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 402634

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

			AI I LICA	HOIT OIL LIMIN	I O DIVILL, I	L-LIVILIA, DELI LI	N, I LOCDACI	, OI ( ADD A	ZONE	•		
	1. Operator Name	e and Address						2	. OGRID I	Number		
	3R O	perating, LLC							;	331569		
	2040	5 State Highway	249					3	. API Num	mber		
	Hous	ton, TX 77070							;	30-015-57480	ı	
	4. Property Code			5. Property Name				6	. Well No.			
337855				Orion 1 2 State Com					102H			
					7. S	urface Location						
	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/	/W Line	County	

8. Proposed Bottom Hole Location UL - Lot N/S Line E/W Line Section Range Lot Idn Feet From Township Feet From County 17S 28E 1980 1044 Lea

#### 9. Pool Information

EMPIRE; GLORIETA-YESO 96210

#### **Additional Well Information**

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3707	
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date	
N	10009	Glorieta		5/1/2026	
Depth to Ground water		Distance from nearest fresh water wel	I	Distance to nearest surface water	

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

#### 21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	350	366	0
Int1	12.25	9.625	40	3800	1169	0
Prod	8.75	5.5	23	10009	1575	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	

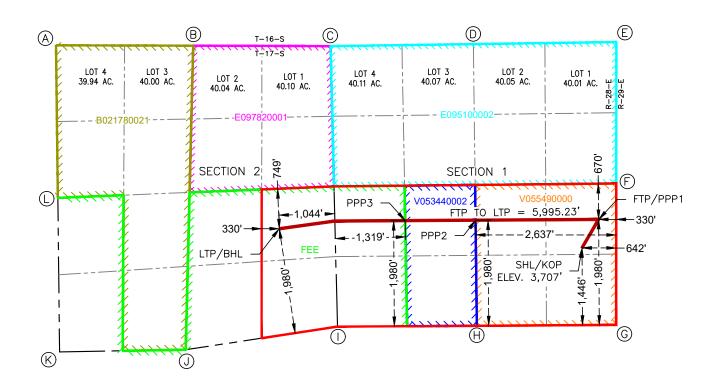
knowledge and b I hereby certify th or recompletion of	at no additives containing PFAS che of this well.	rrue and complete to the best of my micals will be added to the completion MAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATI	ON DIVISION	
Printed Name:	Electronically filed by Austin Tram	ell	Approved By:	Jeffrey Harrison		
Title:	Title: Director of environmental and regulatory			Petroleum Specialist III		
Email Address: atramell@3roperating.com			Approved Date:	11/14/2025	Expiration Date: 11/14/2027	
Date:	11/13/2025	Phone: 832-810-1037	Conditions of Appr	oval Attached		

C-102 Submit Electronically			Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION					Revised July 9, 20			
	D Permitting	1							√ Initial Su		
								Type:	□ Amende		
					\\/\[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TION INFORMATION			☐ As Drille	ed	
ADI Ni	ımher		Pool Code			TION INFORMATION  Pool Name					
30-015-57480 96210						Emp	ire; Glori	eta-Ye	SO		
3378			Property N		ORION	1 2 STATE COM			Well Numb	#102H	
OGRID	O No. <b>33156</b>	9	Operator I	Name	3R OP	ERATING, LLC			Ground Lev	vel Elevation 3,707'	
	Surface Owi	ner: 🗹 State	☐ Fee ☐ ☐	Γribal □ F			vner:   Stat	e 🗹 Fee	☐ Tribal ☐ Fe	ederal	
					Cum	ace Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
ı	1	17 S	28 E		1,446' FS	L 642' FEL	32.8617		104.123401°	EDDY	
				ı	Botto	I m Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
I	2	17 S	28 E		1,980' FS	L 1,044' FEL	32.8627	723° -	104.141873°	EDDY	
	•			_	•	•	•	1			
	ited Acres	Infill or Defin	ning Well	1	g Well API	Overlapping Spacin		Consolid	ation Code	С	
	400	infill		Orion 1	2 State Com 15	•	Well setbacks are under Common Ownersh				
Order I	Numbers.	pending				Well setbacks are	under Comm	on Owners	snip: MYes ⊔i	No .	
					Kick	Off Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
ı	1	17 S	28 E		1,446' FS	L 642' FEL	32.8617	700°  -	104.123401°	EDDY	
	+	r	1_	ì	+	Take Point (FTP)	-			-	
UL •	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
ı	1	17 S	28 E		1,980' FS		32.8631	-	104.122379°	EDDY	
Last Ta						Take Point (LTP)  Ft. from E/W  Latitude  Longitude  County					
111	Section	Townshin	Range	Lot			Latituda		l ongitude	(County	
UL I	Section 2	Township	1		Ft. from N/S 1.980' FS	1	Latitude <b>32.8627</b>		ŭ	,	
UL I	Section 2	Township 17 S	28 E		1,980' FS	1	32.8627		Longitude 104.141873°	EDDY	
<b>I</b> Unitize	2		28 E	Spacing	1,980' FS	1	32.8627		104.141873°	,	
CC	2 ed Area or A	17 S	28 E	Spacing	1,980' FS	L 1,044' FEL	<b>32.8627</b> Grou	723° -	104.141873°	,	
Unitize CO OPERA I hereby best of r that this in the la well at t unlease	ad Area or A DMM  ATOR CER  or certify that the certification of the ce	rea of Uniform  TIFICATIONS  ne information ce and belief, and either owns a with the proposed bursuant to a con	28 E  ontained here d, if the well is working interes ontract with an elluntary poolin	in is true and a vertical of st or unlease ation or has owner of a v	1,980' FS	Independent of the second of t	Ground Gr	nd Floor E	plat was plotted on, and that the s	EDDY	
Unitize CC OPERA I hereby best of r that this in the la well at t unlease pooling If this we the consmineral the well' order fro	ad Area or A DMM  ATOR CER  A certify that the my knowledges organization and including this location per definition of the certification of the certificati	rea of Uniform  TIFICATIONS  TIFICATIONS  The information of the end belief, and either owns a with the proposed boursuant to a column and the proposed by the	ontained hered, if the well is working interestatract with an iluntary poolin the division.	in is true and a vertical of storunleast ation or has sowner of a way agreementh of the storum of th	d complete to the r directional well, ed mineral interess a right to drill this working interest or t or a compulsory tition has received st or unleased which any part of pulsory pooling	Interest of the best of my	Ground Gr	nd Floor E	plat was plotted on, and that the s	FOR field notes of ame is true and	
Unitize CC OPERA I hereby best of r that this in the la well at t unlease pooling If this we the consmineral the well' order fro	ad Area or A  Comm  ATOR CER  Accertify that the my knowledge organization and including this location per definition order heretof ell is a horizon sent of at leas interest in earl's completed om the division of the divis	rea of Uniform  TIFICATIONS  TIFICATIONS  The information of the end belief, and either owns a with the proposed boursuant to a column and the proposed by the	ontained here d, if the well is working interest of the well is working interest of the well is working interest with an uluntary pool in the division.	in is true and a vertical of st or unleast ation or has sowner of a vig agreementh of the companization of the com	d complete to the r directional well, ed mineral interess a right to drill this working interest or t or a compulsory tition has received st or unleased which any part of pulsory pooling	Interest of the best of my	Ground Gr	own on this way sulve to is in the sulve to in the sulve to is in the	plat was plotted on, and that the s	FOR field notes of ame is true and	
Unitize CO OPERA I hereby best of r that this in the la well at t unlease pooling If this we the consmineral the well' order from the consmineral than the consmineral than the well' order from the consmineral than the well' order from the consmineral than the well' order from the consmineral than the constant that the cons	ad Area or A comm  ATOR CER  A certify that the my knowledge organization and including a this location per definition order heretof sent of at least interest in earl's completed on the division of the divi	rea of Uniform  TIFICATIONS  TIFICATIONS  The information of the end belief, and either owns a with the proposed boursuant to a column and the proposed boursuant to a column and the proposed boursuant to a column and the proposed by the p	ontained here d, if the well is working interest of the well is working interest of the well is working interest with an uluntary pool in the division.	in is true and a vertical of the vertical of vertical of the v	d complete to the r directional well, ed mineral interess a right to drill this working interest or t or a compulsory tition has received st or unleased which any part of pulsory pooling	Iorizontal  Vertical  SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my  Signature and Seal of P	Ground Gr	own on this way sulve to isk	plat was plotted on, and that the s	FDDY  from field notes of ame is true and	
Unitize CO OPERA I hereby best of r that this in the la well at t unlease pooling If this we the consimineral the well order from the well order f	ad Area or A comm  ATOR CER'  Area certify that the my knowledge organization and including this location proder heretof ell is a horizon sent of at leas interest in earl's completed om the division and the division of the	rea of Uniform  TIFICATIONS  TIFICATIONS  The information of the end belief, and either owns a with the proposed boursuant to a column and the proposed boursuant to a column and the proposed boursuant to a column and the proposed by the p	28 E  ontained here d, if the well is working interest to hole local intract with an iduntary poolin the division.  er certify that t owner of a we arget pool or f ocated or obta	in is true and a vertical of the vertical of vertical of the v	d complete to the r directional well, ed mineral interess a right to drill this working interest or t or a compulsory tition has received st or unleased which any part of pulsory pooling	Interest of the best of my	Ground Gr	own on this way sulve to isk	plat was plotted on, and that the s	FOR field notes of ame is true and	

#### 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.



#### ORION 1 2 STATE COM #102H

SURFACE HOLE LOCATION & KICK-OFF POINT 1,446' FSL & 642' FEL ELEV. = 3,707'

NAD 83 X = 605,798.11'
NAD 83 Y = 677,283.92'
NAD 83 LAT = 32.861700°
NAD 83 LONG = -104.123401°
NAD 27 X = 564,619.08'
NAD 27 Y = 677,220.51'
NAD 27 LAT = 32.861586°
NAD 27 LONG = -104.122890°

PENETRATION POINT 1 & FIRST TAKE POINT 1,980' FSL & 330' FEL

NAD 83 X = 606,110.89' NAD 83 Y = 677,819.50' NAD 83 LAT = 32.863170° NAD 83 LONG = -104.122379° NAD 27 X = 564,931.86' NAD 27 Y = 677,756.08' NAD 27 LAT = 32.863056° NAD 27 LONG = -104.121868° PENETRATION POINT 2 1,980' FSL & 2,637' FEL

NAD 83 X = 603,804.01'
NAD 83 Y = 677,804.74'
NAD 83 LAT = 32.863142°
NAD 83 LONG = -104.129892°
NAD 27 X = 562,624.98'
NAD 27 Y = 677,741.33'
NAD 27 LAT = 32.863028°
NAD 27 LONG = -104.129381°

PENETRATION POINT 3 1,980' FSL & 1,319' FWL

NAD 83 X = 602,485.37' NAD 83 Y = 677,796.29' NAD 83 LAT = 32.863126° NAD 83 LONG = -104.134187° NAD 27 X = 561,306.34' NAD 27 Y = 677,732.89' NAD 27 LAT = 32.863012° NAD 27 LONG = -104.133675° LAST TAKE POINT & BOTTOM HOLE LOCATION 1,980' FSL & 1,044' FEL

NAD 83 X = 600,125.44' NAD 83 Y = 677,645.56' NAD 83 LAT = 32.862723° NAD 83 LONG = -104.141873° NAD 27 X = 558,946.41' NAD 27 Y = 677,582.17' NAD 27 LAT = 32.862609° NAD 27 LONG = -104.141362°

	CORNER COORDINATES NEW MEXICO EAST - NAD 83									
POINT	NORTHING/EASTING									
Α	N:681,082.82' E:595,939.98'									
В	N:681,076.67' E:598,511.57'									
С	N:681,067.68' E:601,085.68'									
D	N:681,105.86' E:603,763.38'									
E	N:681,144.66' E:606,443.73'									
F	N:678,493.10' E:606,441.47'									
G	N:675,841.54' E:606,439.20'									
Н	N:675,825.04' E:603,828.38'									
ı	N:675,808.46' E:601,215.55'									
J	N:675,376.36' E:598,371.53'									
К	N:675,335.79' E:596,007.48'									
L	N:678,223.41' E:595,974.15'									

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 402634

#### PERMIT COMMENTS

Operator Name and Address:	API Number:		
3R Operating, LLC [331569]	30-015-57480		
20405 State Highway 249	Well:		
Houston, TX 77070	Orion 1 2 State Com #102H		

Created By	Comment	Comment Date
jeffrey.harrison	Irregular HSU requested. Administrative order required for non-standard spacing unit prior to APD resubmittal.	11/12/2025
jeffrey.harrison	Infill to 30-015-57478.	11/14/2025

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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 402634

#### PERMIT CONDITIONS OF APPROVAL

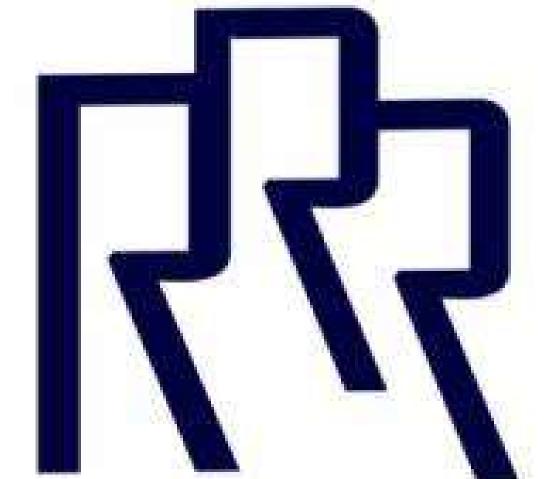
Operator Name and Address:	API Number:		
3R Operating, LLC [331569]	30-015-57480		
20405 State Highway 249	Well:		
Houston, TX 77070	Orion 1 2 State Com #102H		

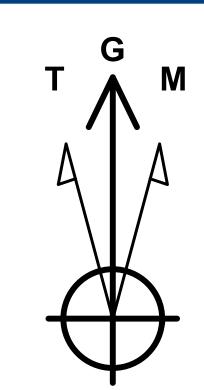
OCD Reviewer	Condition
	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate 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	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
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 Location: Orion 1 2 State Com Well: Orion 1 2 State Com 102H

Plan: Plan 1 GL 3707' + 26.5' KB @ 3733.50usft





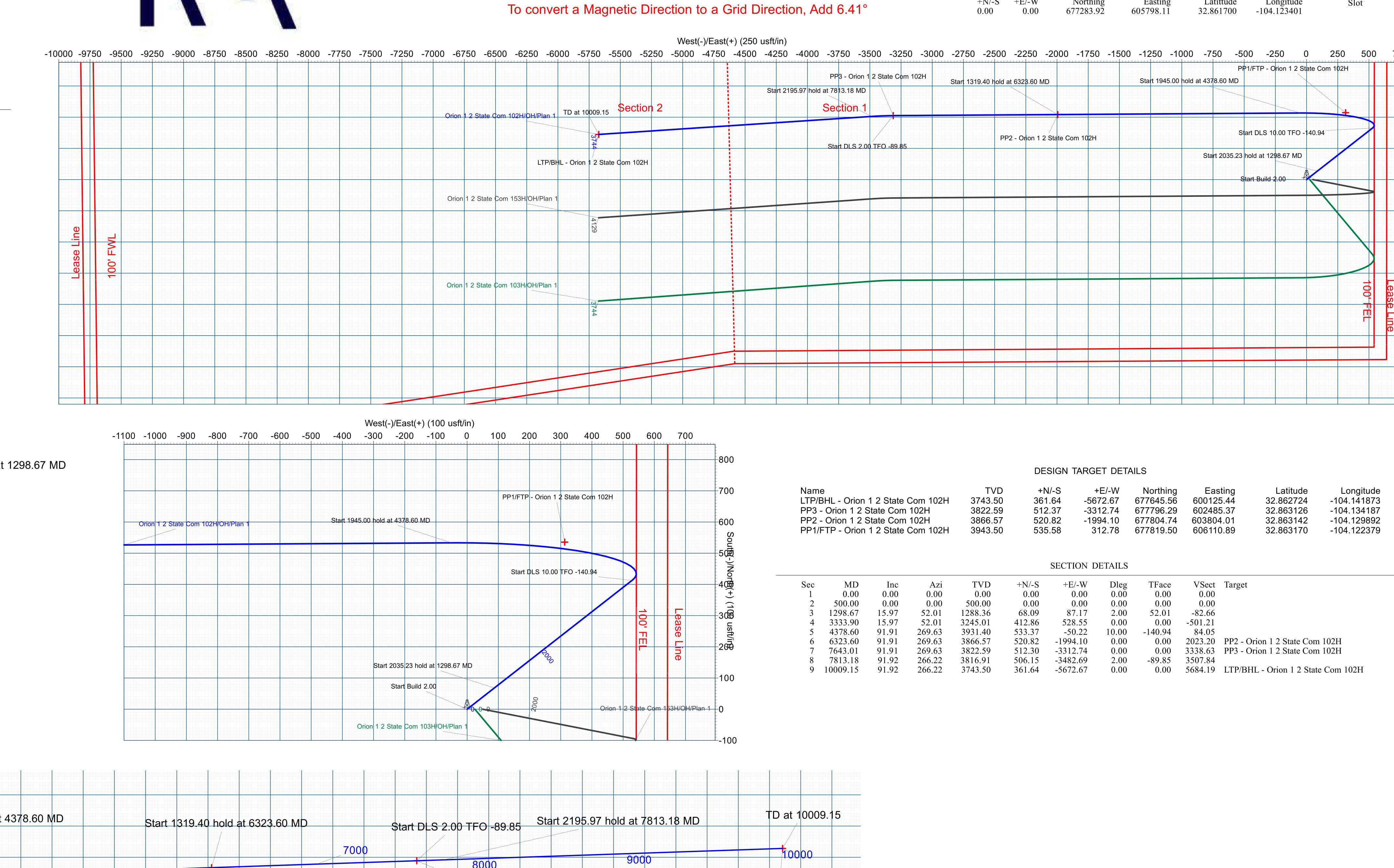
Azimuths to Grid North True North: -0.11° Magnetic North: 6.41°

Magnetic Field Strength: 47295.0nT Dip Angle: 60.24° Date: 11/3/2025 Model: IGRF2025



WELL DETAILS: Orion 1 2 State Com 102H

GL 3707' + 26.5' KB @ 3733.50usft



Field: Eddy County, NM (NAD83)

OH

RIG: TBD

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

Start Build 2.00

Start 2035.23 hold at 1298.67 MD ্ৰু 2400

Start DLS 10.00 TFO -140.94

Start 1945.00 hold at 4378.60 MD

PP2 - Orion 1 2 State Com 102H PP1/FTP - Orion 1 2 State Com 102H

PP3 - Orion 1 2 State Com 102H

LTP/BHL - Orion 1 2 State Com 102H

Vertical Section at 273.65° (200 usft/in)

Plan: Plan 1 (Orion 1 2 State Com 102H/OH)



# 3R Operating, LLC

Eddy County, NM (NAD83) Orion 1 2 State Com Orion 1 2 State Com 102H

OH

Plan: Plan 1

# **Standard Planning Report**

03 November, 2025

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### **Legacy Directional Drilling**

Planning Report

Database:EDM\_WACompany:3R Operating, LLCProject:Eddy County, NM (NAD83)Site:Orion 1 2 State ComWell:Orion 1 2 State Com 102H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference:

**Survey Calculation Method:** 

North Reference:

Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft GL 3707' + 26.5' KB @ 3733.50usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD83)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Orion 1 2 State Com

 Site Position:
 Northing:
 678,993.26 usft
 Latitude:
 32.866398

 From:
 Map
 Easting:
 605,922.63 usft
 Longitude:
 -104.122985

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

Well Orion 1 2 State Com 102H **Well Position** +N/-S 0.00 usft Northing: 677,283.92 usft Latitude: 32.861700 +E/-W 0.00 usft Easting: 605,798.11 usft Longitude: -104.123401 **Position Uncertainty** 0.00 usft Wellhead Elevation: usft **Ground Level:** 3,707.00 usft

Grid Convergence: 0.11 °

Wellbore ОН Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,294.99523931 IGRF2025 11/3/2025 6.53 60.24

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) (°) 273.65 0.00 0.00 0.00

Planning Report

Database: EDM\_WA Company: 3R Operat

Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)
Site: Orion 1 2 State Com
Well: Orion 1 2 State Com 102H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft

GL 3707' + 26.5' KB @ 3733.50usft

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,298.67	15.97	52.01	1,288.36	68.09	87.17	2.00	2.00	0.00	52.01	
3,333.90	15.97	52.01	3,245.01	412.86	528.55	0.00	0.00	0.00	0.00	
4,378.60	91.91	269.63	3,931.40	533.37	-50.22	10.00	7.27	-13.63	-140.94	
6,323.60	91.91	269.63	3,866.57	520.82	-1,994.10	0.00	0.00	0.00	0.00	PP2 - Orion 1 2 State
7,643.01	91.91	269.63	3,822.59	512.30	-3,312.74	0.00	0.00	0.00	0.00	PP3 - Orion 1 2 State
7,813.18	91.92	266.22	3,816.91	506.15	-3,482.69	2.00	0.00	-2.00	-89.85	
10,009.15	91.92	266.22	3,743.50	361.64	-5,672.67	0.00	0.00	0.00	0.00	LTP/BHL - Orion 1 2 S



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Database: EDM\_WA
Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)

Site: Orion 1 2 State Com
Well: Orion 1 2 State Com 102H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft GL 3707' + 26.5' KB @ 3733.50usft

Grid

sign:	Plan 1								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	2.00	52.01	599.98	1.07	1.38	-1.30	2.00	2.00	0.00
700.00	4.00	52.01	699.84	4.30	5.50	-5.22	2.00	2.00	0.00
800.00	6.00	52.01	799.45	9.66		-11.73	2.00	2.00	
					12.37				0.00
900.00	8.00	52.01	898.70	17.16	21.97	-20.84	2.00	2.00	0.00
1,000.00	10.00	52.01	997.47	26.79	34.30	-32.53	2.00	2.00	0.00
1,100.00	12.00	52.01	1,095.62	38.54	49.34	-46.78	2.00	2.00	0.00
1,200.00	14.00	52.01	1,193.06	52.38	67.06	-63.59	2.00	2.00	0.00
1,298.67	15.97	52.01	1,288.36	68.09	87.17	-82.66	2.00	2.00	0.00
1,300.00	15.97	52.01	1,289.64	68.32	87.46	-82.93	0.00	0.00	0.00
1,400.00	15.97	52.01	1,385.78	85.26	109.14	-103.50	0.00	0.00	0.00
1,500.00	15.97	52.01	1,481.92	102.20	130.83	-124.07	0.00	0.00	0.00
1,600.00	15.97	52.01	1,578.06	119.14	152.52	-144.63	0.00	0.00	0.00
1,700.00	15.97	52.01	1,674.20	136.08	174.21	-165.20	0.00	0.00	0.00
1,800.00	15.97	52.01	1,770.34	153.02	195.89	-185.76	0.00	0.00	0.00
1,900.00	15.97	52.01	1,866.48	169.96	217.58	-206.33	0.00	0.00	0.00
2,000.00	15.97	52.01	1,962.62	186.90	239.27	-226.89	0.00	0.00	0.00
2,100.00	15.97	52.01	2,058.76	203.84	260.95	-247.46	0.00	0.00	0.00
2,200.00	15.97	52.01	2,154.89	220.78	282.64	-268.02	0.00	0.00	0.00
2,300.00	15.97	52.01	2,251.03	237.72	304.33	-288.59	0.00	0.00	0.00
2 400 00	15.07	52.01	2,347.17	254.66	326.01	200.45	0.00	0.00	0.00
2,400.00	15.97			254.66		-309.15	0.00		
2,500.00	15.97	52.01	2,443.31	271.60	347.70	-329.72	0.00	0.00	0.00
2,600.00	15.97	52.01	2,539.45	288.54	369.39	-350.28	0.00	0.00	0.00
2,700.00	15.97	52.01	2,635.59	305.48	391.08	-370.85	0.00	0.00	0.00
2,800.00	15.97	52.01	2,731.73	322.42	412.76	-391.41	0.00	0.00	0.00
2,900.00	15.97	52.01	2,827.87	339.36	434.45	-411.98	0.00	0.00	0.00
3,000.00	15.97	52.01	2,924.01	356.30	456.14	-432.54	0.00	0.00	0.00
3,100.00	15.97	52.01	3,020.15	373.24	477.82	-453.11	0.00	0.00	0.00
3,200.00	15.97	52.01	3,116.28	390.18	499.51	-473.67	0.00	0.00	0.00
3,300.00	15.97	52.01	3,212.42	407.12	521.20	-494.24	0.00	0.00	0.00
3,333.90	15.97	52.01	3,245.01	412.86	528.55	-501.21	0.00	0.00	0.00
3,350.00	14.76	48.02	3,260.54	415.60	531.82	-504.30	10.00	-7.55	-24.75
3,400.00	11.59	30.85	3,309.24	424.17	539.13	-504.30 -511.06	10.00	-6.33	-34.34
,			,						
3,450.00	10.03	5.26	3,358.37	432.83	542.11	-513.48	10.00	-3.13	-51.17
3,500.00	10.78	337.61	3,407.58	441.49	540.73	-511.55	10.00	1.50	-55.30
3,550.00	13.47	317.30	3,456.49	450.10	535.00	-505.28	10.00	5.37	-40.61
3,600.00	17.20	304.63	3,504.71	458.58	524.96	-494.72	10.00	7.47	-25.35
3,650.00	21.45	296.59	3,551.89	466.88	510.69	-479.95	10.00	8.49	-16.07
3,700.00	25.95	291.17	3,597.67	474.93	492.30	-461.09	10.00	9.01	-10.84
3,750.00	30.60	287.28	3,641.69	482.67	469.93	-438.27	10.00	9.30	-7.78
3,800.00	35.34	284.34	3,683.63	490.04	443.75	-411.68	10.00	9.48	-5.88
3,850.00	40.14	282.02	3,723.16	496.98	413.96	-381.51	10.00	9.59	-4.65
3,863.66	41.45	281.46	3,733.50	498.80	405.23	-372.67	10.00	9.64	-4.06
			yburg - San And						
3,900.00	44.97	280.12	3,759.98	503.44	380.79	-347.99	10.00	9.67	-3.70
3,950.00	49.83	278.51	3,793.82	509.38	344.48	-347.99	10.00	9.72	-3.70 -3.21
3,930.00	49.03	210.01	3,183.02	308.30	J <del>44</del> .40	-511.57	10.00	9.12	-3.21
4,000.00	54.71	277.13	3,824.41	514.74	305.31	-271.95	10.00	9.76	-2.78
4,050.00	59.60	275.90	3,851.52	519.49	263.59	-230.01	10.00	9.78	-2.46
4,051.17	59.71	275.87	3,852.12	519.60	262.59	-229.00	10.00	9.80	-2.33



Planning Report

Database: EDM\_WA
Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)
Site: Orion 1 2 State Com
Well: Orion 1 2 State Com 102H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft GL 3707' + 26.5' KB @ 3733.50usft Grid Minimum Curvature

Design:		Plan 1								
Planned Surv	V0V									
Planned Surv	vey									
De	sured epth esft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PP1	1/FTP - Ori	on 1 2 State Co	ım 102H							
	,100.00	64.50	274.78	3,874.95	523.59	219.63	-185.87	10.00	9.81	-2.22
	,150.00	69.41	273.76	3,894.52	527.01	173.76	-139.88	10.00	9.82	-2.05
4,	,200.00	74.33	272.80	3,910.07	529.72	126.34	-92.38	10.00	9.83	-1.92
4,	,250.00	79.25	271.88	3,921.50	531.71	77.72	-43.73	10.00	9.84	-1.83
4.	,300.00	84.17	271.00	3,928.71	532.95	28.27	5.69	10.00	9.85	-1.77
4,	,350.00	89.09	270.13	3,931.65	533.43	-21.62	55.52	10.00	9.85	-1.74
4,	,378.60	91.91	269.63	3,931.40	533.37	-50.22	84.05	10.00	9.85	-1.73
4.	,400.00	91.91	269.63	3,930.68	533.24	-71.61	105.39	0.00	0.00	0.00
4.	,500.00	91.91	269.63	3,927.35	532.59	-171.55	205.09	0.00	0.00	0.00
4.	,600.00	91.91	269.63	3,924.02	531.94	-271.49	304.79	0.00	0.00	0.00
	,700.00	91.91	269.63	3,920.68	531.30	-371.43	404.48	0.00	0.00	0.00
	,800.00	91.91	269.63	3,917.35	530.65	-471.38	504.18	0.00	0.00	0.00
4,	,900.00	91.91	269.63	3,914.02	530.01	-571.32	603.88	0.00	0.00	0.00
5.	,000.00	91.91	269.63	3,910.69	529.36	-671.26	703.58	0.00	0.00	0.00
5.	,100.00	91.91	269.63	3,907.35	528.72	-771.20	803.28	0.00	0.00	0.00
5,	,200.00	91.91	269.63	3,904.02	528.07	-871.15	902.98	0.00	0.00	0.00
5,	,300.00	91.91	269.63	3,900.69	527.43	-971.09	1,002.68	0.00	0.00	0.00
5,	,400.00	91.91	269.63	3,897.35	526.78	-1,071.03	1,102.38	0.00	0.00	0.00
5,	,500.00	91.91	269.63	3,894.02	526.14	-1,170.97	1,202.08	0.00	0.00	0.00
5,	,600.00	91.91	269.63	3,890.69	525.49	-1,270.92	1,301.77	0.00	0.00	0.00
5,	,700.00	91.91	269.63	3,887.35	524.84	-1,370.86	1,401.47	0.00	0.00	0.00
5,	,800.00	91.91	269.63	3,884.02	524.20	-1,470.80	1,501.17	0.00	0.00	0.00
5,	,900.00	91.91	269.63	3,880.69	523.55	-1,570.74	1,600.87	0.00	0.00	0.00
6,	,000.00	91.91	269.63	3,877.36	522.91	-1,670.69	1,700.57	0.00	0.00	0.00
6,	,100.00	91.91	269.63	3,874.02	522.26	-1,770.63	1,800.27	0.00	0.00	0.00
6.	,200.00	91.91	269.63	3,870.69	521.62	-1,870.57	1,899.97	0.00	0.00	0.00
6,	,300.00	91.91	269.63	3,867.36	520.97	-1,970.51	1,999.67	0.00	0.00	0.00
6,	,323.60	91.91	269.63	3,866.57	520.82	-1,994.10	2,023.20	0.00	0.00	0.00
		2 State Com 10	)2H							
6,	,400.00	91.91	269.63	3,864.02	520.33	-2,070.45	2,099.36	0.00	0.00	0.00
6.	,500.00	91.91	269.63	3,860.69	519.68	-2,170.40	2,199.06	0.00	0.00	0.00
	,600.00	91.91	269.63	3,857.36	519.04	-2,270.34	2,298.76	0.00	0.00	0.00
6,	,700.00	91.91	269.63	3,854.02	518.39	-2,370.28	2,398.46	0.00	0.00	0.00
6,	,800.00	91.91	269.63	3,850.69	517.75	-2,470.22	2,498.16	0.00	0.00	0.00
6.	,900.00	91.91	269.63	3,847.36	517.10	-2,570.17	2,597.86	0.00	0.00	0.00
	,000.00	91.91	269.63	3,844.03	516.45	-2,670.11	2,697.56	0.00	0.00	0.00
	,100.00	91.91	269.63	3,840.69	515.81	-2,770.05	2,797.26	0.00	0.00	0.00
7,	,200.00	91.91	269.63	3,837.36	515.16	-2,869.99	2,896.96	0.00	0.00	0.00
7.	,300.00	91.91	269.63	3,834.03	514.52	-2,969.94	2,996.65	0.00	0.00	0.00
	,400.00	91.91	269.63	3,830.69	513.87	-3,069.88	3,096.35	0.00	0.00	0.00
	,500.00	91.91	269.63	3,827.36	513.23	-3,169.82	3,196.05	0.00	0.00	0.00
	,600.00	91.91	269.63	3,824.03	512.58	-3,269.76	3,295.75	0.00	0.00	0.00
7.	,643.00	91.91	269.63	3,822.59	512.30	-3,312.74	3,338.62	0.00	0.00	0.00
PP3	3 - Orion 1	2 State Com 10	)2H							
7.	,700.00	91.91	268.49	3,820.69	511.37	-3,369.70	3,395.41	2.00	0.00	-2.00
	,800.00	91.92	266.49	3,817.35	506.99	-3,469.54	3,494.77	2.00	0.00	-2.00
	,813.18	91.92	266.22	3,816.91	506.15	-3,482.69	3,507.84	2.00	0.00	-2.00
	,900.00	91.92	266.22	3,814.01	500.44	-3,569.27	3,593.88	0.00	0.00	0.00
	,000.00	91.92	266.22	3,810.67	493.86	-3,669.00	3,692.98	0.00	0.00	0.00
8	,100.00	91.92	266.22	3,807.32	487.28	-3,768.72	3,792.09	0.00	0.00	0.00
	,200.00	91.92	266.22	3,803.98	480.70	-3,868.45	3,891.20	0.00	0.00	0.00
	,300.00	91.92	266.22	3,800.64	474.12	-3,968.18	3,990.30	0.00	0.00	0.00



Planning Report

Database: EDM\_WA
Company: 3R Operating, LLC
Project: Eddy County, NM (NAD83)
Site: Orion 1 2 State Com

 Well:
 Orion 1 2 State Com 102H

 Wellbore:
 OH

 Design:
 Plan 1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: Survey Calculation Method: Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft GL 3707' + 26.5' KB @ 3733.50usft

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	91.92	266.22	3,797.30	467.54	-4,067.91	4,089.41	0.00	0.00	0.00
8,500.00	91.92	266.22	3,793.95	460.96	-4,167.63	4,188.52	0.00	0.00	0.00
8,600.00	91.92	266.22	3,790.61	454.37	-4,267.36	4,287.62	0.00	0.00	0.00
8,700.00	91.92	266.22	3,787.27	447.79	-4,367.09	4,386.73	0.00	0.00	0.00
8,800.00	91.92	266.22	3,783.92	441.21	-4,466.82	4,485.84	0.00	0.00	0.00
8,900.00	91.92	266.22	3,780.58	434.63	-4,566.54	4,584.94	0.00	0.00	0.00
9,000.00	91.92	266.22	3,777.24	428.05	-4,666.27	4,684.05	0.00	0.00	0.00
9,100.00	91.92	266.22	3,773.89	421.47	-4,766.00	4,783.16	0.00	0.00	0.00
9,200.00	91.92	266.22	3,770.55	414.89	-4,865.72	4,882.26	0.00	0.00	0.00
9,300.00	91.92	266.22	3,767.21	408.31	-4,965.45	4,981.37	0.00	0.00	0.00
9,400.00	91.92	266.22	3,763.86	401.73	-5,065.18	5,080.48	0.00	0.00	0.00
9,500.00	91.92	266.22	3,760.52	395.15	-5,164.91	5,179.58	0.00	0.00	0.00
9,600.00	91.92	266.22	3,757.18	388.57	-5,264.63	5,278.69	0.00	0.00	0.00
9,700.00	91.92	266.22	3,753.84	381.98	-5,364.36	5,377.80	0.00	0.00	0.00
9,800.00	91.92	266.22	3,750.49	375.40	-5,464.09	5,476.90	0.00	0.00	0.00
9,900.00	91.92	266.22	3,747.15	368.82	-5,563.81	5,576.01	0.00	0.00	0.00
10,009.15	91.92	266.22	3,743.50	361.64	-5,672.67	5,684.19	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
LTP/BHL - Orion 1 2 State - plan hits target cen - Point	0.00 ter	0.00	3,743.50	361.64	-5,672.67	677,645.56	600,125.44	32.862724	-104.141874
PP3 - Orion 1 2 State Cc - plan misses target - Point		0.00 ousft at 7643	3,822.59 .00usft MD (	512.37 3822.59 TVD,	-3,312.74 512.30 N, -33	677,796.29 312.74 E)	602,485.37	32.863126	-104.134187
PP2 - Orion 1 2 State Cc - plan hits target cen - Point	0.00 ter	0.00	3,866.57	520.82	-1,994.10	677,804.74	603,804.01	32.863142	-104.129892
PP1/FTP - Orion 1 2 Sta - plan misses target - Point	0.00 center by 105	0.00 .48usft at 40	3,943.50 51.17usft MI	535.58 D (3852.11 TV	312.78 D, 519.60 N, 2	677,819.50 262.59 E)	606,110.89	32.863170	-104.122379

# 別

Well:

# **Legacy Directional Drilling**

Planning Report

Database:EDM\_WACompany:3R Operating, LLCProject:Eddy County, NM (NAD83)Site:Orion 1 2 State Com

Orion 1 2 State Com 102H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well Orion 1 2 State Com 102H GL 3707' + 26.5' KB @ 3733.50usft GL 3707' + 26.5' KB @ 3733.50usft

Grid

ormations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	3,863.66	3,733.50	Tansill				
	3,863.66	3,733.50	Yates				
	3,863.66	3,733.50	Seven Rivers				
	3,863.66	3,733.50	Queen				
	3,863.66	3,733.50	Grayburg				
	3,863.66	3,733.50	San Andres				
	3,863.66	3,733.50	Glorieta (Yeso Group)				
	3,863.66	3,733.50	Target CL				
	3,863.66	3,733.50	Paddock				
	3,863.66	3,733.50	Blinebry				
	3,863.66	3,733.50	Tubb				

### 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: _3	31569	Date: 11 / 06 / 25					
II. Type:   ✓ Original	☐ Amendme	nt due to □ 19.15.2	27.9.D(6)(a) NM	IAC □ 19.15.27.9.	D(6)(b) NMAC	□ Othe	er.			
If Other, please describe	:									
<b>III. Well(s):</b> Provide to be recompleted from a					f wells proposed	to be d	drilled or proposed			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Gas MCF/D Produc		Anticipated roduced Water BBL/D			
See attached										
IV. Central Delivery Point Name: Orion 1-2 Production Facility  V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be recompleted from a single well pad or connected to a central delivery point.  Well Name  API  Spud Date  TD Reached Date  Completion Commencement Date  Back Date					7.9(D)(1) NMAC] sed to be drilled or First Production Date					
See attached										
VI. Separation Equipment: ☑ Attach a complete description of how Operator will size separation equipment to optimize gas capture.  VII. Operational Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.  VIII. Best Management Practices: ☑ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.										

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

### IX. Anticipated Natural Gas Production:

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

## X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	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	g system 🗆	will $\square$ will	not have	capacity to	gather	100% of th	ne anticipated	natural ga
prod	luction volume	from the well	prior to the d	ate of first	oroduction.						

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

$\neg$	A 44 1 4	O 4 9	1 .		1 4	•	4 41	1.1"	
	. Attach (	Operator	s blan i	ro manage	production	in response	to the increa	sed line press	ure

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 Tramell
Printed Name: Austin Tramell
Title: Director Environmental & Regulatory
E-mail Address: atramell@3roperating.com
Date: 11/06/2025
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.