo	. , , ,		
ices: Attacle of 19.15.27.8 In the practices: The practices: □	n a complete descr NMAC. A Attach a complet	iption of the act	tions Operator will	l take to co	omply with the	ne requirements of		
	API API API Sint Name: For the ted from a single well part ted from a single well part ted from a single well part ted from a single well part ted from a single well pa	Amendment due to □ 19.15.2 The following information for each single well pad or connected to a single well pad or connected to a single well pad or connected to a single well pad or connected from a single well pad or connected to a single well pad or connected to a single well pad or connected to a single well pad or connected from a single well pa	API Spud Date TD Reached Date API Spud Date TD Reached Date	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9. The following information for each new or recompleted well or set of single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Sint Name: Forehand 22 27 Production Facility Per Provide the following information for each new or recompleted well from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Date Commencement Commencement Date TD Reached Completion Date Completion Commencement Date Completion Commencement Date TD Reached Completion Commencement Date Completion Commencement Date Completion Commencement Date Date Date Completion Commencement Date Date Date Date Date Date Date Dat	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ 19.15.27.0.D(6)(b) NMAC □ 19.15.27.D(6)(b) NMAC □ 19.15.27	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other defollowing information for each new or recompleted well or set of wells proposed to be a single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D Proposed for the proposed of the following information for each new or recompleted well or set of wells proposed from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Initial Flow Commencement Date Back Date API Spud Date TD Reached Completion Initial Flow Commencement Date Back Date Completion Initial Flow Commencement Date Back Date Completion Commencement Date Back Date API Attach a complete description of how Operator will size separation equipment to opposites: Attach a complete description of the actions Operator will take to comply with the figure of the proposition of the actions Operator will take to comply with the figure of the proposition of the actions Operator will take to comply with the figure of the proposition of Operator's best management practices to		

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	Available Maximum Daily Capacity
	-		Start Date	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 🗆 v	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

XIII. Line Pressure. Operator \square does \square 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 we	

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\Box	A 44 1 4	\sim 4	, 1 ,		1 4	•	4 41 '	sed line pressure
	A Hach I	Inergior	c nian to	manage i	araduction	in rechance	to the increa	cea line nrecciire

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.

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗹 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Austin Tramsll
Printed Name: Austin Tramell
Title: Director Environmental & Regulatory
E-mail Address: atramell@3roperating.com
Date: 09/22/2025
Phone: 832-810-1037
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing modeling software to ensure adequate capacity for anticipated production volumes and conditions. Production composition and the volumes will be utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high-volume case will be used to size equipment, piping and instrumentation.

Each well has a dedicated 3-phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline will be sized to allow peak volumes to flow with minimal pressure loss and deliver to the midstream gatherer at an acceptable pressure. Water will be conveyed directly to tankage. Oil from 3-phase separators will be conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to flare. Oil and water storage tanks vapor outlets utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the flare which is sized to accommodate peak expected production volume. Flash volumes are estimated using the high-volume case.

VII. Operational Practices

The operator will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting will only occur during maintenance activities or equipment failure. The operator may utilize the following from Section 3 for its operations to minimize flaring:

- A. The operator will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. The operator will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, compression will be added to deliver volumes that are produced. Well production may also be curtailed to manage the flow of gas and not overrun compression.
- B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards; however, if natural gas does not meet gathering pipeline quality specifications, the operator will flare the natural gas for up to 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. The operator will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
- D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be curtailed until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be measured using a total flow meter and reported appropriately.
- E. The operator will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(I) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. The operator will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. The operator will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-

pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. Best Management Practices

The operator utilizes automated engineering controls included in facility design to minimize venting and flaring. Additionally, operator's SOP support the minimization of flare and venting.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event. The facility design includes a closed vent vapor capture system to route flash from the heater treater and tanks to the flare. For maintenance activities, the operator will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting.