<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101 August 1, 2011

Permit 364030

Operator Name and Address	2. OGRID Number	
MR NM Operating LLC	330506	
5950 Berkshire Lane	3. API Number	
Dallas, TX 75225	30-015-55550	

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

Dallas, TX 75225 4. Property Code 5. Property Name 6. Well No. 333215 Sheep Dog State Com 002H

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	11	17S	27E		2240	S	299	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Н	11	17S	27E	Н	2416	N	100	E	Eddv

9. Pool Information

97450 HART CANYON; ABO

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3406	
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date	
N	11765	Abo		6/1/2024	
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

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1300	431	0
Prod	8.75	5.5	20	11765	1788	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

	==:::p::::::::::::::::::::::::::::::::								
Туре	Working Pressure	essure Test Pressure Manufacturer							
Double Ram	3000	3000	TBD						

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☑ and/or 19.15.14.9 (B) NMAC ☑, if applicable. Signature:				OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Ben T Barr		Approved By:	Ward Rikala		
Title:	Vice President		Title:	Petroleum Specialist Supervisor		
Email Address: ben@cypressnr.com			Approved Date:	10/23/2024	Expiration Date: 10/23/2026	
Date:	4/19/2024	Phone: 469-906-2004	Conditions of App	roval Attached		

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate **District Office**

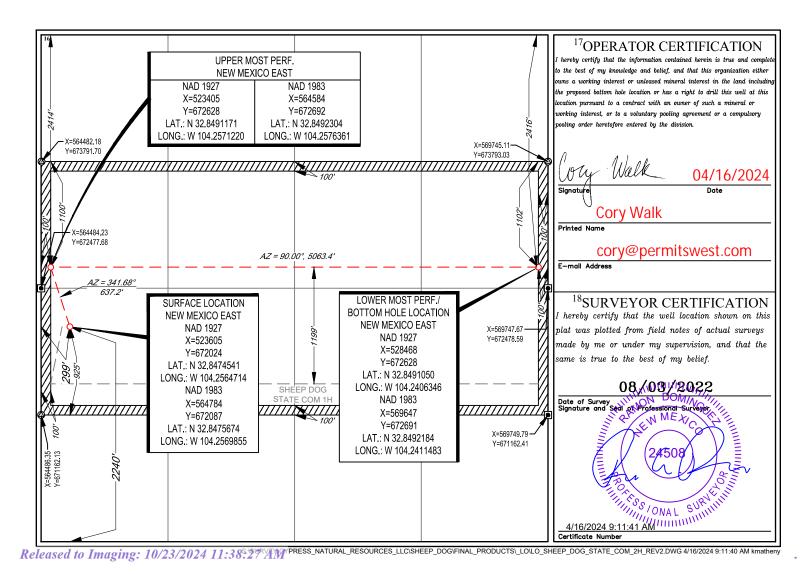
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Number 30-015-55550		² Pool Code 97450	³ Pool Name HART CANYON; ABO	0				
1	⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number				
	333215		SHEEP DO	OG STATE COM	2H				
	⁷ OGRID №.		⁸ O _I	perator Name	⁹ Elevation				
	330506		MR NM O	PERATING LLC	3406'				
	¹⁰ Surface Location								

UL or lot no.	Section Township 11 17-S 2				1 -								Range 27-E	Lot Idn —	Feet from the 2240'	North/South line SOUTH	Feet from the 299'	East/West line WEST	County EDDY
11Botton					le Location If D	Different From Su	rface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County										
H	11	17-S	27-E	-	2416'	NORTH	100'	EAST	EDDY										
12Dedicated Acres	¹³ Joint or I	nfill 14Co	nsolidation Co	de ¹⁵ Ord	er No.														
320.00																			

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



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

Form APD Conditions

Permit 364030

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MR NM Operating LLC [330506]	30-015-55550
5950 Berkshire Lane	Well:
Dallas, TX 75225	Sheep Dog State Com #002H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and production strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Map System: US State Plane 1983

Zone Name: New Mexico Eastern Zone

Ellipsoid: GRS 1980

Latitude: 32.84756828

Longitude: -104.25698590

Grid East: 564784.00

Grid North: 672087.00

Sample Date: 10-Apr-24

Scale Factor: 1.000

Geomagnetic Model: IGRF2020

Magnetic Declination: 6.58°

Datum: North American Datum 1983

Mr NM Operating LLC

Well Name: Sheep Dog State 2H Project: Eddy County, NM Wellbore: Wellbore #1 Plan: Prelim Plan #1

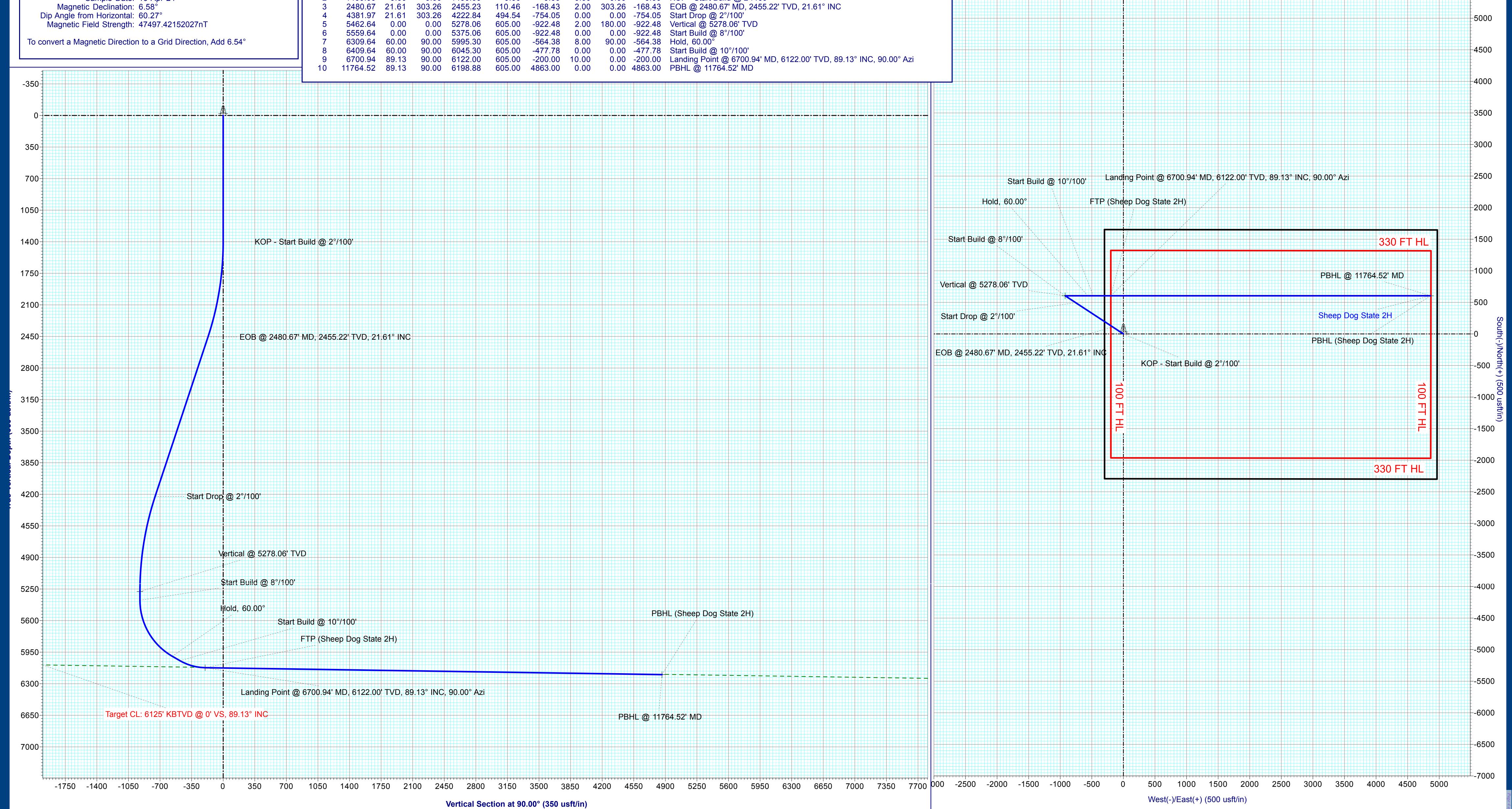
SURFACE LOCATION **Ground Elevation:** 3406.00 KB @ 3426.00usft Easting Latittude Longitude -104.25698590 Northing 672087.00 564784.00 32.84756828

TARGET LOCATIONS +N/-S +E/-W Northing 672692.00 Easting VP (Sheep Dog State 2H)
FTP (Sheep Dog State 2H)
PBHL (Sheep Dog State 2H) -922.48 -200.00 605.00 563861.52 5278.06 6122.00 605.00 672692.00 564584.00 569647.00 6198.88 604.00 4863.00 672691.00

Azimuths to Grid North True North: -0.04 Magnetic North: 6.54 Magnetic Field Strength: 47497.4nT Dip Angle: 60.27° Date: 4/10/2024 Model: IGRF2020

Well Planning: Jerry Howard 17:00, April 10 2024

SECTION DETAILS: VSect Annotation 0.00 0.00 KOP - Start Build @ 2°/100'





Mr NM Operating LLC

Eddy County, NM Sheep Dog State Sheep Dog State 2H

Wellbore #1

Plan: Prelim Plan #1

Standard Planning Report - Geographic

10 April, 2024



Map Zone:

Planning Report - Geographic

Database: EDM 5000.15 Single User Db Company: Mr NM Operating LLC Project: Eddy County, NM Site: Sheep Dog State Well: Sheep Dog State 2H Wellbore: Wellbore #1

Prelim Plan #1

New Mexico Eastern Zone

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Sheep Dog State 2H KB @ 3426.00usft KB @ 3426.00usft Grid

Minimum Curvature

Project Eddy County, NM

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

System Datum: Mean Sea Level

Site Sheep Dog State

Northing: 672,087.00 usft Site Position: Latitude: 32.84756828 -104.25698591 564,784.00 usft Мар Easting: From: Longitude: 0.00 usft Position Uncertainty: Slot Radius: 13-3/16 " 0.04 **Grid Convergence:**

Well Sheep Dog State 2H **Well Position** +N/-S 0.00 usft Northing: 672,087.00 usft Latitude: 32.84756828 +E/-W 0.00 usft Easting: 564,784.00 usft Longitude: -104.25698591 Ground Level: **Position Uncertainty** 0.00 usft Wellhead Elevation: 3,406.00 usft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 4/10/2024 6.58 60.27 47,497.42152028

Prelim Plan #1 Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 90.00

Plan Survey Tool Program Date 4/10/2024

Depth From (usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 11,764.52 Prelim Plan #1 (Wellbore #1) MWD+IGRF

OWSG MWD + IGRF or WMM



Planning Report - Geographic

Database: EDM 5000.15 Single User Db
Company: Mr NM Operating LLC
Project: Eddy County, NM
Site: Sheep Dog State

Well: Sheep Dog State 2H
Wellbore: Wellbore #1
Design: Prelim Plan #1

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

North Reference: Survey Calculation Method: Well Sheep Dog State 2H

KB @ 3426.00usft KB @ 3426.00usft

Grid

Minimum Curvature

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.01	1,400.00	0.00	0.00	0.00	0.00	0.00	0.01	
2,480.67	21.61	303.26	2,455.23	110.46	-168.43	2.00	2.00	0.00	303.26	
4,381.97	21.61	303.26	4,222.84	494.54	-754.05	0.00	0.00	0.00	0.00	
5,462.64	0.00	0.00	5,278.06	605.00	-922.48	2.00	-2.00	0.00	180.00	VP (Sheep Dog State
5,559.64	0.00	0.00	5,375.06	605.00	-922.48	0.00	0.00	0.00	0.00	
6,309.64	60.00	90.00	5,995.30	605.00	-564.38	8.00	8.00	0.00	90.00	
6,409.64	60.00	90.00	6,045.30	605.00	-477.78	0.00	0.00	0.00	0.00	
6,700.94	89.13	90.00	6,122.00	605.00	-200.00	10.00	10.00	0.00	0.00	FTP (Sheep Dog Stat
11,764.52	89.13	90.00	6,198.88	605.00	4,863.00	0.00	0.00	0.00	0.00	PBHL (Sheep Dog Sta



Planning Report - Geographic

Local Co-ordinate Reference:

Database: EDM 5000.15 Single User Db
Company: Mr NM Operating LLC
Project: Eddy County, NM
Site: Sheep Dog State
Well: Sheep Dog State 2H
Wellbore: Wellbore #1

Prelim Plan #1

Mr NM Operating LLC
Eddy County, NM
MD Reference:
Sheep Dog State
Sheep Dog State Survey Calculation Method:
Wellbore #1

Well Sheep Dog State 2H KB @ 3426.00usft KB @ 3426.00usft Grid Minimum Curvature

Design.		II F IaII # I							
Planned Survey									
r iaiiioa cai voj									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.00							504 704 00		
0.00	0.00	0.00	0.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
100.00	0.00	0.00	100.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
200.00	0.00	0.00	200.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
300.00	0.00	0.00	300.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
400.00	0.00	0.00	400.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
500.00	0.00	0.00	500.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
600.00	0.00	0.00	600.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
700.00	0.00	0.00	700.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
800.00	0.00	0.00	800.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
900.00	0.00	0.00	900.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
1,000.00	0.00	0.00	1,000.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
1,100.00	0.00	0.00	1,100.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
1,200.00	0.00	0.00	1,200.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
1,300.00	0.00	0.00	1,300.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
1,400.00	0.00	0.00	1,400.00	0.00	0.00	672,087.00	564,784.00	32.84756828	-104.25698591
KOP - St	art Build @ 2°	²/100 '							
1,500.00	2.00	303.26	1,499.98	0.96	-1.46	672,087.95	564,782.54	32.84757091	-104.25699066
1,600.00	4.00	303.26	1,599.84	3.83	-5.84	672,090.82	564,778.17	32.84757881	-104.25700490
1,700.00	6.00	303.26	1,699.45	8.61	-13.12	672,095.60	564,770.88	32.84759196	-104.25702862
1,800.00	8.00	303.26	1,798.70	15.29	-23.31	672,102.28	564,760.69	32.84761035	-104.25706178
1,900.00	10.00	303.26	1,897.47	23.87	-36.39	672,110.86	564,747.61	32.84763396	-104.25710436
2,000.00	12.00	303.26	1,995.62	34.33	-52.35	672,121.33	564,731.65	32.84766275	-104.25715629
2,100.00	14.00	303.26	2,093.06	46.67	-71.16	672,133.66	564,712.84	32.84769670	-104.25721751
2,200.00	16.00	303.26	2,189.64	60.86	-92.80	672,147.86	564,691.20	32.84773575	-104.25728794
2,300.00	18.00	303.26	2,285.27	76.90	-117.25	672,163.89	564,666.76	32.84777987	-104.25736751
2,400.00	20.00	303.26	2,379.82	94.75	-144.47	672,181.74	564,639.53	32.84782900	-104.25745611
2,480.67	21.61	303.26	2,455.23	110.46	-168.43	672,197.46	564,615.57	32.84787224	-104.25753410
EOB @ 2	2480.67' MD, 2	455.22' TVD,	21.61° INC						
2,500.00	21.61	303.26	2,473.19	114.37	-174.38	672,201.36	564,609.62	32.84788298	-104.25755348
2,600.00	21.61	303.26	2,566.16	134.57	-205.19	672,221.56	564,578.82	32.84793857	-104.25765372
2,700.00	21.61	303.26	2,659.13	154.77	-235.99	672,241.76	564,548.02	32.84799415	-104.25775397
2,800.00	21.61	303.26	2,752.10	174.97	-266.79	672,261.96	564,517.22	32.84804973	-104.25785422
2,900.00	21.61	303.26	2,845.07	195.17	-297.59	672,282.17	564,486.41	32.84810532	-104.25795447
3,000.00	21.61	303.26	2,938.04	215.37	-328.39	672,302.37	564,455.61	32.84816090	-104.25805472
3,100.00	21.61	303.26	3,031.01	235.57	-359.19	672,322.57	564,424.81	32.84821649	-104.25815497
3,200.00	21.61	303.26	3,123.98	255.77	-389.99	672,342.77	564,394.01	32.84827207	-104.25825522
3,300.00	21.61	303.26	3,216.95	275.97	-420.79	672,362.97	564,363.21	32.84832766	-104.25835547
3,400.00	21.61	303.26	3,309.91	296.17	-451.59	672,383.17	564,332.41	32.84838324	-104.25845572
3,500.00	21.61	303.26	3,402.88	316.37	-482.39	672,403.37	564,301.61	32.84843882	-104.25855597
3,600.00	21.61	303.26	3,495.85	336.57	-513.20	672,423.57	564,270.81	32.84849441	-104.25865622
3,700.00	21.61	303.26	3,588.82	356.77	-544.00	672,443.77	564,240.01	32.84854999	-104.25875647
3,800.00	21.61	303.26	3,681.79	376.98	-574.80	672,463.97	564,209.21	32.84860557	-104.25885672
3,900.00	21.61	303.26	3,774.76	397.18	-605.60	672,484.17	564,178.40	32.84866116	-104.25895697
4,000.00	21.61	303.26	3,867.73	417.38	-636.40	672,504.37	564,147.60	32.84871674	-104.25905722
4,100.00	21.61	303.26	3,960.70	437.58	-667.20	672,524.57	564,116.80	32.84877232	-104.25915747
4,200.00	21.61	303.26	4,053.67	457.78	-698.00	672,544.77	564,086.00	32.84882791	-104.25925772
4,300.00	21.61	303.26	4,146.64	477.98	-728.80	672,564.97	564,055.20	32.84888349	-104.25935797
4,381.97	21.61	303.26	4,222.84	494.54	-754.05	672,581.53	564,029.95	32.84892905	-104.25944014
	p @ 2°/100'								
4,400.00	21.25	303.26	4,239.62	498.15	-759.56	672,585.14	564,024.44	32.84893899	-104.25945808
4,500.00	19.25	303.26	4,333.44	517.13	-788.50	672,604.13	563,995.50	32.84899123	-104.25955229
4,600.00	17.25	303.26	4,428.40	534.31	-814.69	672,621.30	563,969.31	32.84903849	-104.25963753
4,700.00	15.25	303.26	4,524.40	549.66	-838.10	672,636.65	563,945.91	32.84908072	-104.25971370
4,800.00	13.25	303.26	4,621.32	563.16	-858.68	672,650.15	563,925.32	32.84911787	-104.25978070
,,,,,,,,,	0		, . =			- /	,		=



Planning Report - Geographic

Database: EDM 5000.15 Single User Db
Company: Mr NM Operating LLC
Project: Eddy County, NM
Site: Sheep Dog State
Well: Sheep Dog State 2H

Wellbore: Wellbore #1

Design: Prelim Plan #1

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

Survey Calculation Method:

Well Sheep Dog State 2H KB @ 3426.00usft

KB @ 3426.00usft Grid

Minimum Curvature

Pla	anned Survey									
	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
	4,900.00	11.25	303.26	4,719.03	574.80	-876.43	672,661.79	563,907.57	32.84914989	-104.25983846
	5,000.00	9.25	303.26	4,817.43	584.56	-891.31	672,671.55	563,892.69	32.84917675	-104.25988690
	5,100.00	7.25	303.26	4,916.39	592.43	-903.31	672,679.42	563,880.69	32.84919841	-104.25992597
	5,200.00	5.25	303.26	5,015.79	598.40	-912.42	672,685.40	563,871.58	32.84921484	-104.25995561
	5,300.00	3.25	303.26	5,115.51	602.47	-918.62	672,689.46	563,865.38	32.84922603	-104.25997579
	5,400.00	1.25	303.26	5,215.43	604.62	-921.91	672,691.62	563,862.09	32.84923197	-104.25998649
	5,462.64	0.00	0.00	5,278.06	605.00	-922.48	672,692.00	563,861.52	32.84923300	-104.25998835
		•	•	p Dog State 2H						
	5,500.00	0.00	0.00	5,315.42	605.00	-922.48	672,692.00	563,861.52	32.84923300	-104.25998835
١.,	5,559.64	0.00	0.00	5,375.06	605.00	-922.48	672,692.00	563,861.52	32.84923300	-104.25998835
		Id @ 8°/100'								
	5,600.00	3.23	90.00	5,415.40	605.00	-921.34	672,692.00	563,862.66	32.84923300	-104.25998465
	5,700.00	11.23	90.00	5,514.53	605.00	-908.77	672,692.00	563,875.23	32.84923297	-104.25994371
	5,800.00	19.23	90.00	5,610.94	605.00	-882.52	672,692.00	563,901.48	32.84923292	-104.25985824
	5,900.00	27.23	90.00	5,702.76	605.00	-843.11	672,692.00	563,940.89	32.84923285	-104.25972991
	6,000.00	35.23 43.23	90.00 90.00	5,788.20	605.00 605.00	-791.31 -728.12	672,692.00	563,992.69	32.84923275	-104.25956122
	6,100.00 6,200.00	43.23 51.23	90.00	5,865.60 5,933.45	605.00	-726.12 -654.77	672,692.00 672,692.00	564,055.88 564,129.23	32.84923263 32.84923248	-104.25935546 -104.25911661
	6,300.00	59.23	90.00	5,933.43	605.00	-034.77 -572.69	672,692.00	564,211.31	32.84923233	-104.25884934
	6,309.64	60.00	90.00	5,995.30	605.00	-564.38	672,692.00	564,219.62	32.84923231	-104.25882228
	Hold, 60.		30.00	3,995.50	003.00	-304.30	072,032.00	304,213.02	32.04323231	-104.23002220
	6,400.00	60.00	90.00	6,040.49	605.00	-486.12	672,692.00	564,297.88	32.84923216	-104.25856745
	6,409.64	60.00	90.00	6,045.30	605.00	-477.78	672,692.00	564,306.22	32.84923214	-104.25854027
		ld @ 10°/100'	00.00	0,010.00	000.00	117.10	072,002.00	001,000.22	02.01020211	101.20001027
	6,500.00	69.04	90.00	6,084.14	605.00	-396.29	672,692.00	564,387.71	32.84923198	-104.25827492
	6,600.00	79.04	90.00	6,111.61	605.00	-300.27	672,692.00	564,483.73	32.84923179	-104.25796225
	6,700.00	89.04	90.00	6,121.99	605.00	-200.94	672,692.00	564,583.07	32.84923160	-104.25763879
	6,700.94	89.13	90.00	6,122.00	605.00	-200.00	672,692.00	564,584.00	32.84923160	-104.25763574
			.94' MD. 6122				ep Dog State 2H)			
	6,800.00	89.13	90.00	6,123.50	605.00	-100.95	672,692.00	564,683.06	32.84923140	-104.25731320
	6,900.00	89.13	90.00	6,125.02	605.00	-0.96	672,692.00	564,783.04	32.84923120	-104.25698760
	7,000.00	89.13	90.00	6,126.54	605.00	99.03	672,692.00	564,883.03	32.84923100	-104.25666201
	7,100.00	89.13	90.00	6,128.06	605.00	199.02	672,692.00	564,983.02	32.84923080	-104.25633642
	7,200.00	89.13	90.00	6,129.58	605.00	299.01	672,692.00	565,083.01	32.84923060	-104.25601083
	7,300.00	89.13	90.00	6,131.10	605.00	399.00	672,692.00	565,183.00	32.84923040	-104.25568524
	7,400.00	89.13	90.00	6,132.61	605.00	498.98	672,692.00	565,282.99	32.84923020	-104.25535964
	7,500.00	89.13	90.00	6,134.13	605.00	598.97	672,692.00	565,382.97	32.84923000	-104.25503405
	7,600.00	89.13	90.00	6,135.65	605.00	698.96	672,692.00	565,482.96	32.84922979	-104.25470846
	7,700.00	89.13	90.00	6,137.17	605.00	798.95	672,692.00	565,582.95	32.84922959	-104.25438287
	7,800.00	89.13	90.00	6,138.69	605.00	898.94	672,692.00	565,682.94	32.84922938	-104.25405727
	7,900.00	89.13	90.00	6,140.21	605.00	998.93	672,692.00	565,782.93	32.84922918	-104.25373168
	8,000.00	89.13	90.00	6,141.72	605.00	1,098.91	672,692.00	565,882.92	32.84922897	-104.25340609
	8,100.00	89.13	90.00	6,143.24 6.144.76	605.00	1,198.90	672,692.00	565,982.91	32.84922876	-104.25308050 -104.25275490
	8,200.00 8,300.00	89.13 89.13	90.00 90.00	6,144.76 6,146.28	605.00 605.00	1,298.89 1,398.88	672,692.00 672,692.00	566,082.89 566,182.88	32.84922855 32.84922834	-104.25242931
	8,400.00	89.13	90.00	6,146.26 6,147.80	605.00	1,498.87	672,692.00	566,282.87	32.84922813	-104.25242931
	8,500.00	89.13	90.00	6,149.32	605.00	1,498.86	672,692.00	566,382.86	32.84922792	-104.25177813
	8,600.00	89.13	90.00	6,150.84	605.00	1,698.85	672,692.00	566,482.85	32.84922770	-104.25145254
	8,700.00	89.13	90.00	6,152.35	605.00	1,798.83	672,692.00	566,582.84	32.84922749	-104.25112694
	8,800.00	89.13	90.00	6,153.87	605.00	1,898.82	672,692.00	566,682.83	32.84922728	-104.25080135
	8,900.00	89.13	90.00	6,155.39	605.00	1,998.81	672,692.00	566,782.81	32.84922706	-104.25047576
	9,000.00	89.13	90.00	6,156.91	605.00	2,098.80	672,692.00	566,882.80	32.84922685	-104.25015017
	9,100.00	89.13	90.00	6,158.43	605.00	2,198.79	672,692.00	566,982.79	32.84922663	-104.24982457
	9,200.00	89.13	90.00	6,159.95	605.00	2,298.78	672,692.00	567,082.78	32.84922641	-104.24949898



Planning Report - Geographic

Database: EDM 5000.15 Single User Db
Company: Mr NM Operating LLC
Project: Eddy County, NM
Site: Sheep Dog State
Well: Sheep Dog State 2H
Wellbore: Wellbore #1

Prelim Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Sheep Dog State 2H KB @ 3426.00usft KB @ 3426.00usft Grid Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,300.00	89.13	90.00	6,161.46	605.00	2,398.76	672,692.00	567,182.77	32.84922619	-104.24917339
9,400.00	89.13	90.00	6,162.98	605.00	2,498.75	672,692.00	567,282.76	32.84922597	-104.24884780
9,500.00	89.13	90.00	6,164.50	605.00	2,598.74	672,692.00	567,382.74	32.84922575	-104.24852221
9,600.00	89.13	90.00	6,166.02	605.00	2,698.73	672,692.00	567,482.73	32.84922553	-104.24819661
9,700.00	89.13	90.00	6,167.54	605.00	2,798.72	672,692.00	567,582.72	32.84922531	-104.24787102
9,800.00	89.13	90.00	6,169.06	605.00	2,898.71	672,692.00	567,682.71	32.84922509	-104.24754543
9,900.00	89.13	90.00	6,170.57	605.00	2,998.70	672,692.00	567,782.70	32.84922486	-104.24721984
10,000.00	89.13	90.00	6,172.09	605.00	3,098.68	672,692.00	567,882.69	32.84922464	-104.24689425
10,100.00	89.13	90.00	6,173.61	605.00	3,198.67	672,692.00	567,982.68	32.84922441	-104.24656865
10,200.00	89.13	90.00	6,175.13	605.00	3,298.66	672,692.00	568,082.66	32.84922419	-104.24624306
10,300.00	89.13	90.00	6,176.65	605.00	3,398.65	672,692.00	568,182.65	32.84922396	-104.24591747
10,400.00	89.13	90.00	6,178.17	605.00	3,498.64	672,692.00	568,282.64	32.84922373	-104.24559188
10,500.00	89.13	90.00	6,179.68	605.00	3,598.63	672,692.00	568,382.63	32.84922350	-104.24526628
10,600.00	89.13	90.00	6,181.20	605.00	3,698.61	672,692.00	568,482.62	32.84922327	-104.24494069
10,700.00	89.13	90.00	6,182.72	605.00	3,798.60	672,692.00	568,582.61	32.84922304	-104.24461510
10,800.00	89.13	90.00	6,184.24	605.00	3,898.59	672,692.00	568,682.59	32.84922281	-104.24428951
10,900.00	89.13	90.00	6,185.76	605.00	3,998.58	672,692.00	568,782.58	32.84922258	-104.24396392
11,000.00	89.13	90.00	6,187.28	605.00	4,098.57	672,692.00	568,882.57	32.84922235	-104.24363832
11,100.00	89.13	90.00	6,188.79	605.00	4,198.56	672,692.00	568,982.56	32.84922211	-104.24331273
11,200.00	89.13	90.00	6,190.31	605.00	4,298.55	672,692.00	569,082.55	32.84922188	-104.24298714
11,300.00	89.13	90.00	6,191.83	605.00	4,398.53	672,692.00	569,182.54	32.84922164	-104.24266155
11,400.00	89.13	90.00	6,193.35	605.00	4,498.52	672,692.00	569,282.53	32.84922141	-104.24233596
11,500.00	89.13	90.00	6,194.87	605.00	4,598.51	672,692.00	569,382.51	32.84922117	-104.24201036
11,600.00	89.13	90.00	6,196.39	605.00	4,698.50	672,692.00	569,482.50	32.84922093	-104.24168477
11,700.00	89.13	90.00	6,197.90	605.00	4,798.49	672,692.00	569,582.49	32.84922069	-104.24135918
11,764.52	89.13	90.00	6,198.88	605.00	4,863.00	672,692.00	569,647.00	32.84922054	-104.24114911
PBHL @	11764.52' MD	- PBHL (She	ep Dog State 2	:H)					

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
VP (Sheep Dog State 2F - plan hits target cen - Point	0.00 ter	0.00	5,278.06	605.00	-922.48	672,692.00	563,861.52	32.84923300	-104.25998835
FTP (Sheep Dog State 2 - plan hits target cen - Point	0.00 ter	0.07	6,122.00	605.00	-200.00	672,692.00	564,584.00	32.84923160	-104.25763574
PBHL (Sheep Dog State - plan misses target - Point	0.00 center by 1.00	0.07 Ousft at 1176	6,198.88 4.52usft MD	604.00 (6198.88 TVD	4,863.00 , 605.00 N, 48	672,691.00 863.00 E)	569,647.00	32.84921779	-104.24114911

Formations							
	Measured	Vertical				Dip	
	Depth	Depth			Dip	Direction	
	(usft)	(usft)	Name	Lithology	(°)	(°)	
	6,641.92	6,118.07	Target CL: 6125' KBTVD @ 0' VS, 89.13		0.87	90.00	



Planning Report - Geographic

Database: EDM 5000.15 Single User Db Company: Mr NM Operating LLC
Project: Eddy County, NM
Site: Sheep Dog State
Well: Sheep Dog State 2H
Wellbore: Wellbore #1

Prelim Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Sheep Dog State 2H KB @ 3426.00usft KB @ 3426.00usft Grid Minimum Curvature

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
1,400.00	1,400.00	0.00	0.00	KOP - Start Build @ 2°/100'
2,480.67	2,455.23	110.46	-168.43	EOB @ 2480.67' MD, 2455.22' TVD, 21.61° INC
4,381.97	4,222.84	494.54	-754.05	Start Drop @ 2°/100'
5,462.64	5,278.06	605.00	-922.48	Vertical @ 5278.06' TVD
5,559.64	5,375.06	605.00	-922.48	Start Build @ 8°/100'
6,309.64	5,995.30	605.00	-564.38	Hold, 60.00°
6,409.64	6,045.30	605.00	-477.78	Start Build @ 10°/100'
6,700.94	6,122.00	605.00	-200.00	Landing Point @ 6700.94' MD, 6122.00' TVD, 89.13° INC, 90.00° Azi
11,764.52	6,198.88	605.00	4,863.00	PBHL @ 11764.52' MD

I. Operator: MR NM OPERATING

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

Date: 4-11-24

OGRID: 330506

II. Type: ⊠ Original □		due to □ 19.13.27.	9.D(0)(a) NMA	С 🗆 19.13.27.9.D(0)(0) NI	MAC 🗆 Oi	ner.	
If Other, please describe	»:							
III. Well(s): Provide the be recompleted from a s					wells pro	oposed to b	e dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated oduced Water BBL/D
Sheep Dog State 2H	30-15-	L-11-17S-27E	2240 FSL & 299 FWL	350	7	750		1,500
IV. Central Delivery Power of Power Power of the Power Power of the Power Powe	le: Provide the	e following inform	ation for each ne	ew or recompleted	well or		_	posed to be drilled
Well Name	API	Spud Date	TD Reached Date	-		Initial Flow Back Date		First Production Date
Sheep Dog State 2H	30-015-	7-15-24	8-1-24	8-15-24		9-15-24	ı	10-1-24
VI. Separation Equipocapture.	ment: 🗵 Atta	ach a complete de	scription of hov	v Operator will si	ze sepa	ration equi	pmen	t to optimize gas
VII. Operational Pract Subsection A through F		-	ription of the ac	tions Operator wil	l take to	comply w	ith th	ne requirements of
VIII. Best Management during active and planned			ete description o	f Operator's best n	nanagen	nent practic	es to	minimize venting

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
			2.00.02.000	er z jesem zegmene rie m

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connection	ng the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily ca	pacity
of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.	

XII. I	Line Capacity.	. The natural	gas gathering	system 🗆	will \square will	not have	capacity to	gather	100% of th	e anticipated	natural	gas
produ	ction volume fi	rom the well	prior to the dat	te of first p	production.							

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segmen	t, 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 w	ell(s).

7 4 4 4 7 7 7 7	1 .	1		1 1'
Attach (Inerator's	nlan to manage:	nroduction in rec	sponse to the increase	ad line preceiire
I Aliacii Obciaioi s	bian to manage	broduction in res	bodise to the increas	ou mile pressure

XIV.	Confidentiality:	☐ Operator a	asserts c	onfidentiality	purs	uant to	Section	on 71-2	-8 N	MSA :	1978	for t	the informat	tion	prov	vided in
Section	on 2 as provided	in Paragraph	n (2) of	Subsection 1	O of	19.15.2	27.9 N	MAC,	and	attach	es a	full	description	of	the	specific
inforr	nation for which o	confidentiality	is assert	ted and the ba	sis fo	r such a	ssertio	on.								

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: \(\times\) 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) liquids removal on lease; (d) reinjection for underground storage; (e) reinjection for temporary storage; **(f)** reinjection for enhanced oil recovery; **(g)** (h) fuel cell production; and 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: What was a signature of the s
Printed Name: Mary Berry
Title: Manager
E-mail Address: mg@cypressnr.com
Date: 4-19-2024
Phone: 469-344-2646
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

MR NM Operating, LLC Natural Gas Management Plan

VI. Separation Equipment

Separation equipment will be built on the Picard 4H pad. The anticipated production rates from the Picard 4H will be accounted for during design/construction to ensure sufficient capacity exists at the surface to capture all produced fluids.

VII. Operational Practices

MR NM Operating, LLC will take the following actions outlined below to comply with 19.15.27.8 NMAC

A. MR NM Operating, LLC plans to maximize recovery of natural gas and minimize waste thru venting/flaring

B. MR NM Operating, LLC plans to flare during drilling operations from a location exceeding 100' away from the SHL. The flare will be used to combust natural gas brought to the surface during normal drilling operations. Safety will remain priority #1, and MR NM Operating, LLC will account and report appropriately pertaining to any potential emergency.

C. MR NM Operating, LLC plans flare any natural gas brought to the surface during normal completions operations. During flowback, fluids will immediately flow thru a separator on location. Gas will not be flared/vented unless there's a safety concern with pressures at the surface. Gas is expected to meet pipeline standards; if not, MR NM Operating, LLC will flare for the allowed 60 days or less until the gas meets quality specifications. MR NM Operating, LLC plans to sample the produced gas at a reasonable frequency or upon request from regulatory bodies.

D. MR NM Operating, LLC does not plan to flare or vent natural gas except during the situations outlined in 19.15.27.8 D. (1-4).

E. MR NM Operating, LLC will comply with standards outlined in 19.15.27.8 E. (1-8). EOG Resources, Inc. 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. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, EOG Resources, Inc. 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

Pressure maintenance at surface is vital to maintain safe working conditions; venting will be utilized only to depressurize our surface equipment. When maintaining surface or downhole equipment associated with the current production, the well will be shut-in to eliminate venting. If maintenance work takes place on the gas gathering side, gas will route to the flare to eliminate venting.