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 398782

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

Operator Name and Address		2. OGRID Number
3R Operating, LLC		331569
20405 State Highway 249		3. API Number
Houston, TX 77070		30-015-57355
4. Property Code	5. Property Name	6. Well No.
337822	Ursa 12 11 State Com	101H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	12	17S	28E	Α	493	N	413	E	Eddy
						•	•		

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
G	11	17S	28E	G	1320	N	2498	E	Eddy

9. Pool Information

EMPIRE; GLORIETA-YESO	96210

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3717
16. Multiple N	17. Proposed Depth 11158	18. Formation Glorieta	19. Contractor	20. Spud Date 2/25/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

	2111 Toposca Gaerrig and Germent Togram										
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC					
Surf	17.5	13.375	54.5	350	392	0					
Int1	12.25	9.625	40	3800	1168	0					
Prod	8.75	5.5	23	11158	1774	0					

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

ZZ: 1 Topocou Biowout 1 Tovolition 1 Togram							
Туре	Working Pressure	Test Pressure	Manufacturer Atlas				
Annular	5000	2500					
Double Ram	1000	5000	Atlas				

knowledge and b I hereby certify th or recompletion of	velief. nat no additives containing PFAS ch of this well.	e true and complete to the best of my emicals will be added to the completion NMAC and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Austin Tran	mell	Approved By:	Jeffrey Harrison	
Title:	Director of environmental and re	gulatory	Title:	Petroleum Specialist III	
Email Address:	atramell@3roperating.com		Approved Date:	10/10/2025	Expiration Date: 10/10/2027
Date:	9/24/2025	Phone: 832-810-1037	Conditions of Appr	oval Attached	

C-102.dwg
101H\DWG\101H
State Com
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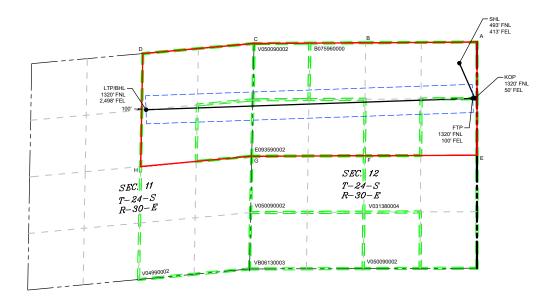
Phone: (General Phone: (Main Office 505) 476-344 Information 505) 629-611	6			Energy, Minerals	ate of New Mexico & Natural Resources DIVERSION DIVIS				C-10 Revised July, 09 20 Submit Electronical via OCD permitti
		n.gov/ocd/conta	ct-us/					0.1.34.1	⊠ Initial Subn	nittal
								Submital Type:	☐ Amended R	Leport
									☐ As Drilled	
			r		WELL LOCA	TION INFORMATION				
API Nu	mber 01 5-57 3	155	Pool Code	9621		Pool Name	Emnire	; Glorieta-	.Vaen	
Propert			Property Nam				Linpire	, dioneta-	Well Number	
337	822				URSA 12	2 11 STATE COM				101H
OGRID	No. 3315 6	20	Operator Nan	ne	3B OB	ERATING, LLC			Ground Level	Elevation 3,717 '
Surface		tate Fee	 Tribal □Feder	al	JN OF	Mineral Owner:	State □ Fee [□Tribal □F		3,717
					Surfac	e Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
Α	12	178	28E		493 FNL	413 FEL	32.850	6372 -	104.122672	EDDY
		1			Bottor	n Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	Longitude	County
G	11	17S	28E		1320 FNL	2498 FEL	32.85	3408 -	-104.146584	EDDY
	ed Acres	Infill or Defin	•	Defining	g Well API	Overlapping Spacing V	Unit (Y/N)	Consolidation	on Code	<u> </u>
Order N	umbers. pe	nding				Well Setbacks are und	ler Common Ov	vnership:	☑ Yes □ No	
					Kick (Off Point (KOP)				
JL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
A	12	178	28E		1320 FNL	50 FEL	32.85	4103 -	104.121496	EDDY
	 a_:	 m		T	1	Take Point (FTP)				
ul A	Section 12	Township 17S	Range 28E	Lot	Ft. from N/S 1320 FNL	Ft. from E/W 100 FEL	Latitude 32.85 4		-104.121658	County
					Last T	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
G	11	178	28E		1320 FNL	2498 FEL	32.85	3408 -	104.146584	EDDY
_	Area or Area nm agree			Spacing U	Jnit Type : ⊠Horizo	ontal	Groun	nd Elevation		
OPERA	TOR CERTIF	FICATIONS				SURVEYOR CERTIFIC	ATIONS			
est of n	ny knowledge	and belief, and,	if the well is ver	tical or di	l complete to the rectional well, l mineral interest	I hereby certify that the wactual surveys made by n	ne or under my :			
n the la at this lo anleased	nd including to ocation pursued mineral inte		ttom hole location with an owner of ary pooling agre	on or has a of a workir	right to drill this ng interest or	correct to the best of my t	oeneg	JARK	DILLON HA	
If this w received inleased	ell is a horizo the consent of mineral inte	ntal well, I furth of at least one les rest in each trac	er certify that th ssee or owner oj t (in the target p	a working oool or info	; interest or ormation) in					\ \
compuls	ory pooling o	well's completed rder from the di	vision.	iocuted of	- оншпеи а	11/1		OFFICE	23786 YONAL SUP	
A U. Signatur		ramell	09/23/2 Date	2025		Signature and Seal of Pro	fessional Surve			
Austi Printed 1	n Trame	II				MARK DILLON HARP 2378 Certificate Number	Date of		9/19/2025	
atran ^{Email A}		perating.c	com							
						DN			618.040002.0	1-02
	Note: N	o allowable will	he assigned to t	his comple	rtion until all interest	have been consolidated or	a non-standard	unit has been		

Released to Imaging: 10/10/2025 9:46:06 AM—

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 areage 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 accepted.





•	Α	CREAGE	·-	- WELL BOR	E.				
[
ļ					L COORDINATE				
ļ	WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LC
,	SHL	606,025.9	675,346.0	32.856372	-104.122672	564,848.0	675,283.2	32.856259	-104.1221
1	КОР	606,388.7	674,521.1	32.854103	-104.121496	565,210.8	674,458.3	32.853990	-104.1209
ļ	FTP	606,338.7	674,520.8	32.854102	-104.121658	565,160.8	674,458.0	32.853989	-104.12114
L	LTP/BHL	598,685.0	674,253.8	32.853408	-104.146584	557,507.1	674,190.9	32.853295	-104.1460
-									
-									

CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
COMITEM	TAND OS TATALEX	IVAD 03 IVIVIE I		TVAD 27 TVIVIE I
Α	606,439.2	675,841.5	565,261.3	675,778.6
В	603,828.3	675,825.0	562,650.4	675,762.2
С	601,215.5	675,808.4	560,037.6	675,745.6
D	598,610.0	675,572.4	557,432.0	675,509.5
E	606,438.2	673,189.1	565,260.3	673,126.3
F	603,800.7	673,177.3	562,622.8	673,114.5
G	601,162.0	673,165.5	559,984.0	673,102.7
Н	598,559.8	672,923.3	557,381.9	672,860.5

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 398782

PERMIT COMMENTS

Operator Name and Address:	API Number:
3R Operating, LLC [331569]	30-015-57355
20405 State Highway 249	Well:
Houston, TX 77070	Ursa 12 11 State Com #101H

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well for spacing unit.	10/10/2025

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

Phone: (505) 629-6116
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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 Conditions

Permit 398782

PERMIT CONDITIONS OF APPROVAL

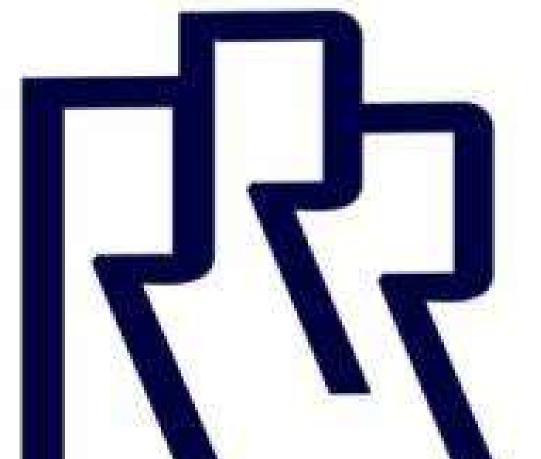
Operator Name and Address:	API Number:
3R Operating, LLC [331569]	30-015-57355
20405 State Highway 249	Well:
Houston, TX 77070	Ursa 12 11 State Com #101H

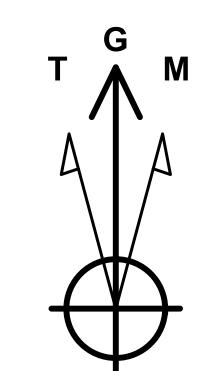
OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required 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	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.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite (if applicable), above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.

3R Operating, LLC

Company: 3R Operating, LLC Field: Eddy County, NM (NAD83) Location: URSA 12 11 State Com Well: URSA 12 11 State Com 101H OH

Plan: Plan 1



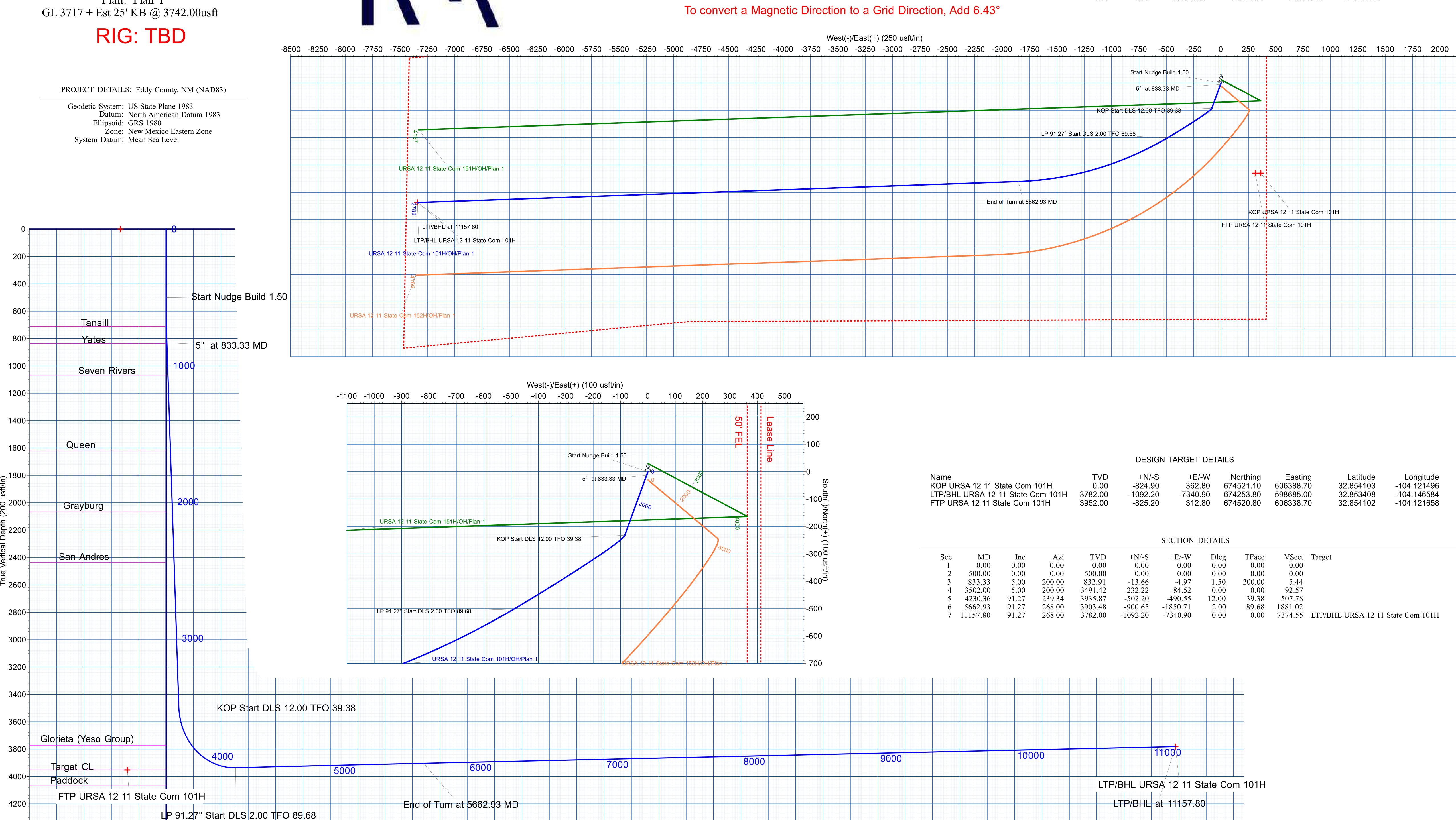


Azimuths to Grid North True North: -0.11° Magnetic North: 6.43°

Magnetic Field Strength: 47316.6nT Dip Angle: 60.24° Date: 8/21/2025 Model: IGRF2025



GL 3717 + Est 25' KB @ 3742.00usft Longitude -104.122672



800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 5000 5200 5400 5600 5800 6000 6200 6400 6600 6800 7000 7200 7400 7600 7800

Vertical Section at 268.00° (200 usft/in)

Plan: Plan 1 (URSA 12 11 State Com 101H/OH) Created By: Jenise Kirkpatrick Date: 9:10, September 22 2025



3R Operating, LLC

Eddy County, NM (NAD83) URSA 12 11 State Com URSA 12 11 State Com 101H

OH

Plan: Plan 1

Standard Planning Report

22 September, 2025

Planning Report

Database: Company: Project:

Site:

Well:

EDM_WA

3R Operating, LLC Eddy County, NM (NAD83) URSA 12 11 State Com URSA 12 11 State Com 101H

OH Plan 1 **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well URSA 12 11 State Com 101H GL 3717 + Est 25' KB @ 3742.00usft GL 3717 + Est 25' KB @ 3742.00usft

Minimum Curvature

Project

Map Zone:

Wellbore:

Design:

Eddy County, NM (NAD83)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

URSA 12 11 State Com Site

Northing: Site Position: From: Мар Easting:

675,346.00 usft 606,025.90 usft

Latitude: Longitude:

32.856372 -104.122672

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

Well URSA 12 11 State Com 101H

Well Position +N/-S 0.00 usft Northing: 675,346.00 usft Latitude: 32.856372 +E/-W 0.00 usft Easting: 606,025.90 usft Longitude: -104.122672

Position Uncertainty 0.00 usft Wellhead Elevation: usft **Ground Level:** 3,717.00 usft

0.11° **Grid Convergence:**

ОН Wellbore

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,316.55259254 IGRF2025 8/21/2025 6.54 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) (°) 268.00 0.00 0.00 0.00

Plan Survey Tool Program Date 9/22/2025

Depth From Depth To

(usft) (usft) Survey (Wellbore)

Tool Name

Remarks

0.00 11,157.80 Plan 1 (OH) MWD

OWSG MWD - Standard

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	
833.33	5.00	200.00	832.91	-13.66	-4.97	1.50	1.50	0.00	200.00	
3,502.00	5.00	200.00	3,491.42	-232.22	-84.52	0.00	0.00	0.00	0.00	
4,230.36	91.27	239.34	3,935.87	-502.20	-490.55	12.00	11.84	5.40	39.38	
5,662.93	91.27	268.00	3,903.48	-900.65	-1,850.71	2.00	0.00	2.00	89.68	
11,157.80	91.27	268.00	3,782.00	-1,092.20	-7,340.90	0.00	0.00	0.00	0.00 L	TP/BHL URSA 12 11



Planning Report

 Database:
 EDM_WA

 Company:
 3R Operating, LLC

 Project:
 Eddy County, NM (NAD83)

 Site:
 URSA 12 11 State Com

 Well:
 URSA 12 11 State Com 101H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well URSA 12 11 State Com 101H GL 3717 + Est 25' KB @ 3742.00usft GL 3717 + Est 25' KB @ 3742.00usft Grid

ed 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
_	e Build 1.50								
600.00	1.50	200.00	599.99	-1.23	-0.45	0.49	1.50	1.50	0.00
700.00	3.00	200.00	699.91	-4.92	-1.79	1.96	1.50	1.50	0.00
712.11	3.18	200.00	712.00	-5.53	-2.01	2.21	1.50	1.50	0.00
Tansill									
800.00	4.50	200.00	799.69	-11.06	-4.03	4.41	1.50	1.50	0.00
833.33	5.00	200.00	832.91	-13.66	-4.97	5.44	1.50	1.50	0.00
5° at 833.3	3 MD								
837.44	5.00	200.00	837.00	-13.99	-5.09	5.58	0.00	0.00	0.00
Yates									
900.00	5.00	200.00	899.32	-19.12	-6.96	7.62	0.00	0.00	0.00
1,000.00	5.00	200.00	998.94	-27.31	-9.94	10.89	0.00	0.00	0.00
1,068.32	5.00	200.00	1,067.00	-32.90	-11.98	13.12	0.00	0.00	0.00
Seven Rive	ers								
1,100.00	5.00	200.00	1,098.56	-35.50	-12.92	14.15	0.00	0.00	0.00
1,200.00	5.00	200.00	1,198.18	-43.69	-15.90	17.42	0.00	0.00	0.00
1,300.00	5.00	200.00	1,297.80	-51.88	-18.88	20.68	0.00	0.00	0.00
1,400.00	5.00	200.00	1,397.42	-60.07	-21.86	23.95	0.00	0.00	0.00
1,500.00	5.00	200.00	1,497.04	-68.26	-24.84	27.21	0.00	0.00	0.00
1,600.00	5.00	200.00	1,596.66	-76.45	-27.82	30.48	0.00	0.00	0.00
1,625.44	5.00	200.00	1,622.00	-78.53	-28.58	31.31	0.00	0.00	0.00
Queen									
1,700.00	5.00	200.00	1,696.28	-84.64	-30.81	33.74	0.00	0.00	0.00
1,800.00	5.00	200.00	1,795.90	-92.83	-33.79	37.01	0.00	0.00	0.00
1,900.00	5.00	200.00	1,895.52	-101.02	-36.77	40.27	0.00	0.00	0.00
2,000.00	5.00	200.00	1,995.14	-109.21	-39.75	43.54	0.00	0.00	0.00
2,072.14	5.00	200.00	2,067.00	-115.12	-41.90	45.89	0.00	0.00	0.00
Grayburg	0.00	200.00	2,001.00			.0.00	0.00	0.00	0.00
2,100.00	5.00	200.00	2,094.76	-117.40	-42.73	46.80	0.00	0.00	0.00
2,200.00	5.00	200.00	2,194.38	-125.59	-45.71	50.07	0.00	0.00	0.00
2,300.00	5.00	200.00	2,294.00	-133.78	-48.69	53.33	0.00	0.00	0.00
2,400.00 2,443.55	5.00 5.00	200.00 200.00	2,393.62	-141.97 -145.53	-51.67 -52.97	56.60 58.02	0.00	0.00	0.00
2,443.55 San Andres	5.00	200.00	2,437.00	-145.53	-52.97	58.02	0.00	0.00	0.00
2,500.00	5.00	200.00	2,493.23	-150.16	-54.65	59.86	0.00	0.00	0.00
2,600.00	5.00	200.00	2,592.85	-158.35	-57.63	63.13	0.00	0.00	0.00
2,700.00	5.00	200.00	2,692.47	-166.54	-60.61	66.39	0.00	0.00	0.00
2,800.00	5.00	200.00	2,792.09 2,891.71	-174.73	-63.60	69.65 72.92	0.00	0.00	0.00
2,900.00	5.00	200.00	2,891.71	-182.92 101.11	-66.58		0.00	0.00	0.00
3,000.00 3,100.00	5.00 5.00	200.00 200.00	2,991.33 3,090.95	-191.11 -199.30	-69.56 -72.54	76.18 79.45	0.00 0.00	0.00 0.00	0.00 0.00
3,100.00	5.00	200.00	3,090.95 3,190.57	-199.30 -207.49	-72.54 -75.52	79.45 82.71	0.00	0.00	0.00
3,300.00	5.00	200.00	3,290.19	-215.68	-78.50	85.98	0.00	0.00	0.00
3,400.00	5.00	200.00	3,389.81	-223.87	-81.48	89.24	0.00	0.00	0.00
3,502.00	5.00	200.00	3,491.42	-232.22	-84.52	92.57	0.00	0.00	0.00
	DLS 12.00 TFO 39								_
3,525.00	7.34	213.83	3,514.29	-234.38	-85.68	93.81	12.00	10.19	60.12

Planning Report



Site:

Well:

Database: Company: Project:

EDM_WA 3R Operating, LLC Eddy County, NM (NAD83) URSA 12 11 State Com URSA 12 11 State Com 101H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well URSA 12 11 State Com 101H GL 3717 + Est 25' KB @ 3742.00usft GL 3717 + Est 25' KB @ 3742.00usft

Grid

	Design		riaii i									
Depth Inclination Azimuth Cust1) Cust1) Cust1) Cust1 Cust1	Planne	ed Survey										
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3,800,000 15,94 228,09 3,887,89 -245,27 -96,04 104,94 12,00 11,70 10,73 3,625,00 18,89 229,96 3,611,89 -255,68 -1018,42 117,28 12,00 11,85 5,51 3,675,00 24,82 232,40 3,680,34 -255,58 -108,42 117,28 12,00 11,85 5,51 3,675,00 24,82 232,40 3,680,34 -255,68 -108,42 117,28 12,00 11,86 4,25 3,732,00 30,78 233,94 3,800,94 -258,68 -116,21 125,28 12,00 11,86 4,25 3,732,00 30,78 233,94 3,800,94 -258,68 -116,21 125,28 12,00 11,91 3,39 3,755,00 36,76 235,62 3,743,69 -291,85 144,57 1 155,52 12,00 11,94 2,33 3,755,00 36,75 235,62 3,743,69 -291,85 1-15,55 16,75 9 12,00 11,94 2,33 3,800,00 39,73 235,45 3,763,32 -300,67 -170,21 180,60 12,00 11,95 1,73 3,811,40 41,10 25,58 3 3,772,00 36,75 -170,21 180,60 12,00 11,95 1,73 3,811,40 41,10 25,58 3 3,772,00 36,75 -170,21 180,60 12,00 11,95 1,73 3,800,00 45,71 236,18 3,800,04 -319,72 -198,27 20,931 12,00 11,96 1,58 1,58 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50		3,575.00	13.01	225.41	3,563.49	-241.00	-91.48	99.83	12.00	11.53	16.76	
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3 700 00		3,650.00	21.85	231.33	3,634.98	-255.68	-108.42	117.28	12.00	11.85	5.51	
3,725,00 30,78 233,94 3,702,14 275,73 -134,88 144,43 12.00 11.92 2.78 3,750,00 33,76 234,52 3,723,28 -283,33 -148,71 155,52 12.00 11.94 2.33 3,375,00 33,76 234,54 3,763,32 -300,67 -170,21 180,60 12.00 11.95 1.73 3,800,00 39,73 234,54 3,763,32 -300,67 -170,21 180,60 12.00 11.95 1.73 3,811.40 41.10 235,63 3,772.00 -304,85 -176,31 186,84 12.00 11.96 1.58 3,811.40 41.10 235,63 3,772.00 -304,85 -176,31 186,84 12.00 11.96 1.58 3,850,00 42,72 235,84 3,782,12 -309,97 -183,81 194,52 12.00 11.96 1.49 3,850,00 45,71 236,18 3,800,04 -319,72 -198,27 209,31 12.00 11.96 1.49 3,850,00 45,71 236,18 3,800,04 -319,72 -198,27 209,31 12.00 11.96 1.37 3,875,00 48,71 236,48 3,817,02 -329,88 -241,54 224,92 12.00 11.97 1.23 3,950,00 57,68 237,27 3,861,90 -362,65 -286,79 276,28 12.00 11.97 1.12 3,950,00 57,68 237,27 3,861,90 -362,65 -283,79 276,28 12.00 11.97 0.96 4,000,00 63,67 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,866,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,863,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,864,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,865,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,865,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 66,7 237,00 3,865,88 -398,15 -319,73 333,43 12.00 11.98 0.85 4,025,00 68,00 238,28 3,914,25 422,22 281,87 294,76 12.00 11.98 0.85 4,025,00 68,00 238,28 3,914,25 422,22 3,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,025,00 23,934,33 3,935,90 4,035,00 23,934,33 3,935,90 4,035,00 23,934,33 3,935,90 4,035,00 23,934,33 3,935,90 4,035,00 23,934,33 3,935,90 4,035,00 3,934,33 3		3,675.00	24.82	232.40	3,657.93	-261.79	-116.21	125.28	12.00	11.88	4.25	
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3,811.40												
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4,800.00 91.31 250.74 3,923.02 -742.11 -1,006.01 1,031.30 2.00 0.00 2.00 4,900.00 91.31 252.74 3,920.73 -773.44 -1,100.95 1,127.27 2.00 0.00 2.00 5,000.00 91.31 254.74 3,918.45 -801.43 -1,196.92 1,224.16 2.00 0.00 2.00 5,100.00 91.31 256.74 3,916.17 -826.05 -1,293.81 1,321.85 2.00 0.00 2.00 5,200.00 91.30 258.74 3,913.89 -847.28 -1,391.50 1,420.22 2.00 0.00 2.00 5,300.00 91.30 260.74 3,911.62 -865.08 -1,489.87 1,519.15 2.00 -0.01 2.00 5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,902.66<												
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5,000.00 91.31 254.74 3,918.45 -801.43 -1,196.92 1,224.16 2.00 0.00 2.00 5,100.00 91.31 256.74 3,916.17 -826.05 -1,293.81 1,321.85 2.00 0.00 2.00 5,200.00 91.30 258.74 3,913.89 -847.28 -1,391.50 1,420.22 2.00 0.00 2.00 5,300.00 91.30 260.74 3,911.62 -865.08 -1,489.87 1,519.15 2.00 -0.01 2.00 5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.06 0.00 0.00 0.00 <td col<="" td=""><td></td><td>4,800.00</td><td>91.31</td><td>250.74</td><td>3,923.02</td><td>-742.11</td><td>-1,006.01</td><td>1,031.30</td><td>2.00</td><td>0.00</td><td>2.00</td></td>	<td></td> <td>4,800.00</td> <td>91.31</td> <td>250.74</td> <td>3,923.02</td> <td>-742.11</td> <td>-1,006.01</td> <td>1,031.30</td> <td>2.00</td> <td>0.00</td> <td>2.00</td>		4,800.00	91.31	250.74	3,923.02	-742.11	-1,006.01	1,031.30	2.00	0.00	2.00
5,000.00 91.31 254.74 3,918.45 -801.43 -1,196.92 1,224.16 2.00 0.00 2.00 5,100.00 91.31 256.74 3,916.17 -826.05 -1,293.81 1,321.85 2.00 0.00 2.00 5,200.00 91.30 258.74 3,913.89 -847.28 -1,391.50 1,420.22 2.00 0.00 2.00 5,300.00 91.30 260.74 3,911.62 -865.08 -1,489.87 1,519.15 2.00 -0.01 2.00 5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.06 0.00 0.00 0.00 <td col<="" td=""><td></td><td>4,900.00</td><td>91.31</td><td>252.74</td><td>3,920.73</td><td>-773.44</td><td>-1,100.95</td><td>1,127.27</td><td>2.00</td><td>0.00</td><td>2.00</td></td>	<td></td> <td>4,900.00</td> <td>91.31</td> <td>252.74</td> <td>3,920.73</td> <td>-773.44</td> <td>-1,100.95</td> <td>1,127.27</td> <td>2.00</td> <td>0.00</td> <td>2.00</td>		4,900.00	91.31	252.74	3,920.73	-773.44	-1,100.95	1,127.27	2.00	0.00	2.00
5,200.00 91.30 258.74 3,913.89 -847.28 -1,391.50 1,420.22 2.00 0.00 2.00 5,300.00 91.30 260.74 3,911.62 -865.08 -1,489.87 1,519.15 2.00 -0.01 2.00 5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 <td></td> <td>5,000.00</td> <td>91.31</td> <td>254.74</td> <td></td> <td>-801.43</td> <td>-1,196.92</td> <td>1,224.16</td> <td>2.00</td> <td>0.00</td> <td>2.00</td>		5,000.00	91.31	254.74		-801.43	-1,196.92	1,224.16	2.00	0.00	2.00	
5,300.00 91.30 260.74 3,911.62 -865.08 -1,489.87 1,519.15 2.00 -0.01 2.00 5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00												
5,400.00 91.29 262.74 3,909.36 -879.44 -1,588.80 1,618.52 2.00 -0.01 2.00 5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00												
5,500.00 91.28 264.74 3,907.11 -890.34 -1,688.17 1,718.22 2.00 -0.01 2.00 5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00		5,300.00	91.30	260.74	3,911.62	-865.08	-1,489.87	1,519.15	2.00	-0.01	2.00	
5,600.00 91.27 266.74 3,904.88 -897.76 -1,787.87 1,818.11 2.00 -0.01 2.00 5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00		5,400.00	91.29	262.74	3,909.36	-879.44	-1,588.80	1,618.52	2.00	-0.01	2.00	
5,662.93 91.27 268.00 3,903.48 -900.65 -1,850.71 1,881.02 2.00 -0.01 2.00 End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00		5,500.00	91.28	264.74	3,907.11	-890.34	-1,688.17	1,718.22	2.00	-0.01	2.00	
End of Turn at 5662.93 MD 5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00			91.27						2.00			
5,700.00 91.27 268.00 3,902.66 -901.94 -1,887.75 1,918.08 0.00 0.00 0.00 5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00				268.00	3,903.48	-900.65	-1,850.71	1,881.02	2.00	-0.01	2.00	
5,800.00 91.27 268.00 3,900.45 -905.42 -1,987.67 2,018.06 0.00 0.00 0.00 5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00												
5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00		5,700.00	91.27	268.00	3,902.66	-901.94	-1,887.75	1,918.08	0.00	0.00	0.00	
5,900.00 91.27 268.00 3,898.24 -908.91 -2,087.58 2,118.03 0.00 0.00 0.00		5,800.00	91.27	268.00	3,900.45	-905.42	-1,987.67	2,018.06	0.00	0.00	0.00	
0,000,000 \$1.21 \dagger 20.00 3,080.03 -\dagger 412.40 -\dagger 2,101.30 \dagger 2,218.01 \dagger 0.00 \dagger 0.00		6,000.00	91.27	268.00	3,896.03	-912.40	-2,187.50	2,218.01	0.00	0.00	0.00	
6,100.00 91.27 268.00 3,893.82 -915.88 -2,287.41 2,317.98 0.00 0.00 0.00		6,100.00		268.00	3,893.82	-915.88	-2,287.41		0.00	0.00	0.00	





Database: EDM_WA
Company: 3R Operating, LLC

 Project:
 Eddy County, NM (NAD83)

 Site:
 URSA 12 11 State Com

 Well:
 URSA 12 11 State Com 101H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well URSA 12 11 State Com 101H GL 3717 + Est 25' KB @ 3742.00usft GL 3717 + Est 25' KB @ 3742.00usft

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)
6,200.00	91.27	268.00	3,891.61	-919.37	-2,387.33	2,417.96	0.00	0.00	0.00
6,300.00	91.27	268.00	3,889.40	-922.85	-2,487.24	2,517.93	0.00	0.00	0.00
6,400.00	91.27	268.00	3,887.19	-926.34	-2,587.16	2,617.91	0.00	0.00	0.00
6,500.00	91.27	268.00	3,884.98	-929.83	-2,687.07	2,717.89	0.00	0.00	0.00
6,600.00	91.27	268.00	3,882.77	-933.31	-2,786.99	2,817.86	0.00	0.00	0.00
6,700.00	91.27	268.00	3,880.56	-936.80	-2,886.90	2,917.84	0.00	0.00	0.00
6,800.00	91.27	268.00	3,878.34	-940.29	-2,986.82	3,017.81	0.00	0.00	0.00
6,900.00	91.27	268.00	3,876.13	-943.77	-3,086.73	3,117.79	0.00	0.00	0.00
7,000.00	91.27	268.00	3,873.92	-947.26	-3,186.65	3,217.76	0.00	0.00	0.00
7,100.00	91.27	268.00	3,871.71	-950.74	-3,286.56	3,317.74	0.00	0.00	0.00
7,200.00	91.27	268.00	3,869.50	-954.23	-3,386.47	3,417.71	0.00	0.00	0.00
7,300.00	91.27	268.00	3,867.29	-957.72	-3,486.39	3,517.69	0.00	0.00	0.00
7,400.00	91.27	268.00	3,865.08	-961.20	-3,586.30	3,617.67	0.00	0.00	0.00
7,500.00	91.27	268.00	3,862.87	-964.69	-3,686.22	3,717.64	0.00	0.00	0.00
7,600.00	91.27	268.00	3,860.66	-968.17	-3,786.13	3,817.62	0.00	0.00	0.00
7,700.00	91.27	268.00	3,858.45	-971.66	-3,886.05	3,917.59	0.00	0.00	0.00
7,800.00	91.27	268.00	3,856.24	-975.15	-3,985.96	4,017.57	0.00	0.00	0.00
7,900.00	91.27	268.00	3,854.03	-978.63	-4,085.88	4,117.54	0.00	0.00	0.00
8,000.00	91.27	268.00	3,851.81	-982.12	-4,185.79	4,217.52	0.00	0.00	0.00
8,100.00	91.27	268.00	3,849.60	-985.60	-4,285.71	4,317.49	0.00	0.00	0.00
8,200.00	91.27	268.00	3,847.39	-989.09	-4,385.62	4,417.47	0.00	0.00	0.00
8,300.00	91.27	268.00	3,845.18	-992.58	-4,485.54	4,517.45	0.00	0.00	0.00
8,400.00	91.27	268.00	3,842.97	-996.06	-4,585.45	4,617.42	0.00	0.00	0.00
8,500.00	91.27	268.00	3,840.76	-999.55	-4,685.37	4,717.40	0.00	0.00	0.00
8,600.00	91.27	268.00	3,838.55	-1,003.03	-4,785.28	4,817.37	0.00	0.00	0.00
8,700.00	91.27	268.00	3,836.34	-1,006.52	-4,885.20	4,917.35	0.00	0.00	0.00
8,800.00	91.27	268.00	3,834.13	-1,010.01	-4,985.11	5,017.32	0.00	0.00	0.00
8,900.00	91.27	268.00	3,831.92			5,017.32	0.00	0.00	0.00
9,000.00	91.27	268.00	3,829.71	-1,013.49	-5,085.03 5 184 04		0.00	0.00	
9,100.00	91.27	268.00	3,827.50	-1,016.98	-5,184.94	5,217.27	0.00	0.00	0.00 0.00
	91.27	268.00	3,825.28	-1,020.46	-5,284.86 5,284.77	5,317.25			
9,200.00				-1,023.95	-5,384.77	5,417.23	0.00	0.00	0.00
9,300.00	91.27	268.00	3,823.07	-1,027.44	-5,484.68	5,517.20	0.00	0.00	0.00
9,400.00	91.27	268.00	3,820.86	-1,030.92	-5,584.60	5,617.18	0.00	0.00	0.00
9,500.00	91.27	268.00	3,818.65	-1,034.41	-5,684.51	5,717.15	0.00	0.00	0.00
9,600.00	91.27	268.00	3,816.44	-1,037.89	-5,784.43	5,817.13	0.00	0.00	0.00
9,700.00	91.27	268.00	3,814.23	-1,041.38	-5,884.34	5,917.10	0.00	0.00	0.00
9,800.00	91.27	268.00	3,812.02	-1,044.87	-5,984.26	6,017.08	0.00	0.00	0.00
9,900.00	91.27	268.00	3,809.81	-1,048.35	-6,084.17	6,117.05	0.00	0.00	0.00
10,000.00	91.27	268.00	3,807.60	-1,051.84	-6,184.09	6,217.03	0.00	0.00	0.00
10,100.00	91.27	268.00	3,805.39	-1,055.32	-6,284.00	6,317.01	0.00	0.00	0.00
10,200.00	91.27	268.00	3,803.18	-1,058.81	-6,383.92	6,416.98	0.00	0.00	0.00
10,300.00	91.27	268.00	3,800.96	-1,062.30	-6,483.83	6,516.96	0.00	0.00	0.00
10,400.00	91.27	268.00	3,798.75	-1,065.78	-6,583.75	6,616.93	0.00	0.00	0.00
10,500.00	91.27	268.00	3,796.54	-1,069.27	-6,683.66	6,716.91	0.00	0.00	0.00
10,600.00	91.27	268.00	3,794.33	-1,072.75	-6,783.58	6,816.88	0.00	0.00	0.00
10,700.00	91.27	268.00	3,792.12	-1,076.24	-6,883.49	6,916.86	0.00	0.00	0.00
10,800.00	91.27	268.00	3,789.91	-1,079.73	-6,983.41	7,016.83	0.00	0.00	0.00
10,900.00	91.27	268.00	3,787.70	-1,083.21	-7,083.32	7,116.81	0.00	0.00	0.00
11,000.00	91.27	268.00	3,785.49	-1,086.70	-7,183.24	7,116.31	0.00	0.00	0.00
11,100.00	91.27	268.00	3,783.28	-1,080.70	-7,103.2 4 -7,283.15	7,210.79	0.00	0.00	0.00
11,157.80	91.27	268.00	3,782.00	-1,090.19	-7,340.90	7,374.55	0.00	0.00	0.00
LTP/BHL at		200.00	5,102.00	1,002.20	1,040.00	1,01-1.00	0.00	0.00	0.00



Planning Report

 Database:
 EDM_WA

 Company:
 3R Operating, LLC

 Project:
 Eddy County, NM (NAD83)

 Site:
 URSA 12 11 State Com

 Well:
 URSA 12 11 State Com 101H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well URSA 12 11 State Com 101H GL 3717 + Est 25' KB @ 3742.00usft GL 3717 + Est 25' KB @ 3742.00usft

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
KOP URSA 12 11 State - plan misses target - Point	0.00 center by 901	0.00 .16usft at 0.0	0.00 00usft MD (0	-824.90 .00 TVD, 0.00	362.80 N, 0.00 E)	674,521.10	606,388.70	32.854103	-104.121496
LTP/BHL URSA 12 11 St - plan hits target cer - Point	0.00 iter	0.00	3,782.00	-1,092.20	-7,340.90	674,253.80	598,685.00	32.853408	-104.146584
FTP URSA 12 11 State (- plan misses target - Point	0.00 center by 734	0.00 .71usft at 38	3,952.00 50.00usft MI	-825.20 D (3800.04 TV	312.80 /D, -319.72 N,	674,520.80 -198.27 E)	606,338.70	32.854102	-104.121659

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	712.11	712.00	Tansill				
	837.44	837.00	Yates				
	1,068.32	1,067.00	Seven Rivers				
	1,625.44	1,622.00	Queen				
	2,072.14	2,067.00	Grayburg				
	2,443.55	2,437.00	San Andres				
	3,811.40	3,772.00	Glorieta (Yeso Group)				

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
500.00	500.00	0.00	0.00	Start Nudge Build 1.50
833.33	832.91	-13.66	-4.97	5° at 833.33 MD
3,502.00	3,491.42	-232.22	-84.52	KOP Start DLS 12.00 TFO 39.38
4,230.36	3,935.87	-502.20	-490.55	LP 91.27° Start DLS 2.00 TFO 89.68
5,662.93	3,903.48	-900.65	-1,850.71	End of Turn at 5662.93 MD
11,157.80	3,782.00	-1,092.20	-7,340.90	LTP/BHL at 11157.80

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

rating LLC		OGRID: _3	31569	Date:	09 / 2	22 / 25
☐ Amendme	nt due to □ 19.15.2	27.9.D(6)(a) NM	IAC □ 19.15.27.9.	D(6)(b) NMAC	☐ Other	r.
:						
				f wells proposed	to be d	rilled or proposed
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated oduced Water BBL/D
e: Provide the ted from a sin	following informating gle well pad or con-	tion for each new	v or recompleted wat delivery point.	vell or set of wells	s propos	
API	Spud Date	TD Reached Date				First Production Date
tices: Attaction of 19.15.27.8	h a complete descr NMAC. Attach a complet	ription of the ac	tions Operator will	l take to comply	with th	ne requirements of
	he following is a single well point Name: De: Provide the eted from a sin API API API API API API API API	Amendment due to □ 19.15.2 :: the following information for each a single well pad or connected to API ULSTR Oint Name: Ursa 12 11 Producted from a single well pad or constead from a single well pad or constant the provide the following information of the provide the following information as single well pad or constant the provide the following information as single well pad or constant the provided from a single well pad or constant the provided from	API ULSTR Footages Count Name: Ursa 12 11 Production Facility Cou	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 a single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Toint Name: Ursa 12 11 Production Facility The Provide the following information for each new or recompleted well of the form a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Date Commencement The Attach a complete description of how Operator will size septices: Attach a complete description of the actions Operator will of 19.15.27.8 NMAC. The Practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices: Attach a complete description of Operator's best in the practices of the practices o	API Ursa 12 11 Production Facility See 1	□ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other the following information for each new or recompleted well or set of wells proposed to be does a single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D Proposed to be does not be a single well pad or connected to a central delivery point. Initial Flow Back Date TD Reached Completion Commencement Date Back Date Completed 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 Back Date Completion Commencement Date Back Date Completion Commencement Date Back Date Back Date States Attach a complete description of how Operator will size separation equipment to opt the states of Attach a complete description of the actions Operator will take to comply with the for 19.15.27.8 NMAC. At Practices: ✓ Attach a complete description 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 [\square will \square will not have ca	apacity to gather 100% of t	he anticipated natural gas
production volume from the well prior to the date of first	t production.		

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	y the new wo	ell(s).

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	Attach (Inerator	ี่ เกไวท	to manage	nradiiction	in rechance	to the incr	eaced line nre	CCIITA

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

Section 3 - Certifications <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) other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

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

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

Signature: Austin Tramell					
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.(l) 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.